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# EMPLOYMENT AND PAY ROLLS

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# Employment and Pay Rolls

# SURVEY OF EMPLOYMENT AND PAY ROLLS, JULY 1941

# Total Nonagricultural Employment

MORE than 380,000 additional workers found employment in non-agricultural establishments in July, and total civil nonagricultural employment reached a new all-time peak of 39,241,000. This total represented an increase of 3,787,000 workers since July 1940 and exceeded the level of July 1929 by 2,200,000.

The greater part of the increase in employment between June and July, as shown in table 1, occurred in manufacturing plants and reflected a further acceleration of the production of defense materials. All major groups showed increases in employment between June and July except trade, where a decline of about half the usual seasonal amount occurred in retail stores.

Table 1.—Estimates of Total Nonagricultural Employment
[In thousands]

Industry	July 1941 (prelim- inary)	June 1941	Change June to July 1941	July 1940	Change July 1940 to July 1941
Total civil nonagricultural employment 1	39, 241	38, 858	+383	35, 454	+3, 787
Employees in nonagricultural establishments 2.	33, 098	32, 715	+383	29, 311	+3, 787
Manufacturing Mining Construction Transportation and public utilities Trade Finance, service, and miscellaneous Federal, State, and local government	11, 985 887 1, 877 3, 293 6, 503 4, 391 4, 162	11, 775 876 1, 816 3, 239 6, 530 4, 353 4, 126	+210 +11 +61 +54 -27 +38 +36	9, 832 837 1, 378 3, 059 6, 159 4, 218 3, 828	+2, 153 +50 +499 +234 +344 +173 +334
Military and naval forces (not included above)	1, 857	1, 740	+117	516	+1, 341

Excludes military and naval forces, as well as employees on W. P. A. and N. Y. A. projects, and enrollees in C. C. C. camps.
 Excludes also proprietors, firm members, self-employed persons, casual workers, and domestic servants.

Substantial employment gains since July 1940 were shown by all major industrial groups. The largest employment increase took place in manufacturing, where 2,150,000 additional workers had secured jobs since July 1940. Construction employment increased by 500,000; trade showed a rise of 344,000 workers; and the transportation and



public utilities group reported a gain of 234,000 employees. Approximately 335,000 more civilian workers were employed by Federal, State, and local Government services than in the corresponding month of the preceding year.

# Manufacturing Industries

The defense program is causing a rapid change in the industrial distribution of manufacturing employment. Between June 1940, when the defense effort was inaugurated, and July 1941 employment in 18 private defense industries which handle a major part of the direct defense production orders increased by approximately 910,000 wage earners, or 56 percent, as compared with an increase of 27 percent in total manufacturing employment (see accompanying chart). During the same period durable-goods employment rose 38 percent to reach a total of 5,310,000, while employment in nondurable-goods manufacturing rose only 16 percent to a total of 4,999,000.

Table 2.—Employment in 18 Selected Private Defense Industries, Compared With Manufacturing Employment, January 1939 Through July 1941

[Index numbers 1939=100]

1939   94.6   90.7   93.2	95, 6 97, 5 98, 3 97, 4 96, 2 96, 5 98, 2 102, 5 104, 9
January	97. 5 98. 3 97. 4 96. 2 96. 5 98. 2 102. 5 104. 9
February         96, 2         92.3         94, 5           March         97, 1         93, 5         95, 5           April         97, 0         94, 5         96, 4           May         96, 0         94, 8         95, 6           June         96, 5         95, 7         96, 5           July         96, 7         96, 1         94, 8           August         99, 6         97, 3         95, 9           September         103, 8         101, 2         102, 4           October         107, 4         110, 2         109, 5           November         107, 6         115, 6         111, 8           December         107, 9         118, 1         113, 9           Average         100, 0         100, 0         100, 0           January         105, 1         117, 6         110, 9	97. 5 98. 3 97. 4 96. 2 96. 5 98. 2 102. 5 104. 9
March.     97. 1     93. 5     95. 5       April.     97. 0     94. 5     96. 4       May     96. 0     94. 8     95. 6       June.     96. 5     95. 7     96. 5       July     96. 7     96. 1     94. 8       August     99. 6     97. 3     95. 9       September     103. 8     101. 2     102. 4       October     107. 4     110. 2     109. 5       November     107. 6     115. 6     111. 8       December     107. 9     118. 1     113. 9       Average     100. 0     100. 0     100. 0       January     105. 1     117. 6     110. 9	97. 4 96. 2 96. 5 98. 2 102. 5 104. 9
April	96. 2 96. 5 98. 2 102. 5 104. 9
June     96.5     95.7     96.5       July     96.7     96.1     94.8       August     99.6     97.3     95.9       September     103.8     101.2     102.4       October     107.4     110.2     109.5       November     107.6     115.6     111.8       December     107.9     118.1     113.9       Average     100.0     100.0     100.0       January     105.1     117.6     110.9	96. 5 98. 2 102. 5 104. 9
July	98. 2 102. 5 104. 9
August     99.6     97.3     95.9       September     103.8     101.2     102.4       October     107.4     110.2     109.5       November     107.6     115.6     111.8       December     107.9     118.1     113.9       Average     100.0     100.0     100.0       January     105.1     117.6     110.9	102. 5 104. 9
August     99.6     97.3     95.9       September     103.8     101.2     102.4       October     107.4     110.2     109.5       November     107.6     115.6     111.8       December     107.9     118.1     113.9       Average     100.0     100.0     100.0       January     105.1     117.6     110.9	104. 9
103.8   101.2   102.4	
November 107.6 115.6 111.8 107.9 118.1 113.9 Average 100.0 100.0 100.0 January 1040	
Average 107.9 118.1 113.9 1100.0 100.0	105.7
Average 100.0 100.0 100.0 January 1940 105.1 117.6 110.9	104. 2
January 1940 105.1 117.6 110.9	103. 1
January 105.1 117.6 110.9	100.0
January 105.1 117.6 110.9	
	100.5
February 105.1   117.0   109.9	101. 2
March	100.3
April 103.3 115.5 109.4	98. 5
May	96. 7 97. 3
June 103. 2 119. 9 110. 6	91. 0
July 103.3   123.3   109.0	98.7
August 107. 5 127. 7 113. 5	102.8
september	104.8
October 113.9 136.6 125.0	105. 2
November 114.8 141.2 128.0 December 116.3 146.5 130.4	104. 2 105. 2
December 110.3 140.5 130.4	105. 2
Average 107.6 125.8 115.5	101. 3
1941	
January 115.6 151.3 131.1	103, 2
February	105. 1
March 120.0 161.4 137.1	106. 5
April 122.7 167.9 141.5	107.9
May	108.8
June	440.0
July 130. 7 187. 8 152. 8	110.8 113.3

Approximately half of the aggregate gain in the 18 private defense manufacturing industries occurred in 3 basic durable-goods industries: Blast furnaces, steel works, and rolling mills; foundry and machine-shop products; and electrical machinery. The most pronounced percentage gains took place in industries producing finished war products, such as aircraft, aero engines, munitions, and shipbuilding.

Between June and July 1941, private shipbuilding expanded employment by 20,100 wage earners as new yards in Portland, Oreg.; South Portland, Maine; Los Angeles and Richmond, Calif.; Wilmington, N. C., and at several Gulf coast locations began ship construction. The aircraft industry continued to employ new workers at an increasing rate. During the second quarter of 1941 that industry added to its labor force an average of 10,000 wage earners monthly but this increase was accelerated during July to 15,300 workers as new plant facilities were put into production, notably by Martin, Consolidated, Douglas, Lockheed, and Curtiss-Wright. The industry expected to show even greater employment increases in the fall of 1941 as a result of the heavy-bomber program. Aero-engine employment also expanded sharply in July as some of the major automotive companies tooled up for engine production. nificant gains from June to July were also noted in foundries and machine shops (14,300); blast furances, steel works, and rolling mills (13,000); electrical machinery (11,300); and machine tools (2,100).

Table 3.—Employment in 18 Selected Defense Industries, July 1941

Industry	Index (1939=100)	Percentage change since—		
		July 1941	June 1941	June 1940
18 selected defense industries <sup>1</sup> .		187. 8	+3.8	+56. 5
Blast furances, steel works, and rolling mills. Foundry and machine-shop products. Electrical machinery, apparatus, and supplies. Smelting and refining—copper, lead, and zinc. Brass, bronze, and copper products.	  	144. 3 167. 8 181. 8 130. 1 167. 6	+2.3 +2.6 +3.2 +.9 +.2	+28. 7 +47. 8 +58. 4 +17. 8 +49. 2
Aluminum manufactures Machine tools Machine-tool accessories Abrasives Screw-machine products		151. 9 229. 3 229. 1 184. 3 179. 9	+2.3 +2.2 +3.1 +1.7 +3.6	+28. 3 +51. 1 +70. 1 +59. 2 +71. 6
Aircraft and parts (exclusive of aero engines) Aero engines Shipbuilding Optical goods Instruments.		514. 0 646. 1 300. 7 168. 1 192. 2	+8.1 +10.6 +10.3 +1.1 +3.6	$egin{array}{c} +149.9 \\ +140.4 \\ +126.6 \\ +42.1 \\ +69.6 \end{array}$

<sup>&</sup>lt;sup>1</sup> Figures are not published for firearms, ammunition, or explosives, although data for these industries are included in the aggregate for the 18 selected defense industries.

Two important specialty industries, aluminum ware and die castings, reported substantial declines in employment in July 1941 owing to inability to secure materials because of priority rulings. Other

industries in which significant shortages of materials were reported, and priority unemployment was imminent, were silk and rayon, hardware, electrical household appliances, plumbing supplies, heating equipment, radios and parts, nonferrous metals, and cork products. Employment in the automobile industry declined by approximately 30,000 workers in July as the 1941 model year came to a close. The decline this year was less than the usual seasonal amount as many plants continued 1941 production through July.

# Nonmanufacturing Industries

Employment in anthracite mines showed virtually no change from June to July, but pay rolls fell 32 percent as a result of the stoppage of work during the first week of July, due largely to vacations granted in accordance with the terms of the new union contract. Employment in bituminous-coal mines increased contraseasonally while pay rolls declined slightly because of vacation and holiday observance. In metal mines employment remained stable, while pay rolls fell 8.5 percent, partly as a result of the observance of the Fourth of July week end. Employment in quarries and nonmetallic mines increased slightly, while pay rolls remained at the June level. In the crude-petroleum production industry employment remained virtually unchanged, while pay rolls advanced 3.2 percent.

Telephone and telegraph firms in July reported further advances in employment (2.7 percent) and pay rolls (3.2 percent), which carried them to the highest levels in more than 10 years. In electric light and power, employment and pay rolls from June to July advanced 1.5 percent and 2.0 percent, respectively. Employment and pay rolls in street railways and busses showed little change during the month.

Wholesale trade employment and pay rolls in July remained at the June level. Retail stores showed declines of approximately one-half the usual seasonal amount, the usual summer slackening in department-store and apparel-store sales being partly offset by gains among automotive and lumber and building-material dealers.

Year-round hotels, which have shown a gradual upward trend in employment and pay rolls since the beginning of the defense program, reported a less-than-seasonal decline from June to July while the gains in employment and pay rolls in laundries raised employment and pay rolls in that group to the highest levels in 10 years. Dyeing and cleaning plants showed less-than-seasonal recessions in employment and pay rolls, and employment and pay rolls declined slightly in brokerage firms. Insurance companies experienced slight gains in both employment and pay rolls.

Employment in the private building construction industry increased 3.4 percent from June to July and corresponding weekly pay rolls
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rose 4.3 percent. These gains were slightly greater than the average July gains of preceding years. From July 1940 to July 1941, there was an increase of 18.8 percent in employment and 31.3 percent in pay rolls.

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment gain of 2.7 percent between June and July, the total number employed in July being 1,187,205. Corresponding pay-roll figures for July were not available when this report was prepared. For June they were \$187,864,756, an increase of \$1,931,879 since May.

# Regional Changes in Nonagricultural Employment

The industrial East North Central region continued to lead in nonagricultural employment gains over the year. From July 1940 to July 1941 over 1,120,000 workers found employment in this area. Other regional increases during the year were as follows: Middle Atlantic, 810,000; South Atlantic, 530,000; New England, 450,000; Pacific, 360,000; West North Central, 210,000; West South Central, 190,000; East South Central, 180,000; and Mountain States, 60,000.

Percentage changes in employment in nonagricultural establishments from July 1940 to July 1941 in the various States are shown in the accompanying map and in table 4. States in which the largest percentage increases occurred over the year were Indiana, Virginia, Rhode Island, Connecticut, and Michigan. The smallest percentage increases took place in Montana, North Dakota, and South Dakota.

The defense program has brought about marked changes in the employment structure of many communities located in various parts of the country. Many metropolitan areas have experienced substantial employment gains as a result of expansion in plants devoting their entire capacity to the filling of primary defense contracts. Gains in other areas have resulted from subcontracts for materials, supplies, and parts, while still other localities have been affected indirectly as suppliers of basic raw materials used in defense production.

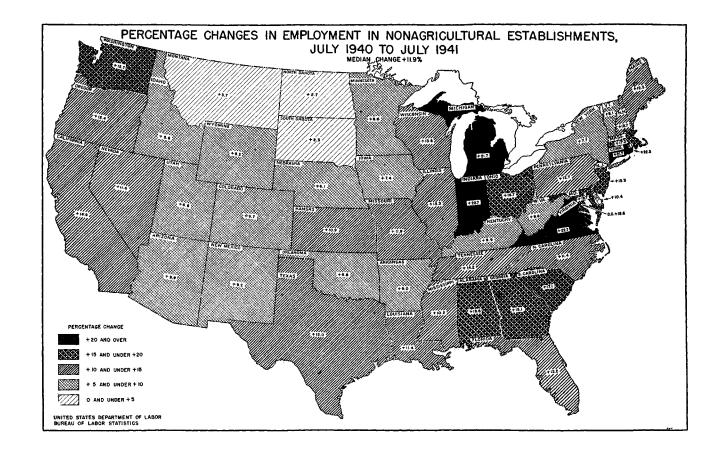


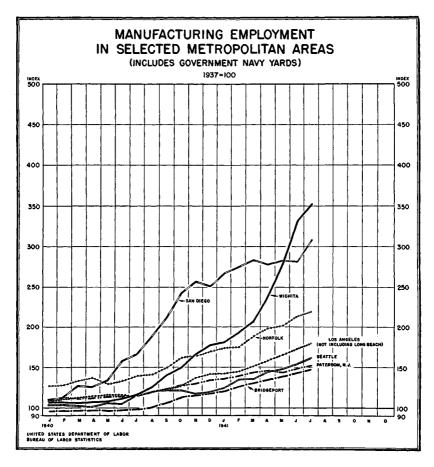
Table 4.—Estimated Number of Employees in Nonagricultural Establishments, by States

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

[Numbers in thousands]

Geographic division and State	July 1941 (prelim-	June		June to 1941	July	Change to Ju	July 1940 ly 1941
	inary)	1941	Number	Percentage	1940	Number	Percentage
New England Maine New Hampshire Vermont. Massachusetts Rhode Island Connecticut	2, 943 217 152 82 1, 527 273	2, 899 210 147 79 1, 508 270	+44 +7 +5 +3 +19 +3 +7	+1.4 +3.4 +3.3 +.9 +1.3 +1.1	2, 497 193 134 74 1, 303 224	+446 +24 +18 +8 +224 +49	+17. 8 +12. 3 +13. 7 +8. 1 +17. 2 +22. 3
Middle Atlantic New York New Jersey Pennsylvania	9 422	685 8, 354 4, 112 1, 296 2, 946	+7 +68 +24 +19 +25	+1.0 +.8 +.6 +1.4 +.8	569 7, 615 3, 839 1, 140 2, 636	+123 +807 +297 +175 +335	+21. 7 +10. 6 +7. 7 +15. 3 +12. 7
East North Central Ohio Indiana Illinois Michigan Wisconsin	7, 793 2, 042 929 2, 524 1, 561 737	7, 724 2, 016 924 2, 503 1, 573 708	+69 +26 +5 +21 -12 +29	+.9 +1.3 +.5 +.8 8 +4.1	6, 666 1, 750 757 2, 227 1, 283 649	+1, 127 +292 +172 +297 +278 +88	+16.9 +16.7 +22.7 +13.3 +21.7 +13.6
West North Central Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	2, 559 578 430 848 79 86 213 325	2, 530 564 424 844 78 85 211 324	+29 +14 +6 +4 +1 +1 +1 +2 +1	+1.2 +2.6 +1.5 +.5 +2.1 +1.6 +1.1 +.3	2, 346 533 400 758 77 84 201 293	+213 +45 +30 +90 +2 +2 +12 +32	+9.1 +8.6 +7.4 +11.9 +2.7 +2.3 +6.1 +10.9
South Atlantic Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	79 602	3, 908 79 598 405 585 401 625 316 531 368	+16 0 +4 +3 +10 +3 -1 +4 -1 -6	+.4 +.1 +.7 +.6 +1.8 +.7 2 +1.1	3, 393 72 507 344 485 368 560 273 461 323	+531 +7 +95 +64 +110 +36 +64 +47 +69 +39	+15.7 +10.4 +18.7 +18.6 +22.7 +9.6 +11.4 +17.1 +15.1 +12.2
East South Central Kentucky Tennessee Alabama Mississippi	388 491 424	1,473 385 482 414 192	+25 +3 +9 +10 +3	+1.7 +.8 +1.8 +2.4 +1.6	1, 321 356 430 358 177	+177 +32 +61 +66 +18	+13.5 +8.9 +14.2 +18.6 +10.2
West South Central Arkansas. Louisiana. Oklahoma. Texas.	1, 992 192 393 306 1, 101	1, 968 188 395 301 1, 084	+24 +4 -2 +5 +17	+1.2 +2.0 4 +1.7 +1.6	1, 798 176 353 286 983	+194 +16 +40 +20 +118	+10.8 +9.0 +11.4 +6.8 +12.0
Mountain  Montana Idaho  Vyoming Colorado  New Mexico  Arizona  Utah  Nevada	851 119 91 58 246 79	825 117 89 57 235 77 96 117	+26 +2 +2 +1 +11 +2 -1 +8 +1	+3.3 +2.2 +2.1 +2.9 +4.7 +2.7 -6.8 +2.3	789 115 86 54 224 72 87 117 34	+62 +4 +5 +4 +22 +7 +8 +8 +4	+7.9 +3.7 +5.6 +8.2 +9.7 +9.2 +9.9 +6.8 +11.6
Pacific Washington Oregon California	2, <b>762</b> 493 275	2, 683 474 277 1, 932	+79 +19 -2 +62	+2.9 +3.8 7 +3.2	2,405 426 244 1,735	+357 +67 +31 +259	+14.8 +15.7 +12.4 +14.9

The accompanying chart shows recent trends of factory employment in cities which have been particularly affected by the defense program. The spectacular rise in employment in Wichita and San Diego reflects the growth of aircraft plants located in those areas. Norfolk, Va., has experienced a marked expansion in both Government and private shipyards. Los Angeles is a leading aircraft center, but has also shown significant employment gains in shipbuilding and in the aluminum industry. Seattle has reported gains in both aircraft and shipbuilding employment. The employment



rise in Paterson, N. J., has followed principally from expansion in the aero-engine industry, while gains in Bridgeport, Conn., can be attributed to expansions in the ammunition; aircraft; brass, bronze, and copper products; and machine-tool industries.

Indexes of factory wage-earner employment for 93 metropolitan areas for the months of June 1941 and July 1941, together with percentage changes from June to July 1941 and from July 1940 to July 1941 are shown in table 5.

Table 5.—Indexes of Employment in Manufacturing Industries, by Metropolitan Area <sup>1</sup> [12-month average 1937=100]

	Employn	ent index	Percentage	Employ-	Percentage change,
Metropolitan area	July 1941	June 1941	change, June to July 1941	ment index, July 1940	July 1940 to July 1941
Akron, Ohio	112. 0	109. 3	+2.5	81. 9	+36. 8
	111. 0	107. 1	+3.6	86. 3	+28. 6
	103. 6	108. 1	-4.2	88. 6	+16. 9
	149. 4	142. 8	+4.6	112. 4	+32. 9
	132. 9	131. 5	+1.1	103. 0	+29. 0
Boston, Mass.*_ Cambridge, Mass Lynn, Mass Somerville, Mass Boston city and outside *	136. 3	133. 1	+2.4	101. 5	+34.3
	105. 0	102. 4	+2.5	83. 9	+25.1
	170. 5	158. 3	+7.7	98. 4	+73.3
	91. 9	103. 1	-10.9	94. 5	-2.8
	138. 1	135. 2	+2.1	104. 0	+32.8
Bridgeport, Conn Buffalo, N. Y Canton, Ohio Chattanooga, Tenn Chicago, Ill Gary, Ind Chicago city and outside	147. 2	142. 6	+3. 2	96. 9	+51, 9
	140. 9	139. 0	+1. 4	102. 4	+37, 6
	139. 7	136. 2	+2. 6	92. 6	+50, 9
	119. 3	118. 0	+1. 1	96. 2	+24, 0
	126. 8	122. 5	+3. 5	98. 3	+29, 0
	123. 3	121. 9	+1. 1	111. 4	+10, 7
	127. 0	122. 6	+3. 6	97. 5	+30, 3
Cincinnati, Ohio	116. 9	114, 9	+1.7	91. 5	+27. 8
	131. 9	129, 2	+2.1	95. 0	+38. 8
	128. 2	123, 9	+3.5	92. 3	+38. 9
	132. 6	127, 0	+4.4	101. 8	+30. 3
	113. 5	113, 6	1	86. 5	+31. 2
Denver, Colo	117. 8	115. 0	+2.4	97. 0	+21. 4
	116. 4	117. 2	7	108. 4	+7. 4
	92. 5	96. 9	-4.5	64. 3	+43. 9
	84. 5	82. 6	+2.3	71. 9	+17. 5
	98. 1	96. 7	+1.4	89. 9	+9. 1
Erie, Pa. Evansville, Ind. Flint, Mich. Fort Wayne, Ind. Fort Worth, Tex.	148. 2	144. 3	+2.7	100. 3	+47.8
	94. 2	98. 7	-4.6	83. 1	+13.4
	93. 5	96. 4	-3.0	51. 4	+81.9
	119. 3	118. 1	+1.0	77. 4	+54.1
	105. 6	105. 3	+.3	86. 7	+21.8
Grand Rapids, Mich	134. 4	136. 9	-1, 8	93. 4	+43, 9
	146. 1	142. 6	+2. 5	102. 7	+42, 3
	114. 6	108. 6	+5. 5	98. 1	+16, 8
	136. 1	133. 9	+1. 6	104. 8	+29, 9
	135. 5	134. 9	+. 4	108. 2	+25, 2
Kansas City, Mo. Kansas City, Kans Kansas City, Kans Kansas City, Mo., and outside. Knoxville, Tenn Los Angeles, Calif Long Beach, Calif Los Angeles city and outside.	112. 4	109. 9	+2.3	92. 3	+21.8
	99. 9	100. 8	9	93. 9	+6.4
	117. 2	113. 4	+3.4	91. 7	+27.8
	116. 4	100. 3	+16.1	87. 0	+33.8
	177. 3	168. 8	+5.0	113. 1	+56.8
	125. 2	119. 8	+4.5	90. 3	+38.6
	178. 7	170. 1	+5.1	113. 7	+57.2
Louisville, Ky Lowell, Mass Memphis, Tenn Miami, Fla Milwaukee, Wis	115. 9	113. 9	+1.8	95. 4	+21, 5
	111. 8	109. 5	+2.1	89. 2	+25, 3
	118. 4	116. 2	+1.9	87. 3	+35, 6
	84. 8	93. 7	-9.5	73. 4	+15, 5
	116. 8	116. 5	+.3	86. 1	+35, 7
Minneapolis-Saint Paul. Saint Paul, Minn. Minneapolis city and outside. Nashville, Tenn. New Haven, Conn	118. 7	115. 1	+3.1	90. 5	+31, 2
	126. 2	121. 4	+4.0	87. 4	+44, 4
	114. 8	111. 8	+2.7	92. 2	+24, 5
	108. 6	106. 0	+2.5	87. 1	+24, 7
	138. 7	137. 3	+1.0	94. 0	+47, 6
New Orleans, La  New York City and northeastern New Jersey?  Newark, N. J. Jersey City, N. J. Patterson, N. J. Elizabeth, N. J. Yonkers, N. Y. New York City and outside?	132. 4	128. 5	+3.0	92. 9	+42.5
	127. 8	126. 5	+1.0	99. 8	+28.1
	133. 4	132. 2	+.9	101. 9	+30.9
	114. 6	112. 0	+2.3	98. 3	+16.6
	151. 9	148. 3	+2.4	114. 5	+32.7
	133. 0	130. 1	+2.2	98. 6	+34.9
	114. 1	112. 3	+1.6	91. 2	+25.1
	128. 1	126. 0	+1.7	99. 4	+28.9

See footnotes at end of table.

Table 5.—Indexes of Employment in Manufacturing Industries, by Metropolitan Area 1— Continued

[12-month average 1937=100]

	Employn	ent index	Percentage	Employ-	Percentage
Metropolitan area	July 1941	June 1941	change, June to July 1941	ment index, July 1940	change, July 1940 to July 1941
Norfolk, Va.² Oklahoma City, Okla Omaha, Nebr Peoria, III Philadelphia, Pa.² Camden, N. J. Philadelphia city and outside ²	219. 1	212. 6	+3. 1	140. 9	+55. 5
	106. 9	104. 2	+2. 6	93. 0	+14. 9
	111. 3	107. 3	+3. 7	92. 5	+20. 3
	111. 1	111. 3	2	87. 8	+26. 5
	120. 7	118. 2	+2. 1	93. 6	+29. 0
	140. 5	138. 7	+1. 3	122. 8	+14. 4
	119. 1	116. 6	+2. 1	91. 2	+30. 6
Pittsburgh, Pa. Portland, Oreg Providence, R. I. <sup>2</sup> Fall River, Mass New Bedford, Mass Providence city and outside <sup>2</sup>	122. 5	120. 0	+2.1	97. 5	+25. 6
	126. 2	129. 8	-2.8	91. 1	+38. 5
	121. 6	120. 9	+.6	96. 7	+25. 7
	112. 5	112. 9	4	102. 9	+9. 3
	100. 3	98. 9	+1.4	72. 1	+39. 1
	128. 6	127. 8	+.6	101. 1	+27. 2
Reading, Pa	77. 4	76. 3	+1. 4	67. 3	+15.0
Richmond, Va	114. 8	112. 4	+2. 1	102. 6	+11.9
Rochester, N. Y.	119. 2	115. 6	+3. 1	97. 2	+22.6
Saint Louis, Mo	118. 6	116. 7	+1. 6	93. 3	+27.1
Salt Lake City, Utah.	95. 7	94. 2	+1. 6	78. 7	+21.6
San Antonio, Tex_ San Diego, Calif	113. 1 308. 0 144. 4 160. 9 140. 5	111. 1 279. 1 129. 0 122. 8 130. 5	+1.8 +10.4 +11.9 +31.0 +7.7	107. 0 165. 6 94. 1 98. 5 93. 0	+5.7 +86.0 +53.5 +63.4 +51.1
Scranton, Pa. Seattle, Wash. South Bend, Ind. Spokane, Wash. Springfield, Mass. 2.	99. 3	99. 3	0	86. 3	+15. 1
	161. 9	152. 4	+6. 2	115. 7	+39. 9
	136. 9	137. 2	2	76. 7	+78. 5
	105. 9	106. 0	1	102. 5	+3. 3
	128. 1	124. 4	+3. 0	92. 9	+37. 9
Syracuse, N. Y. Taooma, Wash Tampa, Fla Toledo, Ohio. Trenton, N. J.	130. 5	130. 0	+. 4	98. 3	+32. 8
	109. 6	104. 7	+4. 7	100. 2	+9. 4
	123. 5	125. 2	-1. 4	97. 3	+26. 9
	98. 7	99. 2	5	73. 0	+35. 2
	133. 3	137. 1	+2. 8	109. 0	+22. 3
Tulsa, Okla Utica, N. Y Washington, D. C. <sup>2</sup> Wichita, Kans Wilmington, Del Worcester, Mass Youngstown, Ohio	129. 9	107. 6 131. 2 149. 0 330. 6 128. 8 118. 0 110. 2	+7. 1 +2. 1 +3. 8 +6. 4 +. 9 +1. 3 +5. 2	90. 7 94. 2 108. 6 116. 0 94. 1 96. 1 91. 7	+27. 0 +42. 1 +42. 4 +203. 3 +38. 0 +24. 3 +26. 4

<sup>&</sup>lt;sup>1</sup> These indexes have been adjusted to levels indicated by the 1939 Census of Manufactures, and are not comparable to those previously published. The revised indexes for previous months are available upon request. The metropolitan areas covered are in each case as defined in the 1930 Census of Population. In cases where cities of 100,000 population or over are located within metropolitan areas, those cities are also

shown separately.

For areas in which Government arsenals or navy yards are located, the scope of the indexes has been widened to include those as well as private manufacturing establishments. In those areas, and in others where there are large plants important to the defense program the data have been weighted to reflect more accu-

rately local employment conditions.

<sup>2</sup> Includes employment in Government navy yards and arsenals.

# Hours and Earnings

Hourly earnings of wage earners in manufacturing industries in July rose to a new high level, but weekly earnings declined slightly as many industries reported a reduction in hours because of the Fourth of July holiday. Wage-rate increases were reported for a substantial but smaller number of workers during July than in the preceding 3 months.

Strategic defense industries continued extensive overtime, 31 of the 43 durable-goods industries regularly tabulated averaging more than 40 hours per week per wage earner. Three defense industries operated in excess of 50 hours per week per wage earner in July: Firearms (51.8 hours), machine tools (50.9 hours), and machine-tool accessories (51.8 hours). Other important defense industries operated at the following levels: Instruments—professional, scientific, and commercial (47.3); screw-machine products (47.2); aircraft (44.7); shipbuilding (44.3); explosives (42.8); brass, bronze, and copper products (44.2); ammunition (41.3); optical goods (40.9); aluminum (40.8); and smelting and refining—copper, lead, and zinc (39.4).

Wage-rate increases (see table 6) during the month ending July 15 1941, averaging 8.5 percent for nearly 500,000 wage earners, were reported by 1,421 manufacturing plants out of a reporting sample of 33,520 establishments employing 7,400,000 workers. Substantial numbers of workers were affected in the following industries: Cotton goods (109,081); shipbuilding (57,792); electrical machinery (22,652); brass, bronze, and copper products (22,412); foundry and machineshop products (17,431); engines, turbines, etc. (17,079); aircraft (14,897); refrigerating and refrigerating apparatus (13,646); agricultural implements (12,835); and boots and shoes (11,500). As the Bureau's survey does not cover all establishments, and 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 during the period.

Average hourly earnings in manufacturing industries rose to 74.4 cents in July, an increase of 0.7 percent over June 1941 and of 12.0 percent over July 1940. A considerable number of industries reported reductions in hourly earnings between June and July owing to a decline in overtime payments, but all 90 of the industries covered showed increases over July 1940. Average hours worked per wage earner for all manufacturing combined declined from 41.3 n June to 40.3 in July, or 2.4 percent. Factory workers, however, were averaging 8.3 percent longer hours in July 1941 than in July 1940. Weekly earnings of full-time and part-time workers averaged \$31.20, a decrease of 1.7 percent from June to July, but an increase of 22.9 percent above July 1940.

As a result of the concentration of the defense production among the durable-goods industries, the expansion in hours and earnings of wage earners over the year interval was considerably greater in the durable- than in the nondurable-goods industries. Average hours in July 1941 in durable goods were 9.7 percent above the July 1940 level while nondurable goods showed an increase of 6.4 percent. Hourly earnings in durable goods in July advanced 14.1 percent over the year as compared with 7.2 percent for the nondurable-goods group. As a

result of these increases, weekly earnings in the durable-goods group (\$35.80) were 26.5 percent above July 1940, while in nondurable goods (\$25.15) they increased 14.9 percent.

Among the nonmanufacturing industries surveyed, anthracite and bituminous-coal mines showed declines in weekly earnings from June to July as the miners received vacations in the first week of July in accordance with the new union agreements. The decline was less pronounced in bituminous-coal mining because those miners received a \$20 payment for the vacation period, while the anthracite miners are to receive vacation allowances in December. Average weekly earnings in metalliferous mining declined 8.3 percent as hours were reduced, but the level of weekly earnings was 10.6 percent higher than a year earlier. Weekly earnings in quarrying and nonmetallic mining declined during the month but were 16.3 percent above the level of July 1940, reflecting increases in both average hours worked and average hourly earnings. In wholesale and retail trade establishments the higher level of weekly earnings as compared with last year was largely due to increased commissions.

Table 6.-Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending July 15, 1941 12

	Establi	shments	Emplo	yees	Average percent-
Group and industry	Total number covered	Number reporting increases	Total number covered	Number having increases	age change in wage rates of employ- ees hav- ing in- creases
All manufacturing	33, 520	1, 421	7, 405, 902	489, 915	8. 5
Durable Nondurable	12, 747 20, 773	516 905	4, 056, 823 3, 349, 079	259, 534 230, 381	9. 2 7. 8
Iron and steel and their products, not including machinery  Blast furnaces, steel works, and rolling mills. Cast-iron pipe. Cutlery (not including silver and plated cutlery) and edge tools Forgings, iron and steel. Hardware. Plumbers' supplies. Stamped and enameled ware Structural and ornamental metalwork. Tin cans and other tinware. Tools (not including edge tools, machine tools, files, and saws). Wirework. Serew-machine products	2, 567 304 72 113 97 156 112 245 244 297 135 134 162 83	113 10 6 5 8 7 5 12 11 12 6 3 3 5 9 3	1, 067, 871 549, 310 20, 366 16, 015 19, 500 42, 040 29, 215 53, 264 42, 912 35, 627 38, 659 20, 432 29, 861 18, 236	21, 898 3, 202 1, 432 1, 084 1, 972 1, 084 7715 3, 211 1, 632 524 1, 192 389 253 711 1, 223	7. 5 7. 1 8. 3 7. 4 10. 0 6. 6 5. 2 7. 3 9. 9 9. 0 7. 6 7. 3 9. 8 6. 5

<sup>&</sup>lt;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.

Table 6.—Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending July 15, 1941—Continued

	Establi	shments	Emplo	yees	Average percent-
Group and industry	Total number covered	Number reporting increases	Total number covered	Number having increases	age change in wage rates of employ- ees hav- ing in- creases
Machinery, not including transportation equipment Agricultural implements (including tractors) Cash registers, adding machines, and calculat-	. 110	158 3	1, 201, 727 70, 446	102, 859 12, 835	8. <b>9</b> 3. 4
ing machines.  Electrical machinery, apparatus, and supplies Engines, turbines, water wheels, and wind-	33 590	3 35	24, 115 331, 407	528 22, 652	8. 3 10. 4
Foundry and machine-shop products	2, 282	6 83	87, 266 390, 363	17, 079 17, 431	6. 1 11. 7
Machine toolsRadios and phonographs.	202	6 5	94, 971 56, 114	7, 448 8, 851	10. 2 10. 0
Machine-tool accessories	- 97	3	56, 114 17, 743 26, 799	388 1, 021	7. 4 5. 5
Pumps. Refrigerating and refrigerating apparatus.	108	5 3	34, 795	13, 646	10.5
Transportation equipment.	832 109	42	924, 072 201, 938	78, 254 14, 897	11.0 11.9
Automobiles	. 418	12	451, 111	5, 210	9. 6
Shipbuilding_	192	19	201, 110	57, 792	10, 9
Nonferrous metals and their products Brass, bronze, and copper products	1, 083 341	50 27	254, 694 101, 351	28, 491 22, 412	7.3
Smelting and refining—copper, lead, and zinc. Sheet-metal work		9	33, 717 8, 038	4, 233 610	9. 3 11. 1
Lumber and allied products.	2, 816	1	372, 860	17, 166	8.2
Furnithre_	715	29	114, 557	4, 175	8. 6
Lumber: Millwork	585	26	44, 282	. 2, 291	8.3
Sawmills Caskets and morticians' goods	751 106	20	143, 561 5, 908	5, 782 169	8. 3 10. 0
Wood, turned and shaped	88	3	6,856	232	9.8
Wooden boxes, other than cigar_ Mattresses and bedsprings_	139		6, 856 15, 234 12, 831	784 2, 056	5. 5 5. 8
	1, 590		235, 599	10, 866	8. 4 12. 6
Brick, tile, and terra cotta Cement	520 130		46, 503 23, 238 6, 227	2, 002 714	10.
Marble, granite, slate, and other products	247 130		6, 227 33, 696	120	5. 1 7. 4
Asbestos products.	22	: 3	10,724	864	4.
Concrete products	103		3, 290 7, 032	1, 907	14. 7.
Textiles and their products.	6, 480		1, 379, 861	150, 436	7.
FabricsCotton goods	3, 451	357 204	1, 034, 325 425, 870	109, 081	7. 6.
Cotton small wares	128	10	15,005	1,018	12.
Dyeing and finishing textiles Hosiery	229		61, 680 99, 454		8. 6.
Knitted outerwear_	226	9	19, 303	623	9.
Knit cloth Silk and rayon goods	75 403		7, 165 78, 975	9,739	8. 8.
Silk and rayon goods Woolen and worsted goods. Cordage and twine	405	13	166, 373 13, 497	3, 988	8.
Housefurnishings, other	61	5	6,877	210	7.
Wearing apparel	3, 029		345, 536 153, 984	12, 040 4, 539	9. 9.
Clothing, women's	1, 155	16	88, 568	1,412	8.
Corsets and allied garments Shirts and collars	65		12, 118 55, 747	1, 562 3, 880	11. 9.
Leather and its manufactures	1, 08		255, 524	15, 220	6.
Boots and shoes. Leather	518 179	8	180, 641 40, 259	3, 136	5.
Boot and shoe cut stock and findings.	127		10, 938	444	5.

Table 6.—Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending July 15, 1941—Continued

	Establi	shments	Emplo	yees	Average percent-
Group and industry	Total number covered	Number reporting increases	Total number covered	Number having increases	age change in wage rates of employ- ees hav- ing in- creases
Food and kindred products  Baking Beverages. Butter	5, 243 1, 000 602 318 1, 044	111 14 9 3 18	528, 030 80, 533 45, 864 6, 339 130, 239	13, 470 777 522 208 3, 916	10. 0 8. 3 9. 9 4. 1 12. 4
Confectionery Flour Slaughtering and meat packing Sugar, beet Condensed and evaporated milk	292 332 332 79 110 106	10 15 8 3 3	36, 436 15, 194 122, 249 4, 663 7, 022 4, 372	1, 771 714 929 474 250	8. 1 10. 1 7. 2 10. 0 7. 6
Feeds, prepared.  Tobacco manufactures.	227	4	71, 820	658 1, 837	7.9 7.4
Paper and printing.  Boxes, paper.  Paper and pulp.  Printing and publishing:	4, 017 666 436	146 56 22	398, 685 49, 773 140, 058	18, 575 3, 923 9, 003	7. 9 10. 2 6. 5
Printing and publishing:  Book and job.  Newspapers and periodicals.  Paper bags. Envelopes  Paper goods, not elsewhere classified.  Bookbinding.  Lithographing.	64 142 91	32 7 3 3 6 8 4	84, 416 62, 697 7, 262 7, 179 20, 313 9, 179 7, 932	1, 435 506 645 152 814 1, 687 359	7. 9 5. 7 7. 6 9. 7 11. 0 8. 9 8. 3
Chemical petroleum, and coal products Chemicals Druggists' preparations Fertilizers Paints and varnishes Petroleum refining Compressed and liquefied gases Perfumes and cosmetics	2, 387 247 93 313 515 185 73 52	108 21 10 4 24 24 7	385, 400 79, 279 13, 330 11, 607 25, 443 77, 384 3, 844 6, 010	12, 047 3, 588 431 111 782 483 209 1, 551	8. 9 8. 7 11. 8 12. 4 8. 0 6. 7 7. 9 11. 5
Rubber products	248 194	7 5	139,712 50,056	5 <b>, 136</b> 1, 785	8. 4 9. 2
Miscellaneous. Fabricated plastic and wood-pulp products. Instruments—professional, scientific, and com-	1, 086 73	<b>42</b> 3	190, 047 19, 530	13, <b>659</b> 1, 222	<b>9. 6</b> 7. 6
mercial	68 32	6 3	26, 480 18, 231	6, 594 813	11. 2 8. 0
All nonmanufacturing (except building construction).  Anthracite mining. Bituminous-coal mining. Metalliferous mining. Quarrying and nonmetallic mining. Crude-petroleum production. Telephone and telegraph. Natural gas. Electric light and power. Manufactured gas Street railways and busses. Trade:	*390 *1,090 *470 *9,540 *710 *2,850 *160	338 12 18 13 27 6 3 3 44 4 4 55	3, 056, 000 59, 100 243, 900 75, 500 41, 000 38, 300 322, 100 25, 000 253, 300 35, 400 132, 400	40, 318 116 3, 486 2, 848 1, 028 90 707 147 3, 356 1, 780 1), 628	7. 7 10. 0 7. 8 6. 3 8. 9 6. 2 5. 2 9. 1 5. 2 6. 0 8. 4
Wholesale	*14, 940 *54, 120 *1, 990 *1, 310 *1, 310	71 53 7 11 7	341, 700 1, 083, 400 148, 100 88, 800 18, 000	2, 584 2, 439 850 854 36	9. 5 7. 6 6. 1 9. 6 10. 1

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

# Public Employment

Increasing at the rate of approximately 40,500 per month during the first year of the defense emergency, employment on construction projects financed from appropriations to regular Federal agencies rose to 873,000 in the month ending July 15. Employment on building construction projects increased fifteenfold over the year period while the number of men at work on heavy engineering projects rose from 140 in July 1940 to almost 9,000 in July 1941. Employment on the construction of naval vessels more than doubled during the year. On the construction of cargo vessels the number of men at work rose from 26,000 to 40,000. Total pay-roll disbursements on construction projects financed from regular funds were \$121,148,000 in the month ending July 15.

With a large part of defense housing being financed by appropriations to regular Federal agencies, employment on housing projects under the United States Housing Authority program showed a decline of 4,000 during the month ending July 15.

Employment on construction projects financed by the Reconstruction Finance Corporation increased sixfold from July 1940 to July 1941. Increased activity on construction work essential to the defense program was largely responsible for the gain.

Increasing employment in other fields and on vital defense projects lightened the relief load considerably during the year. In July approximately 1,055,000 persons were employed on work relief projects financed from Work Projects Administration funds. This figure represents a decrease of about 700,000 over the year period. Two-thirds of workers remaining on work relief were employed on defense projects. Pay-roll disbursements on these projects totaled \$68,200,000.

Because of the completion of the school year in June only 2,300 students were employed on the student-work program of the National Youth Administration in July. Employment on the out-of-school work program was curtailed to 323,000.

Employment in camps of the Civilian Conservation Corps showed a loss of 24,000 in July. Of the 210,000 on the pay roll, 178,300 were enrollees; 1,400, educational advisers; 100, nurses; and 30,200, supervisory and technical employees. Total pay rolls of \$10,388,000 were \$890,000 less than in June.

Increased employment was reported in all of the regular services of the Federal Government. Of the 1,392,000 employees in the executive service, 185,000 were working in the District of Columbia and 1,207,000 outside the District. Force-account employees (employees on the pay roll of the United States Government who are engaged on construction projects, and whose period of employment

terminates as the project is completed) constituted 12 percent of the total number of employees in the executive service. Increased employment was reported in the War, Navy, and Post Office Departments and the Tennessee Valley Authority while decreases were reported in the Federal Security and Federal Works Agencies.

The seasonal increase of activity on State-financed road projects in July resulted in an employment gain of 6,000. Of the 202,000 men on the pay roll, 65,000 were engaged in the construction of new roads and 137,000 in maintenance.

A summary of employment and pay-roll data in the regular Federal services and on projects financed wholly or partially from Federal funds is given in table 7.

Table 7.—Summary of Employment and Pay Rolls in Regular Federal Services and on Construction Projects Financed Wholly or Partially from Federal Funds, July 1941

[Preliminary figures]								
	1	Employme	nt	Pay rolls				
Class	July 1941	June 1941	Percent- age change	July 1941	June 1941	Percent- age change		
Judicial Legislative	2, 637 6, 142	1, 370, 110 2, 526 6, 132 1, 740, 058 820, 110	+1.6 +4.4 +.2 +6.7	\$205, 977, 306 647, 810 1, 334, 763 122, 384, 486	\$205, 581, 047 644, 557 1, 336, 535 105, 021, 351	+0. 2 +. 5 , 1 +16. 5		
Defense Other U. S. H. A. low-rent housing	653, 779 218, 884	615, 695 204, 415 40, 958	+6. 2 +7. 1 -10. 8	98, 908, 072 22, 240, 117 3, 849, 428	91, 385, 025 20, 097, 621 4, 247, 710	+8. 2 +10. 7 -9. 4		
Defense Other Financed by P.W. A <sup>2</sup> Financed by R. F. C. <sup>3</sup>	2, 765 33, 778 7, 456 13, 398	5, 082 35, 876 9, 507 10, 935	$     \begin{array}{r}       -45.6 \\       -5.8 \\       -21.6 \\       +22.5     \end{array} $	290, 522 3, 558, 906 807, 747 1, 908, 303	503, 929 3, 743, 781 1, 056, 578 1, 522, 123	-42. 3 -4. 9 -23. 6 +25. 4		
Defense Other Work Projects Administration projects.		8, 572 2, 363 1, 419, 017	+25.0 $+13.4$ $-25.7$	1, 587, 160 321, 143 68, 200, 000	1, 232, 888 289, 235 81, 546, 281	+28.7 +11.0 -16.4		
Defense Other National Youth Administration:	357, 593 697, 419	420, 965 998, 052	-15. 1 -30. 1	(4) (4)	(4) (4)			
Student work program Out-of-school work program Civilian Conservation Corps	2, 309 322, 736 210, 121	358, 004 392, 514 235, 024	-99.4 -17.8 -10.6	12, 375 7, 163, 747 10, 388, 164	2, 602, 449 8, 112, 719 11, 277, 971	-99. 5 -11. 7 -7. 9		

¹ Includes force-account and supervisory and technical employees shown under other classifications to the extent of 196,080 employees and pay-roll disbursements of \$29,267,610 for July 1941, and 190,120 employees and pay-roll disbursements of \$27,526,403 for June 1941.
¹ Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, 1937 funds, and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under projects financed by the Work Projects Administration. Includes 3,446 wage earners and \$558,713 pay roll for July 1941; 3,327 wage earners and \$563,935 pay roll for June 1941; covering Public Works Administration projects financed from Emergency Relief Appropriation Act of 1935, 1936, and 1937 funds. Includes 3,758 wage earners and \$437,254 pay roll for July 1941 financed from funds provided by the Public Works Administration Appropriation Act of 1938.
³ Includes 467 employees and pay-roll disbursements of \$93,869 for July 1941; 351 employees and pay-roll disbursements of \$96,073 for June 1941; on projects financed by the RFC Mortgage Co.
¹ Pay-roll data not available.

## DETAILED TABLES, JULY 1941

# Industrial and Business Employment

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

The indexes of factory employment and pay rolls relate to wage Those shown in tables 8 and 9 are based on the 3-year average 1923-25 as 100. For all manufacturing industries combined, the durable-goods group, the nondurable-goods group, and aluminum manufactures, they have been adjusted to preliminary 1939 census figures and for automobiles to the 1933 census. The indexes for all other groups and industries have been adjusted to 1937 census data except for the aircraft industry and the transportation equipment group, which have been adjusted on the basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics in August 1940. The over-all manufacturing indexes are computed from reports supplied by representative manufacturing establishments in 90 of the 157 industries surveyed. cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 industries covered.

Indexes for 55 of the 67 manufacturing industries recently added to the monthly survey are shown in table 10. These indexes are based on 1939 as 100.

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

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

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

The average weekly earnings shown in tables 8 and 9 are computed by dividing the weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. all reporting establishments supply man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a slightly smaller number of reporting firms. size and composition of the reporting sample vary somewhat from month to month, the average hours per week, average hourly earnings, and average weekly earnings shown may not be strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movement of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from July 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 July 1941 are shown in table 8. Percentage changes from June 1941 and July 1940 are also given.

The employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for May, June, and July 1941, where available, are presented in table 9. The May and June 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 10 for 55 of the 67 newly added manufacturing industries for the months of May, June, and July 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 11 indexes of employment and pay rolls are given for all manufacturing industries combined, for the durable- and nondurablegoods groups of manufacturing industries, and for each of 13 non-manufacturing industries, by months, from July 1940 to July 1941, inclusive. The indexes for all manufacturing industries combined, the durable-goods group, and the nondurable-goods group have been adjusted to preliminary 1939 census figures. Comparable indexes for all available months and years back to January 1919 are given in tables 9, 10, and 11 of the December 1940 issue of this pamphlet. The chart on page 2 indicates the trend of factory employment and pay rolls from January 1919 to July 1941.

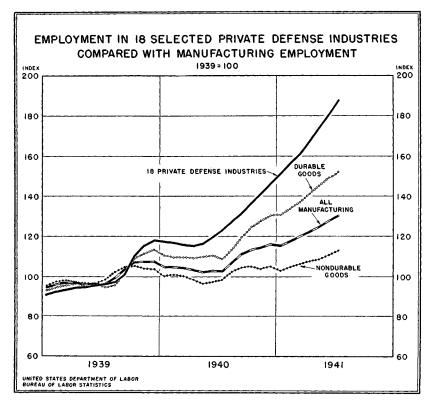
Use of average hourly earnings in "escalator" clauses.—Average hourly earnings of wage earners, such as those shown in table 8, have been compiled regularly by the Bureau of Labor Statistics since 1932. These averages are published for the use of those who wish either to compare the average earnings 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 As an example of the latter cause of change, it is evident that if, from one month to the next, the number of wage earners employed in a high-wage industry increases proportionally more than employment generally has increased, the average of actual earnings for the group as a whole will increase. This increase might take place even though there were no changes whatsoever in the earnings of any wage earner in any one of the establishments. It is apparent, therefore, that the Bureau's averages reflect both changes in the actual hourly rates paid as well as changes in the composition of the wage earners in the group. The averages contained in table 8 for all manufacturing, for durable goods, for nondurable goods, and for the various subgroups of industries, such as "iron and steel and their products," reflects 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 did not represent a general decline in wages but only reflected a sharp reduction in employment in the automobile



industry at the close of the model year. This industry is a high-wage industry in which the average hourly earnings are about 95 cents an hour. Between June 1940 and July 1940 employment in the automobile industry dropped from 104.9 to 82.3. This relative decline, of a purely seasonable character, in the number of highly paid automobile workers was very largely responsible for the decline of half a cent noted in the average hourly earnings in durable-goods industries.

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

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

#### 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]

	Eı	mployme	ent		Pay rolls	3		erage wee earnings			e hours er week			erage hou earnings		
Industry	Index	Perce change	ntage from-	Index		entage from-	July	Perce change	entage from-	July		entage from-	July	Perce		
	July 1941	June 1941	July 1940	July 1941	June 1941	July 1940	1941	June 1941	July 1940	1941	June 1941	July 1940	1941	June 1941	July 1940	
All manufacturing 2	130. 6	+2.2	+26.6	152. 8	+0.5	+55. 6	\$31. 20	-1.7	+22.9	40. 3	-2.4	+8.3	Cents 74, 4	+0.7	+12.0	
Durable goods 2 Nondurable goods 2	137. 9 123. 7	$^{+2.1}_{+2.2}$	$^{+40.1}_{+14.7}$	172. 6 130. 6	7 +2. 2	+77. 2 +31. 8	35. 80 25. 15	-2.6 0	+26.5 +14.9	41. 5 39. 0	-3.6 -1.0	+9.7 +6.4	. 82. 6 65. 7	+.4 +1.1	$+14.1 \\ +7.2$	23
$Durable\ goods$								====								•
Iron and steel and their products, not including machinery.  Blast furnaces, steel works, and rolling mills.  Bolts, nuts, washers and rivets.  Cast-iron pipe.  Cutlery (not including silver and plated	138. 3 147. 2 167. 4 97. 6	+1.6 +2.3 +1.1 +.8	+30.2 $+23.7$ $+53.3$ $+24.8$	166. 9 181. 5 224. 3 112. 2	-1. 0 +. 9 -9. 7 -2. 1	+59. 9 +56. 2 +101. 0 +49. 8	35. 46 38. 99 32. 14 27. 45	-2. 6 -1. 3 -10. 6 -2. 8	+22. 8 +26. 3 +31. 1 +20. 0	<b>39.</b> 9 38. 7 41. 6 40. 4	-4. 8 -5. 4 -8. 8 -3. 3	+7. 1 +6. 1 +17. 9 +6. 0	86. 2 96. 3 77. 2 67. 7	2 1 -2. 0 +. 9	+11.7 +13.7 +11.1 +13.3	
cutlery) and edge tools.  Forgings, iron and steel.  Hardware	123. 6 107. 2 114. 2 101. 7 222. 0	+2.7 +2.9 -3.5 8 +.8	+25. 1 +58. 2 +37. 7 +20. 5 +45. 2	134, 9 157, 1 136, 8 101, 6 272, 1	-3.1 -4.0 -8.9 -4.4 -2.5	$     \begin{array}{r}     +48.8 \\     +102.1 \\     +59.6 \\     +33.6 \\     +63.2     \end{array} $	28. 65 38. 84 29. 51 28. 89 28. 61	-5. 6 -6. 7 -5. 6 -3. 7 -3. 2	+19.0 +27.8 +15.8 +10.9 +12.4	42, 0 43, 9 40, 5 38, 9 39, 9	-4.4 -6.5 -4.7 -3.7 -4.0	+6.9 +11.5 +8.3 +2.6 +4.1	69. 1 88. 6 73. 0 74. 2 71. 6	-1. 4 2 9 -(4) +. 8	+11. 1 +14. 5 +7. 1 +7. 9 +7. 3	
Steam and hot-water heating apparatus and steam fittings. Stoves. Structural and ornamental metalwork. Tin cans and other tinware. The (not including added tools, machine tools).	119. 0 116. 6 107. 3 138. 8	+4. 2 +. 6 +1. 7 +5. 2	$ \begin{array}{r} +41.3 \\ +27.0 \\ +41.1 \\ +31.2 \end{array} $	137. 5 122. 0 112. 1 171. 3	$ \begin{array}{c c}2 \\ -2.2 \\ -6.7 \\ +5.0 \end{array} $	+76. 2 +50. 1 +65. 9 +51. 0	34, 65 29, 61 33, 74 27, 59	-4.3 -2.8 -8.2 2	+24.6 +18.3 +17.5 +15.1	43, 4 40, 3 41, 2 42, 0	-2.8 -2.7 -6.7 2	+10.0 +6.9 +6.6 +7.4	80. 1 73. 0 82. 2 66. 4	-1.7 2 -1.6 +.7	+13. 2 +9. 4 +10. 6 +7. 5	
Tools (not including edge tools, machine tools, files, and saws). Wirework.	139. 8 213. 2	$+1.1 \\ -1.3$	+48. 8 +56. 8	172. 6 271. 6	-4. 7 -4. 5	+88.3 +93.3	31. 29 30. 85	-5.7 -3.2	+26.5  +23.3	43. 3 42. 0	-7. 2 -2, 4	$+10.8 \\ +12.4$	72. 9 73. 5	+2.2 7	+15.0 +9.5	

See footnotes at end of table.

Table 8.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, July 1941—Continued

MANUFACTURING—Continued

	Er	nployme	nt		Pay rolls	3		erage wee	ekly		e bours er week			erage hou earnings	ırly
Industry	lndex July	Perce change		Index July		entage from—	July		ntage from—	July	Perce change	entage from—	July	Perce change	entage from—
	1941	June 1941	July 1940	1941	June 1941	July 1940	1941	June 1941	July 1940	1941	June 1941	July 1940	1941	June 1941	July 1940
Durable goods—Continued  Machinery, not including transportation equipment.	172. 6	+2.7	+48.7	233. 3	+1.3	+85.7	837. 51	-1.3	+25.0	44. 6	-2.0	+10. 2	Cents 83. 6	+.4	+012.9
Agricultural implements (including tractors) Cash registers, adding machines, and calculat-	171. 4	2	+31.3	228.4	-2.1	+53.5	36. 62	-1.8	+16.8	41. 2	<b>-2.</b> 1	+5.7	89. 0	+.5	+10.6
ing machines  Electrical machinery, apparatus, and supplies Engines, turbines, water wheels. and wind-	167. 5 163. 6	+3.0 +3.2	+29.3 +57.6	214. 0 231. 9	-1.0 +3.5	+57.8 +96.4	39. 87 37. 34	-3. 9 +. 4	$^{+22.1}_{+24.6}$	43. 9 43. 5	-3.0 8	+10.5 +9.5	91. 6 85. 5	9 +1.1	$+11.4 \\ +13.2$
mills. Foundry and machine-shop products. Machine tools 5. Radios and phonographs. Textile machinery and parts. Typewriters and parts.	346.0 188.7 106.3	+4.3 +2.6 +2.2 +4.4 +2.5 +3.3	+77. 8 +46. 2 +47. 4 +31. 6 +38. 1 +33. 9	497. 7 177. 8 534. 7 218. 7 132. 7 217. 2	+4.5 8 +1.0 +9.1 +1.7 +4.7	+123.6 +84.7 +73.7 +57.9 +80.9 +85.7	44. 34 36. 61 42. 80 28. 30 34. 31 34. 77	+.3 -3.3 -1.2 +4.5 8 +1.3	+25.8 +26.3 +17.9 +20.0 +31.0 +38.8	46. 5 44. 6 50. 9 41. 2 46. 5 46. 4	$ \begin{array}{r}1 \\ -3.3 \\ -2.1 \\ +.4 \\5 \\ +1.4 \end{array} $	+6.9 +11.8 +6.9 +6.9 +18.4 +20.6	95. 2 81. 7 84. 1 69. 3 74. 2 74. 9	+.3 2 +1.0 +4.0 3 -(4)	+17.7 $+12.7$ $+10.2$ $+12.4$ $+10.6$ $+15.0$
Transportation equipment 6 Aircraft 6 Automobiles 7 Cars, electric- and steam-railroad Locomotives Shipbuilding	7, 280. 0 127. 3 89. 5 75. 7 368. 9		+79.7 $+131.4$ $+54.6$ $+77.1$ $+143.5$ $+116.8$	229. 9 9, 077. 7 160. 1 90. 9 102. 5 571. 0	$\begin{array}{c} -4.0 \\ +10.5 \\ -15.1 \\7 \\ +12.8 \\ +14.7 \end{array}$	+132.5 +190.5 +98.9 +113.1 +227.4 +195.2	40. 67 36. 48 41. 13 32. 41 41. 49 45. 59	$ \begin{array}{r} -4.8 \\ +2.3 \\ -10.1 \\ -5.1 \\ +1.5 \\ +4.0 \end{array} $	+29. 3 +18. 8 +28. 6 +20. 3 +34. 4 +36. 1	41. 2 44. 7 38. 8 39. 0 46. 3 44. 3	-5.8 5 -10.2 -4.6 4 -1.9	+14.3 +6.5 +13.8 +9.6 +18.2 +13.5	98. 8 82. 0 106. 4 83. 2 89. 6 101. 6	+1. 2 +2. 7 +. 1 5 +1. 9 +6. 8	$+12.2 \\ +10.7 \\ +12.9 \\ +9.1 \\ +13.7 \\ +19.2$
Nonferrous metals and their products  Aluminum manufactures s.  Brass, bronze, and copper products.  Clocks and watches and time-recording de-	143.5	$^{+1.1}_{+2.3}$ $^{+.2}$	+34. 1 +25. 3 +46. 4	174. 1 319. 8 263. 9	<b>3</b> <b>4</b> +. 6	+64. 4 +59. 4 +80. 5	33, 82 34, 17 38, 55	-1.4 -2.7 +.4	$+22.5 \\ +27.3 \\ +23.3$	42. 0 40. 8 44. 2	~2.4 -3.2 -1.2	+7.8 +11.8 +7.7	80. 3 83. 7 87. 8	+1.1 +.6 +1.8	+14.3 +13.8 +15.0
vices.  Jewelry  Lighting equipment 5 Silverware and plated ware. Smelting and refining—copper, lead and zinc.	111. 7 116. 4 83. 4	+1.1 +4.6 +2.1 7 +.9	+31.4 +19.8 +51.6 +31.7 +15.5	138. 4 105. 2 117. 8 87. 4 116. 7	-6.4 +3.8 +.3 -6.9 +.1	+51. 9 +38. 8 +82. 9 +69. 7 +34. 4	25. 83 25. 24 31. 52 30. 43 32. 00	-7.5 7 -1.7 -6.3 8	+15.7 +15.8 +20.7 +28.8 +16.4	38. 5 41. 5 40. 5 42, 1 39. 4	$     \begin{array}{r}       -9.1 \\       +.3 \\       -2.0 \\       -4.5 \\       -2.7     \end{array} $	$     \begin{array}{r}     +2.6 \\     +9.0 \\     +6.5 \\     +15.0 \\     +2.7     \end{array} $	67. 1 60. 7 77. 3 73. 1 81. 3	+1.8 3 +.2 -1.9 +1.9	+13. 1 +8. 3 +13. 4 +13. 0 +13. 5
Lumber and allied products  Furniture  Lumber:	`79. 7 105. 6	+3.6 +1.7	+16.9 +20.4	85. <b>6</b> 110. 1	+1.9 +.1	+41.0 +48.2	23. 23 24. 68	-1.6 -1.6	+20.7 +23.2	39. 9 41. 4	~2. 6 -2. 4	+7.9 +11.2	57. 7 60. 1	+.9 +.8	+11.8 +11.4
Millwork	75. 7 70. 2	+4.5 +4.4	$^{+21.0}_{+14.0}$	68. 3 73. 6	+1.7 +3.3	+40. 1 +36. 7	24. 74 21. 61	-2.7 $-1.3$	+15.7 +19.9	41. 7 38. 6	$\begin{bmatrix} -2.3 \\ -2.7 \end{bmatrix}$	$^{+6.1}_{+6.2}$	59. 3 55. 9	3 +1.4	+9.3 +12.9

Stone, clay, and glass products  Brick, tile, and terra cotta  Cement  Glass  Marble, granite, slate, and other products  Pottery	99. 6 77. 6 82. 4 127. 9 45. 3 116. 7	+2.6 +3.9 +4.1 +1.9 5 +2.0	+20.9 +21.1 +14.5 +23.9 -4.7 +33.7	99. 1 73. 8 90. 6 147. 1 34. 9 114. 9	-1.1 +2.8 +1.2 -4.1 +.8 -2.8	+39.4 +42.4 +32.3 +39.8 +2.0 +61.9	26. 94 24. 70 31. 00 28. 19 26. 90 24. 90	-3.6 -1.1 -2.8 -5.9 +1.3 -4.7	+15. <b>3</b> +17. 6 +15. 6 +13. 0 +7. 0 +21. 1	37. 4 38. 4 40. 2 36. 1 36. 6 36. 5	-3.6 -1.2 -3.6 -6.1 1 -4.7	+4.7 +3.9 +6.5 +7.0 +4.3 +5.9	72. 0 64. 7 77. 1 78. 2 73. 3 68. 3	+.4 +.8 +.8 -(4) +1.2 +.4	+8.3 +14.5 +8.5 +5.1 +1.8 +9.8
Nondurable goods															
Textiles and their products	113. 2 107. 0 89. 0 109. 1 105. 2 139. 0 83. 6 143. 4 80. 8 85. 7 159. 7 69. 3 109. 0	+.5 +.8 -1.0 +.5 +1.4 2 +1.1 +.5 +1.8 +8.2 3 +.1 +1.0	+19.8 +21.6 +25.7 +23.9 +42.9 +19.7 +.8 +9.3 +22.2 +18.4 +17.1 +14.6 +30.9	113. 6 113. 3 89. 5 122. 9 120. 6 134. 3 91. 4 159. 9 75. 0 91. 0 152. 4 64. 0 116. 8	+2.0 +1.5 8 +2.4 +3.7 +.8 +6.6 +1.1 +.2 +9.9 3 1	+46. 2 +48. 3 +65. 8 +57. 0 +74. 1 +41. 4 +16. 6 +23. 8 +39. 5 +44. 5 +30. 2 +37. 4 +58. 1	20. 57 20. 46 27. 77 18. 26 22. 29 23. 43 29. 97 19. 93 19. 29 17. 89 21. 74 19. 00 24. 75	+1.5 +.8 +.2 +1.8 +2.3 +1.0 +5.4 +.6 -1.6 +1.6 0 2 -1.1	+22. 1 +22. 0 +31. 9 +26. 6 +22. 5 +18. 0 +15. 6 +13. 2 +14. 0 +22. 3 +11. 2 +19. 8 +20. 9	37. 4 38. 5 39. 2 38. 8 40. 9 38. 2 38. 0 36. 3 37. 9 38. 8 39. 6 37. 3	-1.7 -1.63 -2.2 -1.56 +5.46 -2.4 +1.1 -1.1 -3.5 -1.3	+10.8 +10.7 +23.5 +11.5 +10.6 +5.8 +5.3 +12.5 +13.3 +1.6 +8.6 +8.9	55. 0 53. 4 70. 9 47. 1 54. 6 60. 8 80. 5 55. 2 50. 3 46. 1 53. 9 50. 3 62. 8	+2.8 +2.3 +.4 +4.2 +3.4 +1.7 +.7 +1.3 +.5 +.7 +1.3 +3.4 +.2	$\begin{array}{c} +9.6 \\ +10.1 \\ +6.7 \\ +13.8 \\ +10.6 \\ +11.7 \\ +9.5 \\ +.6 \\ +7.1 \\ +6.2 \\ +7.5 \\ +10.3 \\ +10.9 \end{array}$
Wearing apparel Clothing, men's Clothing, women's Corsets and allied garments Men's furnishings Millinery Shirts and collars 8	122. 3 121. 9 159. 8 115. 1 126. 2 57. 5 129. 2	$\begin{array}{c} +.3 \\ +1.5 \\ +.7 \\ -2.4 \\ +3.6 \\ -8.5 \\ -2.2 \end{array}$	+16.6 $+18.1$ $+16.4$ $+12.4$ $+15.0$ $+5.4$ $+16.8$	107. 3 109. 4 127. 8 131. 6 137. 3 39. 6 131. 0	+3.1 $+2.0$ $+7.5$ $-5.2$ $+4.7$ $-6.7$ $-3.5$	$ \begin{array}{r} +41.7 \\ +42.6 \\ +43.0 \\ +31.9 \\ +40.6 \\ +8.4 \\ +49.3 \end{array} $	20. 88 22. 82 21. 43 19. 01 16. 07 21. 05 16. 11	+2.7 $+6.8$ $-2.8$ $+1.1$ $+1.9$ $-1.3$	+21. 5 +20. 2 +23. 1 +17. 4 +22. 5 +2. 9 +27. 8	35. 4 35. 6 35. 0 37. 9 34. 9 27. 6 36. 9	-1.8 -1.8 -1.7 -2.8 -3.2 -3.5 -1.2	+10.8  +10.3  +9.8  +10.6  +9.9  -5.5  +16.2	58. 2 63. 8 58. 4 50. 1 44. 7 71. 7 43. 8	+3.9 +1.9 +7.5 +.9 +3.4 +4.8 +.2	+8.9 $+9.1$ $+10.7$ $+6.7$ $+11.9$ $+10.7$ $+7.4$
Leather and its manufactures.  Boots and shoes.  Leather.	101. 0 98. 1 95. 5	$\begin{array}{c c} +3.0 \\ +3.3 \\ +1.7 \end{array}$	+10.3 +8.1 +19.2	103. 3 98. 8 109. 4	+6.3 +7.5 +2.7	+35. 2 +32. 4 +44. 1	23. 64 22. 53 28. 64	$+3.2 \\ +4.1 \\ +1.0$	$   \begin{array}{r}     +22.7 \\     +22.7 \\     +20.9   \end{array} $	38. 7 38. 4 40. 3	+. 3 +. 8 -1. 4	+9. 3 +9. 1 +9. 9	60. 9 58. 4 71. 1	$ \begin{array}{c c} +1.8 \\ +1.9 \\ +1.5 \end{array} $	$^{+11.6}_{+11.6}_{+9.3}$
Food and kindred products  Baking  Beverages  Butter  Canning and preserving  Confectionery  Flour  Ice cream  Slaughtering and meat packing  Sugar, beet  Sugar refining, cane	144. 5 150. 2 323. 6 112. 6 210. 1 83. 2 80. 1 95. 9 118. 5 51. 5 93. 1	+7.0 -1.3 +4.5 -1.1 +54.6 +3.4 +2.8 +4.1 -1.6 +7.1 -5.5	+6.7 +2.1 +7.8 +7.7 +17.3 +13.0 -(4) +4.1 +6.6 -10.7 -7.9	152. 4 153. 1 421. 6 103. 8 213. 4 84. 5 82. 4 84. 9 139. 3 56. 6 87. 0	+5.6 9 +7.7 7 +59.8 -1.2 +4.2 +2.8 +1.1 -1.0 -10.5	+16. 1 +7. 7 +19. 5 +15. 5 +46. 1 +22. 0 +8. 8 +8. 7 +18. 5 +2. 0 -4. 9	26. 61 28. 26 38. 15 24. 06 19. 38 19. 61 27. 61 29. 99 30. 62 28. 47 26. 47	$\begin{array}{c} -1.3 \\ +.4 \\ +3.1 \\ +.3 \\ +3.4 \\ -4.5 \\ +1.4 \\ -1.2 \\ +2.7 \\ -7.5 \\ -5.2 \end{array}$	+8.8 +5.4 +10.8 +7.1 +24.6 +7.9 +8.8 +4.5 +11.1 +14.4 +3.2	41. 1 42. 1 42. 2 46. 8 38. 9 35. 6 43. 3 46. 7 41. 5 37. 3 39. 3	+. 5 5 +2. 1 2 +6. 2 -6. 5 +. 4 6 +2. 9 -6. 3 -5. 8	+3.0 +1.3 +6.6 +2.2 +7.2 8 +4.5 +2.2 +3.4 +5.1	66. 1 67. 4 91. 3 50. 8 50. 4 54. 6 63. 7 64. 2 73. 7 78. 3 67. 4	-1. 6 +1. 0 +1. 1 +. 4 -2. 7 +(*) +1. 0 3 1 -1. 2 +. 7	+6.1 +4.5 +4.0 +5.6 +15.0 +7.2 +4.2 +2.4 +7.3 +8.2 +3.4
Tobacco manufactures.  Chewing and smoking tobacco and snuff.  Cigars and cigarettes.	65. 4 52. 0 67. 0	2 2 3	$ \begin{array}{c c} +4.8 \\ -7.2 \\ +6.0 \end{array} $	69, 8 67, 9 69, 9	<b>6</b> +1. 3 8	$+12.0 \\ +2.1 \\ +13.2$	19. 45 21. 06 19. 16	5 +1. 4 6	+8.9 +10.5 +6.8	37. 3 36. 4 37. 4	-1.0 +.1 -1.1	$\begin{array}{c c} +2.1 \\ +3.0 \\ +1.4 \end{array}$	52. 3 58. 0 51. 7	+. 7 +1. 1 +. 6	$^{+5.5}_{+6.6}$ $^{+6.6}_{+6.0}$

See footnotes at end of table.

Table 8.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, July 1941—Continued

MANUFACTURING—Continued

	E	mployme	ent		Pay rolls	;		erage wee earnings			e hours per week			erage hou earnings	
Industry	Index		entage from-	Index	Perce change	ntage from—	July	Perce change		July		entage from-	July	Perce change	entage e from—
	July 1941	June 1941	July 1940	July 1941	June 1941	July 1940	1941	June 1941	July 1940	1941	June 1941	July 1940	1941	June 1941	July 1940
Nondurable goods—Continued													Cents		
Paper and printing. Boxes, paper Paper and pulp Printing and publishing:	123. 0 138. 8 126. 0	+1. 2 +2. 7 +1. 1	+7. 2 +19. 7 +7. 6	128. 7 173. 7 156. 9	+0.1 +1.9 5	+15.7 $+36.0$ $+24.2$	\$31.70 25.12 30.49	-1, 1 -, 8 -1, 6	+7.9 +13.7 +15.5	39. 6 41. 2 42. 0	-1. 3 -2. 3 -3. 0	+3.0 +5.4 +3.2	82. 5 61. 4 72. 7	-(4) +1.3 +1.3	+4.4 +8.1 +11.8
Book and job	105. 4 114. 8	+3.6 -2.2	+6.4 +1.2	98. 4 109. 8	+3.8 -3.3	+13.5 +3.5	32. 24 38. 93	+. 2 -1. 1	$+6.7 \\ +2.3$	39. 9 35. 6	+.6 $-1.0$	+3.7 3	82. 0 106. 8	8 +.1	+2.4 +2.3
Chemical, petroleum, and coal products.  Petroleum refining.  Other than petroleum refining.  Chemicals.  Cottonseed—oil, cake, and meal.  Druggists' preparations.  Explosives'.  Fertilizers.  Paints and varnishes.  Rayon and allied products.  Soap.	138. 3 127. 4 140. 9 175. 8 63. 4 128. 7 (9) 91. 0 145. 5 324. 4 101. 4	+1.8 +1.7 +1.9 +2.2 -4.3 +1.0 (*) -1.6 +.5 8 +8.7	+16.7 +3.6 +20.0 +25.2 +39.8 +13.5 (9) +14.1 +16.8 +5.7 +24.8	175. 2 157. 2 180. 7 239. 7 60. 0 162. 8 ( <sup>9</sup> ) 90. 5 173. 2 368. 6 140. 6	+2.4 +3.0 +3.0 -3.8 +8.6 (9) -3.4 -2.6 +1.7 +8.9	+31. 7 +15. 1 +37. 0 +43. 4 +38. 3 +30. 7 (9) +29. 9 +30. 8 +17. 1 +40. 7	33. 82 38. 26 32. 27 36. 38 15. 23 28. 33 38. 48 18. 20 32. 69 29. 06 32. 65	+.6 -1.4 +1.0 +.9 +.5 +7.5 1 -3.0 +2.5 +.2	+12.9 +11.1 +14.1 +14.5 -1.2 +15.1 +11.9 +13.2 +12.0 +10.8 +13.5	40. 0 37. 4 40. 8 41. 0 40. 0 41. 5 42. 8 36. 6 41. 8 39. 8 41. 2	-1.0 -1.9 8 -1.7 -1.2 +1.4 6 -1.8 -3.8 +1.5 +.2	+3.9 +5.9 +2.9 +2.3 -4.9 +3.2 +4.5 +3.7 +4.1 +3.0 +1.9	83. 8 103. 0 77. 7 88. 6 36. 4 64. 5 89. 9 49. 7 78. 3 72. 9 79. 3	+1.6 +7 +1.9 +2.3 +1.8 +3.0 +1.1 +1.7 +.1 +1.1 †(4)	+8.1 +5.6 +10.6 +11.7 +4.4 +8.1 +7.1 +9.1 +7.7 +7.6 +11.3
Rubber products Rubber boots and shoes Rubber tires and inner tubes. Rubber goods, other	111. 4 79. 3 87. 4 189. 2	+. 6 +1. 4 +1. 3 5	+33.4 +46.9 +26.1 +37.3	135. 7 94. 2 118. 4 214. 2	-3.9 -4.2 -3.3 -4.7	+59.3 +84.2 +53.0 +62.8	33. 13 27. 31 39. 54 27. 52	-4.5 -5.5 -4.5 -4.3	+19.4 +25.5 +21.3 +18.6	39. 2 40. 1 37. 8 40. 4	-5. 2 -7. I -5. 3 -4. 5	+10.1 +11.9 +11.8 +7.3	84. 5 68. 2 104. 8 68. 5	+.9 +1.5 +1.0 +.2	+8.1 +11.9 +7.8 +10.0

#### NONMANUFACTURING

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

					1	1									
Coal mining:															
Anthracite 10 tl	] 4	0.3   +0.1	-2.4	34.8	-31.9	-4.7	23. 25	-32.0	-2.3	23. 2	-31.7	-12.1	99.8	0.4	+7.7
Bituminous 5 10	] 9	). 3   +-2. 4	+6.3	104.4	-2.6	+38.9	30.91	-5.0	+30.6	28.7	-9.9	+8.3	102.8	+.2	+14.1
Metalliferous mining 12	7	2	+10.9	78.1	-8.5	+22.7	31. 24	-8.3	+10.6	39. 4	-7.6	+.6	79.6	- 7	+10.0
Quarrying and nonmetallic mining.	5	2.8 + 1.8	+9.7	55.4	4	+27.5	26. 62	2.1	+16.3	41.7	-2.5	+4.3		+.6	+11.2
Crude-petroleum production.	. 6	.8 + .1	-3.1	61.8	+3.2	+4.6	36.81	+3.0	+7.9	38.4	+3.5	+.1	93.3	1	+7.1

Public utilities: Telephone and telegraph 13 14	88. 6	+2.7	+12.4	116. 5	+3, 2	+15.1	32. 16	+.5	+2.4	40.7	+1.3	+3.0	79. 5	8	7
Electric light and power 13 14	 94. 9	+1.5	+2.8	113.7	+2.0	+7.1	36. 64	+.6	+4.5	39.7	+.8	+(4)	92.9	<b>-</b> (4)	+4.3
Street railways and busses 13 14 15.	 <b>6</b> 9, <b>4</b>	+.5	+1.4	76.0	3	+8.6	35.64	8	+7.0	45.8	-4.0	+1.2	76.5	+2.7	+5.9
Trade:					- 1					1	i	1	- 1		
Wholesale 13 16	 93. 9	+.1	+5.3	88.1	<b></b> . 3	+12.6	32.04	3	+7.0	41.0	-1.1	+.5	79.0	+.8	+6.9
Retail 18 14.	 96.7	-1.1	+8.5	94.1	-1.2	+13.9	22, 49	0	+5.0	42.7	3	8	57.5	+.5	+5.4
Food 14	 108.8	+.3	+5.0	105.4	+1.3	+9.8	24.85	+1.0	+4.5	43.1	+1.2	-1.4	55.3	+.5	+5.3
General merchandising 13 14	 100.9	-4.0	+11.7	97. 5	-2.6	+16.1	19.06	+1.5	+3.9	38.8	+.2	+1.0	48.7	+1.3	+1.4
Apparel 14.	 81. 2	-10.1	+8.1	78.7	-8.1	+11.2	22.44	+2.2	+2.8	38.3	+.8	7	58.7	+2.1	+5.0
Furniture 14	 78.5	-1.0	+4.1	75. 9	-2.4	+14.0	29.96	-1.4	+9.5	43.9	-1.3	2	72.3	-2.3	+4.7
Automotive 18	 94.8	+1.0	+9.2	99. 2	-3.4	+20.5	30.85	-4.4	+10.3	47.1	-2.0	-1.5	67. 2	-2.1	+12.4
Lumber 14	 81.3	$\pm 1.6$	+7.5	82.4	+1.7	+14.6	28, 28	+.1	+6.6	42.9	8	8	67.3	+1.2	+8.0
Hotels (year-round) 10 13 17	 94.0	-1.1	+4.1	87.2	-, 2	+8.3	16, 01	+1.0	+4.1	46. 4	+1.4	4	34.2	0	+4.9
Laundries 10	 115.5	+3.2	+12.7	106.4	+3.8	+18.2	19, 20	+.6	+4.9	43.6	1	+1.5	44.1	+.4	+3.3
Dyeing and cleaning 10_	 121.1	-1.3	+12.0	96.2	-2.2	+20.3	22.05	-1.0	+7.4	43.8	-2.0	+3.4	51.1	+1.1	+2.9
Brokerage 13 18	 (9)	4	15.1	(9)	2	-10.4	39, 41	+.2	+5.6	(9)	(9)	(8)	(9)	(9)	(9)
Insurance 13	 (9)	+1.0	+1.5	(e)	+.4	+4.2	37, 44	6	+2.7	(9)	(a)	(9)	(9)	(9)	( <sup>9</sup> )
Building construction	 (9)	+3.4	+18.8	(9)	+4.3	+31.3	35, 38	+.9	+10.5	35.4	¥.6	+4.5	100.0	¥.3	+5.8
	 													<del></del>	

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 com-

position 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.

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

4 Less than 1/10 of 1 percent.

5 Revisions have been made in the following industries as indicated:

Machine tools—April average weekly hours and average nourly earnings to 51.0 hours, 80.6 cents; April employment and pay-roll indexes to 316.7 and 471.5.

Lighting equipment—February, March, and April average weekly and hourly earnings to \$29, \$29.05, \$28.81 and 71.7, 71.7, 72.3 cents; February, March, and April employment and pay-roll indexes to 111.4, 112.0, 113.4 and 104.9, 105.5, 105.7.

Sawmills—February, March, and April average weekly earnings to \$19.99; \$20.32, and \$21.02, February average weekly hours and average hourly earnings to 38.5

hours, 51.7 cents.

Hats, fur-fett—January, February, March, and April average weekly earnings and hours to \$27.12. \$29.26, \$29.10, \$22.50, and 36.2, 38.4, 38.5, 29.1 hours; November and December 1940, January, February, March, and April 1941 average hourly earnings to '3.0, 75.3, 75.5, 77.2, 76.7, 75.6 cents: January, February, March, and April employment and pay-roll indexes to 83.0, 84.3, 85.2, and 81.7, 89.4, 89.9, 66.0. Shirts and collars—January, February, March, and April average weekly carnings to \$13.86, \$14.86, \$15.04, \$15.42; February average weekly hours to 35.8; January and Ebbuarts are approximated for the state of the state

February average hourly carnings to 42.0 and 41.5 cents; January, February, March, and April employment and pay-roll indexes to 118.8, 126.0, 128.3, 130.8 and 104.3, 117.8, 121.9, 127.1.

Bituminous-coat mining-April 1941 average weekly carnings to \$17.63.

Adjusted on basis of a complete employment survey of the aircraft industry made by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1939 to August 1940, inclusive. Comparable figures for this

period given in table 9 of the September 1940 issue of EMPLOYMENT AND PAY ROLLS.
7 The indexes for "Automobiles" have been adjusted to 1933 census figures, but not to later census figures because of problems involving integrated industries.

<sup>5</sup> See table 8 in March 1941 EMPLOYMENT AND PAY ROLLS pamphlet for revised figures from January 1935 to February 1941.

9 Not available.

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

11 See table 7 of October 1940 EMPLOYMENT AND PAY ROLLS for revised employment and pay-roli indexes, average hours worked per week, average hourly earnings, and average weekly earnings in anthracite mining, February 1940 to September 1940, inclusive.

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

13'A verage weekly carnings, hourly earnings, and hours not comparable with figures

Not a verage weekly carnings, nourly earnings, and nours 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.

14 Retail-trade indexes adjusted to 1935 census and public-tuility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in Monthly Labor Review prior to Aprill 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

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

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

Cash payments only; additional value of board, room, and tips not included.
 See footnote 18 in table 9 for revised average weekly earnings in the brokerage in-

dustry from January 1939 through January 1941.

\*See corresponding footnote on page 33.

[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	Emp	loyment	index	Pa	y-roll inc	lex	Average	weekly	earnings <sup>1</sup>	Averag I	e hours v er week	vorked	Average	hourly e	arnings 1
	July	June	May	July	June	May	July	June	May	July	June	Мау	July	June	May
	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941
All manufacturing 2	130. 6	127. 8	124. 9	152. 8	152. 1	144. 1	\$31. 20	\$31.85	\$30. 78	40. 3	41.3	40. 8	Cents 74.4	Cents 73. 8	Cents 72. 6
Durable goods <sup>2</sup> Nondurable goods <sup>2</sup>	137. 9	135. 1	131. 3	172. 6	173. 8	163, 1	35. 80	36, 90	35. 57	41. 5	43. 1	42. 5	82. 6	82. 2	80. 6
	123. 7	121. 0	118. 8	130. 6	127. 8	122, 9	25. 15	25, 09	24. 48	39. 0	39. 4	38. 9	65. 7	65. 0	64. 1
Durable goods							<del></del>								
Iron and steel and their products, not including machinery.  Blast furnaces, steel works, and rolling mills. Bolts, nuts, washers and rivets. Cast-iron pipe. Cutlery (not including silver and plated cutlery) and edge tools. Forgings, iron and steel. Hardware.	138. 3	136. 1	132. 9	166. 9	168. 6	160. 9	35. 46	36. 38	35. 71	39. 9	42. 0	41. 5	86. 2	86. 3	85. 8
	147. 2	144. 0	140. 6	181. 5	179. 9	172. 7	38. 99	39. 46	38. 98	38. 7	41. 0	40. 4	96. 3	96. 4	96. 7
	167. 4	165. 6	161. 1	224. 3	248. 4	233. 7	32. 14	36. 02	34. 92	41. 6	45. 8	45. I	77. 2	78. 7	77. 5
	97. 6	96. 9	94. 4	112. 2	114. 6	110. 3	27. 45	28. 25	27. 93	40. 4	41. 9	41. 7	67. 7	67. 0	66. 6
	123. 6	120. 4	118. 5	134. 9	139. 2	134. 3	28. 65	30. 32	29. 73	42. 0	43. 9	43. 4	69. 1	69. 9	69. 4
	107. 2	104. 3	102. 1	157. 1	163. 7	152. 3	38. 84	41. 63	39. 62	43. 9	47. 0	46. 0	88. 6	88. 8	86. 4
	114. 2	118. 3	116. 7	136. 8	150. 2	141. 5	29. 51	31. 26	29. 89	40. 5	42. 5	42. 3	73. 0	73. 7	70. 7
Plumbers' supplies 3 Stamped and enameled ware Steam and hot-water heating apparatus and	101. 7	102. 4	102. 1	101. 6	106. 3	104. 9	28.89	29. 90	29. 64	38. 9	40. 4	40. 6	74. 2	74. 0	73. 0
	222. 0	220. 2	218. 0	272. 1	279. 0	265. 0	28.61	29. 67	28. 51	39. 9	41. 7	40. 5	71. 6	71. 2	70. 5
steam fittings Stoves Structural and ornamental metalwork Tin cans and other tinware Tools (not including edge tools, machine tools,	119. 0	114. 1	112. 1	137. 5	137. 8	128. 6	34. 65	36. 32	34. 63	43. 4	44.8	44. 0	80. 1	81. 2	78. 8
	116. 6	115. 9	113. 4	122. 0	124. 7	119. 3	29. 61	30. 33	29. 66	40. 3	41.5	41. 2	73. 0	73. 1	72. 1
	107. 3	105. 5	102. 3	112. 1	120. 1	113. 8	33. 74	36. 98	36. 13	41. 2	44.4	44. 0	82. 2	83. 6	82. 5
	138. 8	132. 0	120. 5	171. 3	163. 2	146. 4	27. 59	27. 70	27. 27	42. 0	42.1	42. 1	66. 4	66. 0	65. 2
files, and saws)	139. 8	138. 2	135. 5	172. 6	181. 0	171. 7	31. 29	33. 07	32. 01	43. 3	46. 8	46. 1	72. 9	71. 3	70. 0
	213. 2	216. 1	213. 3	271. 6	284. 5	276. 5	30. 85	31. 88	31. 32	42. 0	42. 9	42. 9	73. 5	74. 3	73. 1
ment  Agricultural implements (including tractors)  Cash registers, adding machines, and calculat-	172.6	168. 0	162. 5	233, 3	230. 2	217. 2	37. 51	38. 00	37. 17	<b>44. 6</b>	45. 6	45.4	<b>83. 6</b>	83. 2	81. 8
	171.4	171. 8	170. 7	228, 4	233. 3	229. 0	36. 62	37. 32	36. 88	41. 2	42. 1	41.8	89. 0	88. 6	88. 6
ing machines Electrical machinery, apparatus, and supplies Engines, turbines, water wheels, and windmills Foundry and machine-shop products	167. 5	162. 6	151.3	214.0	216. 2	196. 0	39.87	41. 34	40. 28	43. 9	45. 3	45. 9	91. 6	92. 4	88. 8
	163. 6	158. 5	154.0	231.9	223. 9	215. 3	37.34	37. 21	36. 68	43. 5	43. 9	44. 4	85. 5	84. 5	82. 9
	297. 8	285. 5	271.5	497.7	476. 0	444. 1	44.34	44. 23	43. 39	46. 5	46. 7	46. 5	95. 2	94. 9	93. 6
	143. 3	139. 7	134.9	177.8	179. 1	166. 2	36.61	37. 76	36. 51	44. 6	46. 0	45. 4	81. 7	81. 9	80. 3

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Machine tools 4 Radios and phonographs Textile machinery and parts Typewriters and parts	346. 0 188. 7 106. 3 153. 1	338. 5 180. 7 103. 8 148. 3	327. 4 173. 7 101. 3 143. 5	534. 7 218. 7 132. 7 217. 2	529. 3 200. 4 130. 5 207. 5	507. 2 191. 5 124. 3 189. 6	42. 80 28. 30 34. 31 34. 77	43. 22 27. 09 34. 84 34. 31	42. 79 27. 02 33. 72 32. 40	50. 9 41. 2 46. 5 46. 4	52. 0 40. 9 46. 8 45. 8	52. 1 41. 0 46. 4 45. 3	84. 1 69. 3 74. 2 74. 9	83. 1 66. 4 74. 5 74. 9	82. 2 66. 1 72. 8 71. 6
Transportation equipment 3  Aircraft 5  Automobiles 6  Cars, electric- and steam-railroad  Locomotives .  Shipbuilding .	179. 2 7, 280. 0 127. 3 89. 5 75. 7 368. 9	177. 8 6, 733. 8 134. 8 85. 6 68. 1 334. 5	171. 7 6, 305. 1 134. 1 79. 5 65. 1 308. 1	229. 9 9, 077. 7 160. 1 90. 9 102. 5 571. 0	239. 6 8, 212. 1 188. 4 91. 6 90. 8 497. 9	216.6 7,745.1 170.6 84.2 79.9 429.2	40. 67 36. 48 41. 13 32. 41 41. 49 45. 59	42. 69 35. 63 45. 70 34. 16 40. 87 43. 72	39. 90 35. 84 41. 56 33. 71 37. 58 40. 87	41, 2 44, 7 38, 8 39, 0 46, 3 44, 3	43. 8 45. 0 43. 0 40. 9 46. 5 45. 2	42. 4 45. 4 41. 0 41. 0 44. 4 43. 8	98. 8 82. 0 106. 4 83. 2 89. 6 101. 6	97, 6 79, 7 106, 3 83, 6 87, 9 95, 1	94. 5 79. 4 101. 4 82. 3 84. 6 92. 8
Nonferrous metal and their products	233.7	141. 9 228. 4 189. 5	139. 9 233. 5 184. 3	174. 1 319. 8 263. 9	174. 6 321. 1 262. 4	166.7 322.0 246.6	33. 82 34. 17 38. 55	34. 30 35. 09 38. 42	33. 12 34. 36 37. 10	42. 0 40. 8 44. 2	43. 1 42. 2 44. 7	42. 8 42. 5 44. 5	80. 3 83. 7 87. 8	79. 4 83. 1 86. 2	77. <b>0</b> 80. 8 83. <b>4</b>
vices	111.7 116.4 83.4	117. 0 106. 8 114. 1 83. 9 101. 8	115.9 104.4 112.2 82.9 101.7	138. 4 105. 2 117. 8 87. 4 116. 7	147. 9 101. 4 117. 4 93. 8 116. 6	143. 4 97. 7 110. 3 90. 8 111. 7	25. 83 25. 24 31. 52 30. 43 32. 00	27. 93 25. 51 31. 87 32. 32 32. 28	27. 36 25. 08 30. 39 31. 64 30. 94	38. 5 41. 5 40. 5 42. I 39. 4	42. 4 41. 3 41. 3 44. 0 40. 5	42. 2 40. 9 41. 3 45. 1 39. 2	67. 1 60. 7 77. 3 73. 1 81. 3	65. 9 61. 2 77. 2 74. 4 79. 8	64. 8 60. 7 73. 7 70. 8 78. 9
Lumber and allied products Furniture	79. 7 105. 6	76. 9 103. 8	74. 7 100. 1	85. <b>6</b> 110. 1	84. 0 110. 0	78. 0 102. 7	23. 23 24. 68	23. 58 25. 12	22. 57 24. 35	39. 9 41. 4	40. 9 42. 4	40. 1 42. 0	57. 7 60. 1	57. 0 59. 7	55. <b>6</b> 58. 4
Lumber: Millwork Sawmills 4	75. 7 70. 2	72. 5 67. 2	70. 0 65. 7	68. 3 73. 6	67. 2 71. 3	62. 4 66. 0	24. 74 21. 61	25. 24 21. 89	24. 29 20. 74	41. 7 38. 6	42. 5 39. 7	42. 2 38. 6	59. 3 55. 9	59. 4 55. 2	57. 5 53. 7
Stone, clay, and glass products	77. 6 82. 4 127. 9	97. 1 74. 7 79. 2 125. 5 45. 5 114. 4	95. 6 72. 7 78. 0 124. 0 46. 6 112. 5	99. 1 73. 8 90. 6 147. 1 34. 9 114. 9	100. 2 71. 8 89. 5 153. 5 34. 6 118. 2	97. 8 69. 1 85. 2 150. 3 38. 7 113. 6	26. 94 24. 70 31. 00 28. 19 26. 90 24. 90	28. 03 24. 97 31. 93 29. 91 26. 55 26. 06	27. 64 24. 58 30. 71 29. 53 29. 06 25. 58	37. 4 38. 4 40. 2 36. 1 36. 6 36. 5	38. 6 38. 8 41. 6 38. 5 36. 6 38. 1	38. 5 38. 4 40. 6 37. 8 39. 2 38. 1	72. 0 64. 7 77. 1 78. 2 73. 3 68. 3	71. 7 64. 2 76. 7 78. 0 72. 4 68. 1	71. 0 63. 9 75, 7 76. 9 73. 8 67. 0
Nondurable goods	1														
Nondurable goods  Textiles and their products. Fabrics. Carpets and rugs. Cotton goods. Cotton small wares. Dyeing and finishing textiles. Hats, fur-felt 4. Hosiery. Knitted outerwear. Knitted outerwear. Knitted eloth. Silk and rayon goods. Woolen and worsted goods.	85, 7 159, 7 69, 3	112. 6 106. 2 89. 9 108. 5 103. 7 139. 3 82. 7 142. 7 79. 4 79. 3 160. 1 69. 3 107. 9	112. 5 105. 1 89. 2 106. 3 102. 6 141. 2 80. 7 143. 0 76. 8 82. 3 154. 7 68. 6 106. 8	113. 6 113. 3 89. 5 122. 9 120. 6 134. 3 91. 4 159. 9 75. 0 91. 0 152. 4 64. 0 116. 8	111. 4 111. 6 90. 2 120. 0 116. 2 133. 2 85. 8 158. 1 74. 9 82. 8 152. 9 64. 1 116. 9	110. 4 109. 3 89. 6 116. 9 114. 1 133. 9 76. 8 158. 1 72. 1 84. 6 149. 2 62. 5	20. 57 20. 46 27. 77 18. 26 22. 29 23. 43 29. 97 19. 93 19. 29 17. 89 21. 74 19. 00 24. 75	20, 33 20, 28 27, 71 17, 87 21, 75 23, 21 28, 60 19, 70 19, 55 17, 61 21, 74 18, 95 25, 10	20. 13 20. 09 27. 78 17. 83 21. 70 23. 06 26. 25 19. 64 19. 36 17. 21 21. 79 18. 67 24. 58	37. 4 38. 5 39. 2 38. 8 40. 9 38. 2 38. 0 36. 3 37. 9 38. 8 39. 6 37. 3 39. 5	38. 1 39. 1 39. 3 39. 6 41. 5 38. 3 36. 1 36. 2 38. 5 40. 2 38. 6 40. 1	37. 9 38. 8 39. 3 39. 5 41. 5 38. 6 34. 1 35. 8 38. 7 38. 0 40. 4 38. 4	55. 0 53. 4 70. 9 47. 1 54. 6 60. 8 80. 5 55. 2 50. 3 46. 1 53. 9 50. 3	53. 4 52. 2 70. 6 45. 1 52. 5 59. 9 80. 2 54. 5 49. 9 45. 7 53. 2 48. 8 62. 8	53. 0 52. 0 70. 7 45. 1 52. 5 59. 4 77. 1 54. 8 49. 8 45. 3 48. 1 62. 1

See footnotes at end of table.

Table 9.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, May through July 1941—Continued

MANUFACTURING—Continued

Industry	Emp	loyment	index	Pa	y-roll inc	lex	Average	weekly	earnings		e hours v per week		Average	hourly e	earnings
	July 1941	June 1941	May 1941	July 1941	June 1941	May 1941	July 1941	June 1941	May 1941	July 1941	June 1941	May 1941	July 1941	June 1941	May 1941
Nondurable goods—Continued															
Textiles and their products—Continued.  Wearing apparel. Clothing, men's. Clothing, women's. Clothing, women's. Corsets and allied garments. Men's furnishings. Millinery. Shirts and collars 4.  Leather and its manufactures. Boots and shoes. Leather. Food and kindred products. Baking. Beverages. Butter. Canning and preserving. Confectionery. Flour. Ice cream. Slaughtering and meat packing. Sugar, beet. Sugar refining, cane. Tobacco manufactures. Chewing and smoking tobacco and snuff. Cigars and cigarettes. Paper and printing. Boxes, paper. Paper and publishing:	95. 5 144. 5 150. 2 323. 6 112. 1 83. 2 80. 1 95. 9 118. 5 51. 5 93. 1 65. 4 67. 0	121. 9 120. 0 158. 6 118. 0 121. 8 62. 8 132. 0 98. 1 94. 9 93. 9 135. 0 152. 2 309. 6 113. 8 135. 9 80. 4 77. 9 92. 1 120. 3 48. 1 98. 5 52. 1 67. 2 121. 6 135. 6	124. 2 118. 8 165. 4 118. 1 122. 0 75. 7 131. 9 95. 5 93. 0 127. 4 149. 0 293. 0 109. 6 99. 9 81. 0 76. 5 86. 9 116. 8 47. 4 102. 5 84. 9 52. 8 66. 4 120. 8 120. 8	107. 3 109. 4 127. 8 131. 6 131. 6 131. 0 103. 3 98. 8 109. 4 152. 4 152. 4 153. 1 421. 6 103. 3 84. 5 84. 5 84. 9 139. 3 139. 6 87. 9 69. 9 128. 7 175. 9	104. 1 107. 3 118. 9 138. 7 131. 1 42. 5 135. 7 97. 2 91. 9 106. 6 144. 3 154. 4 391. 3 104. 6 133. 5 85. 5 79. 1 82. 6 137. 8 157. 2 97.	105. 9 101. 2 131. 7 136. 6 129. 9 51. 0 130. 7 97. 6 134. 7 148. 4 97. 4 362. 4 97. 1 133. 7 75. 1 133. 1 153. 8 90. 0 124. 9 159. 2 149. 4	\$20. 88 22. 82 21. 43 19. 01 16. 07 21. 05 16. 11 23. 64 22. 53 28. 64 26. 61 28. 26 38. 15 24. 06 38. 15 24. 06 38. 19. 61 27. 61 29. 99 30. 62 28. 47 26. 47 19. 46 31. 70 25. 12 25. 13 30. 49	\$20. 48 22. 77 20. 14 19. 49 15. 89 20. 66 16. 29 22. 97 21. 66 28. 52 27. 07 28. 21 35. 99 23. 98 18. 75 20. 50 27. 22 30. 65 29. 79 30. 71 27. 91 19. 48 20. 76 19. 25 30. 97	\$20. 22 21. 62 21. 37 19. 12 15. 85 20. 59 15. 74 22. 09 20. 89 27. 29 26. 68 27. 56 36. 19 23. 15 17. 44 19. 91 29. 25 29. 35 24. 89 20. 45 18. 82 20. 45 18. 82 20. 45 20. 67	35. 4 35. 6 37. 9 27. 6 36. 9 27. 6 38. 7 38. 7 41. 1 42. 2 46. 8 38. 9 35. 6 41. 5 37. 3 39. 3 37. 4 41. 5 41. 5 41. 5 41. 6 41. 6	36. 0 36. 3 35. 7 38. 8 28. 6 37. 3 38. 7 38. 2 41. 0 46. 7 40. 4 46. 7 40. 4 40. 4 40. 7 40. 4 40. 4	36. 2 35. 7 38. 7 38. 7 36. 5 37. 0 37. 5 36. 9 40. 7 45. 4 40. 7 45. 4 40. 7 33. 6 40. 7 40. 8 30. 1 40. 8 40. 7 40. 8 40. 9 40. 8 40. 9 40. 9	Cents 58, 2 63, 8 50, 1 71, 7 43, 8 60, 9 58, 4 71, 1 67, 4 91, 3 50, 4 51, 6 64, 2 73, 7 78, 3 67, 2 64, 2 73, 7 78, 3 67, 4 52, 5 61, 2 61, 2	Cents 55. 9 62. 9 54. 3 49. 6 43. 3 68. 4 43. 7 57. 3 57. 3 67. 5 90. 2 50. 6 63. 1 73. 8 79. 0 66. 5 75. 4 73. 8 82. 6 60. 5 71. 6	Cents 55. 0 60. 1 54. 6 48. 8 42. 7 66. 6 42. 9 59. 0 56. 7 68. 1 67. 0 65. 9 89. 8 49. 5 51. 7 53. 1 62. 6 63. 9 73. 1 77. 2 65. 2 65. 2 65. 4 50. 3 81. 1 59. 2 67. 6
Book and job Newspapers and periodicals Chemical, petroleum, and coal products Petroleum refining Other than petroleum refining Chemicals Cottonseed—oil, cake, and meal Druggists' preparations	127. 4 140. 9 175. 8	101. 7 117. 4 135. 8 125. 2 138. 3 172. 1 66. 3 127. 4	103, 2 117, 6 <b>134, 3</b> 122, 0 137, 3 166, 8 72, 1 125, 2	98. 4 109. 8 175. 2 157. 2 180. 7 239. 7 60. 0 162. 8	94. 8 113. 6 171. 1 156. 7 175. 5 232. 6 62. 4 149. 9	95. 7 114. 0 163. 6 146. 3 168. 9 221. 8 66. 3 142. 8	32. 24 38. 93 38. 82 38. 26 32. 27 36. 38 15. 23 28. 33	32. 30 39. 39 33. 61 38. 74 31. 73 36. 00 15. 17 26. 43	32. 01 39. 51 32. 41 37. 14 30. 78 35. 48 14. 73 25. 49	39. 9 35. 6 40. 0 37. 4 40. 8 41. 0 40. 0 41. 5	39. 7 35. 8 40. 5 38. 2 41. 2 41. 7 40. 4 41. 0	39. 7 36. 2 39. 8 37. 0 40. 7 41. 1 40. 3 39. 4	82. 0 106. 8 83. 8 103. 0 77. 7 88. 6 36. 4 64. 5	82. 6 106. 9 82. 4 102. 0 76. 1 86. 4 35. 9 62. 7	81. 9 106. 6 80. 6 100. 8 74. 4 86. 3 35. 0 61. 5

Explosives*_ Fertilizers	(8) 91, 0 145, 5 324, 4 101, 4	(8) 92, 5 144, 8 327, 0 93, 3	(8) 127. 1 141. 4 323. 5 92. 2	90. 5 173. 2 368. 6 140. 6	(8) 93. 7 177. 8 362. 4 129. 0	(8) 127. 4 170. 4 356. 2 125. 7	38. 48 18. 20 32. 69 29. 06 32. 65	38. 31 18. 15 33. 81 28. 35 32, 58	37. 02   17. 99   33. 05   28. 16   32. 13	42. 8 36. 6 41. 8 39. 8 41. 2	43. 0 37. 4 43. 4 39. 3 41. 1	42. 0 1 38. 5 43. 0 39. 5 40. 7	89. 9 49. 7 78. 3 72. 9 79. 3	89. 1 48. 5 78. 0 72. 2 79. 3	88. 2 46. 8 77. 0 71. 2 78. 9
Rubber products	111. 4	110. 7	106. 4	135. 7	141, 2	128. 7	33, 13	34. 69	32. 82	39. 2	41. 4	40. 3	84. 5	83. 6	81. 6
	79. 3	78. 2	74. 9	94. 2	98, 4	88. 3	27, 31	28. 91	27. 11	40. 0	43. 0	41. 2	68. 2	67. 2	65. 8
	87. 4	86. 3	83. 3	118. 4	122, 4	111. 1	39, 54	41. 41	38. 88	37. 8	39. 9	38. 6	104. 8	103. 7	100. 8
	189. 2	190. 1	181. 7	214. 2	224, 9	207. 2	27, 52	28. 61	27. 56	40. 4	42. 3	41. 7	68. 5	68. 0	66. 6

#### NONMANUFACTURING

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

Coal mining:		. (													
Anthracite 9 10	49.3	49. 2	48.6	34.8	51. 2	33. 4	23, 25	34, 20	22, 59	23. 2	34.0	22. 9	99.8	100. 2	94, 5
Bituminous 4 9	90.3	88.1	87.9	104. 4	107. 2	103. 4	30. 91	32, 37	31, 31	28.7	31. 7	30, 9	102.8	102. 3	100. 5
Metalliferous mining 11	78. 7	78. 9	77. 1	78.1	85. 3	81.5	31. 24	34, 07	33, 28	39. 4	42.7	41.8	79.6	80. 2	79.9
Quarrying and nonmetallic mining	52.8	51.9	51.0	55.4	55. 7	53. 2	26. 62	27. 19	26, 30	41.7	42.8	42.5	63. 9	63. 5	61.7
Crude-petroleum production	61.8	61.7	60.4	61.8	59. 9	58.8	36.81	35, 72	35, 59	38.4	37.1	38.0	93. 3	93. 4	91. 1
Public utilities:													1		
Telephone and telegraph 12 13	88.6	86. 3	84.6	116. 5	113.0	110. 5	32. 16	32, 02	31. 91	40.7	40. 2	40.3	79. 5	80. 2	79.7
Electric light and power 12 13	94. 9	93. 5	92. 2	113. 7	111. 4	109.6	36.64	36, 44	36. 32	39. 7	39. 3	40. 2	92, 9	92. 9	90.7
Street railways and husses 12 13 14	69. 4	69. 1	68.9	76.0	76. 2	72.7	35. 64	35. 91	34. 36	45.8	47. 7	46. 4	76. 5	74.5	73.0
Trade:															
Wholesale 12 13	93. 9	93.8	92. 2	88. 1	88. 2	84. 6	32.04	32, 14	31, 90	41.0	41. 4	41, 2	79.0	78.4	78. 1
Retail 12 13	96.7	97.8	96. 1	94, 1	95. 2	91. 5	22. 49	22, 31	21. 94	42.7	42.8	42. 4	57. 5	57. 2	56. 4
Food 13	108.8	108.5	107. 5	105. 4	104.0	100.7	24, 85	24.61	23. 95	43.1	42.6	42, 4	55.3	55. 1	54, 1
General merchandising 12 13	100. 9	105. 1	102. 5	97. 5	100. 1	96.0	19.06	18. 75	18. 55	38.8	38.7	38. 4	48.7	48.0	47.6
Apparel 18	81. 2	90.3	90. 5	78. 7	85. 6	84. 5	22. 44	21. 95	21, 47	38. 3	38.0	37. 7	58.7	57. 6	56.9
Furniture 13	78. 5	79.3	78.7	75.9	77.8	75. 7	29.96	30. 59	29. 99	43.9	44.4	44, 3	72.3	74.0	72.6
Automotive 18	94.8	93. 9	92.3	99. 2	102.7	99. 9	30. 85	32, 31	32, 44	47.1	48.0	47. 2	67. 2	68.7	69.3
Lumber 13	81.3	80.0	77.0	82.4	81.0	76.5	28. 28	<b>28</b> . <b>26</b>	27.85	42. 9	43. 2	43.0	67.3	66. 4	65. 3

See footnotes at end of table.

Table 9.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, May through July 1941—Continued NONMANUFACTURING-Continued

To June 10		Employment index		Pay-roll index		Average weekly earnings		Average hours worked per week		Average hourly earnings		earnings			
Industry	July 1941	June 1941	May 1941	July 1941	June 1941	May 1941	July 1941	June 1941	May 1941	July 1941	June 1941	May 1941	July 1941	June 1941	May 1941
Hotels (year-round) <sup>9</sup> <sup>12</sup> <sup>18</sup> Laundries <sup>6</sup> Dyeing and cleaning <sup>9</sup> Brokerage <sup>13</sup> <sup>17</sup> <sup>18</sup> Insurance <sup>12</sup> <sup>17</sup> Building construction <sup>17</sup>	94. 0 115. 5 121. 1 -0. 4 +1. 0 +3. 4	95. 0 112. 0 122. 7 -0. 9 +. 3 +3. 3	96. 3 108. 3 120. 6 -1. 6 +. 2 +5. 4	87. 2 106. 4 96. 2 -0. 2 +. 4 +4. 3	87. 4 102. 5 98. 4 +0. 1 +. 8 +4. 2	87. 9 98. 7 96. 1 -1. 3 +. 7 +8. 0	\$16. 01 19. 20 22. 05 39. 41 37. 44 35. 38	\$15. 86 19. 09 22. 27 39. 32 37. 65 35. 15	\$15. 77 19. 02 22. 04 38. 58 37. 55 34. 87	46. 4 43. 6 43. 8 (8) (8) (8) 35. 4	45. 8 43. 7 44. 7 (8) (8) (8)	45. 4 43. 7 44. 7 (8) (8) 35. 1	Cents 34. 2 44. 1 51. 1 (8) (8) (8) 100. 0	Cents 34, 2 43, 9 50, 6 (8) (9) 99, 7	Cents 34, 1 43, 7 50, 2 (8) (8) 99, 3

<sup>&</sup>lt;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 have been made in the following industries as indicated:

rom January 1940 to March 1941.

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

\*\*Machine tools\*\*—April average weekly hours and average hourly earnings to 51.0 hours, 80.6 cents; April employment and pay-roll indexes to 316.7 and 471.5.

\*\*Lighting equipment\*\*—February, March and April average weekly and hourly earnings to \$29, \$29.05, \$28.81 and 71.7, 71.7, 72.3 cents; February, March, and April employment and pay-roll indexes to 111.4, 112.0, 113.4 and 104.9, 105.5, 105.7.

\*\*Sauvmills\*\*—February, March, and April average weekly earnings to \$19.89, \$20.32 and \$21.02, February average weekly hours and average hourly earnings to \$29.5 hours. 38.5 hours, 51.7 cents.

Hats, fur-feit—January, February, March, and April average weekly earnings and hours to \$27.12, \$29.26, \$29.10, \$22.50, and 36.2, 38.4, 38.5, 29.1 hours; November and December 1940, January, February, March, and April 1941 average hourly earnings to 73.0, 75.3, 75.5, 77.2, 76.7, 75.6 cents; January, February, March,

which has been revised since publication of July 1940 pamphlet back to January 1936. Comparable series for earlier months avaliable upon request.

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

<sup>16</sup> Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of EMPLOYMENT AND PAY ROLLS.

Cash payments only; additional value of board, room, and tips not included.
 Indexes of employment and pay rolls are not available; percentage changes from pre-

ceding month substituted:

13 Average weekly earnings in brokerage from January 1939 through January 1941 revised as follows:

Year	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av- er- age
			Dol.										
1940	37.62	37.62	36. 50 37. 49										
1941	38. 25									~ · · · · · •			

and April employment and pay-roll indexes to 83.0, 84.3, 85.2, 80.9 and 81.7, 89.4. 89.9. 66.0.

Shirts and collars—January, February, March, and April average weekly earnings to \$13.86, \$14.86, \$15.04, \$15.42; February average weekly hours to 35.8; January and February average hourly earnings to 42.0 and 41.5 cents; January, February, March, and April employment and pay-roll indexes to 118.8, 126.0, 128.3, 130.8 and 104.3, 117.8, 121.9, 127.1.

128.3, 130.8 and 104.3, 117.8, 121.9, 127.1.

Bituminous-coal mining—April 1941 average weekly earnings to \$17.63.

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

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

7 See table 8 in March 1941 Employment and Pay Rolls pamphlet for revised figures.

from January 1935 to February 1941.

Not available.

Not available.
 Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.
 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.
 See table 7 of February 1941 pamphlet for revised figures for metalliferous mining from January 1938 to January 1941, inclusive.
 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.

13 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 the MONTHLY LABOR REVIEW prior to April 1940, with but 1 exception, retail furniture, "Average hours and earnings in explosives revised as follows:

Year and month		Average weekly earnings	A verage weekly hours	Average hourly earnings
October 1940 November . December .		\$34. 53 34. 31 34. 47	40. 0 39. 4 39. 5	Cents 86. 4 87. 2 87. 4
Average		33. 50	39.6	84.7
January February _ March April _		33. 36 33. 66 33. 86 35. 80	38. 8 39. 5 39. 7 40. 9	86. 0 85. 1 85. 2 87. 6

Table 10.—Indexes of Employment and Pay Rolls in 55 Additional Manufacturing

Industries
[12-month average 1939=100]

Industry	nonth average 1939=100
Tron and steel group:   Metal doors and shutters   138, 6   133, 9   128, 8   191, 0   170, 3   170, 5   170, 5   180, 5   170, 5   170, 5   180, 5   170, 5   170, 5   180, 5   170,	Employment Pay rolls  July   June   May July   June   May
Metal doors and shutters	1941 1941 1941 1941 1941 1941
Firearms	
Serow-machine products   197. 9   191. 1   184. 7   263. 1   263. 5   160. 8   Wirought pipe not made in rolling mills   137. 0   136. 7   137. 2   170. 5   160. 8   160. 8   Wrought pipe not made in rolling mills   156. 3   156. 5   156. 2   184. 7   200. 2   200. 3   204. 9   2	138.6 133.9 128.8 191.0 170.3 142.7
Wire drawing 3	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Machine-tool accessories   229, 1   222, 1   211, 3   299, 8   278, 4     Pumps   188, 6   183, 4   173, 9   261, 4   268, 0     Refrigerators and refrigerating apparatus   2   152, 6   154, 8   154, 6   181, 1   186, 1     Sewing machines   129, 7   128, 2   125, 3   190, 2   194, 1     Washing machines, wringers, and driers   138, 7   139, 1   137, 5   174, 5   180, 0     Transporation equipment group:	137.0 136.7 137.2 170.5 169.8 168.1
Machine-tool accessories   229, 1   222, 1   211, 3   299, 8   278, 4     Pumps   188, 6   183, 4   173, 9   261, 4   268, 0     Refrigerators and refrigerating apparatus   2   152, 6   154, 8   154, 6   181, 1   186, 1     Sewing machines   129, 7   128, 2   125, 3   190, 2   194, 1     Washing machines, wringers, and driers   138, 7   139, 1   137, 5   174, 5   180, 0     Transporation equipment group:	156.3 156.5 156.2 184.7 200.2 201.4
Machine-tool accessories   229, 1   222, 1   211, 3   299, 8   278, 4     Pumps   188, 6   183, 4   173, 9   261, 4   268, 0     Refrigerators and refrigerating apparatus   2   152, 6   154, 8   154, 6   181, 1   186, 1     Sewing machines   129, 7   128, 2   125, 3   190, 2   194, 1     Washing machines, wringers, and driers   138, 7   139, 1   137, 5   174, 5   180, 0     Transporation equipment group:	139.0 133.2 128.8 175.4 181.9 168.9
Washing machines, wringers, and driers  Transporation equipment group:  Motorcycles, bicycles, and parts 2. 171. 2 166. 9 158. 0 208. 3 204. 9  Nonferrous metals group:  Sheet-metal work 2. 147. 0 142. 1 138. 1 172. 5 167. 6  Lumber group:  Caskets and morticians goods 3. 101. 8 100. 3 101. 5 110. 6 108. 5  Wood preserving. 120. 6 121. 8 122. 4 149. 7 162. 9  Wood, turned and shaped 125. 6 117. 8 117. 4 141. 9 138. 2  Wooden boxes, other than cigar. 126. 3 126. 9 121. 6 158. 2 161. 4  Mattresses and bedsprings. 128. 0 123. 7 119. 1 155. 7 146. 2  Stone, clay, and glass products group:  Abrasive wheels. 184. 3 181. 3 178. 1 220. 1 224. 2  Asbestos products 132. 1 137. 3 126. 8 160. 5 171. 4  Lime 2. 123. 7 124. 1 125. 6 151. 9 153. 1  Gypsum 105. 6 120. 6 117. 1 126. 6 145. 0  Glass products made from purchased glass. 141. 1 140. 8 144. 6 156. 1 157. 0  Wallboard and plaster, except gypsum 138. 0 133. 6 129. 2 179. 8 171. 6  Curtains, draperies, and bedspreads 2. 103. 9 99. 1 101. 0 126. 2 115. 3  Housefurnishings, other 133. 2 147. 6 143. 0 158. 4 158. 7  Leather group:  Boot and shoe cut stock and findings 143. 8 144. 8 143. 1 135. 7 184. 0 179. 0  Trunks and suitcases 122. 4 199. 8 161. 1 179. 0  Trunks and suitcases 122. 4 109. 8 161. 1 137. 1 146. 7  Feeds, prepared. 114. 6 109. 6 106. 9 139. 5 127. 0  Paper and printing group:  Paper and printing group:  Paper and printing group:  Paper and printing group:  Paper goods, not elsewhere classified 123. 1 121. 1 18. 8 13. 1 12. 1 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 121. 1 18. 8 13. 5 147. 1 146. 7  Envelopes. 1 121. 118. 8 135. 7 137. 1	
Washing machines, wringers, and driers  Transporation equipment group:  Motorcycles, bicycles, and parts 2. 171. 2 166. 9 158. 0 208. 3 204. 9  Nonferrous metals group:  Sheet-metal work 2. 147. 0 142. 1 138. 1 172. 5 167. 6  Lumber group:  Caskets and morticians goods 3. 101. 8 100. 3 101. 5 110. 6 108. 5  Wood preserving. 120. 6 121. 8 122. 4 149. 7 162. 9  Wood, turned and shaped 125. 6 117. 8 117. 4 141. 9 138. 2  Wooden boxes, other than cigar. 126. 3 126. 9 121. 6 158. 2 161. 4  Mattresses and bedsprings. 128. 0 123. 7 119. 1 155. 7 146. 2  Stone, clay, and glass products group:  Abrasive wheels. 184. 3 181. 3 178. 1 220. 1 224. 2  Asbestos products 132. 1 137. 3 126. 8 160. 5 171. 4  Lime 2. 123. 7 124. 1 125. 6 151. 9 153. 1  Gypsum 105. 6 120. 6 117. 1 126. 6 145. 0  Glass products made from purchased glass. 141. 1 140. 8 144. 6 156. 1 157. 0  Wallboard and plaster, except gypsum 138. 0 133. 6 129. 2 179. 8 171. 6  Curtains, draperies, and bedspreads 2. 103. 9 99. 1 101. 0 126. 2 115. 3  Housefurnishings, other 133. 2 147. 6 143. 0 158. 4 158. 7  Leather group:  Boot and shoe cut stock and findings 143. 8 144. 8 143. 1 135. 7 184. 0 179. 0  Trunks and suitcases 122. 4 199. 8 161. 1 179. 0  Trunks and suitcases 122. 4 109. 8 161. 1 137. 1 146. 7  Feeds, prepared. 114. 6 109. 6 106. 9 139. 5 127. 0  Paper and printing group:  Paper and printing group:  Paper and printing group:  Paper and printing group:  Paper goods, not elsewhere classified 123. 1 121. 1 18. 8 13. 1 12. 1 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 121. 1 18. 8 13. 5 147. 1 146. 7  Envelopes. 1 121. 118. 8 135. 7 137. 1	229.1 222.1 211.3 299.8 278.4 276.4
Washing machines, wringers, and driers  Transporation equipment group:  Motorcycles, bicycles, and parts 2. 171. 2 166. 9 158. 0 208. 3 204. 9  Nonferrous metals group:  Sheet-metal work 2. 147. 0 142. 1 138. 1 172. 5 167. 6  Lumber group:  Caskets and morticians goods 3. 101. 8 100. 3 101. 5 110. 6 108. 5  Wood preserving. 120. 6 121. 8 122. 4 149. 7 162. 9  Wood, turned and shaped 125. 6 117. 8 117. 4 141. 9 138. 2  Wooden boxes, other than cigar. 126. 3 126. 9 121. 6 158. 2 161. 4  Mattresses and bedsprings. 128. 0 123. 7 119. 1 155. 7 146. 2  Stone, clay, and glass products group:  Abrasive wheels. 184. 3 181. 3 178. 1 220. 1 224. 2  Asbestos products 132. 1 137. 3 126. 8 160. 5 171. 4  Lime 2. 123. 7 124. 1 125. 6 151. 9 153. 1  Gypsum 105. 6 120. 6 117. 1 126. 6 145. 0  Glass products made from purchased glass. 141. 1 140. 8 144. 6 156. 1 157. 0  Wallboard and plaster, except gypsum 138. 0 133. 6 129. 2 179. 8 171. 6  Curtains, draperies, and bedspreads 2. 103. 9 99. 1 101. 0 126. 2 115. 3  Housefurnishings, other 133. 2 147. 6 143. 0 158. 4 158. 7  Leather group:  Boot and shoe cut stock and findings 143. 8 144. 8 143. 1 135. 7 184. 0 179. 0  Trunks and suitcases 122. 4 199. 8 161. 1 179. 0  Trunks and suitcases 122. 4 109. 8 161. 1 137. 1 146. 7  Feeds, prepared. 114. 6 109. 6 106. 9 139. 5 127. 0  Paper and printing group:  Paper and printing group:  Paper and printing group:  Paper and printing group:  Paper goods, not elsewhere classified 123. 1 121. 1 18. 8 13. 1 12. 1 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 146. 7 146. 7  Envelopes. 1 121. 1 18. 8 13. 5 147. 1 146. 7  Envelopes. 1 121. 118. 8 135. 7 137. 1	188.6   183.4   173.9   261.4   268.0   243.1   182.6   154.8   154.6   181.1   186.1   191.7
Motorcycles, bicycles, and parts 2   171. 2   166. 9   158. 0   208. 3   204. 9	129.7   128.2   125.3   190.2   194.1   178.1
Motorcycles, bicycles, and parts 2   171. 2   166. 9   158. 0   208. 3   204. 9	s   138.7   139.1   137.5   174.5   180.0   173.0
Sheet-metal work 2   147.2   142.9   141.3   182.0   179.9	
Sheet-metal work 2   147.2   142.9   141.3   182.0   179.9	171, 2   166, 9   158, 0   208, 3   204, 9   182, 8
Smelting and refining of scrap metal 2   147. 0   142. 1   138. 1   172. 5   167. 6	
Caskets and morticians goods   101.8   100.3   101.5   110.6   108.5	147. 0 142. 1 138. 1 172. 5 167. 6 161. 7
Caskets and morticians goods \$\frac{1}{2}\$. Wood preserving \tag{2.9}\$ Wood, turned and shaped \tag{2.9}\$ 121.6 122.9 149.7 152.9 Wood, turned and shaped \tag{2.9}\$ 125.6 117.8 117.4 141.9 138.2 Wooden boxes, other than cigar \tag{2.1}\$ 126.3 126.9 121.6 158.2 161.4 Mattresses and bedsprings \tag{2.1}\$ 128.0 123.7 119.1 155.7 146.2 Stone, clay, and glass products group:  Abrasive wheels \tag{2.1}\$ 184.3 181.3 178.1 220.1 224.2 Asbestos products \tag{2.1}\$ 137.3 126.8 160.5 171.4 \tag{2.2}\$ 123.7 124.1 125.6 151.9 153.1 \tag{2.2}\$ 145.0 Glass products made from purchased glass 141.1 140.8 144.6 156.1 157.0 Wallboard and plaster, except gypsum 138.0 133.6 127.9 165.0 156.2 \tag{2.2}\$ Textiles:  Textiles:  Textile bags \tag{2.1}\$ 111.8 111.2 110.3 130.1 124.4 \tag{2.2}\$ Cordage and twine \tag{2.2}\$ 136.4 133.6 129.2 179.8 171.6 \tag{2.2}\$ Curtains, draperies, and bedspreads \frac{2}{2}\$ 103.9 99.1 101.0 126.2 115.3 \tag{2.2}\$ Housefurnishings, other \tag{2.3}\$ 135.2 147.6 143.0 158.4 168.7 \tag{2.4}\$ 140.9 126.2 115.3 \tag{2.4}\$ Handkerchiefs \tag{2.5}\$ 122.4 126.1 120.1 162.4 159.5 \tag{2.5}\$ Handkerchiefs \tag{2.6}\$ 166.2 103.3 103.2 122.0 119.6 \tag{2.6}\$ Leather group:  Boot and shoe cut stock and findings 143.8 141.3 135.7 184.0 179.0 \tag{2.7}\$ Trunks and suitcases 159.0 150.6 142.1 147.7 148.3 \tag{2.7}\$ 146.2 126.0 124.8 119.8 143.0 146.7 \tag{2.7}\$ Feeds, prepared \tag{2.6}\$ 114.6 109.6 106.9 139.5 127.0 \tag{2.7}\$ Paper and printing group:  Paper bags 123.6 120.8 118.5 147.1 146.7 \tag{2.8}\$ Paper goods, not elsewhere classified 123.1 121.1 118.8 138.5 137.1	
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	101.8   100.3   101.5   110.6   108.5   110.3
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	120.6   121.8   122.4   149.7   152.9   149.6
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	125.6   117.8   117.4   141.9   138.2   134.9
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	126. 3   126. 9   121. 6   158. 2   161. 4   149. 5   128. 0   123. 7   119. 1   155. 7   146. 2   135. 7
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	128.0 125.7 119.1 155.7 140.2 155.7
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	184.3 181.3 178.1 220.1 224.2 219.8
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	132.1 137.3 126.8 160.5 171.4 158.3
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	123. 7   124. 1   125. 6   151. 9   153. 1   157. 7
Wallboard and plaster, except gypsum       138.0       133.6       127.9       165.0       156.2         Textiles:       111.8       111.2       110.3       130.1       124.4         Cordage and twine       136.4       133.6       129.2       179.8       171.6         Curtains, draperies, and bedspreads 2       103.9       99.1       101.0       126.2       115.3         Housefurnishings, other       135.2       147.6       143.0       158.4       168.7         Jute goods, except felt       128.4       126.1       120.1       162.4       159.5         Handkerchiefs       106.2       103.3       103.2       122.0       119.6         Leather group:       108.6       106.3       103.7       131.1       127.4         Leather gloves and mittens       143.8       141.3       135.7       184.0       179.0         Trunks and suitcases       159.0       150.6       142.1       147.7       148.3         Food group:       121.4       109.8       106.1       137.1       125.5         Condensed and evaporated milk       126.0       124.8       119.8       143.0       146.7         Feeds, prepared       114.6       109.6       106.9	. 105.6 120.6 117.1 126.6 145.0 135.7
Textiles   Textiles   Description   Textiles   Textiles   Description	
Textile bags	
Boot and shoe cut stock and findings	111. 8   111. 2   110. 3   130. 1   124. 4   120. 4
Boot and shoe cut stock and findings	136.4 133.6 129.2 179.8 171.6 161.1
Boot and shoe cut stock and findings	103.9 99.1 101.0 126.2 115.3 115.9
Boot and shoe cut stock and findings	135. 2 147. 6 143. 0 158. 4 168. 7 159. 8 128. 4 126. 1 120. 1 162. 4 159. 5 151. 4
Boot and shoe cut stock and findings	
Boot and shoe cut stock and findings 108. 6 106. 3 103. 7 131. 1 127. 4 143. 8 141. 3 135. 7 184. 0 179. 0 179. 0 150. 6 142. 1 147. 7 148. 3 149. 8 149. 1 149. 8 149. 1 147. 1 148. 1 149. 8 149. 1 149. 1 149. 8 149. 1 149. 8 149. 1 149. 8 149. 1 149. 8 149. 1 149. 1 149. 8 149. 1 149. 8 149. 1 149. 8	100.2 100.2 122.0 120.0
Trunks and suitcases 159.0 150.6 142.1 147.7 148.3 Food group:  Cereal preparations 121.4 109.8 106.1 137.1 125.5 Condensed and evaporated milk 126.0 124.8 119.8 143.0 146.7 Feeds, prepared 114.6 109.6 106.9 139.5 127.0 Paper and printing group:  Paper bags 123.6 120.8 118.5 147.1 146.7 Envelopes 116.9 115.5 113.8 128.3 128.4 Paper goods, not elsewhere classified 123.1 121.1 118.8 138.5 137.1	
Food group:	143.8 141.3 135.7 184.0 179.0 172.1
Cereal preparations   121.4   109.8   106.1   137.1   125.5	159.0 150.6 142.1 147.7 148.3 138.4
Paper and printing group:  Paper bags	121.4 109.8 106.1 137.1 125.5 118.7
Paper and printing group:  Paper bags	126.0 124.8 119.8 143.0 146.7 134.9
Paper and printing group:  Paper bags. 123.6 120.8 118.5 147.1 146.7  Envelopes. 116.9 115.5 113.8 123.3 128.4  Paper goods, not elsewhere classified. 123.1 121.1 118.8 138.5 137.1	114.6   109.6   106.9   139.5   127.0   117.7
Taper Dags	123.6 120.8 118.5 147.1 146.7 138.7
Paper goods, not elsewhere classified 123. 1 121. 1 118. 8 138. 5 137. 1	
7100 000 100 1 100 1	123. 1 121. 1 118. 8 138. 5 137. 1 129. 0
BOOKDINGING 110.8 92.3 106.7 134.1 110.7	110,8   92,3   106,7   134,1   110,7   119,6
Lithographing	105.4   104.2   100.2   114.0   113.1   110.5
Chemical, petroleum, and coal products group:  Ammunition  (1)  (1)  (1)  (1)	oup:
Ammunition (1) (1) (1) (1) (1) (2) (1) Compressed and liquefied gases 141. 3 139. 5 138. 1 177. 2 179. 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Dentifying and accompation 100 0 100 1 00 1 100 0 100 0 1	100.9 98.1 95.8 113.0 100.5 99.2
Coke-oven products 125.7 122.1 120.8 147.7 145.7	125.7 122.1 120.8 147.7 145.7 141.5
Paving materials 131.3   117.6   117.9   160.2   139.6	131.3   117.6   117.9   160.2   139.6   130.7
Roofing materials	132,9   128.8   124.7   169.8   165.4   149.3
Miscellaneous group:	275 0 257 7 240 7 200 0 257 6 200 0
Chemical fire extinguishers       275. 9       257. 7       240. 7       380. 9       357. 6         Buttons       112. 6       112. 4       114. 8       135. 5       139. 3	275. 9   257. 7   240. 7   380. 9   357. 6   330. 2 112. 6   112. 4   114. 8   135. 5   139. 3   138. 2
Instruments—professional scientific and commer, I	d commer, i
cial 192. 2 185. 5 175. 8 246. 4 231. 1	. 192. 2 185. 5 175. 8 246. 4 231. 1 218. 5
Optical goods 168.1 166.3 160.1 198.1 196.4	168. 1   166. 3   160. 1   198. 1   196. 4   182. 5
Photographic apparatus 123. 9   120. 4   115. 6   149. 1   154. 3	123.9 120.4 115.6 149.1 154.3 135.3
192. 2   185. 5   175. 8   246. 4   231. 1	123. 2   121. 5   121. 1   137. 6   133. 2   131. 2
	ent

120.7. Curtains, draperies and bedspreads—January, February employment and pay-roll indexes to 95.0, 103.9, and 102.5 116 %

¹ Not available.
² Revisions of employment and pay-roll indexes in the following industries have been made as indicated: Wire, not made in rolling mills—January, February, and March employment and pay-roll indexes to 126.5, 130.6, 133.0 and 141.2, 146.9, 154.0.

Steel barrels, kegs and drums—March employment and pay-roll indexes to 108.4 and 127.1.

Refrigerators and refrigerating apparatus—March employment and pay-roll indexes to 148.2 and 174.0.

Sewing machines—January employment and pay-roll indexes to 112.1 and 127.5.

Motorcycles, bicycles and parts—January employment and pay-roll indexes to 117.1 and 120.0.

Sheet-metal work—January pay-roll index to 146.0.

Smelting and refining of scrap metal—February pay-roll index to 146.7.

Caskets and morticians goods—January, February, and March employment indexes to 100.2, 102.3, 102.9;
February and March pay-roll indexes to 110.6 and 110.8.

Lime—January, February, March employment and pay-roll indexes to 107.8, 108.9, 111.7, and 120.1, 116.9, 120.7.

Table 11.—Indexes of Employment and Pay Rolls in Selected Manufacturing 1 and Nonmanufacturing 2 Industries, July 1940 to July 1941

				1940							1941			
Industry	Av.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July
Manufacturing		<del></del>			,	]	Emplo	ymen	t					
All Industries	107. 5	103. 2	107. 4	111. 4	113.8	114. 7	116. 2	115. 5	117.8	119. 9	122. 6	124. 9	127.8	130.
Durable goods 3 Nondurable goods 4	104. 3 110. 6	98. 4 107. 8	102. 4 112. 2	108. 2 114. 4	112. 8 114. 8	115. 5 113. 8	117. 7 114. 8	118.3 112.7	121. 0 114. 7	123. 7 116. 3	127. 7 117. 8	131.3 118.8	135. 1 121. 0	137. 123.
Nonmanufacturing														
Anthracite mining §	50. 7 88. 0 69. 9	84. 9 71. 0	86. 6 71. 5	87. 7 72. 5	89. 2 72, 6	89. 8 72. 5	90, 1 72, 2	50. 3 90, 2 72. 5	90.6 73.4	91. 1 74. 3	77. 2	87. 9 77. 1	88. 1 78. 9	90.
lic mining Crude-petroleum production Telephone and telegraph 7.	62. 9 77. 9	63. 7		63. 0		61.3	60.7	41.7 60.3 80.4			60.1	60.4	61. 7	61.
Electric light and power 7. Street railways and busses 78	91.1	92. 2	93.0	92. 7	92.3	91.8	91.3		90.1	90. 3 68. 2	91.3	92, 2	93.5	
Wholesale trade. Retail trade 7 Year-round hotels 5	90. 4 92. 3		90. 1 88. 7	90. 9 92. 8	91.0 94.3	91. 8 96. 3	92. 5 108. 1 92. 6	91. 2 90. 5	91.4	91.8 92.5	92. 4 97. 8	92. 2 96. 1	93.8	93. 96.
Laundries 5	99.5	102. 5 108. 2	102.8	101.9	100.2	99.7	100.3	101.4	101.1	102.5	104.9	108.3	112.0	115.
<b>Manufacturing</b>							Pay	rolls						
All industries	105. 4	98. 2	105. 5	111. 6	116. 2	116. 4	122. 4	120. 7	126.8	131. 2	134. 7	144. 1	152. 1	152
Durable goods § Nondurable goods 4	107. 8 102. 7						131. 7 112. 1							
Nonmanufacturing		i			-									
Anthracite mining bituminous-coal minings. Metalliferous mining cuarrying and nonmetal-	38. 5 81. 2 66. 7	75. 2	82. 5	39. 3 83. 2 69. 5	32. 3 83. 6 71. 3	84. 5	91.4	38. 5 87. 8 70. 4	45. 2 90. 8 71. 8		915.5	103.4	51. 2 107. 2 85. 3	104.
lic mining	40. 5	43. 5	45. 2	46. 2	46.7	42, 3	42. 4	36. 9	38. 2	40.3	47. 0	53. 2	55. 7	<b>5</b> 5.
tion		59. 1 101. 3 105. 8	100.4	101.8	102. 2		103.5	103.9		106.4	107.3	110.5	113.0	116.
Street railways and husses 7 8	70. 4 79. 0 84. 2 82. 4	78. 3 82. 6 80. 5	78. 7 81. 5 80. 7	81. 1 85. 1 81. 8	80. 2 85. 8 84. 2	80. 7 87. 1 83. 6	83. 4 97. 3 84. 1	70. 7 80. 5 83. 7 84. 1	81. 4 84. 6 86. 1	85.7	83. 4 91. 7 87. 1	84. 6 91. 5 87. 9	95. 2 87. 4	88. 94. 87.
Laundries 5	87. 7 78. 2			89. 9 85. 6	88. 0 82. 4	87. 2 77. 8		89. 8 73. 3		90. 9 77. 2			102. 5 98. 4	

<sup>13-</sup>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."

\*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 indexs see notes 5, 6, and 7.

\*Includes: Iron and steel, machinery, transportation equipment, nonferrous metals, lumber and allied products, and stone, clay, and glass products.

\*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.

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

\*See table 7 of February 1941 pamphlet for revised indexes January 1935 to January 1941.

\*Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in Employment and public-utility indexes to 1937 census. Not comparable with indexes published in Employment and machiners of subsidiery efficiency available in mimeographed form.

\*Comparable form the comparable of the products of the pamphlet series January 1929 to December 1939 available in mimeographed form.

graphed form.

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

### Public Employment

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

#### EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in June and July 1941 are given in table 12.

Table 12.—Employment and Pay Rolls for the Executive Service of the United States Government, July 1941

[Subject to revision]

	] 1	Employmer	nt	}	Pay rolls	
Class	July 1941	June 1941	Percent- age change	July 1941	July 1941	Percent- age change
Entire service:	1, 391, 689	1, 370, 110	+1.6	\$295, 977, 306	\$205, 581, 047	+0. 2
Regular appropriation Emergency appropriation Force-account	1, 203, 371 24, 486 163, 832	1, 167, 162 48, 206 154, 742	+3.1 -49.2 +5.9	178, 152, 006 3, 407, 055 24, 418, 245	176, 632, 657 6, 711, 406 22, 236, 984	+.9 -49.2 +9.8
Total.	185, 182	184, 236	+.5	28, 524, 770	30, 601, 662	-6.8
Regular appropriation Emergency appropriation Force-account Outside the District of Columbia:	171, 425 3, 558 10, 199	167, 672 7, 845 8, 719	+2.3 -54.6 +17.0	26, 063, 693 482, 691 1, 978, 386	27, 739, 709 1, 216, 424 1, 645, 529	-6.0 -60.3 +20.2
Total	1, 206, 507	1, 185, 874	+1.7	177, 452, 536	174, 979, 385	+1.4
Regular appropriation Emergency appropriation . Force-account	1, 031, 946 20, 928 153, 633	999, 490 40, 361 146, 023	+3. 2 -48. 1 +5. 2	152, 088, 313 2, 924, 364 22, 439, 859	148, 892, 948 5, 494, 982 20, 591, 455	+2.1 -46.8 +9.0

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

# CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during July on construction projects financed from Public Works Administration funds are given in table 13, by type of project.

Table 13.—Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, July 1941 1

	Emplo	yment		Man-		Value of material
Type of project	Maxi- mum <sup>2</sup>	Weekly average	Monthly pay rolls	hours worked during month	Average earnings per hour	orders placed during month
All programs	7, 456	6, 351	\$807, 747	910, 668	\$0.887	\$1, 247, 860
		nd Public				l Recovery
All projects	3 1, 047	986	\$116, 247	144, 158	\$0.806	\$185, 785
Airport construction (exclusive of buildings) Building construction Public roads 4 Reclamation River, harbor, and flood control Streets and roads Water and sewerage Miscellaneous	(5) 612 36	129 168 60 575 36 9 7	12, 748 21, 525 2, 482 76, 356 932 567 1, 556 81	19, 063 20, 812 6, 716 94, 665 1, 286 685 784 147	. 669 1. 034 . 370 . 807 . 725 . 840 1. 985 . 551	7, 361 117, 477 5, 000 49, 184 96 6, 656 7 4
	Recov	ery Act, I and 1937.	Emergency	ced from Relief App lic Works	propriation	Act 1935,
All projects	6, 409	5, 365	\$691, 500	766, 510	\$0.902	\$1,062,075
Building construction Electrification Heavy engineering Railroad construction Reclamation Streets and roads Water and sewerage Miscellaneous	952 311 4, 268 51 81 163 562 21	713 287 3, 623 51 40 145 485 21	105, 246 53, 885 460, 661 120 4, 981 12, 928 51, 000 2, 679	73, 706 38, 187 578, 624 248 5, 048 10, 972 57, 046 2, 679	1. 428 1. 411 . 796 . 484 . 987 1. 178 . 894 1. 000	129, 010 36, 071 851, 233 0 8, 052 2, 714 34, 995

#### UNITED STATES HOUSING AUTHORITY

Table 14 shows data concerning employment, pay rolls, and manhours worked in July 1941 on low-rent projects of the United States Housing Authority.

Data are for the month ending on the 15th.
 Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.
 Includes weekly average for public roads.
 Under the jurisdiction of Public Roads Administration.
 Not available; weekly average included in total for all projects.

Table 14.—Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, July 1941

	Emplo	yment	1	Man-hours	Awaraga	Value of material
Geographic division	Maximum	Weekly average	Monthly pay rolls	worked during month	Average earnings per hour	orders placed during month
All divisions	36, 543	31, 213	\$3, 849, 428	4, 016, 493	\$0.958	\$4, 818, 811
New England	3, 711	3, 225	461, 908	426, 498	1.083	877, 489
Middle Atlantic East North Central	4, 684 6, 639	4, 012 5, 749	661, 798 882, 716	500, 115 748, 814	1, 323 1, 179	847, 385 1, 015, 212
West North Central.	468	439	47, 721	39, 543	1. 207	76, 529
South Atlantic	9, 292	7, 891	879, 207	1, 023, 840	. 859	870,007
East South Central.	2, 258	1,881	160, 837	231, 854	. 694	161, 559
West South Central	4, 944	4, 173	415, 550	518, 601	. 801	576, 278
Mountain	472 1,676	437 1, 361	28,770 222,554	28, 406 183, 118	1. 013 1. 215	33, 386 289, 616
Outside continental United States	2, 399	2, 045	88, 367	315, 704	. 280	71, 350
	.,, 011	-,	00,000	1		,

#### WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours worked in July on work-relief projects of the Work Projects Administration is shown in table 15.

Table 15.—Employment and Pay Rolls on Work Relief Projects of the Work Projects
Administration, July 1941

[Subject to revision]

Туре	Employ- ment <sup>1</sup>	Pay rolls	Man-hours worked	Average earnings per hour
All W. P. A. projects	1, 055, 012	\$68, 200, 000	147, 200, 000	\$0.463
Projects operated by W. P. A. Projects operated by other Federal agencies.	1, 041, 123 13, 889	67, 400, 000 800, 000	145, 400, 000 1, 800, 000	. 464 . 444

<sup>&</sup>lt;sup>1</sup> Employment represents the average of weekly counts made as of each Wednesday during the calendar month.

Data on employment, pay rolls, and man-hours worked in July on each type of project operated by the Work Projects Administration were not available when this report was prepared. The figures for June are presented in table 16.

TABLE 16 .- Average Employment and Pay Rolls on Projects Operated by the Work Projects Administration, by Type of Project, June 1941

Type of project	Employ- ment 1	Pay rolls	Man-hours worked	Average earnings per hour
All projects	1, 369, 728	\$79, 222, 498	172, 559, 357	<b>\$0.4</b> 59
Conservation	536, 362	1, 747, 149 24, 633, 353 18, 052, 534	3, 913, 385 58, 530, 639 35, 644, 239	. 446 . 421 . 506
Public buildings 2- Publicly owned or operated utilities	114 045	8, 932, 865 7, 712, 295	18, 119, 980 16, 233, 049	
Recreational facilities 3SanitationSewing	18, 930 108, 194	3, 125, 112 764, 376 4, 985, 582	6, 233, 412 1, 856, 552 12, 241, 089	. 501 . 412 . 407
Airports and airways	17, 668	4, 343, 699 4, 925, 533	10, 193, 631 9, 593, 381	. 426
National defense vocational trainingOther	35, 959 34, 505	1, 980, 348 2, 945, 185	4, 365, 605 5, 227, 776	. 454 . 563

Data for "All projects" and for "National defense vocational training" represent the average of the weekly counts made as of each Wednesday during the calendar month; data for all other types are estimated on the basis of employment on June 25, 1941.
 Separate data for housing projects are not available.
 Exclusive of buildings.

#### NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for June and July 1941 are shown in table 17.

TABLE 17.—Employment and Pay Rolls on National Youth Administration Projects, July and June 1941

[Subject to revision]

	Emplo	yment	Pay rolls		
Type of project	July	June	July	June	
Total	325, 045	750, 518	\$7, 176, 122	\$10, 715, 168	
Student work program Out-of-school work program	2, 309 322, 736	358, 004 392, 514	12, 375 7, 163, 747	2, 602, 449 8, 112, 719	

#### CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in June and July 1941 are presented in table 18.

Table 18.—Employment and Pay Rolls in the Civilian Conservation Corps, July 1941 1 [Subject to revision]

	Emplo	yment	Pay rolls		
Group	July 1941	June 1941	July 1941	June 1941	
All groups	210, 121	235, 024	\$10, 388, 164	\$11, 277, 971	
Enrolled personnel <sup>2</sup>	178, 296 124 1, 392 30, 309	199, 646 125 1, 476 33, 777	5, 603, 997 17, 313 244, 314 4, 522, 540	5, 988, 552 17, 349 257, 384 5, 014, 686	

<sup>&</sup>lt;sup>1</sup> Employment figure is an average of counts of enrolled personnel taken at 10-day intervals, and number employed on last day of month for other groups.
<sup>2</sup> July data include 3,249 enrollees and pay roll of \$60,711 outside continental United States; in June the corresponding figures were 3,166 enrollees and pay roll of \$61,506.
<sup>3</sup> Included in executive service, table 12.

#### CONSTRUCTION PROJECTS FINANCED BY THE RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in July are presented in table 19, by type of project.

Table 19.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, July 1941 1

[Subject to revision]

Type of project	Employ- ment <sup>2</sup>	Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed dur- ing month
All projects	13, 398	\$1,908,303	1, 762, 708	\$1.083	\$7, 111, 944
Building construction 3 .  Streets and roads.  Water and sewerage.  Heavy engineering .	12, 750 412 155 81	1, 865, 024 6, 913 27, 435 8, 931	1, 716, 975 10, 624 27, 899 7, 210	1. 086 . 651 . 983 1. 239	\$7, 027, 032 78, 812 6, 100

#### CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during July 1941 are given in table 20, by type of project.

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

<sup>3</sup> Maximum number employed during any 1 week of the month by each contractor.

<sup>3</sup> Includes 467 employees; pay-roll disbursements of \$93,869; 73,899 man-hours worked; and material orders placed of \$33,837 on projects financed by RFC Mortgage Co.

Table 20.—Employment and Pay Rolls on Construction Projects Financed from Regular Federal Appropriations, by Type of Project, July 1941 1

	Employment		Monthle	Man- hours	Aver-	Value of material
Type of project	Maxi- mum <sup>2</sup>	Weekly average	Monthly pay rolls	worked during month	earn- ings per hour	orders placed dur- ing month
All projects.	<sup>3</sup> 872, 663	797, 294	\$121, 148, 189	135, 617, 465	\$0.893	\$203, 484, 140
Airport construction	59, 996	54, 987	8, 435, 957	9, 490, 936	. 889	11, 716, 752
Building construction:		· ·	[		ł i	1
Residential	68, 095	58, 806	7, 363, 244	8, 360, 224	.881	8, 866, 924
Nonresidential	335, 854	295, 070	48, 862, 601	49, 552, 870	. 986	59, 232, 107
Electrification:	(	1	1		ł	'
Rural Electrification Administra-	1		1			1
tion projects 4	11,036	9,048	612, 426	1, 142, 083	. 536	3, 347, 221
Other than R. E. A. projects	823	691	105, 158	96, 333	1.092	98, 448
Heavy engineering	8,678	8,678	433, 118	802, 762	. 540	431, 804
Public roads 5	(6)	86, 436	9, 271, 125	13, 647, 938	. 679	12, 990, 893
Reclamation	30, 275	29, 509	4, 450, 706	4, 909, 600	. 907	9, 879, 401
River, harbor, and flood control:		· ·	1		i	
Dredging, dikes, revetments, etc.	33, 949	30, 204	3, 623, 432	4, 951, 591	. 732	5, 761, 588
Locks and dams.	7, 709	7,082	940, 672	1, 184, 470	. 794	2, 114, 768
Ship construction:	·	Ì	·	1		, .
Naval vessels	168, 250	160, 528	30, 364, 501	32, 780, 502	. 926	74, 466, 681
Other than naval vessels.	39,603	35, 198	5, 637, 564	6,062,681	. 930	12, 069, 245
Streets and roads	2, 419	2, 103	213, 825	291,004	. 735	422, 116
Water and sewerage	1,902	1,771	217, 806	286, 681	. 760	600, 492
Miscellaneous.	17,638	17, 183	616, 054	2, 057, 790	. 299	1, 485, 700
	ĺ		· ·			

#### STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements on the construction and maintenance of roads financed wholly from State or local funds in July 1941, compared with June 1941, and July 1940, is presented in table 21.

Table 21.—Employment and Pay Rolls on Construction and Maintenance of State Roads, July 1941, June 1941, and July 1940 1

[Subject to revision]

¥4	Employment <sup>2</sup>			Pay rolls			
Item	July 1941	June 1941	July 1940	July 1941	June 1941	July 1940	
Total	202, 158	196, 655	197, 950	\$16, 758, 517	\$14, 596, 069	\$14, 696, 498	
New roads Maintenance	65, 507 136, 651	61, 759 134, 896	61, 705 136, 245	4, 924, 578 11, 833, 939	4, 231, 809 10, 364, 260	3, 984, 957 10, 711, 541	

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

<sup>&</sup>lt;sup>2</sup> Average number working during month.



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