UNITED STATES DEPARTMENT OF LABOR Frances Perkins, Secretary

BUREAU OF LABOR STATISTICS

Isador Lubin, Commissioner



EMPLOYMENT AND PAY ROLLS

Prepared by
DIVISION OF EMPLOYMENT STATISTICS
Lewis E. Talbert, Chief
and
DIVISION OF CONSTRUCTION AND
PUBLIC EMPLOYMENT
Herman B. Byer, Chief

DECEMBER 1940

UNITED STATES GOVERNMENT PRINTING OFFICE • WASHINGTON • 1941

CONTENTS

<u> </u>	Page
Summary of employment reports for December 1940	1
Total nonagricultural employment	1
Industrial and business employment.	1
Public employment	6
Detailed tables for December 1940	8
Estimates of nonagricultural employment	8
Industrial and business employmentPublic employment	11 32
Tuone employment.	02
Tables	
Summary	
Table 1.—All manufacturing industries combined and nonmanufactur-	
ing industries—employment, pay rolls, and weekly earnings, December 1940	5
Table 2.—Federal employment and pay rolls—summary December 1940.	7
Table 3.—Value of material orders placed on projects financed wholly	
or partially from Federal funds and number of man-months	
of labor created in final fabrication of materials purchased,	
fourth quarter of 1940, third quarter of 1940, and fourth	
quarter of 1939	8
Nonagricultural Employment	
Table 4.—Estimates of nonagricultural employment, by major groups.	9
TABLE 5.—Estimates of honogrammara employment, by major groups: TABLE 5.—Estimated number of employees in nonagricultural estab-	9
lishments, by States.	10
, · ·	10
INDUSTRIAL AND BUSINESS EMPLOYMENT	
Table 6.—Manufacturing and nonmanufacturing industries—employ-	
ment, pay rolls, hours, and earnings, December 1940	16
Table 7.—Manufacturing and nonmanufacturing industries—employ-	
ment, pay rolls, hours, and earnings, October through	
December 1940	22
Table 8.—Manufacturing and nonmanufacturing industries—indexes	
of employment and pay rolls, December 1939 through	
December 1940	27
TABLE 9.—All manufacturing industries combined—employment and	
pay-roll indexes, January 1919 to December 1940, in-	00
clusive	28
TABLE 10.—Durable-goods group of manufacturing industries—employ-	
ment and pay-roll indexes, January 1923 to December	00
1940, inclusive	29
TABLE 11.—Nondurable-goods group of manufacturing industries—em-	
ployment and pay-roll indexes, January 1923 to December	20
1940, inclusive	30

	Page
Table 12.—Principal metropolitan areas—comparison of employment and pay rolls in identical establishments in November and December 1940	31
Table 13.—Manufacturing and nonmanufacturing industries—wage- rate changes during month ending December 15, 1940	32
Public Employment	
Table 14.—Executive service of the Federal Government—employment and pay rolls, December 1940	33
Table 15.—Construction projects financed by Public Works Administration funds—employment, pay rolls, and man-hours worked, December 1940, by type of project	33
Table 16.—Housing projects of the United States Housing Authority— employment, pay rolls, and man-hours worked, December	3 0
1940, by geographic division	3 5
Table 18.—Projects operated by the Work Projects Administration—employment, pay rolls, and man-hours worked, November	3 5
Table 19.—National Youth Administration student-work program and out-of-school work program, employment and pay rolls, December 1940.	36 36
Table 20.—Civilian Conservation Corps—employment and pay rolls, December 1940	37
Table 21.—Construction projects financed by the Reconstruction Finance Corporation—employment, pay rolls, and man-hours worked, December 1940, by type of project	37
Table 22.—Construction projects financed from regular Federal appropriations—employment, pay rolls, and man-hours worked,	38
December 1940, by type of project Table 23.—Construction and maintenance of State roads—employment and pay-roll disbursements, December 1940	38
PURCHASES FROM PUBLIC FUNDS	
Table 24.—Value of material orders placed on construction projects financed by Federal funds, fourth quarter of 1940, by type of project.	40
Table 25.—Value of material orders placed on construction projects financed by Federal funds, third quarter of 1940, by type	
of project	42 44

Employment and Pay Rolls

SUMMARY OF REPORTS FOR DECEMBER 1940

Total Nonagricultural Employment

CIVIL nonagricultural employment increased by approximately 540,000 workers in December 1940, bringing total employment to more than 37,100,000 persons. The December increase was larger than any reported in the past 11 years and more persons were engaged in civil nonagricultural occupations in December than at any time since October 1929. Wholesale and retail trade establishments, in which 430,000 workers were added, accounted for most of the employment gain. A substantial portion of this gain was due to the hiring of temporary workers to handle the Christmas trade. Manufacturing industries continued to expand under the spur of defense expenditures and showed a contraseasonal gain of nearly 120,000. Federal, State, and local Government services, exclusive of the armed forces, added more than 45,000 persons to pay rolls in December-most of this rise was due to increased activity at navy yards and Government arsenals and to the hiring of temporary employees by the Post Office Department for the Christmas rush. The finance, service, and miscellaneous group of industries added approximately 11,000 workers in December. Transportation, public utilities, and mining reported seasonal decreases in employment in December. Construction firms, however, showed a less than seasonal decrease of 27,000 workers.

Total civil nonagricultural employment in December 1940 was 1,500,000 above the December 1939 level. Manufacturing industries added 640,000 workers during the year and 450,000 found jobs in private and public construction work. Of all the industries surveyed, the only major group to report an employment decrease (15,000) over the year interval was mining.

These figures do not include emergency employment which increased 155,000 over the month as a result of the following changes: Increases of 63,000 on projects operated by the Work Projects Administration, 65,000 on the out-of-school work program of the National Youth Administration, 62,000 in the military service, and a decrease of 35,000 in the Civilian Conservation Corps.

Industrial and Business Employment

Of the 157 manufacturing industries surveyed, 102 showed more wage earners at work in December than in November and 128 showed larger pay rolls. Of the 16 nonmanufacturing industries regularly covered, 8 reported gains in employment and 13 in pay rolls.

The contraseasonal gain of 1.3 percent (119,000 workers) in factory employment was coupled with an increase in weekly pay rolls of 5.2 percent or more than \$11,300,000. The employment gain was in contrast to a seasonally expected decline of 0.9 percent or 82,000 workers and the pay-roll expansion was about 14 times as large as the customary seasonal increase of 0.4 percent or \$880,000. In only 1 year (1919) has a more pronounced pay-roll increase been reported for December, and in only 2 years (1919 and 1924) have larger employment gains been shown.

The December 1940 employment index for all manufacturing industries combined stood at 116.2 on the basis of 100 for the 3-year period 1923–25, the highest point since the series began (January 1919) and 7.8 percent above the level of a year ago. The corresponding pay-roll index (122.4) exceeded all levels since June 1920 and showed an increase of 16.1 percent over December of last year. The 12-month average index of employment in 1940 was 107.5 compared with 99.9 in 1939, and the corresponding pay-roll indexes were 105.4 and 92.2.

For the durable-goods group of industries, the employment and pay-roll indexes in December 1940 were 117.6 and 131.6, the gains since last year being 14.4 and 24.4 percent, respectively. The average 1940 indexes for this group were 104.3 in employment and 107.8 in pay rolls as against 1939 averages of 90.2 and 86.2.

The December 1940 employment and pay-roll indexes for the non-durable-goods group were 114.8 and 112.1, the gains since a year ago being 2.0 and 6.8 percent, respectively. The average indexes for the year 1940 were 110.6 and 102.7, while for 1939 they were 109.2 and 98.9.

The durable-goods group as a whole showed employment and payroll gains between November and December 1940 of 1.8 percent and 5.2 percent, respectively, while the nondurable-goods group showed somewhat smaller increases (0.8 percent and 5.2 percent). As in the preceding month, most of the employment gains in the individual industries were either larger-than-seasonal or contraseasonal, and most of the decreases were smaller-than-seasonal. Among the many industries showing employment gains due in part to defense orders were the following: Foundries and machine shops (15,900); electrical machinery (11,100); cotton goods (10,600); shipbuilding (9,300); steel (8,900); shoes (8,300); aircraft (7,900); men's clothing (6,200);

woolen and worsted goods (3,900); brass, bronze, and copper products (3,700); engines (3,400); and machine tools (2,900). The percentage increases in industries recently added to the monthly report and engaged in defense work were as follows: Fire extinguishers, 10.3 percent; machine-tool accessories, 6.4 percent; ammunition, 5.8 percent; screw-machine products, 4.9 percent; instruments and apparatus, 4.7 percent; firearms, 4.4 percent; optical goods, 4.1 percent; abrasives, 1.9 percent. The largest employment decline was in the canning industry, which showed a seasonal recession of 16,600. Sawmills reported 6,700 fewer workers and automobile plants a decline of less than 1,000.

Employment in retail stores increased more than seasonally by 11.6 percent, and corresponding pay rolls increased 10.7 percent, the latter gain being the largest December pay-roll increase recorded in the 12 years of the Bureau's survey. Both employment and pay rolls in retail trade as a whole were at the highest levels since December 1929, while for the general merchandising group, they were at the highest points recorded in the Bureau's survey. Department stores took on 35.8 percent more employees to handle the holiday trade, variety stores 50.9 percent, jewelry stores 23.7 percent, men's and boys' apparel stores 22.8 percent, family clothing stores 16.9 percent, and women's apparel stores 10.8 percent.

In wholesale trade the employment gain of 1 percent between November and December was larger than the December increase reported in any of the preceding 11 years with the exception of 1936. This gain was reflected in all important wholesale lines with the exception of dry goods and apparel and farm products which showed declines of 0.4 and 1.6 percent, respectively. Wholesalers dealing in general merchandise increased their forces by 8.7 percent; farm supplies, 5.8 percent; electrical supplies and hardware, 2.5 percent each; leather goods and tobacco, 1.6 percent each; agents and brokers, 7.5 percent; and assemblers and country buyers, 7.3 percent.

In anthracite mines employment increased seasonally by 0.9 percent and pay rolls rose 13.4 percent. While employment in anthracite mining remained virtually unchanged over the year interval, the December pay-roll level was 60 percent above that of December 1939, indicating substantially increased production. In bituminous-coal mines, employment increased less than seasonally by 0.2 percent, while pay rolls showed a substantial gain of 8.1 percent. Since December 1939, employment in this field has decreased by 2.8 percent and pay rolls have increased 8.4 percent. Employment in metal mines decreased seasonally by 0.4 percent since November, quarries showed a smaller-than-seasonal employment loss of 3.5 percent, and crude oil producers a decline of 0.6 percent.

Private building construction employment decreased much less than seasonally (1.9 percent) from November to December, the average November-December drop of the past 8 years being 11.3 Three of the nine geographic divisions showed increased employment, namely, the West South Central States (2.9 percent), the South Atlantic States (3.0 percent), and the Pacific States (1.5 percent). All of the geographic divisions except the East South Central States showed increases in weekly pay rolls. General contractors reported 2.3 percent fewer workers while special trades contractors reported a net employment decrease of 1.8 percent. Of the fifteen special building trades surveyed, increases were reported for structural steel erection, plastering, elevator installation, roofing and sheet metal work, wood flooring, ornamental metal work, and electrical contracting. Employment decreases were reported for painting and decorating, building insulation, carpentering, plumbing and heating, masonry, excavating, tile and terrazzo contracting, and glazing. The level of employment in private building construction as a whole in December 1940 was 28.7 percent higher and weekly pay rolls 34.3 percent higher than in December 1939.

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment decline of 1.8 percent between November and December, the total number employed in December being 1,024,806. Corresponding pay-roll figures for December were not available when this report was prepared. For November they were \$165,481,736, a decrease of \$11,107,452 since October.

Hours and earnings.—The average hours worked per week by manufacturing wage earners were 39.8 in December, an increase of 3.1 percent from November. The corresponding average hourly earnings were 68.3 cents, an increase of 0.8 percent from the preceding month. The average weekly earnings of factory workers were \$27.89, an increase of 3.7 percent since November. Of the 16 nonmanufacturing industries regularly surveyed 14 reported increases in average weekly earnings. Of the 14 nonmanufacturing industries for which man-hours are available, 11 showed gains in average hours worked per week and 10 reported increases in average hourly earnings.

Wage-rate increases were reported by 211 of the 33,789 manufacturing establishments which supplied employment information in December. These increases averaged 6.3 percent and affected 74,102 of the 6,468,688 wage earners covered. Among the industries in which substantial numbers of workers received pay raises were sawmills (13,342), electrical machinery (8,962), steel (7,374), foundries (7,255), chemicals (4,019), paper and pulp (2,532), and smelting and refining (2,547). Out of a total sample of about 90,000 nonmanufacturing establishments (excluding building construction firms) having approximately 3,000,000 employees in December, 43 estab-

Private building construction employment decreased much less than seasonally (1.9 percent) from November to December, the average November-December drop of the past 8 years being 11.3 Three of the nine geographic divisions showed increased employment, namely, the West South Central States (2.9 percent), the South Atlantic States (3.0 percent), and the Pacific States (1.5 percent). All of the geographic divisions except the East South Central States showed increases in weekly pay rolls. General contractors reported 2.3 percent fewer workers while special trades contractors reported a net employment decrease of 1.8 percent. Of the fifteen special building trades surveyed, increases were reported for structural steel erection, plastering, elevator installation, roofing and sheet metal work, wood flooring, ornamental metal work, and electrical contracting. Employment decreases were reported for painting and decorating, building insulation, carpentering, plumbing and heating, masonry, excavating, tile and terrazzo contracting, and glazing. The level of employment in private building construction as a whole in December 1940 was 28.7 percent higher and weekly pay rolls 34.3 percent higher than in December 1939.

A preliminary report of the Interstate Commerce Commission for class I steam railroads showed an employment decline of 1.8 percent between November and December, the total number employed in December being 1,024,806. Corresponding pay-roll figures for December were not available when this report was prepared. For November they were \$165,481,736, a decrease of \$11,107,452 since October.

Hours and earnings.—The average hours worked per week by manufacturing wage earners were 39.8 in December, an increase of 3.1 percent from November. The corresponding average hourly earnings were 68.3 cents, an increase of 0.8 percent from the preceding month. The average weekly earnings of factory workers were \$27.89, an increase of 3.7 percent since November. Of the 16 nonmanufacturing industries regularly surveyed 14 reported increases in average weekly earnings. Of the 14 nonmanufacturing industries for which man-hours are available, 11 showed gains in average hours worked per week and 10 reported increases in average hourly earnings.

Wage-rate increases were reported by 211 of the 33,789 manufacturing establishments which supplied employment information in December. These increases averaged 6.3 percent and affected 74,102 of the 6,468,688 wage earners covered. Among the industries in which substantial numbers of workers received pay raises were sawmills (13,342), electrical machinery (8,962), steel (7,374), foundries (7,255), chemicals (4,019), paper and pulp (2,532), and smelting and refining (2,547). Out of a total sample of about 90,000 nonmanufacturing establishments (excluding building construction firms) having approximately 3,000,000 employees in December, 43 estab-

lishments reported wage increases affecting 4,045 workers, more than half of whom were metal miners. These increases averaged 8.5 As the Bureau's survey does not cover all establishments in an industry and, furthermore, as some firms may have failed to report wage changes, these figures should not be construed as representing the total number of wage changes occurring in manufacturing and nonmanufacturing industries.

Employment and pay-roll indexes and average weekly earnings for December 1940 are given in table 1 for all manufacturing industries

Table 1.—Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, December 1940

	En	aploym	ent		Pay roll	l	A verage weekly earnings				
Industry	Index		entage from—	Index		entage from—	Aver- age in	Percentage change from-			
	De- cember 1940	No- vem- ber 1940	De- cember 1939	De- cember 1940	No- vein- ber 1940	De- cember 1939	De- cember	No- vem- ber 1940	De- cem- ber 1939		
All manufacturing industries combined 1	(1923-25 = 100) 116, 2	+1.3	+7.8	(1923-25 = 100) 122. 4	+5.2	+16.1	\$27.89	+3. 7	+7.7		
Class I steam railroads 2		-1.8	+1.6	(3) (1929=	(3)	(3)	(3)	(3)	(3)		
Coal mining: Anthracite 4	100) 50.8 90.0	+.9 +.2 4	3 -2.8 +7.3	100) 42.7 91.3 73.3	+13. 4 +8. 1 +4. 9	+60.3 +8.4 +12.8	27. 60 27. 19 31. 71	+12. 4 +7. 9 +5. 4	+60.7 +11.5 +5.1		
Crude-petroleum production	45. 5 60. 9	-3.5 6	+3.4 -4.5	42. 8 55. 8	+1.2 -1.8	+9.4 -5.8	23. 74 33. 70	$^{+4.9}_{-1.2}$	$+5.8 \\ -1.3$		
Public utilities: Telephone and telegraph 5 Electric light and power 5 Street railways and busses 58 Trade:	79. 6 91. 3 68. 4	+. 4 5 3	+5.1 +1.3 9	104. 9 106. 4 73. 2	+1.6 5 +4.2	+7.7 +3.9 +4.9	6 32. 40 6 35. 54 6 34, 92	+1.2 + (7) +4.6	+2.5 +2.5 +5.7		
Wholesale 9	100. 2 103. 2 (3)	+1.0 +11.6 +.3 +.6 -2.6 6 +.1 -1.9 +.4	+. 6 +3. 2 +2. 1 +4. 9 +5. 9 -12. 0 +1. 6 +28. 7	84. 0 96. 4 84. 4 89. 0 75. 8 (3) (3) (3) (3)	+4.0 +10.7 +1.0 +2.0 -2.5 +2.5 +1.0 +5.6 (3)	+6. 1 +5. 0 +4. 1 +6. 4 +8. 5 -11. 4 +2. 8 +34. 4	6 31. 31 6 20. 24 6 15. 85 18. 40 20. 14 6 38. 28 6 36. 75 32. 63 (3)	+2.9 8 $+.6$ $+1.5$ $+(7)$ $+3.1$ $+.9$ $+7.6$ (3)	+5.5 +1.8 +2.0 +1.4 +2.5 +.7 +1.2 +4.3		

¹ Revised indexes—Adjusted to preliminary 1939 Census of Manufactures. See table 9 for comparable

295034-41---2

series back to January 1919.

2 Preliminary—Source: Interstate Commerce Commission.

3 Not available.

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

issue of this pamphlet.

Retail-trade indexes adjusted to 1935 Census and public utility indexes to 1937 Census. Not comparable with indexes published in pamphlets prior to January 1940 or in the Monthly Labor Review prior to April 1940. Revised series available upon request.

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

duties are mainly supervisory.

7 Less than 1/10 of 1 percent.

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

Indexes adjusted to 1933 Census. Comparable series in November 1934 and subsequent issues of pamphlet or February 1935 and subsequent issues of MONTHLY LABOR REVIEW.

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

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

combined, for selected nonmanufacturing industries, for water transportation, and for class I railroads. Percentage changes over the month and year intervals are also given.

Public Employment

Approximately 122,000 additional men were given jobs on construction projects financed from appropriations to regular Federal agencies in the month ending December 15. Efforts to rush completion of army camps resulted in a gain of 151,000 on building construction projects. The number of workers engaged in building naval vessels was increased by 6,000 during the month. Employment decreases on nondefense construction partially offset the gains on building and naval vessel construction, leaving a net gain of 122,000 over November. Pay-roll disbursements of \$82,887,000 to the 753,000 men employed on all types of projects exceeded November payments by \$17,748,000.

Seasonal curtailment of employment to the extent of about 3,000 men occurred on low-rent projects of the United States Housing Authority. Wage payments of \$4,887,000 to the 48,000 building-trades workers employed were \$616,000 less than in November.

Employment on construction projects financed from Public Works Administration funds fell to 25,000 in the month ending December 15, a decrease of 6,000 from the preceding month. Pay rolls of \$2,703,000 were \$911,000 less than in November.

Construction projects financed by the Reconstruction Finance Corporation furnished employment to approximately 1,800 workers in the month ending December 15. This figure represents a slight decrease from the preceding month. Pay-roll disbursements for the month totaled \$177,000.

Work relief projects financed by the Work Projects Administration gave employment to 1,809,000 persons in December, an increase of 63,000 over November. Wage payments of \$100,148,000 were \$9,348,000 greater than in November. The number of persons at work on Federal agency projects financed by the Work Projects Administration declined 7,000 in December, leaving 66,000 persons still employed. Pay-roll disbursements totaled \$3,149,000.

The National Youth Administration increased employment on both the student-work program and the out-of-school work program in December. A gain of 11,000 on the student-work program raised the total to 451,000 and an increase of 65,000 on the out-of-school work program brought the number employed up to 331,000.

The end of an enlistment period resulted in a decline of 35,000 in the number of persons employed in camps of the Civilian Conservation. Corps. Of the 286,000 persons on the pay roll, 251,500 were enrollees; 1,500, educational advisers; 200, nurses; and 32,800, supervisory and technical employees. Pay-roll disbursements totaled \$12,928,000.

In the regular services of the Federal Government employment increases were reported in the executive and military branches, while decreases were reported in the judicial and legislative branches. Of the 1,186,000 employees in the executive service, 156,000 were working in the District of Columbia and 1,030,000 outside the District. Force-account employees (employees on the pay roll of the U.S. Government who are engaged on construction projects, and whose period of employment terminates as the project is completed) were 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 Panama Canal, while decreases were reported in the Department of Agriculture and the Department of the Interior.

Seasonal influences were responsible for a decrease of 37,000 in the number of men working on State-financed road projects. 143,000 on the pay roll, 35,000 were engaged in the construction of

Table 2.—Summary of Employment and Pay Rolls in the Regular Federal Services and on Projects Financed Wholly or Partially from Federal Funds, December 1940 [Preliminary figures]

	•					
	1	Employme	nt		Pay rolls	
Class	Decem- ber 1940	Novem- ber 1940	Percent- age change	Decem- ber 1940	Novem- ber 1940	Percent- age change
Federal Services: Executive 1. Judicial. Legislative. Military. Construction projects: Financed by regular Federal appropriations. U, S. H. A. low-rent housing. Financed by P. W. A.? Financed by P. W. A.? Financed by P. W. A.? Foderal agency projects financed by Work Projects Administration. Projects operated by W. P. A. National Youth Administration: Student work program. Out-of-school program. Civilian Conservation Corps.	1, 185, 558 2, 907 5, 921 884, 094 752, 830 48, 008 24, 676 1, 775 66, 308 1, 808, 595 450, 547 331, 382 285, 731	1, 111, 530 2, 919 5, 932 821, 662 630, 848 50, 806 31, 117 1, 826 73, 306 1, 746, 065 439, 548 266, 759 321, 157	+6.7 4 2 +7.6 +19.3 5.5 -26.1 -2.8 -9.5 +3.6 +2.5 +24.2 -11.0	\$183, 606, 341 681, 361 1, 305, 706 56, 586, 999 82, 886, 826 4, 886, 898 2, 703, 209 176, 660 3, 148, 501 100, 148, 212 3, 107, 372 6, 522, 370 12, 928, 027	\$168, 388, 802 669, 379 1, 294, 629 52, 796, 914 65, 138, 967 5, 502, 764 3, 614, 039 191, 592 3, 474, 911 4 90, 800, 674 3, 067, 736 5, 504, 433 14, 016, 434	+9.0 +1.8 +.9 +7.2 +27.2 -11.2 -7.8 -9.4 +10.3 +1.3 +18.5 -7.8

¹ Includes force-account and supervisory and technical employees shown under other classifications to the extent of 174,238 employees and pay-roll disbursements of \$22,819,794 for December 1940, and 164,277 employees and pay-roll disbursements of \$21,692,218 for November 1940.
² 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 4,034 wage earners and \$398,741 pay roll for December 1940; 4,629 wage earners and \$473,672 pay roll for November 1940, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 19,462 wage earners and \$2,205,877 pay roll for December 1940; 23,979 wage earners and \$2,906,994 pay roll for November 1940, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938. priation Act of 1938.

³ Includes 546 employees and pay-roll disbursements of \$49,081 for December 1940; 606 employees and pay-roll disbursements of \$63,405 for November 1940 on projects financed by the RFC Mortgage Co.

4 Revised.

new roads and 108,000 on maintenance. Pay-roll disbursements of \$10,890,000 were \$1,787,000 less than in November.

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

The value of material orders placed on projects financed from regular Federal appropriations during the fourth quarter of 1940 amounted to \$401,358,000. Approximately 833,000 man-months of labor were involved in the final fabrication of these materials. P. W. A. projects orders were placed for \$13,375,000 worth of materials, for which it is estimated 27,000 man-months of labor were required in final fabrication processes.

The value of material orders placed on the various programs financed by Federal funds during the fourth quarter of 1940, the third quarter of 1940, and the fourth quarter of 1939, and the man-months of employment created in the final fabrication of the materials used are shown in table 3.

Table 3.-Value of Material Orders Placed on Projects Financed Wholly or Partially From Federal Funds and Number of Man-Months of Labor Created

	[Subject to	revision]					
Program	Value of	material ord	Man-months of lat created in final fab cation				
Frogram	Fourth quarter of 1940	Third quarter of 1940	Fourth quarter of 1939	Fourth quarter of 1940		Fourth quarter of 1939	
Public Works Administration 1. U. S. H. A. low-rent housing Reconstruction Finance Corporation 2. Regular Federal appropriations Federal agency projects financed from W. P. A. funds 2. Projects operated by W. P. A. Rentals and services on projects operated by W. P. A.	\$13, 374, 552 21, 276, 497 1, 846, 261 401, 358, 476 1, 841, 371 (4)	\$31, 597, 398 23, 636, 679 1, 010, 378 221, 671, 123 1, 759, 319 83, 049, 180 61, 488, 716	\$110, 913, 497 16, 891, 497 2, 071, 189 134, 126, 867 3, 302, 237 79, 897, 219 58, 664, 517	27, 222 49, 437 3, 395 832, 979 3, 835 (4)	65, 710 53, 922 1, 980 417, 217 3, 481 182, 135	246, 106 39, 586 4, 222 255, 933 6, 779 173, 356 (4)	

¹ Data covering projects financed from E. R. A. A. 1935, 1936, 1937, and P. W. A. A. 1938 funds are included. These data are not shown under projects financed from W. P. A. funds. Includes low-rent housing projects financed from funds of N. I. R. A. and E. R. A. A. 1935.

² Includes RFC Mortgage Co.

³ Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A. 1938, and sec. 11-A, E. R. A. A. 1939.

⁴ Data not available.

DETAILED TABLES FOR DECEMBER 1940

Estimates of Nonagricultural Employment

THE estimates of "Total nonagricultural employment," given on the first line of table 4, represent the total number of persons engaged in gainful work in the United States in nonagricultural industries, excluding military and naval personnel, persons employed on W. P. A. or N. Y. A. projects, and enrollees in C. C. C. camps. described as "Employees in nonagricultural establishments" also

excludes proprietors and firm members, self-employed persons, casual workers, and persons in domestic service. The estimates for "Employees in nonagricultural establishments" are shown separately for each of seven major industry groups. Tables giving figures for each group, by months, for the period from January 1929 to date are available on request.

Table 4.—Estimates of Total Nonagricultural Employment, by Major Groups [In thousands]

	December 1940 (preliminary)	Novem- ber 1940	Change Novem- ber to Decem- ber 1940	Decem- ber 1939	Change Decem- ber 1939 to Decem- ber 1940
Total nonagricultural employment 1.	37, 168	36, 628	+540	35, 641	+1.527
Employees in nonagricultural establishments 2 Manufacturing Mining Construction Transportation and public utilities Trade Finance, service, and miscellaneous Federal, State, and local Government:	31, 025	30, 485	+540	29, 498	+1, 527
	10, 552	10, 434	+118	9, 908	+644
	851	853	-2	866	-15
	1, 627	1, 654	-27	1, 178	+449
	3, 031	3, 065	-34	2, 976	+55
	6, 862	6, 433	+429	6, 687	+175
	4, 178	4, 167	+11	4, 125	+53
Civil employees	3, 924	3, 879	+45	$3,758 \\ 422$	+166
Military and naval forces 3	884	822	+62		+465

¹ Revised series—Excludes military and naval forces. Also excludes employees on W. P. A. and N. Y. A. projects, as well as enrollees in C. C. C. camps. Includes proprietors, firm members, self-employed persons, casual workers, and domestic servants.
² Excludes all of the groups omitted from "total nonagricultural employment" as well as proprietors, firm members, self-employed persons, casual workers, and domestic servants.
² Not included in totals shown above. Includes members of the National Guard inducted into the Federal service by act of Congress

The figures represent the number of persons working at any time during the week ending nearest the middle of each month. totals for the United States have been adjusted to conform to the figures shown by the 1930 Census of Occupations for the number of nonagricultural "gainful workers" less the number shown to have been unemployed for 1 week or more at the time of the census. estimates for "employees in nonagricultural establishments" are shown in table 5 for each of the 48 States and the District of Columbia for November and December 1940 and December 1939. Tables showing monthly figures for each State from January 1938 to date are available on request. Because the State figures do not include employees on merchant vessels, and because of certain adjustments in the United States estimates which have not been made on a State basis, the total of the State estimates will not agree exactly with the figure for the United States as a whole.

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

service by act of Congress.

from other sources, and in some industries they have provided the most reliable information available.

Table 5.—Estimated Number of Employees in Nonagricultural Establishments, by States

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

[In thousands]

		[III DIOI					
Geographic division and State	Decem- ber 1940 (prelim-	Novem- ber 1940	Novemb	ange er to De- er 1940	Decem- ber 1939	Decemb	ange er 1939 to ber 1940
	inary)	Del 1940	Number	Percent- age	Del 1939	Number	Percent- age
New England Maine New Hampsbire Vermont Massachusetts Rhode Island Connecticut	2, 694 188 131 77 1, 415 248 635	2 639 185 128 77 1, 383 245 621	+55 +3 +3 0 +32 +3 +14	+2.0 +1.2 +2.5 -1.0 +2.4 +.9 +2.2	2, 515 185 126 75 1, 321 235 573	+179 +3 +5 +2 +94 +13 +62	+7.1 +1.2 +4.6 +2.5 +7.1 +5.3 +10.8
Middle Atlantic	8, 014 3, 966 1, 235 2, 813	7, 893 3, 915 1, 214 2, 764	+121 +51 +21 +49	+1.5 +1.3 +1.7 +1.8	7,749 3,899 1,141 2,709	+265 +67 +94 +104	+3.4 +1.7 +8.2 +3.8
East North Central Ohio Indiana Illinois Michigan Wisconsin	7, 185 1, 855 833 2, 344 1, 500 653	7, 058 1, 823 815 2, 292 1, 483 645	+127 +32 +18 +52 +17 +8	+1.8 +1.8 +2.2 +2.3 +1.1 +1.2	6,771 1,770 781 2,216 1,383 621	+414 +85 +52 +128 +117 +32	+6.1 +4.8 +6.7 +5.8 +8.4 +5.1
West North Central Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	2, 407 533 409 789 78 84 206 308	2, 377 532 403 773 78 85 202 304	+30 $+1$ $+6$ $+16$ 0 -1 $+4$ $+4$	$\begin{array}{c c} +1.2 \\ +.1 \\ +1.5 \\ +2.1 \\ +.9 \\ -1.1 \\ +1.8 \\ +1.2 \end{array}$	2, 332 519 398 772 74 81 198 290	+75 +14 +11 +17 +4 +3 +8 +18	+3.2 +2.7 +2.7 +2.3 +5.4 +4.7 +3.9 +6.2
South Atlantic Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	3, 705 71 543 369 520 379 606 302 503 412	3, 639 71 533 361 515 376 605 294 487 397	+66 0 +10 +8 +5 +3 +1 +8 +16 +15	+1.8 +.9 +1.8 +2.2 +1.0 +.9 +.3 +2.9 +3.1 +3.6	3, 467 67 499 331 484 380 595 276 469 366	+238 +4 +44 +38 +36 -1 +11 +26 +34 +46	+6.8 +5.9 +8.7 +11.5 +7.5 -1.2 +1.9 +9.3 +7.0 +12.5
East South Central Kentucky Tennessee Alabama Mississippi	1, 439 377 466 392 204	1, 409 364 460 384 201	+30 +13 +6 +8 +3	+2.1 +3.4 +1.3 +2.0 +1.8	1, 360 370 444 364 182	+79 +7 +22 +28 +22	+5.8 +1.8 +5.1 +7.6 +11.9
West South Central Arkansas Louisiana Oklahoma Texas	1, 942 185 424 301 1, 032	1, 908 185 415 297 1, 011	+34 0 +9 +4 +21	+1.8 (1) $+2.1$ $+1.4$ $+2.1$	1, 833 179 380 294 980	+109 +6 +44 +7 +52	+5.9 +3.3 +11.4 +2.3 +5.3
Mountain Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	779 113 86 52 224 70 90 112 32	775 113 85 52 224 69 90 109 33	+4 0 $+1$ 0 0 $+1$ 0 $+3$ -1	+. 6 (1) +1.3 +.4 4 +.9 +.2 +3.2 9	755 111 85 50 218 67 88 106 30	+24 $+2$ $+1$ $+2$ $+6$ $+3$ $+2$ $+6$ $+2$	+3. 2 +1. 8 +1. 6 +4. 3 +2. 4 +3. 7 +2. 8 +5. 6 +8. 3
Pacific	2, 494 438 229 1, 827	2,440 432 229 1,779	+54 +6 0 +48	$\begin{array}{c} +2.2 \\ +1.4 \\ +.1 \\ +2.7 \end{array}$	2,324 408 222 1,694	+170 +30 +7 +133	+7.3 +7.3 +3.4 +7.8

¹ Less than 0.1 per cent.

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 are based on the 3-year average 1923–25 as 100 and are 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 for August 1940, and for all manufacturing industries combined, the durable-goods group, and the nondurable-goods group, which have been adjusted to preliminary 1939 census figures. They relate to wage earners only and are computed from reports supplied by representative manufacturing establishments in 90 of the 157 manufacturing industries surveyed. These reports cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 industries covered.

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.

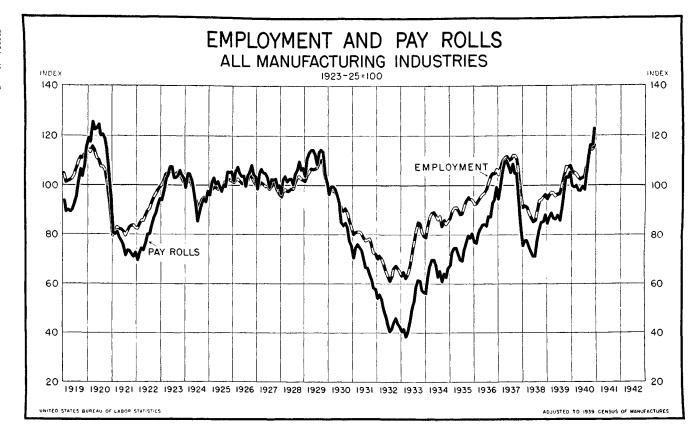
The average weekly earnings shown in tables 6 and 7 are computed by dividing the total weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. not all reporting establishments supply man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a smaller number of reporting firms. The size and composition of the reporting sample vary slightly from month Therefore, the average hours per week, average hourly earnings, and average weekly earnings shown may not be strictly The sample, however, is believed comparable from month to month. to be sufficiently adequate in virtually all instances to indicate the general movement of earnings and hours over the period shown. changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from December 1939 are computed from chain indexes based on the month-to-month percentage changes.

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

The indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in December 1940 are shown in table 6. Percentage changes from November 1940 and December 1939 are also given.

The employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for October, November, and December, 1940, where available, are presented in table 7. The October and November figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports.

In table 8 indexes of employment and pay rolls are given for all manufacturing industries combined, for the durable- and non-durable-goods groups of manufacturing industries, and for each of 13 nonmanufacturing industries, by months, from December 1939 to December 1940, 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. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to December 1940.



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

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

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

It should be pointed out that the characteristics of the Bureau's average hourly earnings figures, as described above, make it desirable to use these averages for other than their designed purpose with a certain degree of caution. The purpose for which they were compiled limits their usefulness, especially in July and August, as a measure of change in labor rates. In these months the averages show a seasonal movement unrelated to rates of pay. For example, the average hourly earnings figure in the durable goods industries dropped from 73.2 cents in June to 72.7 cents in July. This drop was due not to a general decline in wages in this period but almost entirely to the fact that em-

Reprint from the August EMPLOYMENT AND PAY ROLLS pamphlet.

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

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

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

Table 6.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1940 MANUFACTURING

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

i	Eı	nployme	ent	Pay rolls			Average weekly earnings ¹				e hours er week		Average hourly earn- ings 1			
Industry	Index	Percentage change from—		Index			ge m— Decem-		ntage from—	Decem-	Percentage change from		Decem-	Percentage change from—		
	Decem- ber 1940	Novem- ber 1940	December 1939	Decem- ber 1940	Novem- ber 1940	December 1939	ber	Novem- ber 1940	Decem- ber 1939	ber 1940	Novem- ber 1940	December 1939	ber 1940		December 1939	
All manufacturing 2	116. 2	+1.3	+7.8	122. 4	+5. 3	+16.1	\$27. 89	+3.7	+7.7	39. 8	+3.1	+3.1	Cents 68. 3	+0.8	+3.9	
Durable goods ² Nondurable goods ²	117. 6 114. 8	+1.8 +.8	+14.4 +2.0	131. 6 112. 1	+5.2 +5.2	+24. 4 +6. 8	31, 96 23, 09	+3.3 +4.3	+8.7 +4.6	41. 2 38. 4	+2.6 +3.6	+4.5 +1.5	74. 9 61. 7	+.8 +.7	+3.8 +2.9	ŀ
Durable goods							i					<u> </u>				
Iron and steel and their products, not including machinery. Blast furnaces, steel works, and rolling mills. Bolts, nuts, washers, and rivets. Cast-iron pipe.	121. 6 129. 5 134. 7 87. 4	+1.9 +1.7 +5.1 +1.3	+9.2 +5.1 +12.5 +12.8	133. 2 142. 1 178. 0 97. 1	+5.7 +5.5 +10.2 +8.9	+15.5 +10.0 +25.2 +35.3	32. 18 34. 65 31. 82 26. 29	+3.7 +3.8 +4.8 +7.5	+5.8 +4.8 +10.2 +19.9	41. 0 40. 4 44. 4 42. 8	+3.4 +3.2 +4.7 +5.8	+4.1 +3.4 +5.2 +14.6	78. 0 85. 8 71. 7 61. 2	+.3 +.3 +.1 +1.7	+1.8 +1.2 +4.7 +5.1	
Cutlery (not including silver and plated cutlery) and edge tools. Forgings, iron and steel. Hardware. Plumbers' supplies Stamped and enameled ware. Steam and hot-water heating apparatus and		-2, 1 +6, 1 +3, 2 +2, 5 +3, 2	+1. 4 +21. 8 +6. 6 +14. 9 +18. 4	115. 2 118. 8 128. 4 93. 1 227. 9	+6.4 +11.9 +5.0 +5.6 +8.1	+13. 1 +34. 8 +9. 7 +19. 9 +31. 2	27, 21 36, 28 28, 03 28, 04 27, 26	+8.7 +5.5 +1.7 +3.0 +4.8	+11.6 +10.7 +3.0 +4.3 +10.7	42. 4 44. 7 41. 2 39. 8 40. 8	+4.8 +5.4 +2.2 +2.2 +5.3	+2.0 +6.0 +2.0 7 +5.2	65. 5 81. 7 68. 1 70. 4 66. 0	+3. 2 -(3) 5 +. 8 2	+9.8 +4.4 +1.0 +4.8 +5.4	
Stoves Structural and ornamental metalwork Tin cans and other tinware	102.6 103.1 90.4 98.9	+.4 -1.5 +4.5 -1.2	+19.1 +15.4 +19.9 +3.7	107. 8 98. 8 86. 0 113. 2	+1.6 4 +9.4 +8.7	+35.0 +25.9 +28.1 +12.8	31. 83 27. 57 30. 80 25. 59	+1.1 +1.1 +4.7 +10.1	+13.3 +9.2 +6.9 +8.7	43. 0 40. 4 41. 6 40. 5	+1.7 +1.3 +3.5 +10.1	+9.6 +5.5 +5.5 +4.3	72. 3 68. 2 74. 3 63. 5	5 +(3) +1.2 +.4	+3.7 +3.1 +1.4 +4.0	
Tools (not including edge tools, machine tools, files, and saws) Wirework*	116. 5 206. 8	+4.4 +1.6		136. 1 242. 0	+9.8 +3.0	+33.4 +18.4	29. 24 28. 68	+5.1 +1.3	+11.0 +1.0	45. 4 41. 1	+3.8 +1.2	+5.0 4	65. 0 69. 8	+1.1 +.1	+5.4 +1.2	

_	
V	

Machinery, not including transportation equipment. Agricultural implements (including tractors) Cash registers, adding machines, and calcu-	135. 9 143. 2	+3.7 +4.9	+20.2 +9.4	162. 8 171. 3	+9.0 +6.8	+33.3 +13.1	33. 13 31. 87	+5.2 +1.9	+10.9	43. 6 39. 5	+3.9 +1.4	+5.7 +.7	76. 1 81. 0	+1.2	$^{+4.3}_{+2.5}$
lating machines. Electrical machinery, apparatus, and supplies. Engines, turbines, water wheels, and wind-	134. 7 125. 6	+.8 +4.2	+5.2 +22.5	147. 8 157. 5	+2.7 +8.6	+12.3 +37.9	34. 15 32. 62	+1.8 +4.2	+6.7 +12.6	41. 1 43. 0	+1.5 +2.9	+4.9 +7.3	84. 1 76. 6	+.3 +1.2	+2.3 +4.9
mills Foundry and machine-shop products Machine tools Radios and phonographs Textile machinery and parts Typewriters and parts	210, 4 114, 1 276, 0 158, 0 86, 1 132, 2	+5.3 +3.7 +3.8 9 +4.1 +1.1	+75.7 +17.4 +43.6 -2.7 +.5 +3.8	303. 5 126. 6 394. 2 162. 9 90. 6 147. 3	+11. 1 +10. 3 +10. 9 +4. 7 +13. 2 -11. 3	+93.8 $+28.4$ $+53.9$ $+9.5$ $+5.8$ $+21.2$	38. 17 32. 85 39. 56 25. 49 28. 94 27. 31	+5.5 +6.3 +6.9 +5.6 +8.7 -12.2	+10. 4 +9. 2 +7. 2 +12. 5 +5. 3 +16. 7	45. 4 43. 6 50. 6 40. 5 42. 8 41. 7	+5.1 +5.0 +5.2 +3.1 +7.3 -8.4	+5. 5 +4. 9 +5. 2 +4. 4 +2. 9 +14. 4	83. 6 75. 5 78. 1 63. 0 67. 8 65. 4	+.3 +1.4 +1.6 +2.4 +1.4 -4.3	+4. 2 +3. 9 +1. 8 +8. 1 +2. 3 +1. 9
Transportation equipment Aircraft 4 Automobiles Cars, electric- and steam-railroad Locomotives Shipbuilding	149. 2 4, 686. 3 129. 3 66. 0 45. 7 221. 3	+2. 2 +6. 4 1 +7. 1 +8. 3 +8. 4	$ \begin{array}{r} +26.9 \\ +123.2 \\ +9.4 \\ +26.6 \\ +63.2 \\ +58.7 \end{array} $	168. 9 5, 257. 0 144. 8 62. 3 50. 1 290. 1	+1.7 $+4.9$ -3.8 $+16.0$ $+15.0$ $+21.4$	+34.7 +156.9 +13.2 +33.1 +82.5 +90.8	35. 96 32. 45 36. 54 29. 67 33. 55 39. 11	-, 5 -1, 5 -3, 7 +8, 3 +6, 1 +12, 0	+6.2 +10.6 +3.5 +5.1 +11.8 +20.3	40. 2 44. 6 38. 5 39. 2 41. 9 42. 8	2 +.5 -3.4 +4.7 +4.9 +11.4	+5.1 +5.6 +1.2 +1.3 +8.5 +13.0	90. 0 75. 4 95. 0 75. 1 80. 0 90. 3	1 3 +2.8 +1.2 +1.4	+1.4 +2.8 +2.2 +3.2 +3.0 +6.4
Nonferrous metals and their products	131. 1 208. 6 168. 1 106. 1 104. 4 110. 2 78. 6 96. 6	+. 9 5 +3. 5 6 -5. 6 +. 3 -1. 1 +1. 9	+16. 1 +22. 4 +22. 0 +14. 0 +5. 8 +12. 4 +2. 5 +11. 1	149. 6 264. 0 219. 3 119. 6 97. 3 102. 0 85. 2 102. 6	+5.6 +1.9 +8.8 -1.8 +3.2 +1.9 +4.8 +7.1	+28. 4 +34. 1 +38. 0 +23. 3 +12. 6 +20. 4 +11. 9 +16. 8	31. 63 30. 90 35. 74 25. 15 25. 75 28. 92 31. 20 29. 92	+4.7 +2.4 +5.1 -1.2 +9.3 +1.6 +6.0 +5.1	+10.6 +9.6 +13.1 +8.3 +6.3 +7.3 +9.2 +5.1	42. 7 42. 0 44. 5 40. 8 41. 4 40. 7 46. 3 40. 1	+3.1 +1.6 +4.3 -2.0 +5.0 9 +4.9 +4.0	+4.8 +4.1 +5.6 +5.1 +5.6 +3.1 +5.2 +1.0	73. 8 73. 5 80. 5 61. 1 61. 6 71. 3 68. 0 74. 6	+1.6 +.9 +.8 +.8 +4.5 +2.5 +1.1 +1.1	+5.6 $+5.5$ $+6.8$ $+3.1$ $+1.7$ $+3.8$ $+4.9$ $+4.2$
Lumber and allied products Furniture Lumber:	73. 7 97. 4	9 +.4	+3. 7 +2. 7	71. 5 92. 6	+. 8 +2. 5	+9.7 +8.4	21. 06 22. 64	+1.8 +2.1	+5.8 +5.5	39. 5 41. 0	+1.3 +1.8	+2.2 +2.0	52. 8 55, 5	+.4	+3.4 +3.6
Millwork Sawmills	71, 5 64, 7	+. 4 -2. 1	+12. 4 +2. 1	59. 7 60. 4	+2.6 9	+14.9 +9.0	23. 01 19. 29	+2.3 +1.2	+2.1 +6.5	41. 7 38. 0	+1.3 +.8	9 +2. 7	55. 3 50. 7	+. 9 +. 4	+2.9 +3.6
Stone, clay, and glass products Brick, tile, and terra cotta Cement Glass Marble, granite, slate, and other products Pottery	88. 9 65. 8 71. 7 116. 8 45. 1 105. 6	0 +. 6 -3. 0 2 -2. 6 +3. 1	+6.3 +5.2 +8.0 +7.6 -7.0 +11.3	85. 8 57. 2 72. 4 137. 6 33. 3 101. 3	+4.4 +5.3 7 +5.2 +4.6 +5.1	+12.3 +11.0 +14.4 +15.8 -4.3 +12.4	26. 25 22. 52 28. 88 28. 77 25. 72 24. 47	+4.3 +4.7 +2.4 +5.4 +7.3 +2.0	+5.6 +5.4 +6.0 +7.7 +3.0 +1.0	38. 2 38. 5 40. 5 37. 7 36. 5 38. 1	+3. 0 +3. 4 +2. 4 +3. 1 +7. 0 +1. 3	+2.5 +2.9 +4.5 +3.9 +1.0 -2.0	68. 0 58. 2 71. 2 76. 4 71. 1 63. 8	+1.2 +1.3 -(3) +2.2 +.3 +.4	+2.8 +2.1 +1.4 +3.6 +1.2 +4.3

See footnotes at end of table.

Table 6.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1940—Continued MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100. For "all manufacturing," "durable goods," and "nondurable goods," they have been adjusted to preliminary 1939 census figures.

The indexes for all other manufacturing groups and industries except "automobiles" have been adjusted to 1937 census figures and are not comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]

	Employment				Pay rolls			erage wee earnings			e hours per week		Avera	Average hourly earn- ings		
Industry	Index Decem-	Percentage change from—		Index			Decem-	Percentage change from—		Decem-	Percentage change from—		Decem-	change	ntage from—	
	ber 1940	Novem- ber 1940	Decem- ber 1939	Decem- ber 1940	Novem- ber 1940	December 1939	ber 1940	Novem- ber 1940	December 1939	ber 1940	Novem- ber 1940	Decem- ber 1939	ber 1940	Novem- ber 1940	Decem- ber 1939	
Nondurable goods	107. 0	+1.4	1.1 0	97. 6	+5.7	+6.6	18.46	±4.0	+5.2	36.7	⊥9. 5	.10	Cents 50.7	100	194	
Textiles and their products. Fabrics. Carpets and rugs. Cotton goods. Cotton small wares. Dyeing and finishing textiles. Hats, fur-felt. Hosiery. Knitted outerwear. Knitted underwear. Knitted cloth. Silk and rayon goods. Woolen and worsted goods.	100. 4 82. 4 100. 5 89. 6 134. 3 83. 9 146. 2 71. 4 77. 4 147. 5 65. 3 100. 9	+1.7 +.9 +2.4 +2.7 +1.8 +2.4 +.9 -2.5 +1.2 -1.6 +.2 +2.2	+1.3 +1.9 -2.4 +3.8 -1.5 +.9 -8.1 +10.2 -1.9 +2.4 -13.2 +10.6	95. 6 76. 2 98. 0 91. 5 121. 2 81. 5 160. 4 61. 5 74. 2 129. 8 54. 4 96. 3	+5.2 +4.3 +6.2 +5.0 +6.8 +12.2 -(3) -3.2 +2.4 +.3 +4.3 +8.3	+6.8 +.6 +7.1 +4.8 +4.2 -8.1 +.9 +23.2 +2.5 +11.5 -10.0 +22.8	18. 28 25. 64 15. 70 19. 87 22. 11 26. 78 19. 57 17. 89 16. 14 19. 64 17. 13 22. 15	+4.2 +3.4 +3.6 +2.3 +4.9 +9.6 8 +1.2 +1.9 +4.1	+4.7 +3.1 +3.2 +6.3 +3.3 +1.8 +2.2 +11.8 +4.8 +9.1 +1.1	37. 9 37. 9 38. 0 39. 9 40. 3 35. 6 35. 7 36. 4 36. 6 39. 3 37. 3 38. 9	+3.5 +3.0 +3.7 +2.8 +4.7 +6.6 -1.2 +1.1 +3.6 +5.8	+1.9 +2.1 +1.7 +1.4 +2.5 +2.7 -2.9 +1.0 +7.1 2 +7.0 +1.9	48. 8 67. 6 41. 3 49. 8 54. 7 74. 7 54. 9 48. 2 44. 1 50. 0 45. 8 56. 9	+0.6 +.4 47 +.6 +2.6 +2.6 +.2 +.8 +.5 +.8	+2.4 +2.5 +2.3 +1.7 +3.7 +1.1 +4.1 +7 +3.8 +4.9 +2.1 +1.7 +5.9	
Wearing apparel. Clothing, men's. Clothing, women's. Corsets and allied garments. Men's furnishings. Millinery. Shirts and collars.	117. 3 108. 1 164. 5 112. 8 123. 9 60. 8 122. 1	+.9 +3.2 6 4 -3.5 2 +1.2	+.3 +2.8 -(3) -2.8 -3.9 -8.0 3	95. 6 86. 2 125. 7 122. 6 133. 9 41. 5 115. 0	+6.7 +12.8 +5.0 +1.2 -4.6 +1.4 +1.9	+6.0 +7.5 +7.1 +2.9 +6.3 -10.9 +3.6	18. 98 20. 31 20. 05 18. 23 16. 47 20. 39 14. 75	+5.8 +9.3 +5.7 +1.6 -1.1 +1.6 +.7	+5.6 +4.6 +7.1 +5.7 +10.8 -3.1 +4.0	34. 3 33. 5 34. 7 37. 3 36. 5 29. 7 35. 0	+4.3 +8.1 +3.3 +3.3 -1.4 +3.9 +1.0	+1.5 +.7 +3.0 +3.4 +6.1 -9.3 5	54. 4 60. 3 53. 9 48. 5 43. 0 63. 6 41. 9	$\begin{array}{c c} +.9 \\ +.6 \\ +1.6 \\ +.1 \\ +(3) \\ -3.7 \\ +1.0 \end{array}$	+2.2 +1.9 +1.6 +3.2 +6.7 +3.3 +3.6	
Leather and its manufactures Boots and shoes Leather		+4.1 +4.6 +2.3	-2.8 -3.1 -1.4	78. 5 73. 2 89. 5	+14.6 +17.0 +8.1	+4.1 +4.2 +3.5	20. 45 19. 07 26. 16	+10.0 +12.0 +5.7	+7.0 +7.6 +4.9	37. 1 36. 4 39. 9	+10.9 +12.5 +5.8	+3. 3 +3. 4 +2. 6	55. 8 53. 3 65. 9	3 3 +.3	+4.7 +5.3 +2.2	

Food and kindred products Baking. Beverages. Butter. Caming and preserving. Confectionery. Flour. Ice cream. Slaughtering and meat packing. Sugar, beet Sugar refining, cane.	130. 4 144. 1 260. 2 94. 5 103. 3 100. 5 77. 8 69. 3 125. 0 235. 8 94. 2	-1.6 -1.0 -1.1 -4.9 -16.1 -1.9 -1.6 -2.3 +7.5 -14.9 +.7	+3. 5 5 2 +2. 1 +1. 9 +4. 7 -1. 2 +1. 9 +11. 5 +22. 9 -1. 1	132. 4 137. 7 299. 4 83. 8 92. 7 103. 0 72. 8 60. 9 137. 3 265. 1 85. 1	+2.8 4 -1.0 +1.9 -7.8 +2.9 +.7 2 +15.5 -8.0 +1.6	+6.4 +2.8 +7.3 +3.8 +3.2 +8 +6.3 +13.0 +52.8 +12.2	25. 78 26. 39 33. 60 23. 32 17. 09 19. 86 25. 12 30. 15 28. 77 29. 07 25. 58	+4.4 +.6 +.1 +7.1 +9.9 +4.9 +2.3 +2.2 +7.4 +8.1 +.9	+2.8 +3.4 +4.8 +2.1 -1.4 +2.0 +4.2 +1.3 +24.2 +13.5	40. 6 41. 0 38. 0 46. 6 34. 4 40. 2 40. 7 44. 7 42. 3 53. 2 38. 9	+3.4 +.3 +.6 +5.2 +3.4 +3.3 +1.5 +2.3 +8.5 +7.3 -1.6	+.3 +1.3 -1.8 +3.6 -4.1 -3.6 +.6 1 +.5 +18.8 +7.3	64. 1 64. 4 88. 7 49. 8 51. 0 49. 8 60. 8 65. 8 68. 0 56. 2 65. 8	+1. 5 +. 5 6 +1. 8 +6. 9 +. 5 1 +(3) 8 +2. 1 +2. 5	+2. 1 +2. 5 +2. 0 +2. 5 +2. 9 +. 5 +. 8 +2. 6 +6. 3 +5. 7
Tobacco manufactures	65. 6 57. 4 66. 6	$ \begin{array}{r} -1.8 \\ +3.0 \\ -2.2 \end{array} $	3 5. 6 +. 5	67. 4 69. 8 67. 0	+1.5 +5.0 +1.2	+8. 2 +3. 8 +8. 8	18. 70 19. 60 18. 53	+3.3 +1.9 +3.5	+8.4 +10.2 +8.3	38. 1 37. 0 38. 2	+2.5 +5.7 +2.2	+6.9 +8.4 +6.6	49. 0 53. 5 48. 5	+.9 -2.5 +1.3	$^{+1.7}_{+2.1}$ $^{+2.1}_{+2.0}$
Paper and printing Boxes, paper Paper and pulp Printing and publishing:	119. 9 125. 2 115. 9	+1.2 7 +.2	+1.2 +.2 +.7	120. 7 145. 3 128. 5	+4.6 +.9 +3.8	+3.3 +6.1 +4.8	30. 37 23. 20 27. 30	+3.4 +1.6 +3.6	+2.1 +5.8 +4.1	39. 3 41. 2 41. 3	+2.7 +1.6 +2.7	4 +2.5 -1.6	79. 9 56. 7 66. 0	+.9 +.3 +.8	+3.8 +3.5 +5.7
Book and job	105.3 121.1	+2.7 +1.5	+1. 2 +2. 0	97. 9 116. 0	+8.7 +3.2	+4.0 +.9	32. 28 38. 38	+5.8 +1.7	+2.9 -1.1	39. 9 35. 9	+4.4 +1.8	+(3) -2.3	81.3 103.8	+.7 +.8	$^{+2.4}_{+2.0}$
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.	125 5. 119.8 126.9 149.9 123.5 115.7 146.7 95.0 126.2 315.1 84.8	+.2 8 +.4 +1.3 -2.7 3 +3.1 +.2 +.3	+2.6 -2.1 +3.8 +9.0 +7.4 -2.6 +36.0 -7.0 +1.6 +.9 3	144. 0 139. 0 145. 5 187. 9 121. 7 130. 5 196. 0 80. 9 138. 9 334. 4 106. 3	+3.2 +4.2 +2.8 +3.4 +(3) 3 +5.1 +4.9 +2.3 +.9 +6.1	+7.9 +1.0 +10.2 +15.7 +10.4 -1.3 +52.3 -1.5 +6.5 +6.5 +4.1	30. 90 36. 00 28. 92 33. 33 15. 94 25. 56 36. 84 15. 47 30. 18 27. 15 29. 54	+3.1 +5.0 +2.5 +2.1 +2.9 +.1 +5.4 +1.1 +2.2 +.7 +5.8	+5.1 +3.3 +6.3 +6.2 +2.8 +1.2 +11.9 +5.1 +4.7 +5.5 +5.2	39. 6 37. 3 40. 4 40. 8 46. 5 39. 5 40. 9 35. 4 40. 8 39. 1 40. 3	+2.3 +4.9 +1.5 +1.1 +3.3 2 +3.6 +4.5 +1.6 +.1 +3.6	+2.1 +2.1 +2.0 +1.6 +.9 -2.3 +4.6 +3.6 +1.7 +1.2 +1.5	76. 6 96. 8 70. 1 81. 6 33. 1 61. 2 89. 3 43. 7 73. 7 69. 4 73. 3	+.5 +(3) +.8 +1.0 +.3 +.2 +1.7 -3.2 +1.7 +.6 +2.1	+3.3 +1.0 +4.9 +4.7 +1.2 +4.1 +7.1 +1.4 +3.2 +4.2 +3.6
Rubber products	97. 5 66. 9 76. 9 166. 6	+3.3 +9.7 +2.3 +2.3	+4.8 +6.1 +2.9 +6.5	111. 1 81. 3 96. 4 173. 9	+8,9 +23.7 +7.4 +6.8	+10.5 +23.8 +7.2 +11.9	\$1. 13 27. 92 36. 59 25. 39	+5.4 +12.8 +5.1 +4.5	+5.4 +16.7 +4.3 +5.1	39. 7 43. 9 37. 8 40. 4	+4.7 +9.3 +4.5 +3.4	+4.0 +12.1 +4.0 +1.4	78. 4 63. 6 97. 1 63. 4	+.7 +3.1 +.4 +.9	+1. 3 +4. 2 +. 3 +3. 5

See footnotes at end of table.

Table 6.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1940—Continued NONMANUFACTURING

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

	E	mployme	nt		Pay roll	s	Av	erage wee			ge hours per week		Avera	ge hourl ings	y earn-
Industry	Index Decem-	Perce change		Index Decem-	change	entage from—	Index Decem-	change	ntage from—	Index Decem-		ntage from—	Index Decem-		entage from—
	ber 1940	Novem- ber 1940	December 1939	how	Novem- ber 1940	December 1939	ber 1940	Novem- ber 1940	December 1939	ber 1940	Novem- ber 1940	Decem- ber 1939	how.	Novem- ber 1940	Decem- ber 1939
Coal mining: Anthracite 5 6 Bituminous 5 Metalliferous mining Quarrying and nonmetallic mining Crude-petroleum production Public utilities: Telephone and telegraph 7 8 Electric light and power 7 8 Street railways and busses 7 8 9 Trade:	60.9	+0.9 +.2 4 -3.5 6 +.4 5 3	-0.3 -2.8 +7.3 +3.4 -4.5 +5.1 +1.3 9	42. 7 91. 3 73. 3 42. 8 55. 8 104. 9 106. 4 73. 2	+13.4 +8.1 +4.9 +1.2 -1.8 +1.6 5 +4.2	+60.3 +8.4 +12.8 +9.4 -5.8 +7.7 +3.9 +4.9	\$27, 60 27, 19 31, 71 23, 74 33, 70 32, 40 35, 54 34, 92	+12.4 +7.9 +5.4 +4.9 -1.2 +1.2 +(3) +4.6	+60.7 +11.5 +5.1 +5.8 -1.3 +2.5 +2.5 +5.7	29. 7 31. 0 42. 5 40. 6 36. 7 39. 8 39. 2 47. 4	+13.4 +8.3 +4.4 +4.5 -2.8 1 -1.5 +4.3	+57. 4 +11. 7 +2. 3 +2. 2 -3. 4 +1. 2 -1. 5 +4. 5	Cents 92.0 89.0 74.9 59.0 89.6 81.8 90.8 73.1	-0.6 +.1 +.8 +1.0 +1.6 +1.3 +1.7 +.7	+1.0 +.2 +2.8 +3.5 +2.1 +1.3 +4.2 +2.4
Wholesale 7 to Retail 7 8 Food 8 General merchandising 7 8 Apparel 8 Furniture 8 Automotive 8 Lumber 8	92. 7 107. 5 105. 8 151. 3 102. 5 81. 8 86. 8 76. 0	+1.0 +11.6 +1.1 +35.8 +12.0 +5.1 +1.0 -1.8	+.6 +3.2 2 +3.3 +2.4 -1.4 +6.1 +3.5	84. 0 96. 4 97. 9 131. 0 92. 7 75. 1 84. 2 72. 5	+4.0 +10.7 +1.2 +34.4 +11.7 +7.1 +2.3 +.7	+6.1 +5.0 +1.5 +4.1 +3.6 1 +10.4 +4.8	31. 31 20. 24 23. 76 17. 16 20. 91 28. 83 29. 30 26. 65	+2.9 8 +.1 -1.0 3 +1.9 +1.3 +2.6	+5.5 +1.8 +1.6 +.8 +1.1 +1.3 +4.0 +1.2	41. 6 43. 0 43. 4 39. 9 38. 9 44. 9 47. 4 42. 5	+2.1 +1.6 +.7 +4.8 +2.3 +2.0 +1.4 +2.5	+.2 (11) (11) (11) (11) (11) (11) (11) (11	75. 2 52. 1 52. 5 42. 8 54. 1 67. 9 62. 4 63. 4	+.7 -3.0 5 -5.2 -2.3 -1.2 1 +.1	+5. 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

Hotels (year-round) ^{6 7 12} Laundries ⁵ Dyeing and cleaning ⁵ Brokerage ⁷ Insurance ⁷ Building construction	92. 7 100. 2 103. 2 (11) (11) (11)	$ \begin{vmatrix} +.3 \\ +.6 \\ -2.6 \\6 \\6 \\ +.1 \\ -1.9 \end{vmatrix} + \begin{vmatrix} +2.1 \\ +4.9 \\ -12.0 \\ +1.6 \\ +28.7 \end{vmatrix} $	10.0	+1.0 +2.0 -2.5 +2.5 +1.0 +5.6	$\begin{array}{c} +4.1 \\ +6.4 \\ +8.5 \\ -11.4 \\ +2.8 \\ +34.4 \end{array}$	15. 85 18. 40 20. 14 38. 28 36. 75 32. 63	$\begin{array}{c c} +.6 \\ +1.5 \\ +(3) \\ +3.1 \\ +.9 \\ +7.6 \end{array}$	+2.0 +1.4 +2.5 +.7 +1.2 +4.3	26. 2 1 43. I 42. 3 (11) (11) 33. 8	+. 2 +2. 0 +. 9 (11) (11) +7. 1	+. 6 +. 7 +1. 6 (11) (11) +3. 0	33. 7 42. 8 48. 9 (11) (11) 96. 7	+.1 7 9 (11) (11) +.5	+1.6 +.8 1 (") (") +1.5
	` ` ′	''' ''''	` ′	' '	, .		' '	1	-	'				

¹ Revised series. 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 manhours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

See tables 9, 10, and 11 for comparable series back to January 1919 for all manufacturing and back to January 1923 for the durable- and nondurable-goods groups.

3 Less than 1/10 of 1 percent.

A Revised series—Adjusted on basis of a complete employment survey made by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1938 to August 1940, inclusive. Comparable figures for this period given in table 9 of the September 1940 issue of this pamphlet.

Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in

January 1938 issue of pamphlet.

6 See table 7 of October 1940 issue 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.

7 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.

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

9 Covers street-railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies: foursely signature and main.

and successor companies; formerly "electric-railroad and motorbus operation and main-

¹⁰ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of pamphlet.

11 Not available.

¹² Cash payments only: additional value of board, room, and tips not included.

*August and September 1940 average hourly earnings revised to 70.2 and 70.7 cents, respectively, and corresponding average weekly hours revised to 39.7 and 40.2,

Table 7.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries

MANUFACTURING

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

	Emp	loyment i	index	Pa	y-roll ind	lex		erage wee			ge hours v		Av	erage hou earnings	irly
Industry	Decem- ber 1940	November 1940	Octo- ber 1940	Decem- ber 1940	November 1940	Octo- ber 1940	Decem- ber 1940	Novem- ber 1940	Octo- ber 1940	Decem- ber 1940	Novem- ber 1940	Octo- ber 1940	Decem- ber 1940	Novem- ber 1940	Octo- ber 1940
All manufacturing 2	116. 2	114. 7	113. 8	122. 4	116. 4	116. 2	\$27.89	\$26.93	\$27.13	39. 8	38. 6	39. 3	Cents 68. 3	Cents 67. 8	Cents 67. 3
Durable goods ²	117. 6 114. 8	115. 5 113. 9	112.8 114.8	131. 6 112. 1	125. 1 106. 6	123. 4 108. 1	31. 96 23. 09	31.11 22.08	31.42 22.28	41. 2 38. 4	40. 2 37. 1	41. 0 37. 6	74. 9 61. 7	74. 4 61. 3	73. 9 60. 9
Durable goods			====												
Iron and steel and their products, not including machinery. Blast furnaces, steel works, and rolling mills. Bolts, nuts, washers, and rivets	129. 5 134. 7 87. 4 110. 2 88. 4 112. 5	119. 3 127. 3 128. 1 86. 3 112. 6 83. 3 109. 0 94. 1 190. 1	117. 1 125. 2 121. 3 83. 9 111. 3 80. 4 105. 3 91. 0 189. 4	133. 2 142. 1 178. 0 97. 1 115. 2 118. 8 128. 4 93. 1 227. 9	126. 0 134. 6 161. 5 89. 2 108. 3 106. 2 122. 3 88. 2 210. 7	123. 6 131. 0 149. 5 84. 8 106. 3 102. 2 118. 8 85. 1 217. 8	32. 18 34. 65 31. 82 26. 29 27. 21 36. 28 28. 03 28. 04 27. 26	31. 01 33. 43 30. 30 24. 57 25. 10 34. 39 27. 56 27. 18 26. 00	30. 97 33. 04 29. 68 24. 10 25. 02 34. 30 27. 74 27. 26 26. 96	41. 0 40. 4 44. 4 42. 8 42. 4 44. 7 41. 2 39. 8 40. 8	39. 6 39. 1 42. 4 40. 6 40. 8 42. 4 40. 4 38. 8 38. 9	39. 9 38. 8 42. 4 39. 8 40. 9 42. 8 40. 6 39. 2 40. 8	78. 0 85. 8 71. 7 61. 2 65. 5 81. 7 68. 1 70. 4 66. 0	78. 1 85. 7 71. 5 60. 3 63. 4 81. 7 68. 3 70. 0 66. 3	77. 8 85. 1 70. 0 60. 2 62. 2 80. 8 68. 4 69. 5 66. 2
Steam and hot-water heating apparatus and steam fittings. Stoves. Structural and ornamental metalwork. Tin cans and other tinware. Tools (not including edge tools, machine tools, files, and saws). Wirework *	102. 6 103. 1 90. 4	102. 2 104. 7 86. 5 100. 2 111. 6 203. 5	99. 4 105. 9 *85. 6 101. 4 106. 0 190. 6	107. 8 98. 8 86. 0 113. 2 136. 1 242. 0	106. 1 99. 2 78. 7 104. 1 124. 0 235. 1	102. 5 105. 9 79. 6 113. 1 113. 3 226. 3	31. 83 27. 57 30. 80 25. 59 29. 24 28. 68	31. 47 27. 26 29. 26 23. 47 27. 82 28. 45	31. 34 28. 78 30. 02 25. 16 26. 81 29. 26	43. 0 40. 4 41. 6 40. 5 45. 4 41. 1	43. 2 39. 8 40. 0 37. 0 43. 4 40. 7	43. 2 41. 9 41. 0 40. 0 42. 2 41. 9	72. 3 68. 2 74. 3 63. 5 65. 0 69. 8	73. 0 68. 1 73. 2 63. 5 64. 3 69. 9	72. 7 68. 4 73. 3 63. 2 63. 7 69. 9
Machinery, not including transportation equipment. Agricultural implements (including tractors). Cash registers, adding machines, and calculating machines. Electrical machinery, apparatus, and supplies.	135. 9 143. 2 134. 7	131. 1 136. 6 133. 6 120. 6	127. 3 134. 9 132. 0 116. 1	162.8 171.3 147.8 157.5	149. 3 160. 4 144. 0 145. 0	145. 3 158. 8 142. 1 138. 2	33. 13 31. 87 34. 15	31. 65 31. 29 33. 77	31. 71 31. 41 33. 68 31. 26	43. 6 39. 5 41. 1 43. 0	42. 0 39. 0 40. 6 41. 9	42. 4 39. 2 40. 5 41. 7	76. 1 81. 0 84. 1 76, 6	75. 2 80. 6 83. 9 75. 7	74. 9 80. 2 83. 6 75. 2

Engines, turbines, water wheels, and wind-	1		1 1	ı	ŧ	1 1				,	,				
mills	210.4	199.7	190.4	303.5	273. 2	263.4	38. 17	36. 21	36.74	45, 4	43. 2	44.4	83. 6	83.4	82. 2
Foundry and machine-shop products	114.1	110.1	106.7	126.6	114.8	111.7	32.85	30. 99	31.18	43.6	41.6	42.1	75. 5	74.5	74.0
Machine tools	276.0	265. 9	257. 9	394. 2	355.4	352.3	39. 56	36.85	37. 73	50.6	48.0	49.1	78.1	76.8	76. 9
Radios and phonographs	158.0	159.4	163.6	162.9	155.7	164.3	25.49	23.97	24.74	40.5	39. 2	40.1	63.0	61.3	61.8
Textile machinery and parts.	86.1	82.7	79.7	90.6	80.1	78.8	28.94	26.56	27, 24	42, 8	39. 9	41.0	67.8	66.7	66.5
Typewriters and parts	132. 2	130.7	126.8	147.3	166.0	163.2	27. 31	31. 13	31. 52	41.7	45. 5	45.8	65.4	68. 4	68. 9
Transportation equipment	149.2	146.0	139. 5	168. 9	166.1	163.3	35, 96	36, 39	37, 39	40.2	40.4	41.6	90.0	90. 2	89. 8
Aircraft 8	4 888 3			5, 257. 0	5, 012. 9	4, 639, 4	32.45	32, 93	32.62	44.6	44.3	44.3	75. 4	75. 5	75.0
Automobiles	129.3	129.5	125. 1	144.8	150.5	149.3	36. 54	38. 11	39. 24	38. 5	39. 9	41.3	95. 0	95. 5	95.1
Cars, electric- and steam-railroad	66.0	61.6	56. 2	62.3	53.7	50.3	29. 67	27. 40	28. 12	39. 2	37. 4	37. 7	75. 1	73.0	74.3
Locomotives	45.7	42. 2	39.3	50.1	43.6	40.1	33. 55	31. 61	31. 24	41.9	40.0	40.2	80.0	79.0	77.8
Shipbuilding	221.3	204.2	197.4	290.1	239.0	244.3	39. 11	34.91	36. 93	42.8	38.6	41.7	90.3	89.1	87.7
		l							1			1			
Nonferrous metals and their products	131.1	129.9	126.1	149.6	141.6	136.3	31. 63	30.02	30.00	42.7	41.4	42.0	73.8	72.7	71 2
Aluminum manufactures. Brass, bronze, and copper products	208.6	209.6	203.0	264.0	259.0	249.7	30. 90	30, 01	29. 91	42.0	41.3	41.4	73. 5	72.7	72.2
Clocks and watches and time-recording devices.	168.1 106.1	162. 4 106. 7	154.9 104.6	219.3 119.6	201.6 121.7	190.0 119.1	35. 74 25. 15	33, 98 25, 39	33. 64 25. 35	44. 5 40. 8	42.6 41.6	43. 4 42. 0	80. 5 61. 1	79. 9 60. 6	77. 7 60. 3
Jewelry	100.1	110.5	1104.0	97.3	94.4	97.8	25. 75	23. 57	24. 37	41.4	39.6	42.0	61. 6	59.0	58. 0
Lighting equipment	110.2	109.8	106.8	102.0	100.0	96.5	28. 92	28.45	28. 22	40.7	40.8	40.7	71.3	69.5	69. 2
Silverware and plated ware	78.6	79.6	76. 7	85. 2	81.4	78.2	31. 20	29.44	29. 34	46.3	44.1	44.3	68.0	67.6	67.3
Smelting and refining—copper, lead, and zinc.	96.6	94.8	94.6	102.6	95. 8	93.4	29. 92	28. 46	27.82	40.1	38. 4	38.3	74.6	74.0	72. 7
	1				1		l i	- 1				1		J	
Lumber and allied products	73. 7.	74.4	74.4	71.5	70.9	73.7	21.06	20.75	21. 49	39. 5	38. 9	4. 07	52.8	52. 6	52.4
Furniture	97.4	97.0	96. 8	92.6	90.4	91.3	22.64	22. 23	22.49	41.0	40. 2	41.3	55. 5	55. 5	54.7
Lumber:		l	20.0				20.21				44.0				~
Millwork	71. 5	71. 2	69.3	59.7	58. 2	58.4	23.01	22, 55	23. 30	41.7	41. 2	42.6	55. 3	54.8	54. 7 50. 6
Sawmills	64.7	66.1	66. 6	60.4	60. 9	65.1	19. 29	19.06	20. 23	38.0	37. 7	40.0	50.7	50.5	30.0
Stone, clay, and glass products	88.9	88. 9	87. 5	85. 8	82.2	83.0	26, 25	25, 17	25, 75	38.2	37. 1	38.1	68.0	67. 1	67. 1
Brick, title, and terra cotta	65. 8	65. 5	65.0	57. 2	54.4	55.1	22, 52	21. 47	21.87	38, 5	37.4	38, 5	58. 2	57. 2	56. 6
Cement	71.7	73. 9	75. 7	72.4	72.9	75. 5	28.88	28. 22	28. 55	40.5	39. 5	39. 9	71. 2	71. 2	71.6
Glass	116.8	117.0	113. 2	137. 6	130.8	129.8	28. 77	27. 26	27. 90	37. 7	36.6	37.4	76.4	74.6	74.7
Marble, granite, slate, and other products	45. 1	46.3	47.9	33. 3	31.9	37. 3	25.72	23. 96	27. 03	36. 5	34.0	37.8	71.1	70.8	71.7
Pottery	105. 6	102. 4	98.0	101.3	96. 3	92.8	24.47	24.00	24.06	38.1	37.6	37. 9	63.8	63. 6	63. 4
Nondurable goods	i	ł	}							I	1	l		ŀ	
•		Ì							ļ	l	l			- 1	
Textiles and their products	107. 0	105. 5	104.5	97. 6	92. 3	93, 2	18.46	17. 80	18. 10	36.7	35. 5	35. 9	50.7	50.4	50.9
Fabrics	100.4	98.7	96.1	95.6	90.9	89. 5	18. 28	17. 71	17. 95	37. 9	36.8	37. 3	48.8	48.7	48. 7
Carpets and rugs	82. 4	81.6	79.6	76. 2	73.1	72.8	25. 64	24.80	25. 31	37. 9	36.6	37. 5	67. 6	67.9	67. 5
Cotton goods	100.5	98.1	95.1	98.0	92.3	90.3	15. 70	15. 24	15. 41	38.0	37.0	37. 2	41.3 49.8	41. 2	41. 4 49. 6
Cotton small wares	89.6	87.3	83. 2 128. 6	91.5	87. 1	83. 0 111. 4	19.87 22.11	19. 39 21. 07	19. 41 21. 15	39. 9 40. 3	39. 1 38. 6	39. 2 39. 1	54.7	49.7 54.3	53. 9
Dyeing and finishing textiles	134. 3 83. 9	132.0	80.0	121. 2 81. 5	113.5	66.9	26.78	24. 49	21. 13 23. 19	35.6	33, 6	31. 1	74. 7	72.8	73. 0
Hats, fur-felt	146.2	81. 9 144. 9	142.8	160.4	72. 6 160. 4	158.1	19.57	19.67	19.68	35. 7	36.0	36. 1	54.9	54.7	54. 8
Knitted outerwear	71.4	73. 2	75. 3	61. 5	63. 5	65.6	17. 89	18. 15	18. 22	36. 4	36. 9	37. 4	48. 2	48.4	47. 9
Knitted outerwear	77. 4	76. 5	76.0	74. 2	72. 5	72.1	16. 14	16. 02	16.03	36.6	36.3	36. 7	44.1	44. 2	43.8
Knitted cloth	147. 5	150.0	157. 3	129. 8	129. 5	136. 3	19.64	19. 24	19. 34	39. 3	38. 7	39.6	50. 0	49. 5	48. 2
Silk and rayon goods	65. 3	65. 2	64.6	54. 4	52. 2	52.4	17. 13	16. 43	16.63	37. 3	36.0	36. 6	45.8	45. 4	45. 3
Woolen and worsted goods	100.9	98.7	94.1	96, 3	88. 9	87.6	22. 15	20, 92	21, 62	38.9	36, 8	38. 2	56. 9	56, 9	56. 6
Can factnator at and of table			•											•	

See footnotes at end of table,

Table 7.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued

Manufacturing

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

	Emp	loyment i	index	Pa	y-roll ind	lex		erage wee	kly		ge hours v per week		Av	erage hou earning	
Industry	December 1940	Novem- ber 1940	Octo- ber 1940	Decem- ber 1940	November 1940	Octo- ber 1940	Decem- ber 1940	Novem- ber 1940	Octo- ber 1940	Decem- ber 1940	Novem- ber 1940	Octo- ber 1940	Decem- ber 1940	Novem- ber 1940	Octo- ber 1940
Nondurable goods—Continued															
Textles and their products—Continued. Wearing apparel. Clothing, men's. Clothing, women's. Corsets and allied garments Men's furnishings. Millinery. Shirts and collars.	117. 3 108. 1 164. 5 112. 8 123. 9 60. 8 122. 1	116. 3 104. 7 165. 5 113. 2 128. 4 60. 9 120. 6	118. 9 104. 3 171. 5 112. 6 127. 7 76. 1 122. 0	95. 6 86. 2 125. 7 122. 6 133. 9 41. 5 115. 0	89. 6 76. 4 119. 7 121. 1 140. 4 40. 9 112. 8	94. 8 77. 3 131. 2 124. 2 133. 8 55. 3 114. 5	\$18. 98 20. 31 20. 05 18. 23 16. 47 20. 39 14. 75	\$18. 05 18. 71 19. 00 17. 95 16. 65 20. 07 14. 77	\$18. 53 18. 96 20. 03] 18. 49 15. 96 21. 62 14. 91	34. 3 33. 5 34. 7 37. 3 36. 5 29. 7 35. 0	33. 0 31. 1 33. 7 36. 1 37. 2 28. 6 34. 8	33. 4 31. 5 33. 8 38. 0 36. 8 30. 6 35. 6	Cents 54. 4 60. 3 53. 9 48. 5 43. 0 63. 6 41. 9	Cents 53. 9 60. 1 53. 1 48. 5 43. 1 66. 1 41. 7	Cents 55. 2 60. 2 55. 0 48. 3 42. 1 64. 4 41. 8
Leather and its manufactures	90. 6 88. 0 85. 8	87. 0 84. 1 83. 9	90. 0 88. 4 81. 6	78. 5 73. 2 89. 5	68. 5 62. 5 82. 8	73. 4 69. 1 81. 6	20. 45 19. 07 26. 16	18. 59 17. 03 24. 57	19. 28 17. 93 25. 04	37. 1 36. 4 39. 9	33. 5 32. 4 37. 9	34. 8 34. 0 38. 3	55. 8 53. 3 65. 9	55. 9 53. 4 65. 8	55. 7 53. 3 65. 7
Food and kindred products Baking Beverages Butter Canning and preserving Confectionery Flour Ice cream Slaughtering and meat packing Sugar, beet Sugar refining, cane	77. 8 69. 3	132. 5 145. 5 263. 0 99. 4 123. 2 102. 4 79. 0 70. 9 116. 2 277. 0 93. 5	141. 3 145. 9 271. 3 95. 7 201. 5 102. 0 80. 6 73. 8 109. 6 266. 9 95. 0	132. 4 137. 7 299. 4 83. 8 92. 7 103. 0 72. 8 60. 9 137. 3 265. 1 85. 1	128. 8 138. 3 302. 3 82. 2 100. 6 100. 1 72. 3 61. 0 118. 9 288. 0 83. 7	134. 2 139. 2 314. 4 81. 6 170. 5 103. 2 77. 9 64. 0 115. 8 217. 1 82. 9	25. 78 26. 39 33. 60 23. 32 17. 09 19. 86 25. 12 30. 15 28. 77 29. 07 25. 58	24. 43 26. 20 33. 61 21. 77 15. 54 19. 05 24. 59 29. 61 26. 82 26. 81 25. 36	23. 82 26. 31 33. 83 22. 60 16. 11 19. 63 25. 98 30. 03 27. 64 20. 98 24. 71	40. 6 41. 0 38. 0 46. 6 34. 4 40. 2 40. 7 44. 7 42. 3 53. 2 38. 9	39. 3 41. 0 38. 0 44. 3 33. 4 38. 7 40. 2 43. 7 39. 0 49. 3 39. 5	40. 0 41. 5 38. 7 45. 2 37. 6 40. 1 42. 0 44. 4 40. 3 36. 4 38. 2	64. 1 64. 4 88. 7 49. 8 51. 0 49. 8 60. 8 65. 8 68. 0 56. 2 65. 8	63. 2 64. 0 89. 3 48. 7 48. 0 49. 5 60. 9 65. 8 68. 6 55. 1 64. 1	61. 0 63. 5 88. 3 48. 9 44. 0 49. 3 61. 2 65. 8 68. 4 57. 0 64. 6
Tobacco manufactures	65. 6 57. 4 66. 6	66. 8 55. 8 68. 1	66. 5 56. 6 67. 7	67. 4 69. 8 67. 0	66. 4 66. 5 66. 3	66. 5 67. 6 66. 2	18. 70 19. 60 18. 53	18. 14 19. 21 17. 95	18. 25 19. 28 18. 05	38. 1 37. 0 38. 2	37. 2 35. 0 37. 4	37. 6 35. 7 37. 8	49. 0 53. 5 48. 5	48.6 54.9 47.9	48. 4 54. 3 47. 8

Paper and printing Boxes, paper Paper and pulp Printing and publishing:	125. 2 115. 9	118. 5 126. 1 115. 7	117. 6 124. 1 115. 1	120. 7 145. 3 128. 5	115. 4 144. 0 123. 8	115. 2 141. 7 123. 8	30, 37 23, 20 27, 30	29. 35 22. 79 26. 35	29. 35 22, 77 26, 45	39. 3 41. 2 41. 3	38. 4 40. 4 40. 2	38. 7 40. 9 40. 5	79. 9 56. 7 66. 0	79. 3 56. 5 65. 6	79. 2 56. 1 65. 4
Book and job	150. 3	102. 5	102. 6	97. 9	90. 1	91. 0	32, 28	30, 62	30. 89	39. 9	38. 2	38, 8	81. 3	81. 2	80. 7
Newspapers and periodicals	121. 1	119. 3	117. 6	116. 0	112. 4	111. 5	38, 38	37, 73	37. 98	35. 9	35. 2	35, 9	103. 8	102. 9	102, 6
Chemical, petroleum, and coal products Petroleum refining Other than petroleum refining Chemicals Cottonseed—oil, cake, and meal Druggists' preparations Explosives Fet tilizers Paints and varnishes Rayon and allied products Soap	119.8 126.9 149.9 123.5 115.7 146.7 95.0 126.2	125. 3 120. 7 126. 4 148. 0 126. 9 116. 2 147. 2 92. 2 126. 0 314. 5 84. 5	125. 3 121. 2 126. 3 145. 6 131. 1 118. 3 144. 9 96. 7 125. 1 311. 1 88. 8	144. 0 139. 0 145. 5 187. 9 121. 7 130. 5 196. 0 80. 9 138. 9 334. 4 106. 3	139. 5 133. 3 141. 5 181. 7 121. 6 130. 8 186. 5 77. 1 135. 8 331. 4 100. 2	139. 3 136. 2 140. 3 176. 2 128. 2 133. 0 180. 9 82. 4 135. 8 322. 6 107. 2	30, 90 36, 00 28, 92 33, 33 15, 94 25, 56 36, 84 15, 47 30, 18 27, 15 29, 54	29. 87 34. 32 28. 23 32. 72 15. 50 25. 53 34. 95 15. 31 29. 35 26. 95 27. 93	29. 96 34. 93 28. 13 32. 39 15. 91 25. 51 34. 44 15. 71 29. 60 26. 53 28. 42	39. 6 37. 3 40. 4 40. 8 46. 5 39. 5 40. 9 35. 4 40. 8 39. 1 40. 3	38. 8 35. 7 39. 8 40. 4 45. 0 39. 5 39. 8 33. 9 40. 2 39. 1 38. 9	39. 3 36. 4 40. 2 40. 6 46. 2 40. 0 40. 1 35. 5 41. 1 38. 7 39. 9	76. 6 96. 8 70. 1 81. 6 33. 1 61. 2 89. 3 43. 7 73. 7 69. 4 73. 3	76. 5 96. 6 69. 6 81. 1 33. 0 61. 3 87. 8 45. 2 73. 1 69. 0 71. 8	75. 7 96. 3 68. 7 79. 8 32. 7 60. 7 85. 9 44. 2 72. 0 68. 5 71. 1
Rubber products Rubber boots and shoes Rubber tires and inner tubes Rubber goods other	97. 5	94. 4	92. 6	111. 1	102. 0	99. 5	31. 13	29. 45	29, 31	39. 7	37. 9	38. 0	78. 4	78. 1	77. 4
	66. 9	61. 0	58. 7	81. 3	65. 7	62. 9	27. 92	24. 76	24, 64	43. 9	40. 1	39. 5	63. 6	61. 7	62. 4
	76. 9	75. 2	73. 9	96. 4	89. 7	86. 6	36. 59	34. 92	34, 27	37. 8	36. 1	35. 7	97. 1	97. 1	96. 2
	166. 6	162. 9	160. 5	173. 9	162. 7	162. 1	25. 39	24. 29	24, 57	40. 4	39. 0	40. 0	63. 4	62. 7	62. 0

NONMANUFACTURING

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

								,							
Coal-mining: Anthracite 4.5 Bituminous 4.	50. 8 90. 0 72. 2	50. 4 89. 8	49. 4 89. 2	42.7 91.3	37. 6 84. 5	32. 3 83. 6	\$27.60 27.19	\$24. 56 25. 21	\$21. 48 25. 03	29. 7 31. 0	26. 2 28. 6	22. 8 28. 3	Cents 92. 0 89. 0	Cents 92. 6 88. 9	Cents 92. 5 88. 6
Metalliferous miningQuarrying and nonmetallic mining		72. 5 47. 2	72. 6 48. 8	73. 3 42. 8	69. 8 42. 3	71. 4 46. 7	31.71 23.74	30, 10 22, 64	30.75 23.98	42. 5 40. 6	40. 7 38. 9	42. 0 42. 1	74. 9 59. 0	74. 3 58. 5	73. 6 57. 0
Crude-petroleum production.	60, 9	61. 3	62. 4	55. 8	56.8	57. 6	33. 70	34. 11	33. 89	36.7	37.8	38. 0	89.6	88.1	87. 5
Public utilities:															
Telephone and telegraph 8 7	79.6	79. 2	79.1	104.9	103. 2	102. 2	32. 40	32, 01	31.75	39.8	39. 9	39.5	81. 8 90. 8	80.7	80.8
Electric light and power 6.7. Street railways and busses 6.7.8.	91, 3 68, 4	91. 8 68. 7	92. 3 68. 7	106. 4 73. 2	106. 9 70. 3	107. 0 70. 7	35. 54 34. 92	35. 53 33. 40	35, 37 33, 63	39. 2 47. 4	39. 8 45. 4	40. 3 45. 7	73.1	89. 3 72. 6	88. 0 72. 5
Trade:	00.4	00.7	00.7	10.2	10.0	70.7	04. 02	00. 10	00, 00	11.4	10. 1	20. 1	70.1	12.0	12.0
Wholesale 6 9	92, 7	91.8	91.0	84.0	80.7	80. 2	31. 31	30. 43	30, 61	41.6	40.8	41 . 3	75. 2	74.7	73.9
Retail 6 7	107. 5	96.3	94. 3	96. 4	87. 1	85. 8	20. 24	20.70	20.87	43.0	42.3	42.7	52. 1	53. 7	53. 2
Food 7	105.8	104. 6	103. 8	97. 9	96. 7	95. 8	23. 76	23. 76	23. 64	43. 4	43. 1	43.5	52. 5	52.8	52. 2
General merchandizing 6 7		111. 4	103. 5	131.0	97. 5	92. 3	17. 16	17. 34	17. 59	39. 9	38. 1	38. 4	42.8	45. 2	45. 6
Apparel 7	102.5	91. 5	91. 4	92. 7	83.0	82. 2	20, 91	20.98	20.95	38. 9	38. 1	37. 8	54.1	55.4	54, 9
Furniture 7	81. 8 86. 8	77.8	77. 8 85. 0	75.1	70.1	70.1	28.83	28. 26	28.40	44.9	44.0	44. 4	67. 9	68.7	68. 1
Automotive 7		85. 9 77. 4	79. 4	84. 2 72. 5	82. 3 72. 0	79. 7 76. 0	29. 30 26. 65	28. 94 25. 94	28. 08 26. 77	47. 4 42. 5	46. 7 41. 5	47. 1 43. 1	62. 4 63. 4	62. 4 63. 3	60. 2 62. 8
Lumber 7. Hotels (year-round) 4 6 10.		92. 3	93. 4	84. 4	83. 6	84. 2	26. 65 15. 85	25, 94 15, 75	15, 57	46. 2	46.1	46.3	33.7	33.6	92. 8 33. 3
Laundries 4	100. 2	99. 7	100. 2	89.0	87. 2	88. 0	18. 40	18. 13	18, 18	43 1	42. 3	42.6	42.8	43.1	33. 3 42. 8
Doubles	1 100.2	00.1	100 1	00.0	011.2	00.0	10.10	. 10.10	10.10	10. 1	120.0	120.0	12.0	70. 1	7D, O

See footnotes at end of table.

TABLE 7.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued NONMANUFACTURING--Continued

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

3	Empl)yment i	ndex	Pe	ay-roll in	dex	Ave	rage wee	kly		ge hours v			erage hou	rly
Industry	Decem- ber 1940		Octo- ber 1940	December 1940	November 1940	Octo- ber 1940	Decem- ber 1940	Novem- ber 1940	Octo- ber 1940	Decem- ber 1940	Novem- ber 1940	Octo- ber 1940	December 1940	November 1940	Octo- ber 1940
Dyeing and cleaning 4 Brokerage 6 11 Insurance 6 11 Building construction 11	103. 2 6 +. 1 -1. 9	106. 0 +. 1 1 -4. 2	109. 4 -1. 6 3 +3. 9	75. 8 +2. 5 +1. 0 +5. 6	77. 8 +. 8 +. 4 -13. 7	82. 4 +. 9 +. 7 +6. 5	\$20. 14 38. 28 36. 75 32. 63	\$20. 13 37. 14 36. 42 30. 44	\$20. 61 37. 10 36. 32 33. 84	42. 3 (12) (12) 33. 8	41. 9 (12) (12) (12) 31. 6	43. 0 (12) (12) 35. 4	Cents 48. 9 (12) (12) 96. 7	Cents 49. 4 (12) (12) (12) 96. 5	Cents 49. 0 (12) (12) 95. 7

¹ Revised series. Mimeographed sheets giving averages by years, 1932 to 1939, inclusive, and by months, Januay 1938 to August 1940, inclusive, available on request. A verage hours and average hourly earnings are computed from data supplied by a smaller number of establishments than average weekly earnings, as not all reporting firms furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.
² See tables 9, 10, and 11 for comparable series back to January 1919 for all manufacturing and back to January 1923 for the durable- and nondurable-goods groups.
³ Revised series—Adjusted on basis of a complete employment survey made by the Bureau of Labor Statistics for August 1940. Not comparable with previously published indexes from January 1938 to August 1940, inclusive. Comparable figures for this period given in table 9 of the September 1940 issue of this pamphlet.
¹ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.
⁵ See table 7 of October 1940 issue for revised employment and pay-roll indexes, average hours worked per week, average hourly earnings, and average weekly earnings in anthractite mining, February 1940 to September 1940, inclusive.

published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

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

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

- 9 Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of pamphlet.
- Cash payments only; additional value of board, room, and tips not included.
 Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.
- 12 Not available.
- *August and September 1940 average hourly earnings revised to 70.2 and 70.7 cents. respectively, and corresponding average weekly hours revised to 39.7 and 40.2

Table 8.—Indexes of Employment and Pay Rolls in Selected Manufacturing 1 and Nonmanufacturing ² Industries, December 1939 to December 1940, Inclusive

	1939		_					1940						
Industry	Αv.	Av.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Manufacturing]	Emplo	ymen –	t -					
All industries	99. 9	107. 5	105. 0	105. 0	104. 4	103. 2	102. 5	103. 1	103. 2	107. 4	111. 4	113.8	114. 7	116. 2
Durable goods 3 Nondurable goods 4	90. 2 109. 2	104. 3 110. 6	100. 1 109. 7	99. 2 110. 5	99. 1 109. 5	98. 7 107. 5	99. 2 105. 6	99. 8 106. 2	98. 4 107. 8	102. 4 112. 2	108. 2 114. 4	112. 8 114. 8	115. 5 113. 9	117. 6 114. 8
Nonmanufacturing			_											
Anthracite mining 5 Bituminous-coal mining 5 Metalliferous mining Quarrying and nonmetal- lic mining	50. 6 78. 6 62. 7	88. 0 69. 9	91. 8 66. 4		89. 7 66. 2	86. 2 67. 7	51. 8 85. 1 69. 2 46. 9	83. 8 70. 3	71.0	71.5	49. 8 87. 7 72. 5 48. 9			
Crude-petroleum produc- tion. Telephone and telegraph 6	65. 8	62. 9	63. 2		63. 2	63. 1 76. 7	63. 3	63. 8	63. 7	63. 6	63. 0 78. 9	62. 4	61.3	60, 9
Electric light and power 6_Street railways and busses 67	89.0	91.1	89. 1	89. 2	89.3	90.0	90. 6		92. 2	93. 0	92. 7 68. 5	92. 3	91. 8	91, 3
Wholesale trade	89. 2 89. 8	90. 4 92. 3	90. 6 87. 7	90. 2 87. 0	90. 5 91. 1	89. 3 89. 8	88. 9 91. 2	89. 6 91. 9	89. 2 89. 1	90. 1 88. 7	90. 9 92. 8	91. 0 94. 3	91, 8 96, 3 92, 3	92. 7 107. 5
Laundries ⁵ Dyeing and cleaning ⁵	95. 9	99.5	96.0	95.8	96. 2	97. 2	99. 1	102.1	102.5	102.8	101.9	100. 2	99. 7 106. 0	100. 2
Manuelistania		_					Pay	— Rolls		-				
Manufacturing All industries	92.2	105 4	99.8	99.3	99.8	97.9	97.8	99.5	1 98 2	105 5	111.6	— —	i 116. 4	122 4
Durable goods 3 Nondurable goods 4	86. 2		99. 3	97.8	98. 7	98. 4	98.7	101. 4	97. 4	106. 5	115. 1	123. 4		131. 6
Nonmanufacturing	 	-	=						' -	- - -	í	==	==	===
Anthracite mining ⁵ Bituminous-coal mining ⁵ Metalliferous mining Quarrying and nonmetal-	39. 5 69. 9 56. 0	81. 2	87.0	87.0		72. 2	40. 0 75. 3 65. 7	73. 9	75. 2	82.5	83. 2	83. 6	37. 6 84. 5 69. 8	91. 3
lic mining Crude-petroleum produc-	38. 7				34. 1	1	42. 7		į	1			42. 3	
tionTelephone and telegraph 6 Electric light and power 6 Street railways and	95.6	58. 2 100. 3 104. 9	97.4	96.9	98.1	98.7	98.8	100.0	101. 3	100.4	101.8	102. 2	56. 8 103. 2 106. 9	104.9
busses 6 7 Wholesale trade Retail trade 6 Year-round hotels 5 Laundries 5	80. 8 81. 2 83. 1	79. 0 84. 2 82. 4 87. 6	77. 1 79. 9 81. 1 83. 4	77. 1 79. 1 82. 7 83. 1	82. 0 81. 8 84. 1	77. 4 82. 3 83. 2 85. 6	83. 4 83. 0 88. 5	78. 4 84. 8 82. 0 92. 4	78. 3 82. 6 80. 5 90. 0	78. 7 81. 5 80. 7 90. 5	85. 1 81. 8 89. 9	80. 2 85. 8 84. 2 88. 0	80. 7 87. 1 83. 6 87. 2	84. 0 96. 4 84. 4 89. 0
Dyeing and cleaning 5	73.6	78.2	65. 5	64.4	72.7	79.6	85.4	89.6	80.0	78.9	85. 6	82. 4	77.8	75.8

companies.

¹³⁻year average 1923-25=100—adjusted to Preliminary 1939 Census of Manufactures. See tables 9, 10, and 11 for comparable figures back to January 1919 where available.
212-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 Park Rolls, or in February 1935 and subsequent issues of Monthly Labor Review. For other nonmanufacturing indexes see notes 5 and 6.
3 Includes: Iron and steel, machinery, transportation equipment, nonferrous metals, lumber and allied products, and stone, clay, and glass products.
4 Includes: Textiles and their products, leather and its manufactures, food and kindred products, tobacco manufactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellaneous industries not included in other groups.
8 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.
8 Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in Employment and Pay Rolls pamphlets prior to January 1940 or in Monthly Labor Review prior to April 1940. Comparable series January 1929 to December 1939 available in mimeographed form. graphed form.

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

Table 9.—Indexes of Employment and Pay Rolls in All Manufacturing Industries Combined, by Months, January 1919 to December 1940 1

[1923-25=:100]

				 -		- :	·						
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
						Em	ployme	nt					
1919 1920 1921 1922 1923	114.3 79.5	113.3 81.7 84.5	l 115. 6i	114. 0 82. 3 85. 7	111. 1 82. 0 87. 9	103. 9 110. 1 81. 2 89. 6 105. 7	106. 6 107. 5 79. 7 90. 5 104. 6	109. 3 107. 4 81. 1 93. 1 104. 8	106. 1 83. 0 95. 1	110. 9 102. 1 83. 7 96. 6 104. 0	83. 7 98. 0	88.0	106. 7 107. 1 82. 0 90. 7 103. 8
1924 1925 1926 1927 1928	96.6 101.0 98.6	98. 3 102. 0 100. 2	102.5	100. 1 99. 1 101. 8 100. 3 97. 8	96. 8 98. 6 100. 8 99. 6 97. 8	93. 8 98. 4 100. 8 99. 7 98. 5	90. 6 98. 3 99. 7 98. 6 98. 4	92. 0 100. 0 101. 8 99. 9 101. 1	104.0	103.6	94. 5 102. 2 101. 6 98. 0 102. 6	96. 1 101. 8 100. 3 96. 5 102. 1	96. 4 99. 8 101. 7 99. 5 99. 7
1929 1930 1931 1932 1933	98, 2 80, 1 70, 0	98. 3 80. 8 71. 2	105. 4 97. 9 81. 2 70. 1 62. 3	106. 7 97. 3 81. 2 67. 8 63. 9	106. 5 95. 6 80. 6 65. 2 66. 8	106. 8 93. 6 78. 8 63. 2 71. 6	107. 3 90. 4 77. 7 61. 0 76. 2	109. 2 89. 7 77. 9 62. 7 81. 3	90. 7 78. 3 66. 1	109. 0 88. 7 75. 5 67. 2 84. 6	85. 4 72. 7 66. 3	100. 7 82. 9 72. 0 65. 1 79. 5	106. 0 92. 4 78. 1 66. 3 73. 4
1934	86. 7 92. 3 104. 7	89. 6 92. 7 107. 6	87. 2 91. 0 93. 9 110. 1 91. 2	88. 8 91. 2 95. 5 111. 3 89. 3	89. 0 89. 9 96. 4 111. 5 87. 0			112.2	93. 9 103. 8 112. 2	85. 9 95. 2 104. 9 110. 3 94. 2	94. 6 104. 9 104. 2	97.7	85. 7 91. 3 99. 0 108. 6 90. 9
1939 1940	94. 5 105. 0	96, 1 105, 0		96. 9 103. 2		96. 4 103. 1	96. 6 103. 2	99. 5 107. 4	103. 7 111. 4		107. 5 ¹ 2114. 7	107. 8 2116. 2	99. 9 ² 107. 5
						P	ay Roll	s			<u> </u>		
1919 1920 1921 1922 1923	119. 1 80. 6 69. 6	117. 4 80. 1 72. 5	125. 4 81. 0 74. 4	89. 2 122. 3 78. 8 73. 6 103. 8	90. 1 123. 0 77. 4 77. 0 107. 3	92. 7 124. 4 75. 6 80. 0 107. 2	120. 0 71. 6 80. 2	120. 6 73. 6 84. 1	118. 9 73. 3	114. 4 71. 9 88. 7	105. 0 70. 9		
1924 1925 1926 1927 1928	101.6 98.6	101. 0 105. 7	104. 5 102. 8 107. 2 106. 6 103. 5	102. 0 100. 4 104. 9 105. 0 101. 3	97. 6 101. 4 103. 5 104. 8 102. 3	91. 9 99. 2 103. 7 103. 2 102. 7	85. 3 97. 5 99. 4 99. 1 100. 2	89. 1 100. 1 103. 8 102. 5 104. 6	92. 4 99. 4 105. 1 102. 1 106. 2	94. 6 105. 3 108. 0 102. 7 109. 5	93. 1 105. 1 104. 3 98. 9 106. 2	97. 6 105. 5 103. 6 100. 0 106. 9	96. 0 101. 1 104. 2 102. 4 103. 5
1929 1930 1931 1932 1933	96. 5 70. 3 54. 0	99. 6 74. 4 55. 4	99. 7 75. 9 53. 6	114. 1 98. 5 74. 7 49. 6 40. 4	96. 1 73. 6 46. 8	92. 9 69. 9 43. 7	85. 0 66. 6 40. 4	83.8 66.4 41.4	63. 8 44. 0	113. 7 82. 9 61. 8 45. 8 61. 1	77. 3 58. 3 43. 6	75. 4 57. 8 42. 4	110. 4 89. 4 67. 8 46. 7 50. 1
1934 1935 1936 1937 1938	67. 5 76. 9 94. 6	72. 6 76. 6 100. 1	74, 4 80, 5 105, 9	69. 6 74. 6 82. 6 109. 7 75. 2	71. 8 84. 0 110. 1	84. 2 107. 6	69. 1 83. 5 105. 2	74. 0 87. 3 108. 7	76. 8 87. 2 104. 9	64. 0 79. 5 92. 9 104. 9 85. 0	78. 6 94. 4 93. 3	66. 2 80. 5 99. 2 84. 6 88. 1	64. 5 74. 1 85. 8 102. 5 78. 5
1939 1940				86. 8 97. 9				91. 2 105. 5	95. 4 111. 6	103. 2 2116. 2	103. 2 2116. 4	105. 4 2122. 4	92, 2 ² 105, 4 —

 $^{^{\}rm l}$ Revised series—Adjusted to preliminary 1939 census figures. $^{\rm l}$ Preliminary.

Table 10.-Indexes of Employment and Pay Rolls in the Durable Goods Group of Manufacturing Industries, by Months, January 1923 to December 1940, Inclusive 1

[1923-25=100]

					[1920-2	0-100;							
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
					•-	Em	ployme	ent		_			
		l	I	l 1	_		_ī		1		1		
1923 1924 1925 1926	100. 6 95. 3	102.6 97.3 102.9	103.9	103. 4 99. 9	100.1	94. 8 99, 2		90. 6 98. 7	91. 4 100. 1 103. 5	92. 8 102. 0 103. 0	102.3 100.8	101. 6 94. 3 102. 2 98. 6 91. 5	104. 1 96. 4 99. 5 102. 5 96. 5
1928 1929 1930 1931 1932	90. 3 101. 0 94. 8 72. 3 58. 1	92. 8 103. 9 95. 3 72. 4 58. 8	105. 9 95. 1 72. 5	108. 0 94. 9 72. 6	109.3 93.8 . 71.9	98, 2 109, 3 90, 8 69, 8, 52, 5	86. 3 67. 1	110. 3 83. 7 65. 8	109. 8 82. 3 65. 0	107. 7 80. 9 62. 2	102. 5 78. 1 60. 6	100. 6 97. 6 75. 7 60. 2 49. 6	97. 7 106. 2 87. 6 67. 7 52. 8
1933 1934 1935 1936 1937	47. 7 65. 1 73. 5 83. 2 97. 9	48, 6 69, 4 77, 3 83, 0 101, 2	73. 5 79. 3 84. 7	76. 6 80. 2 87. 5	79. 7: 89. 6:	90.5	75. 1 77. 3 91. 0	72.9	68. 3 70. 7 79. 9 92. 5 106. 8	68. 0 69. 3 83. 8 96. 3 107. 2	68.8 85.1 98.3	65, 8 71, 2 84, 7 100, 4 92, 4	57. 5 72. 4 79. 8 90. 7 104. 3
1938 1939 1940	82. 5 84. 1 100. 1	85.3	86.2				71. 9 85. 5 98. 4	73. 5 86. 5 102. 4	77. 2 92. 4 108. 2	81. 1 98. 8 2 112.8			78, 9 90, 2 2 104.3
					_	P	ay roll	в					
1923 1924 1925 1926		99.9 106.4	107. 8 102. 2 108. 6	106. 7 101. 6 107. 8	109. 0 100. 9 103. 3 106. 5 104. 7	92. 7 100. 2 106. 1	83.6 96.3 100.2	86. 9 98. 5 104. 7	88.7 98.1	107. 9 92. 0 105. 8 108. 2 97. 7	90. 8 106. 1 103. 9	106. 6' 101. 1	95. 9
1928	102.2	1111.5 96.1 63.7	114. 6 96. 8 65. 2	117.5 97.0 64.6	94. 8 63. 7	115. 8 90. 3 58. 7	109. 8 79. 1 53. 6	104. 5 115. 4 76. 0 52. 2 27. 9	114.6	109. 4 113. 4 74. 4 47. 7 29. 8	102. 9 68. 6 45. 3	66. 1 44. 9	102. 3 111. 2 83. 8 55. 6 33. 4
1933	27. 5 43. 1 55. 1 69. 1 90. 3	49. 6 61. 6 68. 1	54. 8 63. 6 73. 2	59. 6 64. 9 78. 2	62. 6 81. 0	59. 2 60. 0 81. 6	78.7	45, 2 51, 7 62, 5 79, 8 109, 2	80.1	46. 3 48. 2 70. 4 88. 6 107. 0	48. 1 71. 9 92. 4	52.7	36. 8 52. 2 64. 1 80. 7 102. 4
1938 1939 1940	66. 6 76. 7 99. 3	78.4	80.2	80.3	79.7	61. 4 81. 7 101. 4	77.0	63. 5 82. 5 106. 5	88.8	75, 1 100, 7 2 123,4		80. 2 105. 8 2 131.6	67. 9 86. 2 2 107.8

 $^{^{\}rm I}$ Revised series—Adjusted to preliminary 1939 census figures. $^{\rm 2}$ Preliminary.

Table 11.—Indexes of Employment and Pay Rolls in the Nondurable Goods Group of Manufacturing Industries, by Months, January 1923 to December 1940, Inclusive ¹

[1923-25=100]

Year	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av
						En	ıploym	ent					
923 924 925 926 927	102.6 99.6 97.8 100.7	99.3 101.1	100. 2 99. 7 101. 2	97. 1 98. 4 99. 4	94. 5 97. 1 98. 0	92. 8 97. 7 98. 5	90. 6 98. 7 97. 7	93. 2 101. 3 100. 7		97.0 103.2 104.2	96. 4 102. 2 102. 4	97. 7 101. 4 101. 9	100. 100.
928 929 930 931 932	100, 1 102, 3 101, 4 87, 5 81, 4	104. 3 101. 2 88. 7	105. 0 100. 5 89. 5	105. 4 99. 6 89. 4	97.4 88.9	96. 3 87. 4		108. 2	98. 6 90. 9	110. 2 96. 2 88. 1	106. 6 92. 3	103. 6 103. 6 89. 9 83. 2 79. 8	
933 934 935 936	. 101.0	97. 2 101. 3 102. 0	100. 2 102. 2 102. 7	100. 4 101. 7 103. 0	99. 3 99. 6 102. 8	97. 6 98. 6 103. 1	97. 0 99. 6 105. 4	101. 2 103. 7 110. 7	107. 2	101.8 106.1 113.1	103. 7 111. 3	92. 5 99. 4 103. 2 112. 2 102. 8	102
938 939 940	104.4	101. 6 106. 4 110. 5	107.3	106.3	105.0	96. 4 105. 3 106. 2	107. 2	111.9	109. 2 114. 5 114. 4	115.4	113.8	112.6	109
						P	ay roll	в					
928 924 925 926 927	99.0 99.6 99.7 103.5	102. 2 102. 2 105. 0	100.8 103.4		93. 9 99. 3 100. 2	91. 0 98. 1 101. 1	87. 2 98. 7 98. 6	91. 6 101. 9 102. 8	103. 0 96. 6 101. 0 105. 6 108. 8	97. 4 104. 9 107. 9	95. 6 103. 9 104. 9	104. 4 106. 3	102 96 101 103 108
928 929 930 931 932	103.8 105.6 102.6 82.8 68.9	110.0	111, 2 103, 0 87, 9	110.3 100.3 86.0			107. 2 91. 6	111.3 92.6 82.2	95. 3 80. 6		106. 2 107. 1 87. 0 72. 9 59. 4	108. 2 105. 4 85. 8 72. 3 57. 4	104 109 95 81 61
933 934 935 936 937	54.6 70.7 81.3 85.7 99.4	77. 8 85. 0		80.9 85.4 87.4	58. 3 79. 5 82. 2 87. 3 106. 4	80. 9 87. 1	67. 3 75. 7 81. 2 89. 0 104. 1	80. 2 86. 8 95. 8	76. 2 90. 4 95. 1	77. 7 81. 6 89. 6 97. 8 102. 5	72. 5 78. 5 86. 2 96. 6 92. 6	70. 8 81. 4 88. 4 101. 3 89. 4	65 78 85 91 102
938 939 940	85. 2 93. 7 100. 4		98.4		93.7	83. 0 94. 8 97. 4	86. 5 95. 6 99. 1	100.9			93, 2 104, 4 2 106,6		

¹ Revised series-Adjusted to preliminary 1939 census figures.

Preliminary.

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in November and December 1940 is made in table 12 for 13 metropolitan areas, each of which had a population of 500,000 or over in 1930. Cities within these areas but having a population of 100,000 or over are not included. Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table

6, with the exception of building construction, and include also miscellaneous industries.

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

Table 12.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1940, by Principal Metropolitan Areas

Metropolitan area	Number of establish- ments, December 1940	Number on pay roll, December 1940	Percentage change from November 1940	Amount of pay roll (1 week) December 1940	Percentage change from November 1940
New York ¹ Chicago ² Philadelphia ³ Detroit. Los Angeles ⁴	13, 628 4, 384 2, 488 1, 650 3, 062	801, 692 531, 220 275, 112 401, 349 223, 502	+3.6 +4.3 +3.5 +1.4 +7.5	\$23, 496, 373 15, 669, 065 8, 024, 213 14, 236, 020 6, 815, 885	+5.6 +7.3 +6.7 2 +6.9
Cleveland St. Louis Baltimore Boston ⁴ Pittsburgh	1, 347 1, 421 1, 130 2, 754 1, 346	165, 007 148, 440 138, 918 184, 344 240, 744	+6.0 +3.6 +4.6 +4.3 +4.0		+7. 6 +7. 3 +5. 1 +7. 1 +8. 3
San Francisco 6. Buffalo	1, 717 800 964	102, 339 104, 258 120, 669	+5.9 +3.1 +4.1		+8.6 +4.0 +5.7

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

WAGE-RATE CHANGES IN AMERICAN INDUSTRIES

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

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

<sup>Does not include Engageth, Jersey City, Newark, or Fater
Does not include Carnden, N. J.
Does not include Long Beach, Calif.
Does not include Cambridge, Lynn, or Somerville, Mass.
Does not include Oakland, Calif.</sup>

Table 13.—Wage-Rate Changes Reported by Manufacturing and Nonmanufacturing Establishments During Month Ending December 15, 1940 ¹

Group and industry	Establishments		Employees			Average per- centage change		
	Total number	Number reporting—		Total number	Number having—		in wage rates of employees having—	
	report- ing	In- creases	De- creases ²	covered	In- creases	De- creases 2	In- creases	De- creases
All manufacturing	33, 789	211		6, 468, 688	74, 102		6.3	
lron and steel groupBlast furnaces, steel works,	2, 557	16		940, 245	18, 300		7.8	
and rolling mills	339	5		501, 967	7, 374		5. 7	
Machinery group Electrical machinery	3, 855	44		932, 152	19, 344		5.8	
Electrical machinery	580	6			8,962		5.9	
Foundries and machine shops.	2, 283	25		311, 645	7, 255		5.5	
Machine tools	194	6		74, 285	964		7.0	
Transportation group	739	7		737, 199	979		6.1	
Antos		4		451, 965	485			
Nonferrous metals group	1,085	9		223, 611			7. 7	
Brass, bronze, and copper	332	4		84, 101	306		6.2	
Smelting and refining	51	4		30, 488	2, 547		7.9	
Lumber group	2,730	58		354, 327	16, 039		4.6	
Furniture	723			103, 539	932			
Millwork	585			40, 836	1, 265		4.8	
Sawmills		39		136, 875			4.4	
			:					
Stone group	1,646	. 5	j		723		7. 7	
Fabrics group	3, 247	, 5	- -	944, 444 154, 530	1, 125	-	7.8	
Wearing-apparel group	416 3, 339	; 2		359, 504	770 1, 424		7. 2	
Miscellaneous textiles n. e. c.	367	3		43, 038	1, 237		5.0	
Wiscenaneous textiles II. e. c	307	0	i	40,000	1, 201	~	4.0	
Leather group	1,053	. 6		223, 504	1,469		10.4	
Boot and shoe stock	121				330			
Food group	5, 590	15		488, 260	1, 268		9.1	
Slaughtering and meat pack-			i .	100.000	100			
ing				128, 308	436		13.6	
Paper group	4,005	22	· 	381, 113	3,648	ł	6.0	
Paper group Paper and pulp	445	, 0		130, 538	2, 532		6.8	
Paper and pulp	1,606	. 5	·	82, 479	87	i	3.6	
Printing newspapers	732	4		66,239	203		6.0	
Chemical group	2,218	. 15	!	310, 829	5, 325		5.3	
Chemicals					4, 019			
Chemicals n. e. c.					552		8. 2	
Miscellaneous manufacturing.		, 4			1,598	[]	6.4	
All nonmanufacturing		43			4, 045		8.5	
Matallifarous mining					2, 248		10.0	
Metalliferous mining					692		10.0	
Wholesale trade		4 7	! !		1			
Retail trade					362		10.1	
190 VOLI VI GUU					1 002	1	10.1	

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

² No decreases reported.

D 11

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 November and December 1940 are given in table 14.

Table 14.—Employment and Pay Rolls for the Executive Service of the United States Government, December 1940 ¹

-						
	E	mploymen	t		Pay rolls	
Class	December 1940	November 1940	Per- centage change	December 1940	November 1940	Per- eentage change
Entire service:	1, 185, 558	1, 111, 530	+6.7	\$183, 606, 341	\$168, 388, 802	+9.0
Regular appropriation Emergency appropriation Force-account	997, 262 48, 525 139, 771	932, 760 49, 090 129, 680			145, 248, 171 6, 566, 378 16, 574, 253	+9.7 -1.2 +6.8
Inside the District of Columbia: Total	155, 973	152, 605	+2.2	27, 097, 405	26, 244, 698	+3.2
Regular appropriation Emergency appropriation Force-account	139, 204 7, 489 9, 280	136, 083 7, 517 9, 005		24, 185, 785 1, 167, 395 1, 744, 225	23, 364, 972 1, 163, 721 1, 716, 005	
Outside the District of Columbia: Total	1, 029, 585	958, 925	+7.4	156, 508, 936	142, 144, 104	+10.1
Regular appropriation	858, 058 41, 036 130, 491	796, 677 41, 573 120, 675	+7. 7 -1. 3 +8. 1	135, 223, 193 5, 320, 416 15, 965, 327	121, 883, 199 5, 402, 657 14, 858, 248	+10.9 -1.5 +7.5
	·	 - '		-		

¹ 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 December on construction projects financed from Public Works Administration funds are given in table 15, by type of project.

Table 15.—Employment and Pay Rolls on Projects Financed From Public Works
Administration Funds, December 1940 1
[Subject to revision]

	[Dubjec	0 00 10 1150	VII			
	Emple	yment	Monthly	Man-hours	Average	Value of material
Type of project	Maxi- mum ²	Weekly average	Monthly pay rolls	worked during month	earnings per hour	orders placed dur- ing month
All programs.	24, 676	20, 825	\$2, 703, 209	2, 654, 312	\$1.018	\$3, 446, 179
	Federal	projects fi	nanced from fo	National In inds	dustrial R	ecovery Act
All projects	\$ 557	505	\$54, 307	88, 294	\$0.615	\$82, 347
						1

See footnotes at end of table.

Table 15.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, December 1940—Continued

	Emplo	ryment	Monthly	Man-hours worked	Average	Value of material
Type of project	Maxi- mum	Weekly average	pay rolls	during month	earnings per hour	orders placed dur- ing month
	Federa			m Public We		nistration
i.				Act 1930 1		
All projects	2, 833	2, 568	\$313, 081	334, 751	\$0. 935	\$428,096
Airport construction (exclusive of						
buildings) Building construction	300 1, 285	299 1, 149	33, 585 135, 702	45, 458 121, 792	. 739 1. 114	55, 997 196, 550
Electrification.	7	7	758	838	. 905	302
Reclamation	908	829	122, 605	138, 582	. 885	124, 953
River, harbor, and flood control. Streets and roads	141 98	123 96	4, 378 9, 168	8, 273 13, 145	. 529 . 697	14, 183 31, 794
Water and sewerage	18	16	2,008	1. 683	1, 193	1, 561
Miscellaneous	45	33	3, 012	3, 148	. 957	2, 550
Professional, technical, and clerical	31	16	1, 865	1, 832	1, 018	206
	Non-Fee	leral proje		from Nation	al Industri	ial Recovery
All projects 6	623	. 492	\$44, 284	50, 180	\$0.883	\$35, 453
Building construction 6	320	221	25, 172	19, 058	1. 321	22, 136
Streets and roads.	254	231	15, 776	27, 245	. 579	13, 064
Miscellaneous	49	40	3, 336	3, 877	. 860	253
				nced from E 5, 1936, and		
All projects.	4, 034	3, 547	\$398, 741	516, 919	\$0.771	\$696, 074
Building construction	514	406	58, 220		1. 300	
Electrification	722	599	56, 170	82,005	. 685	61, 591
Heavy engineering Water and sewerage	2, 710 88	2, 469 73	273, 609 10, 742	378, 984 11, 130	. 722 . 965	554, 984 6, 492
; ;	Ŋ			nanced from opriation Act		
į.				 .		
All projects	16, 629	13, 713	\$1, 892, 796	1, 664, 168	\$1.137	\$2, 204, 209
Building construction	4, 179	3, 379	482, 222	376, 985	1. 279	714, 325
Electrification.	476	391	55, 362	43, 149	1. 283	137, 595
Heavy engineering Reclamation	4, 882 109	4, 156 76	671, 330 7, 817	597, 663 7, 818	1. 123 1. 000	650, 165 1, 648
Streets and roads	1, 596	1, 273	116, 746	128,068	. 912	88, 386
Water and sewerage	5, 387	4, 438	559, 319	510, 485	1.096	612, 090
				,	_	

UNITED STATES HOUSING AUTHORITY

Table 16 shows data concerning employment, pay rolls, and manhours worked in December 1940 on low-rent projects of the United States Housing Authority.

<sup>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 the Public Roads Administration.
Not available: weekly average included in total for all projects.
Includes data for workers engaged in construction of underground tunnel who, because of the additional risk involved, were paid at rates higher than those usually paid for building construction.</sup>

Table 16.—Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, December 1940

	Employ	ment	Monthly	Man-bours worked	Average	Value of material
Geographic division	Maxi- mum ²	Weekly average	pay rolls	during month	earnings per hour	orders placed dur- ing month
All divisions	48, 008	40, 824	\$4, 886, 898	5, 171, 666	\$0. 945	\$6,699,014
New England	4,812	4, 133	610, 244	543, 776 713, 467	1, 122 1, 252	737, 349
East North Central	6, 999 5, 673	5, 880 4, 773	892, 921 710, 992	599, 110	1, 232	1, 184, 921 993, 311
West North Central	269	223	25, 617	28, 234	. 907	21, 669
South Atlantic	12, 969	11, 175	1, 109, 941	1, 430, 934	. 776	1, 562, 012
East South Central	6, 200	5, 147	552, 207	662, 211	. 834	719, 910
West South Central	7, 100	6, 040	662, 468	787, 856	. 841	997, 455
Mountain	851	729	103, 760	86,050	1. 206	236, 830
Pacific Outside continental United States	1,475 1,660	1, 247 1, 472	159, 430 59, 318	141, 764 178, 264	1.125 .333	203, 249 42, 308
Catorido Continuadas Chited Diales.	1,000	1, 1, 1, 2	30,010	1.0, 201	. 000	1 22,000

WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours worked in December on projects financed by the Work Projects Administration is shown in table 17, by type of project.

Table 17.—Employment and Pay Rolls on Projects Financed by the Work Projects
Administration, December 1940

[Subject to revision] Value of Employment Man-hours material A verage orders placed Monthly worked Type of project during pay rolls Maxi-Weekly per hour month during mum t average month Projects operated by Work Projects Administration 2 All projects. 1, 808, 595 | \$100, 148, 212 222, 528, 367 \$0, 450 (3) Projects operated by other Federal agencies 66, 308 \$3, 148, 501 7, 293, 567 All projects... \$0.432 \$455, 455 Airport construction (exclusive of buildings)
Building construction 5, 472 32, 191 6, 913 70, 428 1, 634, 547 293, 555 18, 318 292, 694 43, 415 344,642 30, 825 6, 907 3, 542, 803 720, 674 . 461 Forestry__ Grade crossing elimination 4 3, 495 52, 259 5, 299 204, 772 1, 212 **25, 364** 1, 184 . 255 688, 674 421, 282 7, 261 1, 132, 014 16, 389 107, 266 35, 430 6, 451 21, 520 6 481 321, 584 . 467 3, 631 6, 956 Professional, technical, and clerical. 3, 561 249, 220 . 592 4, 620 433, 540 7, 962 38, 392 9, 848 . 636 . 383 Public roads 4_____ 57 I 8, 187 30, 244 Reclamation. 8.049 . 486 . 358 . 278 162 718 River, harbor, and flood control... 175 3, 536 835 324 3, 994 304 Streets and roads Water and sewerage Miscellaneous....

Projects under construction in Puerto Rico.

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

² Data are for the calendar month. Will be published by type of project in January pamphlet.

³ Data on a monthly basis are not available.
4 Projects under the jurisdiction of the Public Roads Administration.

Data on employment, pay rolls, and man hours worked in December on each type of project operated by the Work Projects Administration were not available when this report was prepared. The figures for November are presented in table 18.

Table 18.—Employment and Pay Rolls on Projects Operated by the Work Projects
Administration, by Type of Project, November 1940

[Subject to revision]	Sub	iect	to	revisionl
-----------------------	-----	------	----	-----------

Type of project	Employ- ment i	Pay rolls	Man-hours worked	Average earnings per hour
All projects	1,746,065	\$90, 800, 674	200, 560, 625	\$0, 453
Conservation Highways, roads, and streets Professional and service, excluding sewing Public buildings Publicly owned or operated utilities	41, 906	2, 167, 242	4, 798, 590	. 452
	707, 156	33, 188, 550	79, 799, 022	. 416
	328, 260	20, 139, 868	40, 179, 517	. 501
	157, 146	8, 521, 405	17, 552, 602	. 485
	174, 607	8, 884, 360	18, 962, 790	. 469
Recreational facilities. Sanitation Sewing	78, 573	4, 422, 868	9, 026, 834	. 490
	20, 953	1, 083, 582	2, 614, 160	. 415
	122, 225	5, 899, 955	14, 714, 568	. 401
	45, 398	2, 044, 501	4, 530, 066	. 451
	69, 841	4, 448, 343	8, 382, 476	. 531
National defense vocational trainingOther	28, 656	1, 603, 779	3, 391, 463	. 473
	41, 185	2, 844, 564	4, 991, 013	. 570

¹ Data for "All projects" represent the average of the weekly employment counts made as of each Wednesday during the calendar month. The distribution by type of project is, except for "National Defense Vocational Training," estimated on the basis of employment on Nov. 27, 1940.

NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for November and December 1940 are shown in table 19.

Table 19.—Employment and Pay Rolls on National Youth Administration Projects
December and November 1940

[Subject to revision]

— — — —	Emple	oyment	Pay rolls		
Type of project	December	November	December	November	
Total	781,929	706, 307	\$9, 629, 742	\$8, 572, 169	
Student work program Out-of-school work program	450, 547 331, 382	439, 548 266, 759	3, 107, 372 6, 522, 370	3, 067, 736 5, 504, 433	
	Į.	ļ	l	Į.	

CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in November and December 1940 are presented in table 20.

Table 20.—Employment and Pay Rolls in the Civilian Conservation Corps, December 1940 1

-				
	Emplo	yment	Pay	rolls
Group	December 1940	November 1940	December 1940	November 1940
All groups	285, 731	321, 157	\$12, 928, 027	\$14, 016, 434
Enrolled personnel ² Nurses ³ Educational advisers ³ Supervisory and technical ³	251, 264 180 1, 528 32, 759	286, 560 204 1, 539 32, 854	7, 817, 785 24, 760 314, 125 4, 771, 357	8, 898, 469 27, 120 258, 148 4, 832, 697

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

CONSTRUCTION PROJECTS FINANCED BY RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in December are presented in table 21, by type of project.

Table 21.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, December 1940 1

[Subject to revision]

Type of project	Employ- ment ³	Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects Building construction ³ Streets and roads Water and sewerage Heavy engineering	1, 775	\$176, 660	196, 475	\$0.899	\$1, 147, 322
	1, 384	123, 311	137, 281	.898	989, 676
	92	9, 168	11, 902	.770	3, 880
	185	30, 123	34, 785	.866	142, 380
	114	14, 058	12, 507	1,124	11, 386

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 December are given in table 22, by type of project.

December data include 4,023 enrollees and pay roll of \$86,463 outside continental United States; in November the corresponding figures were 4,053 enrollees and pay roll of \$77,987.

Included in executive service, table 14.

Data are for the month ending on the 15th.
 Maximum number employed during any 1 week of the month by each contractor.
 Includes 546 employees; pay-roll disbursements of \$49,081; 52,247 man-hours worked; and material orders placed of \$50,265 on projects financed by RFC Mortgage Co.

Table 22.—Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, December 1940 1

	Employ	ment]	Man-hours	Average	Value of material
Type of project	Maxi- mum ⁹	Weekly average	Monthly pay rolls	worked during month	earn- ings per hour	orders placed during month
All projects	³ 752, 830	697, 973	\$82,886,826	100, 350, 832	\$0.836	\$152, 544, 727
Airport construction Building construction Electrification: Rural Electrification Adminis-	23, 248 447, 631	21, 993 408, 308	2, 464, 914 47, 519, 839	2, 736, 076 57, 614, 867	. 901 . 825	4, 647, 264 83, 816, 345
Other than R. E. A. projects	8, 384 729 11	6, 933 596 11	60, 324	875, 892 65, 828 1, 760	.517 .916 .570	2, 152, 610 124, 781 194
Heavy engineering Public roads 6 Reclamation	106 (6) 26, 055	106 39, 439 25, 243	13, 747	11, 278 5, 258, 841	1, 219 . 654 . 904	79, 194 9, 524, 360 4, 880, 969
River, harbor, and flood control: Dredging, dikes, revetments, etc. Locks and dams. Ship construction:	38, 243 7, 235	34, 344 6, 476	3, 661, 960 920, 826	5, 131, 583 1, 090, 035	.714 .845	4, 999, 272 1, 122, 846
Naval vessels. Other than naval vessels. Streets and roads	112, 021 27, 417 4, 082	108, 194 25, 012 3, 619	16, 491, 093 2, 999, 695 377, 283	18, 174, 969 3, 488, 167 545, 418	. 907 . 860 . 692	34, 299, 080 4, 897, 887 637, 611
Water and sewerage	1, 168 17, 061	1,050 16,649		136, 345 1, 194, 077	. 791 . 618	278, 655 1, 083, 659

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 December 1940, compared with November 1940, and December 1939, is presented in table 23.

Table 23.—Employment and Pay Rolls on Construction and Maintenance of State Roads, December 1940, November 1940, and December 1939 1

(Subject to revision)

		_					
	I	Employment	3		Pay rolls		
Item	December 1940	November 1940	December 1939	December 1940	November 1940	December 1939	
]		
Total	 142, 539	179, 345	122, 882	\$10, 889, 588	\$12, 676, 303	\$9,030,150	
New roads Maintenance	 34, 310 108, 229	50, 846 128, 499	19, 066 103, 816	2, 320, 342 8, 569, 246	3, 660, 844 9, 015, 459	1, 246, 390 7, 783, 760	
	!	,	ļ.	' _	,	'	

Projects financed wholly from State or local funds. December and November 1940 data are for the calendar month; December 1939 for the month ending on the 15th.
 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.

PURCHASES FROM PUBLIC FUNDS 1

Table 24 shows the value of material orders placed on construction projects financed by Federal funds in the fourth quarter of 1940. Material orders placed on construction projects operated by the Work Projects Administration, not included in this table because data were not available, will be included in the complete report for the fourth quarter to be published in the March pamphlet.

In the fourth quarter of 1940 on construction projects financed from regular Federal appropriations, orders were placed for materials valued at approximately \$401,358,000. Of this amount \$86,915,000 was expended for iron and steel products, \$180,204,000 for machinery, \$28,534,000 for cement and concrete products, and \$36,780,000 for forest products. Of the \$13,375,000 of material orders placed on the Public Works Administration program, \$4,118,000 was for iron and steel products, \$2,743,000 for machinery, \$1,453,000 for cement and concrete products, and \$824,000 for forest products.

Previous sections of this report have shown the number of workers employed at the site of construction projects financed from Federal funds. The direct employment, however, is only a partial picture, as the manufacture of the materials used on the projects also creates a large amount of employment.

Estimates have been made of the man-months of labor created in fabricating the materials used on the various programs (see table 3). The estimates include only the labor required in the fabrication of materials in the form in which it is to be used. No estimate is made of the labor required in producing the raw materials or in transporting them to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills; no estimate is made for the labor created in mining, smelting, and transporting the ore; nor for the labor in blast furnaces, the open hearth furnaces, and the blooming mills.

The information concerning man-months of labor created in fabricating materials is obtained by sending a questionnaire to each firm receiving an award for materials to be financed from Federal or State funds. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased directly by contractors the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the 1937 Census of Manufacturers.

The value of material orders placed on all construction projects financed by Federal funds during the third quarter of 1940, is presented in table 25, by type of project.

¹ Unless otherwise specified, data presented in this section are as of the 15th of the month.

Table 24.-Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1940

Crushed stone.				Projects		
Textiles and their products	Type of material	Works Adminis-	low-rent	struction Finance Corpora-	Regular Federal	agency projects financed from W. P. A.
Awnings, tents, canvas, etc.	All materials	\$13,374,552	\$21,276,497	\$1,846,261	\$401,358,476	\$1,841,371
Carpets and rugs. Cordage and twine. Cordage and twine. Felt products. 3 3 3 48 503 3 9 Jute products. Socks and bags, other than paper. Upholstering, filling, batting, padding, and wadding. Waste and related products. Textiles and their products, n. e. c. Trest products. Cord products. Sacks and bags, other than paper. Upholstering, filling, batting, padding, and wadding. Textiles and their products, n. e. c. Trest products. Textiles and their products, n. e. c. Trest products. Cord products. Sacks and pags, other than paper. Cord products. Sacks and bags, other than paper. Sacks and bags, other than paper. Cord products. Sacks and bags, other than paper. Sacks and bags and waster strip. Sacks and bags and sacks an	Textiles and their products	4, 491	99, 741	7, 467	479, 243	5, 660
Cordage and twine			3, 135		209, 546	1,320
Sacks and bags, other than paper 100	Cordage and twine	743				
Sacks and bags, other than paper 100	Felt products.	32				
Sacks and bags, other than paper 100	Jute products	276	265	14	2, 893	
Waste and related products. 123 246 4, 456 322 Textiles and their products. 123 776 1,130 94 1,456 2,875 Forest products. 823,765 2,438,912 70,079 36,779,714 261,560 Cork products. 189,628 69,521 13,524 1,692,391 3,948 Furniture and related products. 210,164 1,035,775 27,044 6,285,063 68,534 Planting-mill products. 210,164 1,035,775 27,044 6,285,063 68,534 Window and door screens and weatherstrip. 20,20 40,685 2,881 12,021 Forest products, n. e. c. 11,469 45 16,686 22 Chemicals and allied products. 8,201 1,862 429 62,904 5,170 Explosives. 68,020 842 207 985,010 4,827 Paints, pigments, and varnishes. 112,006 446,300 6,127 1,077,478 40,395 Chemicals and allied products. 3,763,124 5,990	ering	1 600	94, 604	7, 096	17, 798	
Waste and related products. 123 246 4, 456 322 Textiles and their products. 123 776 1,130 94 1,456 2,875 Forest products. 823,765 2,438,912 70,079 36,779,714 261,560 Cork products. 189,628 69,521 13,524 1,692,391 3,948 Furniture and related products. 210,164 1,035,775 27,044 6,285,063 68,534 Planting-mill products. 210,164 1,035,775 27,044 6,285,063 68,534 Window and door screens and weatherstrip. 20,20 40,685 2,881 12,021 Forest products, n. e. c. 11,469 45 16,686 22 Chemicals and allied products. 8,201 1,862 429 62,904 5,170 Explosives. 68,020 842 207 985,010 4,827 Paints, pigments, and varnishes. 112,006 446,300 6,127 1,077,478 40,395 Chemicals and allied products. 3,763,124 5,990	Upholstering, filling, batting, padding, and					111
Cork products		123	246		4, 436	325
Cork products	Textiles and their products, n. e. c	776	1, 130	94	174, 558	2,875
Furniture and related products. 189, 628	Forest products	823, 765	2, 438, 912	70,079	36, 779, 714	261, 560
Window and door screens and weatherstrip	Cork products	23, 713			18, 574	
Window and door screens and weatherstrip	Lumber and timber products n.e.e.	189, 628	1 202 824	26 930	1,692,391	3,948
Window and door screens and weatherstrip	Planing-mill products	210, 164	1, 035, 775	27,044	6, 285, 963	68, 534
Chemicals and allied products	Window and door screens and weatherstrip.	20, 202	40,685	2, 581	12,021	1
Ammunition and related products. Compressed and liquefied gases. Explosives. Chemicals and allied products, n. e. c. 112, 006 68, 020	- · · · · · · · · · · · · · · · · · · ·	1, 409	40		10,080	
Explosives			459, 410	58, 935	2, 973, 604	52, 879
Explosives	Ammunition and related products					
Stone, clay, and glass products. 3,763,124 5,950,866 135,516 57,448,426 362,062 Asbestos products, n. e. c. 8,895 59,645 11,336 19 Brick, hollow tile, and other clay products, n. e. c. 429,044 1,613,559 5,474 2,242,487 14,945 Cement. 908,746 573,268 57,480 21,988,646 191,376 Concrete products. 543,798 2,260,998 28,317 6,544,938 28,640 Crushed stone 84,039 2,604 5,903 6,487,731 18,800 Glass 151,630 95,895 4,622 435,613 30,161 Lime 2,896 104,844 5,580 4,852 409 Marble, granite, slate, and other stone, cut and shaped 461,614 101,350 117 1,568,962 16,009 Minerals and earths, ground or otherwise treated 43 740 113 133 Sand and gravel 798,190 364,817 9,279 12,864,052 33,628 Steam and other packing, pipe and boiler covering, and gaskets 81,441 164,616 760 55,759 11 Tilling, floor and wall, and terrazzo 161,747 87,642 10,082 364,622 4,952 Wall plaster, wallboard, and building insulation 104,520 470,838 7,782 2,624,952 22,214 Stone, clay, and glass products, n. e. c 26,521 50,050 120 93,281 925 Iron and steel and their products, not including machinery 4,118,038 7,233,363 376,300 86,915,152 330,769 Bolts, nuts, washers, and rivets 31,103 3,007 1,989 1,289,253 9,072 Doors, shutters, window sash and frames, molding and trim, metal 469,888 907,805 13,395 3,724,722 6,269 Frogings, iron and steel 51,121 4,750 3,717,135 4,083 144,084 144,0	Explosives	.1 68.020	1,802	207	985, 010	3, 170 4, 827
Stone, clay, and glass products. 3,763,124 5,950,866 135,516 57,448,426 362,062 Asbestos products, n. e. c. 8,895 59,645 11,336 19 Brick, hollow tile, and other clay products, n. e. c. 429,044 1,613,559 5,474 2,242,487 14,945 Cement. 908,746 573,268 57,480 21,988,646 191,376 Concrete products. 543,798 2,260,998 28,317 6,544,938 28,640 Crushed stone 84,039 2,604 5,903 6,487,731 18,800 Glass 151,630 95,895 4,622 435,613 30,161 Lime 2,896 104,844 5,580 4,852 409 Marble, granite, slate, and other stone, cut and shaped 461,614 101,350 117 1,568,962 16,009 Minerals and earths, ground or otherwise treated 43 740 113 133 Sand and gravel 798,190 364,817 9,279 12,864,052 33,628 Steam and other packing, pipe and boiler covering, and gaskets 81,441 164,616 760 55,759 11 Tilling, floor and wall, and terrazzo 161,747 87,642 10,082 364,622 4,952 Wall plaster, wallboard, and building insulation 104,520 470,838 7,782 2,624,952 22,214 Stone, clay, and glass products, n. e. c 26,521 50,050 120 93,281 925 Iron and steel and their products, not including machinery 4,118,038 7,233,363 376,300 86,915,152 330,769 Bolts, nuts, washers, and rivets 31,103 3,007 1,989 1,289,253 9,072 Doors, shutters, window sash and frames, molding and trim, metal 469,888 907,805 13,395 3,724,722 6,269 Frogings, iron and steel 51,121 4,750 3,717,135 4,083 144,084 144,0	Paints, pigments, and varnishes	112,006	446, 300	6, 127	1, 077, 478	40,395
Asbestos products, n. e. c. Brick, hollow tile, and other clay products, n. e. c. 129,044 1,613,559 3,788 57,474 2,242,487 14,945 26ment 2908,746 573,288 57,480 21,988,646 191,376 543,798 22,860,985 28,317 6,544,982 28,840 Crushed stone 84,039 2,604 5,903 8,648,793 18,800 151,630 95,895 104,844 5,580 4,622 435,613 30,161 Lime 2,896 104,844 5,580 4,622 435,613 30,161 117 1,568,962 16,009 Minerals and earths, ground or otherwise treated 43 740 Minerals and earths, ground or otherwise treated 43 784,009 Minerals and earths, ground or otherwise treated 43 784,009 Minerals and earths, ground or otherwise treated 43 784,009 Minerals and earths, ground or otherwise treated 43 784,009 Minerals and earths, ground or otherwise treated 43 784,009 Minerals and earths, ground or otherwise treated 43 784,009 Minerals and earths, ground and boiler covering, and gaskets. 133 8and and gravel 104,614 101,350 117 1,568,962 16,009 118,305 117 1,568,962 16,009 118,305 117 1,568,962 16,009 118,305 119 118,008 119 118,008 117 1,568,962 118,009 118,800 119,800 119,800 110,80			· 			
Marble, granite, slate, and other stone, cut and shaped. Minerals and earths, ground or otherwise treated. Sand and gravel. Steam and other packing, pipe and boiler covering, and gaskets. Tilling, floor and wall, and terrazzo. Wall plaster, wallboard, and building insulation. Iation. Item and steel and their products, n. e. c. Bolts, nuts, washers, and rivets. Bolts, nuts, washers, and riv	A sheetes products n a a	3, 763, 124		135, 516]	
Marble, granite, slate, and other stone, cut and shaped. Minerals and earths, ground or otherwise treated. Sand and gravel. Steam and other packing, pipe and boiler covering, and gaskets. Tilling, floor and wall, and terrazzo. Wall plaster, wallboard, and building insulation. Iation. Item and steel and their products, n. e. c. Bolts, nuts, washers, and rivets. Bolts, nuts, washers, and riv	Brick, hollow tile, and other clay products,	0,000	1		1	
Marble, granite, slate, and other stone, cut and shaped. Minerals and earths, ground or otherwise treated. Sand and gravel. Steam and other packing, pipe and boiler covering, and gaskets. Tilling, floor and wall, and terrazzo. Wall plaster, wallboard, and building insulation. Iation. Item and steel and their products, n. e. c. Bolts, nuts, washers, and rivets. Bolts, nuts, washers, and riv	Cement	429, 044	1,613,559	5, 474	2, 242, 487	14,945
Marble, granite, slate, and other stone, cut and shaped. Minerals and earths, ground or otherwise treated. Sand and gravel. Steam and other packing, pipe and boiler covering, and gaskets. Tilling, floor and wall, and terrazzo. Wall plaster, wallboard, and building insulation. Iation. Item and steel and their products, n. e. c. Bolts, nuts, washers, and rivets. Bolts, nuts, washers, and riv	Concrete products	543, 798	i 2, 260, 998	28, 317	6.544.938	28,640
Marble, granite, slate, and other stone, cut and shaped. Minerals and earths, ground or otherwise treated. Sand and gravel. Steam and other packing, pipe and boiler covering, and gaskets. Tilling, floor and wall, and terrazzo. Wall plaster, wallboard, and building insulation. Iation. Item and steel and their products, n. e. c. Bolts, nuts, washers, and rivets. Bolts, nuts, washers, and riv	Crushed stone	84,039	2,604	5, 903	8, 648, 793	18,800
Marble, granite, slate, and other stone, cut and shaped. Minerals and earths, ground or otherwise treated. Sand and gravel. Sand and gravel. Sand and gravel. Sand and gravel. Tiling, floor and wall, and terrazzo. Wall plaster, wallboard, and building insulation. Stone, clay, and glass products, n. e. c. Botts, nuts, washers, and rivets. Botts, nuts, washers,	Lime	2 896	95, 895 104, 844	5, 580	435, 613	30, 161
treated 43 740 133 133 133 134 135 135 135 135 135 135 135 135 135 135	Marble, granite, slate, and other stone, cut	Ì		,		
treated 43 740 133 133 133 134 135 135 135 135 135 135 135 135 135 135	Minerals and earths, ground or otherwise	101,011		1 11'	1,000,002	10,000
Nation				9, 279	133	33, 628
Nation	Steam and other packing, pipe and boiler	01 441	164 616	700	EE 750	,
Stone, clay, and glass products, n. e. c. 26, 521 50, 050 120 93, 281 925 120 120 93, 281 925 120	Tiling, floor and wall, and terrazzo	161, 747	87, 642		364, 622	4, 935
Tron and steel and their products, not including machinery	lation	104, 520			2, 624, 952	22, 214
Bolts, nuts, washers, and rivets	Stone, clay, and glass products, n. e. c.	26, 521	50,050	120	93, 281	925
Doors, shutters, window sash and frames, molding and trim, metal. 469, 888 907, 805 13, 395 3, 724, 722 6, 269	Iron and steel and their products, not including machinery	4, 118, 038	i i 7, 233, 363	376, 300	86, 915, 152	330, 769
Doors, shutters, window sash and frames, molding and trim, metal. 469, 888 907, 805 13, 395 3, 724, 722 6, 269	Bolts, nuts, washers, and rivets	31, 103	3,007	1, 989	·	9,072
Forgings, fron and steel. 51, 121 4,750 3,717, 135 4,083 Hardware, miscellaneous 198, 303 415, 638 9,606 2,028,294 49,701 pipe 314,433 859,036 20,944 7,329,300 22,426	Doors, shutters, window sash and frames,	469, 888	907, 805	13, 395	3, 724, 722	6, 269
Hardware, miscellaneous. 198, 303 415, 638 9, 606 2, 028, 294 49, 701 Heating and ventilating equipment, except pipe. 314, 433 859, 036 20, 944 7, 329, 300 22, 426	Forgings, iron and steel	51, 121		4, 750	3, 717, 135	4,083
pipe	Hardware, miscellaneous Heating and ventilating equipment, except	198, 303	:	9, 606	2, 028, 294	49, 701
	pipe	. 314, 433	859, 036	20,944	7, 329, 300	22, 426

Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriations Acts of 1935, 1936, and 1937, and P. W. A. A. 1938 funds. Data on low-rent housing projects financed from N. I. R. A. and E. R. A. A. 1935 funds are also included.

Includes projects financed by RFC Mortgage Co.
Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A. 1938, and sec. 11-A, E. R. A. A. 1939.

Table 24.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1940—Continued

Federal Funds for the Fourth Quarter of 1940—Continued ————————————————————————————————————							
	Projects						
Type of material	Public Works Adminis- tration	U.S.H.A. low-rent housing	Recon- struction Finance Corpora- tion	Regular Federal	Federal agency projects financed from W. P. A. funds.		
Iron and steel, etc.—Continued.		1					
Nails and spikes. Pipe and fittings, east-iron Pipe and fittings, wrought-iron and steel. Plumbing fixtures and supplies, except pipe Rail fastenings, except spikes. Rails, steel. Springs, steel.	184, 512	\$6, 219 489, 808 379, 827 1, 511, 431	\$1, 423 4, 340 111, 682 13, 117	\$645, 595 4, 736, 099 6, 549, 754 3, 602, 507 3, 232 68, 976	\$6,540 38,091 40,318 58,982		
Steel, reinforcing	1, 013, 794	1, 419, 563	12,061	8, 205, 728	22, 693		
Steel, reinforcing Steel, structural Stoves and ranges, other than electric	720,860	720,052	94, 444 587	18, 732, 883	27,019		
Switches, railway Tools, other than machine tools. Wire and wireworks products. Iron and steel and their products, n. e. c	47, 498 83, 368 550, 410	10, 227 92, 978 298, 766		2, 128, 176 3, 363, 855 20, 762, 209	15, 679 21, 064 8, 826		
Nonferrous metals and their products	224, 675	559, 163	216, 592	5, 097, 442	18, 794		
Aluminum products Copper products Lead products Sheet-metal products Zinc products	18, 047 65, 600 1, 451 116, 330	4, 911 1, 462 5, 509 251, 113	170, 606 6 45, 973	277, 848 2, 943, 092 31, 318 1, 288, 898 245	12 2, 887 133 15, 427		
Nonferrous metals and their products, n. e. c.	23, 247	296, 168	7	556, 04 1	335		
Machinery, not including transportation equipment	2, 742, 939	1, 645, 418	850, 447	180, 203, 963	179, 894		
Electrical machinery, apparatus and supplies. Electrical wiring and fixtures. Elevators and elevator equipment. Engines, turbines, tractors, and water wheels.	225, 157 88, 318	7, 245 1, 234, 678 23, 973 1, 369 147	173, 558 43, 958 21, 311 27, 279 3, 031	32, 473, 328 17, 208, 053 1, 742, 840 64, 056, 215 8, 912, 974	15, 789 64, 107 5, 447 15, 413 8, 846		
Machine tools	3, 018 211, 842 2	5, 956 68, 657	14, 520 19, 363	4, 541 14, 502, 178 159, 585	6, 222		
ing apparatus	14, 034 352, 414	164, 936 138, 457	30, 997 516, 430	323, 944 40, 820, 305	64, 070		
Transportation equipment, air, land, and water		1,766		2, 401, 801	52, 818		
Aircraft Aircraft parts Boats, steel and wooden Carriages and wagons Locomotives, other than steam	6, 041	122		200, 788 245	902		
Motoroveles and ports							
Motor vehicles, passenger Motor vehicles, trucks Railway cars, freight Railway cars, mail and express	6, 123 2, 453	1, 644		237, 146	6, 726 35, 765		
Railway cars, mail and express Railway cars, passenger Transportation equipment, n. c. c.							
Transportation equipment, n. c. c.	1,001				9, 425		
Miscellaneous	1, 482, 570	2, 887, 858	130, 717	29, 059, 131	576, 935		
Belting, miscellaneous Coal and coke Creosote Creosote			22	2, 938 329, 384 1, 585 130, 882	1 43		
Instruments, professional and scientific Mattresses and bed springs Models and patterns Paper products		80 12, 581	47	272 25, 635 46, 463	3, 158		
Paper products Paving materials; asphalt, tar, crushed slag, and mixtures. Petroleum products Photographic apparatus and supplies.	198, 675 335, 615 232	47, 843 104, 214 1, 153	250 10, 273	6, 544, 072 7, 212, 154 29, 428	136, 905 50, 073 1, 970		
Roofing: Built-up and roll, asphalt shingles and roof coatings except paint Rubber products	49, 476 9, 954	246, 003 1, 128	2, 606 2, 648	1, 417, 632 382 987	19, 071 5, 640		
Theatrical sconery and stage equipment Window shades and fixtures Other materials	4,820	69, 744 2, 400, 688	114, 871	1, 599 1, 842 12, 932, 258	718 358, 278		

Table 25.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter of 1940
[Subject to revision]

	Total	Projects					
Type of material		Public Works Administra- tion ¹	U. S. H. A. low-rent housing	Reconstruction Finance Cor- poration ²	Regular Federal	Federal agency projects financed from W. P. A. funds ³	Operated by W. P. A. 4
All materials	\$362, 724, 077	\$31, 597, 398	\$23, 636, 679	\$1,010,378	\$221, 671, 123	\$1, 759, 319	\$83, 049, 180
Textiles and their products.	7, 628, 288	109, 325	116, 065	2, 373	163, 991	4,094	7, 232, 440
Cotton products	4, 315, 272 3, 313, 016	28 109, 297	14 116, 051	2, 373	109 163, 882	122 3, 972	4, 314, 999 2, 917, 441
Forest products	21, 730, 102	3, 548, 479	2, 638, 794	33, 278	7, 917, 284	188, 231	7, 404, 036
Furniture and related products. Lumber and timber products, n. e. c. Forest products, n. e. c.	3, 822, 715 17, 846, 777 60, 610	2, 515, 369 1, 000, 932 32, 178	92, 556 2, 546, 185 53	894 26, 919 5, 465	927, 446 6, 976, 011 22, 827	10, 729 177, 415 87	275, 721 7, 128, 315 0
Chemicals and allied products	4, 367, 419	324, 955	386, 233	8,044	1, 336, 960	39, 764	2, 271, 463
Explosives	1, 519, 655 2, 190, 088 657, 676	115, 536 169, 480 39, 939	7, 649 370, 864 7, 720	115 6, 104 1, 825	791, 407 474, 934 70, 619	7, 365 26, 554 5, 845	597, 583 1, 142, 152 531, 728
Stone, clay, and glass products	89, 445, 423	8, 420, 742	6, 372, 334	214, 258	44, 553, 770	277, 381	29, 606, 938
Brick, bollow tile, and other clay products	13, 406, 852	851, 952 2, 223, 191 1, 708, 789 748, 482 1, 573, 609 124, 623 1, 190, 096	1, 533, 342 673, 741 2, 322, 283 88, 319 345, 883 626, 760 782, 006	6, 748 59, 079 23, 409 5, 205 8, 517 20, 049 91, 251	817, 287 20, 711, 654 1, 742, 779 6, 491, 429 12, 428, 233 654, 167 1, 708, 221	20, 624 105, 629 26, 328 22, 899 58, 473 12, 294 31, 134	2, 784, 504 8, 157, 483 4, 302, 775 6, 050, 518 5, 904, 916 476, 939 1, 929, 803
Iron and steel, and their products not including machinery	79, 370, 068	9, 643, 978	8, 168, 674	240, 775	46, 981, 510	305, 234	14, 029, 897
Hardware, miscellaneous. Pipe and fittings, cast iron. Plumbing, heating, ventilating equipment, except pipe. Structural and reinforcing steel. Tools, other than machine tools. Iron and steel and their products, n. e. c.	1, 597, 322	256, 801 669, 885 1, 217, 651 4, 586, 774 82, 936 2, 829, 931	436, 508 641, 376 3, 172, 983 2, 291, 819 11, 749 1, 614, 239	13, 799 8, 165 50, 186 51, 317 4, 469 112, 839	779, 909 1, 200, 792 3, 201, 818 26, 362, 688 988, 428 14, 447, 875	40, 195 33, 639 35, 311 91, 534 14, 355 90, 200	1, 345, 256 3, 048, 035 2, 318, 947 2, 637, 285 495, 385 4, 184, 989

Nonferrous metals and their products	4, 132, 448 [533, 892	652, 928	203, 106	2, 368, 781	10, 772	362, 969
Machinery, not including transportation equipment	110, 747, 910	6, 561, 487	2, 381, 957	270, 172	98, 225, 428	201, 275	3, 107, 591
Electrical machinery, apparatus, and supplies	31, 380, 408 79, 367, 502	3, 702, 716 2, 858, 771	1, 183, 521 1, 198, 436	126, 414 143, 758	24, 863, 437 73, 361, 991	36, 896 164, 379	1, 467, 424 1, 640, 167
Transportation equipment, air, land, and water	1, 822, 213	236, 375	113	321	955, 057	65, 918	564, 429
Miscellaneous	43, 480, 206	2, 218, 165	2, 919, 581	38, 051	19, 168, 342	666, 650	18, 469, 417
Coal and coke. Paving materials: Asphalt, tar, crushed slag, mixture. Petroleum products. Roofing: Built-up and roll, asphalt shingles and roof coatings, except paint. Rubber products. Other materials.	4, 691, 190 12, 213, 087 9, 247, 874 946, 204 425, 791 15, 956, 060	37, 304 404, 478 486, 697 94, 750 66, 802 1, 038, 134	962 68, 714 132, 205 319, 554 8, 542 2, 389, 604	11 226 10, 014 5, 826 2, 782 19, 192	4, 558, 301 2, 729, 301 5, 762, 988 231, 599 156, 323 5, 729, 830	3, 888 85, 647 58, 854 8, 946 7, 227 502, 088	90, 724 8, 834, 721 2, 797, 116 285, 529 184, 115 6, 277, 212

¹ Includes material orders placed on Public Works Administration projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937, and P. W. A. A. 1938 funds. Data on low-rent housing projects financed from N. I. R. A. and E. R. A. A. 1935 funds are also included.

Includes projects financed by RFC Mortgage Co.
Includes projects financed by transfer of W. P. A. funds to other Federal agencies under sec. 3, E. R. A. A. 1938, and sec. 11-A, E. R. A. A. 1939.
Does not include National Youth Administration projects.

The needs of the Work Projects Administration for motor vehicles, construction and other equipment, and miscellaneous services for use on work relief projects are supplied in part through the rental of equipment and the purchase of services. These rentals and services on projects operated by the Work Projects Administration for the third quarter of 1940, the second quarter of 1940, and the third quarter of 1939 are shown in table 26, by type of rental and service.

Table 26.—Rentals and Services on Projects Operated by Work Projects Administration
[Subject to revision]

Type of rental and service	Third quar- ter of 1940	Second quar- ter of 1940	Third quar- ter of 1939 ¹	
All rentals and services	\$61, 488, 716	\$67, 118, 105	\$59, 344, 055	
Motor vehicles Teams and wagons Construction equipment Other equipment Other rentals and services	24, 931, 270 290, 715 18, 561, 066 2, 892, 280 14, 813, 385	405, 360 17, 404, 927 2, 585, 824	23, 962, 891 473, 936 20, 591, 497 1, 592, 435 12, 723, 296	

0

Revised.