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

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Employment and Pay Rolls

SUMMARY OF REPORTS FOR SEPTEMBER 1939

Total Nonagricultural Employment

MORE than 500,000 workers were returned to employment in non-agricultural occupations between August and September. The major portion of this increase was in manufacturing industries, although there were also substantial gains in wholesale and retail trade, mining, and transportation. Compared with September a year ago, there were approximately 1,150,000 more workers employed in September 1939 in nonagricultural industries.

These figures do not include emergency employment, which decreased 123,000 in September. Decreases of 116,000 on projects operated by the Work Projects Administration and 21,000 in the Civilian Conservation Corps were partly offset by an increase of 14,000 on work projects of the National Youth A ministration, leaving a net decrease of 123,000.

Industrial and Business Employment

Employment gains from August to September were reported for 73 of the 90 manufacturing industries surveyed by the Bureau of Labor Statistics, and for 11 of the 16 nonmanufacturing industries covered. Increases in pay rolls were shown by 67 manufacturing and 11 nonmanufacturing industries.

Factory employment rose 3.8 percent from August to September, a gain of nearly 300,000 wage earners, and weekly pay rolls increased 4.3 percent, or \$7,300,000. The usual seasonal increases for September are 1.2 percent in employment and 1.0 percent in pay rolls. The September factory employment index of 100.0 (equaling the 3-year average for 1923-25, the base period) was 8.7 percent higher than September 1938 and above the level of any month since November 1937. Although the recovery in recent months has been unusually pronounced and the employment index has reached the 1923-25 average level for the first time in 22 months, factory employment in September of this year was still approximately 10 percent below the levels reached in July and August of 1937. The current factory payroll index (93.6) was 14.7 percent higher than a year ago and above the level of all months since October 1937.

As in July and August, most of the employment gains were larger than seasonal, particularly in the durable goods industries. Among the industries showing such increases were automobiles (106,700 workers), steel (16,700 workers), electrical machinery (9,800 workers), cottonseed oil, cake, and meal (8,200 workers), rayon and allied products (7,200 workers), foundries and machine shops (6,400 workers), furniture (5,500 workers), wirework (5,200 workers), brass, bronze, and copper products (4,900 workers), fertilizers (4,500 workers), machine tools (4,500 workers), shipbuilding (4,100 workers), lighting equipment (3,500 workers), millinery (3,200 workers), beet sugar (2,700 workers), chemicals (2,600 workers), and flour (1,500 workers).

Gains of about seasonal proportions were reported for cotton goods (9,700 workers), paper boxes (2,600 workers), and dyeing and finishing textiles (1,700 workers). Confectionery establishments and women's clothing firms reported smaller-than-seasonal employment increases of 8,000 workers and 5,700 workers, respectively. The 3.8 percent increase in aircraft manufacturing employment continued the unbroken succession of monthly gains which began in October of last year and raised the employment level for this industry to an all-time high which was nearly three times the 1929 level.

The principal employment declines from August to September were largely seasonal and were shown in shoe factories (8,000 workers), woolen mills (7,300 workers), hosiery firms (2,500 workers), beverage plants (2,200 workers), ice cream plants (1,600 workers), and canesugar refineries (1,200 workers). The decline in the cane sugar refining industry was due to labor difficulties.

Retail stores reported a slightly better-than-average September employment gain of 5.8 percent, or 186,000 workers. General merchandising concerns increased their forces seasonally by 11.4 percent and apparel stores by 20.9 percent. In food stores and in firms dealing in fuel, the September increases of 1.2 percent and 5.7 percent, respectively, were larger than the average September gain of the preceding 5 years. Employment in retail automobile establishments showed about the usual autumn employment decline (0.6 percent) preceding the showing of new models. In the remaining important groups of retail trade, employment changes followed the usual seasonal trend.

Employment in wholesale trade showed a greater-than-seasonal expansion of 1.6 percent, or 22,000 workers, virtually all lines of wholesale activity reporting gains. The September employment level for this industry (90.4 percent of the 1929 average) was above that registered during any of the preceding 18 months.

Coal mines continued to recall more workers in September, anthracite mines increasing their forces by 1,200 wage earners and bituminous-coal mines by 19,000. In each of these industries, pay

rolls rose more sharply than employment, reflecting increased production. Metal mines also reported an employment gain (3,000 workers), while quarries and nonmetallic mines reported a smaller-than-seasonal decline of 0.5 percent. Oil wells reduced their forces, reflecting curtailed operations in a number of States. Public utilities reported little change in employment, while brokerage firms, responding to increased market activity in mid-September, showed a large employment gain.

Employment in private building construction showed an increase of 0.6 percent from August to September, according to reports from 14,106 contractors employing 145,605 workers, and the volume of pay rolls increased 1.5 percent. There were employment gains in five of the nine geographic divisions. The South Atlantic States and the New England States showed the most marked employment improvement with gains of 2.8 percent and 1.8 percent, respectively. Increases of 1.0 percent, 0.7 percent, and 0.4 percent were reported for the West North Central, East North Central, and the East South Central States, respectively. A continued recession in all Mountain States except Montana, Idaho, and Utah resulted in a net reduction of 3.0 percent for this area. Employment in the Middle Atlantic States fell 0.5 percent, slight decreases in New York and New Jersey nullifying a small gain in Pennsylvania. In the West South Central States, employment decreased 0.2 percent and in the Pacific States, 0.1 percent. The reports on which the figures are based do not cover construction projects financed by the Work Projects Administration, the Public Works Administration, and the Reconstruction Finance Corporation, or by regular appropriations of the Federal, State, or local governments.

A preliminary report of the Interstate Commerce Commission showed an employment gain by class I railroads from August to September of 1.4 percent, the total number at work in September being 1,019,063. Corresponding pay rolls were not available when this report was prepared. For August they were \$160,315,811, an increase of 3.5 percent over the July figure of \$154,856,716.

Hours and earnings.—The average hours worked per week by wage earners in manufacturing industries were 37.9 in September, a loss of 0.3 percent since August. The average hourly earnings of these workers were 64.3 cents, a gain of 0.7 percent as compared with the preceding month. Average weekly earnings of factory workers climbed 0.5 percent to \$24.69.

Of the 14 nonmanufacturing industries for which man-hours are available, 7 showed increases in average hours worked per week and 11 showed gains in average hourly earnings. Twelve of the sixteen nonmanufacturing industries surveyed reported higher average weekly earnings.

Employment and pay-roll indexes and average weekly earnings in September 1939 for all manufacturing industries combined, for selected nonmanufacturing industries, and for class I railroads, with percentage changes over the month and year intervals, are presented in table 1.

Table 1.—Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, September 1939

	Eı	nplo ym	ent		Pay rol	1	Average weekly earnings				
Industry						entage from	Average in	Percentage change from-			
	tember 1939	Au- gust 1939	Sep- tember 1938	Sep- tember 1939	Au- gust 1939	Sep- tember 1938	Sep- tember 1939	Au- gust 1939	Sep- tember 1938		
All manufacturing industries	(1923-25 = 100)			(1923-25 =100)							
combined 1	100.0	+3.8	+8.7	93. 6	+4.3	+14.7	\$24.69	+0.5	+5.5		
Class I steam railroads 2	57. 1 (1929 =100)	+1.4	+5.8	(2) (1929 = 100)	(8)	(3)	(3)	(3)	(3)		
Coal mining: Anthracite Bituminous Metalliferous mining	49. 4 85. 6 63. 1	+1.9 +5.1 +4.5	+6.4 +2.6 +14.3	40. 0 81. 0 55. 2	+18.3 +8.2 +4.5	+36. 2 +12. 6 +19. 8	26. 86 25. 56 27. 46	+16.1 +3.0 +.1	+28.0 +9.8 +4.8		
Quarrying and nonmetallic mining. Crude-petroleum producing. Public utilities:	48. 0 65. 0	5 -2.6	+7.7 -9.2	42. 8 60. 8	4 -2.0	+11.5 -8.6	22. 26 34. 33	+(5) +.7	+3.5 +.6		
Telephone and telegraph	75. 3	3	+.5	94.8	+.5	+2.4	6 30. 77	+.9	+1.8		
Electric light and power and manufactured gas Electric-railroad and	93. 8	+(5)	+1.5	101. 2	+.1	+2.8	6 33. 96	+.1	+1.3		
motorbus operation and maintenance Trade:	69. 9	+.1	+.8	70.4	8	+2.9	6 32, 91	9	+2.1		
Wholesale	90. 4 87. 3 100. 1	+1.6 +5.8 +11.4	+2. 2 +3. 1 +3. 2	77. 8 72. 3 88. 3	+2.1 +4.2 +8.9	+4.8 +4.2 +3.5	6 30. 00 6 20. 95 6 17. 62	+. 5 -1. 5 -2. 3	+2.5 +1.2 +.3		
Other than general merchandising. Hotels (ycar-round) ⁴⁷	(3)	+4.1 +1.5 -1.4 +2.4 +6.0 4	+2.9 7 +1.3 -2.4 -1.0 +.9	69. 0 80. 4 84. 4 78. 3 (³)	+2.9 +1.3 -1.8 +7.2 +10.9 2	+4.3 +2.0 +3.7 -4.2 +3.2 +2.4	6 23. 77 6 15. 15 17. 67 20. 35 6 36. 81 6 34. 10	-1.1 2 3 +4.7 +4.6 +.3	+1.4 +2.7 +2.4 -1.8 +4.3 +1.4		
Building construction	(3)	+.6	+8.0	(3)	+1.5	+13.5	31, 05	+.8	+5.0		

Public Employment

The number of workers employed on P. W. A. construction projects during the month ending September 15 was 247,000, a decrease of 16,000 from August. The decrease may be attributed to the small number of new contract awards and to the fact that the construction programs financed from funds provided by the National Industrial

Revised indexes—Adjusted to 1937 Census of Manufactures.
 Preliminary—Source: Interstate Commerce Commission.
 Not available.
 Indexes adjusted to 1935 Census: Comparable series back to January 1929 presented in January 1938

^{**}Indexes adjusted to 1835 Census: Comparable series back to January 1825 presented in January 1835 issue of this pamphlet.

** Less than 1/10 of 1 percent.

** 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.

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

Recovery Act and the Emergency Relief Appropriation Acts of 1935, 1936, and 1937 are rapidly nearing completion. During September, 225,000 workers were employed on projects financed from 1938 funds and 22,000 on projects financed from N. I. R. A. funds and E. R. A. A. 1935, 1936, and 1937 funds. Pay-roll disbursements of \$22,986,000 were \$833,000 less than in August.

Employment on United States Housing Authority low-rent housing projects continued to rise with an increase of 4,000 for the month ending September 15. Employment for the month was 22,000 and pay rolls, \$2,518,000. These figures cover new construction and demolition and pertain only to those projects started under the U. S. Housing Authority; those formerly under the Public Works Administration are shown under the Public Works Administration building construction projects in this report.

Increases on almost all types of construction projects financed from regular Federal appropriations brought employment up to 287,000, an increase of 11,000 over August. Sizeable increases were reported on the construction of naval vessels; nonresidential building construction; locks and dams; reclamation projects; and dredging, dike, and revetment projects. Pay-roll disbursements for the month ending September 15 were \$30,677,000.

Employment on construction projects financed by the Reconstruction Finance Corporation showed a slight increase during the month ending September 15. Approximately 2,600 men were employed and wage payments amounted to \$314,000.

On projects operated by the Work Projects Administration, employment continued to decline, the number at work dropping from 1,835,000 in August to 1,719,000 in September. Pay-roll disbursements of \$90,355,000 were \$17,485,000 less than in August. A decrease was also reported on Federal agency projects financed by the Work Projects Administration. The number at work in September was 81,000 and pay rolls were \$3,921,000.

Employment on work projects of the National Youth Administration increased from 211,000 in August to 225,000 in September, an increase of 14,000. The Student Aid program, after being inactive for 2 months, employed 62,000 students during September. Pay rolls on the work projects were \$4,222,000 and on the Student Aid program, \$268,000.

A decrease of 21,000 employees in camps of the Civilian Conservation Corps was attributed to the fact that many enrollees resigned to accept private employment. Of the 312,000 remaining on the pay roll, 274,100 were enrollees; 1,700 reserve officers; 1,600, educational advisers; 300, nurses; and 34,300, supervisory and technical employees. Pay rolls for the whole group were \$14,146,000.

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Increased employment was reported in all four of the regular services of the Federal Government. Of the 940,000 employees in the executive service, 126,000 were working in the District of Columbia and 814,000 outside the District. Force-account employees (employees who are on the Federal pay roll and are engaged on construction projects) were 10.3 percent of the total number of employees in the executive service. Increased employment was reported in the War and Navy Departments, the Tennessee Valley Authority, and The Panama Canal; while decreases were reported in the Department of Agriculture and the Federal Works Agency.

Employment on State-financed road projects increased 5,000 in the month ending September 15 as compared with August. Of the 161,000 at work in September, 26,000 were on new road construction, and 135,000 on maintenance. Pay rolls for both types of road work were \$11,621,000, a decrease of \$285,000 from August.

As immary of Federal employment and pay-roll data for September is given in table 2.

Table 2.—Summary of Federal Employment and Pay Rolls, September and August 1939 1 [Preliminary figures]

			,								
	Œı	mployment		Pay rolls							
Class	Septem- ber	August	Per- cent- age change	September	August	Per cent- age change					
Federal services: Executive ¹ Judicial Legislative Military Construction projects: Financed by P. W. A. ⁵ U. S. H. A. low-rent housing Financed by R. F. C. ⁶ Financed by regular Federal appropriations Federal agency projects financed by the Work Projects Administra-	939, 876 2, 282 5, 551 376, 480 247, 422 21, 958 2, 646 286, 652	3 933, 386 2, 162 5, 532 372, 853 263, 036 17, 930 2, 555 275, 506	+0.7 +5.6 +.3 +1.0 -5.9 +22.5 +3.6 +4.0	\$141, 629, 861 568, 434 1, 247, 594 29, 165, 321 22, 985, 513 2, 517, 739 314, 061 30, 677, 007	3 \$141, 733, 064 554, 291 1, 250, 506 29, 152, 927 23, 812, 075 2, 097, 061 288, 736 28, 094, 698	-0.1 +2.6 2 (4) -3.5 +20.1 +8.8 +9.2					
tion Projects operated by W. P. A National Youth Administration:	81, 319 1, 718, 896 225, 477	93, 809 1, 834, 686 211, 195	-13. 3 -6. 3 +6. 8	3, 921, 494 90, 354, 584 4, 221, 759	3, 671, 127 107, 840, 110 4, 150, 973	+6.8 -16.2 +1.7					
Work projects Student Aid 7 Civilian Conservation Corps	61, 844 311, 910	333, 121	-6.4	268, 452 14, 145, 853	14, 816, 914	-4. 8					

¹ Includes data on projects financed wholly or partially from Federal funds.
² Includes force-account and supervisory and technical employees shown under other classifications to the extent of 132,695 employees and pay-roll disbursements of \$16,253,503 for September 1939, and 126,570 employees and pay-roll disbursements of \$16,095,375 for August 1939.

³ Revised.

Revised.
 Increase less than 1/10 of 1 percent.
 Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, and 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 15,213 wage earners and \$1,451,935 pay roll for September 1939; 17,773 wage earners, and \$1,757,337 pay roll for August 1939, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 225,560 wage earners and \$20,688,881 pay roll for September 1939; 239,071 wage earners and \$21,261,831 pay roll for August 1939, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.
 Includes 603 employees and pay-roll disbursements of \$56,200 for September 1939; 573 employees and pay-roll disbursements of \$58,401 for August 1939 on projects financed by the RFC Mortgage Co.
 Student Aid program not in operation during August 1939.

The value of material orders placed on projects financed from regular Federal appropriations during the third quarter of 1939 amounted to \$136,010,000. Approximately 247,000 man-months of labor were involved in the final fabrication of these materials. P. W. A. projects orders were placed for \$125,183,000 worth of materials, for which it is estimated 279,000 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 third quarter of 1939, the second quarter of 1939, and the third quarter of 1938, and the manmonths 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

	Value of	material orde	ers placed	Man-months of labor cre- ated in final fabrication					
Program	Third	Second	Third	Third	Second	Third			
	quarter of	quarter of	quarter of	quarter	quarter	quarter			
	1939	1939	1938	of 1939	of 1939	of 1938			
Public Works Administration 1	\$125, 182, 989	\$117, 543, 696	\$58, 612, 361	278, 558	270, 518	129, 972			
	10, 377, 907	4, 947, 175	94, 373	23, 818	11, 433	215			
tion ? Regular Federal appropriations Federal Agency Projects financed	1, 333, 694	2, 909, 351	2, 074, 930	2, 711	5, 932	3, 893			
	136, 010, 243	109, 910, 717	113, 672, 275	246, 876	206, 657	208, 993			
from W. P. A. funds ³ Projects operated by W. P. A. Rentals and services on projects op-	2, 153, 037	3, 434, 106	9, 068, 902	4, 270	7, 165	18, 631			
	(⁴)	82, 811, 662	84, 852, 699	(⁴)	199, 964	199, 389			
erated by W. P. A	(1)	90, 919, 262	56, 254, 967	(4)	(4)	(4)			
work projects Rentals and services on N. Y. A. work projects	(4)	2, 232, 923	1, 687, 675	(4)	5, 401	3, 950			
	(4)	835, 857	493, 026	(4)	(4)	(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 Company.

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 SEPTEMBER 1939

Industrial and Business Employment

MONTHLY reports on employment and pay rolls are available for the following groups: 90 manufacturing industries; 16 nonmanufacturing industries, including private building construction; and class I steam railroads. The reports for the first two of these groups—manufacturing and nonmanufacturing—are based on sample surveys by the Bureau of Labor Statistics. The figures on class I steam railroads are compiled by the Interstate Commerce Commission and are presented in the foregoing summary.

EMPLOYMENT, PAY ROLLS, HOURS, AND 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 September 1939 are shown in table 4. Percentage changes from August 1939 and September 1938 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 July, August, and September 1939, where available, are presented in table 5. The July and August figures, where given, may differ in some instances from those previously published, because of revisions necessitated primarily by the inclusion of late reports.

The average weekly earnings shown in tables 4 and 5 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. composition of the reporting sample varies slightly from month to Therefore the average hours per week, average hourly earnings, and average weekly earnings shown are not strictly comparable from month to month. The sample, however, is believed to be sufficiently adquate in virtually all instances to indicate the general movement of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from September 1938 are computed from chain indexes based on the month-to-month percentage changes.

Table 4.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, September 1939

MANUFACTURING

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

	Eı	nployme	nt		Pay rolls			rage wee		Averag I	e hours ver week	worked	Average hourly earnings 1			
Industry	Index	Perce change		Index	Perce change	ntage from—	Sep-	Perce change	ntage from—	Sep-	Perce change	ntage from—	Sep-	Perce change		
	Sep- tember 1939	August 1939	Sep- tember 1938	Sep- tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	
All manufacturing	100.0	+3.8	+8.7	93. 6	+4.3	+14. 7	\$24.69	+0.5	+5. 5	37. 9	-0. 3	+2.5	Cents 64. 3	+0.7	+2.3	
Durable goods Nondurable goods	89. 4 110. 2	+6.6 +2.0	+17.8 +2.7	87. 5 100. 5	+7. 4 +1. 5	+28. 5 +3. 9	28. 15 21. 57	+. 8 5	+9.1 +1.2	38. 2 37. 7	5 1	+6.3 1	72. 5 57. 8	+1. 2 4	+2.6 +.4	9
$Durable\ goods$																
Iron and steel and their products, not including machinery. Blast furnaces, steel works, and rolling mills Bolts, nuts, washers, and rivets. Cast-iron pipe. Cutlery (not including silver and plated cut-	96. 4 101. 1 100. 0 74. 6	+4.4 +4.2 +3.2 -1.0	$\begin{array}{c c} +14.4 \\ +15.1 \\ +15.6 \\ +7.3 \end{array}$	91. 5 95. 3 109. 4 62. 9	+4.0 +2.8 +5.3 -7.4	+30. 5 +36. 9 +35. 6 +9. 9	27. 97 29. 77 26. 89 20. 48	$ \begin{array}{c c}4 \\ -1.3 \\ +2.0 \\ -6.4 \end{array} $	+14. 1 +18. 9 +17. 3 +2. 4	36. 9 35. 2 39. 3 34. 9	$ \begin{array}{c c}3 \\ -1.3 \\ +2.6 \\ -6.8 \end{array} $	$\begin{vmatrix} +11.8 \\ +17.9 \\ +20.4 \\ +1.7 \end{vmatrix}$	75. 8 84. 5 68. 5 57. 9	+.2 +.2 5 1	$\begin{array}{c c} +1.1 \\ +1.0 \\ -2.5 \\ +.3 \end{array}$	
lerry) and edge tools	96. 9 58. 9 83. 1 79. 5 156. 0	+5. 2 +5. 9 +9. 9 +2. 2 +2. 3	$ \begin{array}{r} +15.0 \\ +19.4 \\ +18.0 \\ +7.1 \\ +17.3 \end{array} $	84. 7 63. 0 90. 5 71. 8 156. 3	+6.5 +6.1 +13.5 +1.0 1	+18.3 +37.0 +33.2 +20.9 +17.0	22. 72 29. 15 29. 85 26. 13 23. 77	$\begin{array}{c c} +1.3 \\ +.2 \\ +14.2 \\ -1.2 \\ -2.3 \end{array}$	+2.9 $+14.5$ $+25.4$ $+13.2$ 2	39. 3 38. 4 41. 4 38. 8 38. 4	+2.5 +.5 +6.1 4 -1.4	+5.1 +11.6 +14.0 +11.4 +1.3	59. 0 75. 8 72. 2 67. 4 61. 9	-1.3 4 +7.8 8 3	$\begin{array}{c c} -1.6 \\ +2.6 \\ +10.0 \\ +1.7 \\ -1.6 \end{array}$	
Steam nttings Stoves Structural and ornamental metalwork Tin cans and other tinware		+3.7 +1.6 +3.1 4	+7.3 +8.7 +23.1 +4.3	71. 3 82. 0 63. 3 117. 4	+5.1 +5.5 -1.0 +2.2	+25. 2 +8. 3 +31. 3 +12. 3	26. 84 25. 54 27. 62 24. 86	$\begin{array}{c c} +1.4 \\ +3.8 \\ -4.0 \\ +2.5 \end{array}$	+16.5 4 +6.5 +7.6	38. 6 38. 9 38. 3 40. 5	+1.6 +3.2 -3.2 +1.0	+15.5 9 +6.5 +5.2	69. 7 65. 8 72. 1 61. 5	2 +.4 9 +1.5	+.9 +.4 1 +2.4	
Tools (not including edge tools, machine tools, files, and saws) Wirework	85. 8 144. 9	$+2.7 \\ +24.8$	+15.1 +19.9	81, 6 161, 4	+2.8 +39.8	+24.1 +32.3	24. 02 27, 70	+. 1 +12, 0	+8.1 +10.3	38. 9 39. 4	+.8 +7.3	+6.3 +7.4	61. 9 70. 4	7 +4.3	+1.6 +2.8	

See footnotes at end of table.

TABLE 4.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, September 1939—Continued

MANUFACTURING—Continued

	Employment				Pay rolls	3		erage wee			e hours per week		Average hourly earnings		
Industry	Index Sep-			Index Sep-	Perce change	ntage from	Sep-	Perce change		Sep-	Perce change	ntage from—	Sep-	Perce change	entage from—
	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938
Durable goods—Continued			<u> </u>	Ì									Q		
Machinery, not including transportation equipment. Agricultural implements (including tractors) Cash registers, adding machines, and calcu-	100.3 116.1	+3.6 +1.4	+17.4 +23.0	100, 9 125, 0	+4.1 +.8	+29.7 +34.0	\$28,21 28,91	+0.5 7	+10.4 +9.1	39, 1 37, 3	+0.3	+10.3 +7.7	Cents 72.2 77.8	-(²) -0.4	+0.2 +1.1
lating machines. Electrical machinery, appartus, and supplies. Engines, turbines, water wheels, and wind-	126. 7 92. 2	+1.7 +5.0	-5.6 +18.0	123. 6 98. 4	+3.6 +5.3	+1.5 +29.4	30. 80 28. 71	+1.9 +.3	+7.5 +9.5	37. 5 38. 9	+1.4 +.1	+6.2 +9.6	82. 5 74. 0	+.3	+.8 +.3
mills Foundry and machine-shop products Machine tools Radios and phonographs Textile machinery and parts Typewriters and parts Transportation equipment Aircraft Automobiles Cars, electric- and steam-railroad Locomotives Shipbuilding Nonferrous metals and their products Aluminum manufactures Brass, bronze, and copper products Clocks and watches and time-recording de-	150. 1 77. 3 122. 0 95. 7 1, 466. 5 96. 9 33. 2 27. 6	+2.5 +2.0 +11.3 +10.5 +3.5 +27.3 +3.7 +4.2 -5.0 +6.2 +6.2 +7.0	+20. 1 +13. 7 +29. 4 +45. 3 +25. 3 +25. 3 +48. 6 +89. 4 +41. 4 +78. 1 +38. 8 +15. 0 +17. 7	116. 2 80. 2 181. 8 139. 0 73. 1 122. 2 99. 5 1, 361. 6 102. 8 27. 5 25. 7 134. 8 96. 6 166. 7 122. 8	+2.4 +2.2 +13.0 +13.2 -2.0 +4.9 +27.1 -1.4 +37.1 +1.2 -5.5 +5.1 +8.8 +2.2 +11.1	+32.7 +26.1 +56.0 +51.6 +39.1 +7.1 +54.0 +87.5 +55.1 +15.2 +130.1 +41.9 +32.7 +23.4 +32.3	30. 97 27. 81 32. 19 22. 92 26. 15 24. 58 33. 32 29. 07 34. 61 25. 96 28. 49 31. 41 25. 97 26. 97 29. 15	1 +1.2 +1.5 +2.4 -1.5 +1.4 1 -4.9 5 -1.1 +2.6 +2.8 +3.8	+10.5 +10.7 +20.6 +4.3 +11.0 +7.6 +3.7 -1.0 +3.7 +3.3 +29.1 +2.2 +6.8 +4.1 +12.3	39.6 38.9 43.0 39.8 39.8 38.5 37.4 40.0 37.3 34.8 37.4 40.3	-1.3 +.3 +.9 +2.2 -1.8 +2.0 -1.8 -4.7 -1.1 -3.3 -1.8 +2.3 +2.3 +3.3	+10.9 +10.3 +18.9 +6.2 +13.1 +9.0 +6.9 +28.7 +28.7 +2.3 +2.5 +11.7	78. 7 71. 4 75. 0 57. 8 63. 8 89. 9 74. 2 93. 0 74. 6 76. 2 82. 5 67. 4	+1.1 0 + 6.2 - 1.6 +1.5 +1.5 +1.5 +1.6	2 +.7 +1.6 -1.6 -2.2 -1.3 +1.1 +.7 +2.5 +1.7 +1.7
Clocks and watches and time-recording devices. Jewelry. Lighting equipment. Silverware and plated ware. Smelting and refining—copper, lead and zinc.	71.5	+3.9 +6.1 +21.1 +3.8 +3.7	+7.6 +8.0 +24.1 +15.6 +9.8	89. 1 83. 6 74. 7 65. 7 71. 3	+4.8 +8.8 +28.1 +10.8 +.7	+19.1 +7.6 +29.8 +20.2 +9.3	23. 06 23. 54 27. 42 26. 54 25. 85	+.8 +2.6 +5.8 +6.8 -2.9	+10.7 2 +4.6 +3.8 6	39. 1 40. 8 39. 5 41. 4 36. 9	1 +3.3 +4.4 +6.2 -3.3	+5.7 +.2 +.9 +4.5 -2.3	59. 0 57. 9 69. 4 64. 6 70. 0	+.9 +.5 +1.5 +.8 +.3	+4.7 +.6 +4.0 1 +1.8

Lumber and allied products Furniture Lumber:	70. 1 90. 7	+2.0 +3.6	+7.4 +8.5	63. 4 78. 1	+.8 +3.4	+6.4 +8.7	21. 17 20. 95	-1.3 2	-1.0 +.1	39. 2 39. 8	-1.1 2	-3.4 -1.7	54. 0 53. 0	3 +(2)	+3. 1 +1. 7
Millwork Sawmills Stone, clay, and glass products Brick, tile, and terra cotta Cement Glass Marbie, granite, slate, and other products Pottery	62. 2 63. 5 81. 8 63. 2 71. 8 100. 9 51. 6 86. 1	+1.3 +1.3 +1.2 +2.4 -1.1 +2.4 -2.9 +1.6	+10.5 +5.9 +11.6 +15.0 +5.0 +15.5 +6.4 +7.1	49. 8 56. 4 71. 8 50. 4 68. 0 105. 0 39. 5 75. 2	+.7 7 +.5 -2.6 +2.5 -5.1 +.3	+11.9 +3.5 +16.7 +20.3 +9.4 +21.1 +13.0 +11.6	22. 41 20. 95 24. 02 20. 66 27. 08 25. 43 26. 00 21. 89	$\begin{array}{c}6 \\ -2.0 \\ -1.0 \\ -1.9 \\ -1.5 \\ +(?) \\ -2.2 \\ -1.4 \end{array}$	+1.3 -2.3 +4.6 +4.5 +4.2 +4.9 +6.5 +4.2	42. 2 38. 2 37. 0 38. 1 38. 3 35. 4 36. 9 36. 8	3 -1.7 -1.8 -1.8 -1.8 -1.0 -2.1 -3.1	+.5 -5.8 +1.1 +.9 +2.4 +2.3 +4.4 +3.9	53. 1 55. 5 64. 6 54. 0 70. 9 71. 8 70. 3 61. 6	4 4 +.2 +.5 +.7 3	+.8 +7.0 +3.1 +4.6 +1.8 +2.1 +4.5 +1.1
Nondurable goods						ĺ		-							
Textiles and their products Fabrics Carpets and rugs Cotton goods Cotton smail wares Dyeing and finishing textiles Hats, fur-felt Hosiery Knitted outerwear Knitted olderwear Colothing, men's Clothing, men's Clothing, women's Corsets and allied garments Men's furnishings Millinery Shirts and collars Leather and its manufactures Boots and shoes Leather Food and kindred products Baking Beverages Butter Canning and preserving Confectionery Flour Lee cream Slaughtering and meat packing Sugar, beet Sugar refining, cane Tobacco manufactures Chewing and smoking tobacco and snuff Cigars and cigarettes	94. 3 124. 9 90. 0 149. 8 78. 6 77. 7 143. 2 82 1 110. 6 178. 8 115. 8 115. 8 132. 6 96. 5 86. 5 148. 0 99. 1 303. 7 84. 4 84. 4 85. 5 90. 7 66. 4	+1.0 4 4 5 + 2.5 1 + 2	+55.86133941933969355794333321 +15.7611477461+22.3355794333321 +12.65147461+22.3355794333321 +12.651746147744414134414413441413441441414414	86. 6 81. 0 68. 3 79. 2 81. 5 107. 6 73. 5 16. 9 67. 1 120. 9 52. 1 79. 7 118. 1 120. 7 81. 2 120. 7 81. 2 120. 7 81. 3 120. 7 81. 3 120. 7 81. 3 120. 3 16. 6 82. 3 16. 6 83. 5 83. 5 83. 5 83. 5 83. 6 84. 6 85. 6 86. 7 86. 6 86. 7 86. 6 86. 7 86. 6 86. 7 86.	$\begin{array}{c} -1.9 \\ +9.7 \\ +6.0 \\ +7.8 \\ -12.6 \\ 2.3.0 \\ -3.7 \\ +4.1 \\ -12.6 \\ -3.0 \\ -13.7 \\ +5.5 \\ -7.1 \\ -12.1 \\ -2.1 \\ -12.1 \\ -3.5 \\ -14.1 \\ -2.1 \\ -14$	+.2 +.6.9 6 +.1.4 2 +.1.4 1.1.3 8 1.3 5 4 +.1.4 1.1.3 8 1.3 5 4 +.1.4 1.1 1.3 8 1.3 5 4 +.1.4 1.1 1.3 8 1.3 5 4 +.1.4 1.3 8 1.	16. 93 16. 768 14. 768 14. 51 18. 81 121. 011 21. 95 16. 90 14. 66 18. 59 15. 71 18. 62 17. 56 16. 95 13. 99 25. 70 13. 29 18. 45 17. 04 24. 32 24. 32 24. 32 29. 31 29. 31 29. 31 29. 31 329. 32 329. 31 329. 32 329.	-2.83.04.5.80.6.3.7.3.0.3.5.5.5.5.9.8.3.1.8.8.6.1.6.3.5.8.3.5.5.5.5.9.8.3.1.8.8.6.1.4.1.4.7.4.4.1.4.9.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	-2.8 +1.9.2 +1.9.5 +1.5.5 +1.5.5 -1.5	35. 4 37. 8 36. 8 37. 8 39. 1 31. 1 35. 5 36. 8 43. 0 31. 9 31. 8 32. 6 41. 6 42. 1 42. 1 43. 9 44. 0 46. 9 44. 1 40. 9 46. 9 47. 1 47. 1	-1.96012332808999333767701866 +++++-9.1.51.4+-1.67.866.388255515898773334 ++-10.1.51.4+-1.1.51.4+-1.1.51.4+-1.1.51.51.51.51.5898773334	-1 +1.79 +3.37 +2.56 +1.62 +2.49 +2.44 +7.76 +2.20 4 +1.77 +2.60 4 +1.77 +2.60 4 +1.52 +1.	47. 6 45. 9 48. 5 48. 5 48. 3 2 69. 3 40. 6 40. 9 42. 9 50. 0 40.	4 +10 +11.4 +1.4 +1.4 -1.7 -1.8 -1.8 -1.8 -1.8 -1.8 -1.8 -1.8 -1.8	-1.3 -1.3

See footnotes at end of table.

	ent		Pay rolls	3		erage wee			e hours per week		Average hourly earnings				
Industry	Index		entage from—	Index Sep-	Percentage change from—		Sep-	Percentage change from—		Sep-	Percentage change from-		Sep-	Perce change	entage from—
	Sep- tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938	tember 1939	August 1939	Sep- tember 1938
Nondurable goods—Continued															
Paper and printing Boxes, paper Pap r and rulp Printing and publishing:	113. 2 118. 8 108. 8	+2.1 +4.0 +1.6	+3.5 +10.6 +4.6	109. 3 133. 2 113. 4	+5. 4 +6. 9 +5. 2	+6.7 +13.4 +11.6	\$28. 89 22. 28 25. 64	+3.3 +2.8 +3.6	+3.2 +2.3 +6.6	39. 0 41. 3 41. 4	+2.3 +2.9 +3.4	+2.5 +2.3 +5.6	Cents 77. 1 54. 4 62. 0	+0.9 2 +.2	+1.1 +(2) +1.1
Book and job. Newspapers and periodicals. Chemical, netroleum, and coal, products	98. 3 116. 2 117. 7	-(2) $+3.8$ $+7.8$	+. 4 +2. 4 +2. 7	85. 6 109. 8 124. 6	+2.6 +7.4 +4.6	+2.9 +4.4 +5.5	30. 38 38. 03 29. 00 34. 38	+2.6 +3.5 -2.9 -1.1	+2.5 +1.9 +2.7	38. 3 36. 3 38. 8 35. 6	+1.3 +1.7 +.6 8	+2.0 4 +.8 +.1	80. 5 100. 7 74. 5 96. 9	+1.3 +1.1 -3.0 3	+.9 +2.7 +.6 11
Petroleum refining Other than petroleum refining Chemicals Cottonseed—oil, cake, and meal	123, 6 113, 3	+.3 +9.9 +3.8 +99.7	+.7 +3.3 +7.9 -13.2	134. 8 121. 4 139. 7 94. 0	8 +6.6 +2.5 +98.0	+.1 +7.5 +13.0 -10.9	26. 64 31. 08 14. 06	-3.1 -1.2 8	+4.1 +4.7 +2.8	40. 0 39. 8 48. 7	+.8 6 +9.6	+1. 0 +3. 9 -10. 5	66. 2 78. 1 28. 4	-3.1 5 -6.1	+2.1 +.7 +15.5
Druggists' preparations Explosives. Fertilizers. Paints and varnishes.	114. 2 99. 9 98. 4 122. 1	$\begin{array}{r} +4.1 \\ +7.1 \\ +33.2 \\ +1.0 \end{array}$	$ \begin{array}{r} +2.0 \\ +12.7 \\ +6.9 \\ +4.2 \end{array} $	125. 4 114. 4 86. 3 127. 5	+3. 1 +4. 8 +37. 6 +1. 5	+6.0 $+17.2$ $+11.0$ $+9.2$	23. 47 31. 52 17. 84 28. 65	-1.0 -2.1 +3.3 +.5	+3. 0 +4. 0 +3. 9 +3. 9	39. 3 39. 0 37. 7 40. 7	$ \begin{array}{r} -1.6 \\ -2.8 \\ +5.1 \\ +1.1 \end{array} $	3 +3.6 3 +3.4	59. 6 80. 7 47. 4 70. 4	+.1 +.7 -1.7 4	+2.3 +.5 +4.2 +.6
Rayon and allied products	300. 2 88. 5 86. 0	+17.7 +3.0 +4.1	7 +7.4 +13.5	286, 4 107, 1 91, 2	$+16.2 \\ +4.7 \\ +5.7$	+1.5 +8.8 +21.9	24. 49 29. 46 28. 88	-1.3 $+1.7$ $+1.4$	+2.3 +1.3 +7.4	37. 9 40. 2 37. 6	$ \begin{array}{r} -1.8 \\ +1.4 \\ +1.6 \end{array} $	+. 7 +1. 0 +7. 5	64. 6 73. 6 77. 0	+.5 +.3 ~.2	+1.5 +.3 -(2)
Rubber boots and shoes Rubber tires and inner tubes Rubber goods, other	59. 8 70. 0 141. 6	+2. 1 +2. 5 +6. 5	$^{+6.6}_{+14.0}$ $^{+15.3}$	62. 2 83. 0 134. 9	+6. 5 +5. 2 +6. 1	+11.9 +26.6 +18.0	23, 89 34, 63 23, 20	+4.2 +2.6 4	+4.8 +10.9 +2.2	38. 8 36. 2 38. 8	$\begin{array}{c c} +4.1 \\ +2.4 \\2 \end{array}$	+3. 0 +9. 2 +. 1	61, 6 96, 3 60, 3	+.1 +.5 4	+1.8 +2.2 +2.6

NONMANUFACTURING

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

# 		[144	20,000 020	00000	<u> </u>		HC, 1020	100,							
Coal mining: Anthracite 3 Bituminous 3 Metallierous mining. Quarrying and nonmetallic mining Crude-petroleum producing Public utilities:	49. 4 85. 6 63. 1 48. 0 65. 0	+1.9 +5.1 +4.5 5 -2.6	+6.4 +2.6 +14.3 +7.7 -9.2	40. 0 81. 0 55. 2 42. 8 60. 8	+18.3 +8.2 +4.5 4 -2.0	+36. 2 +12. 6 +19. 8 +11. 5 -8. 6	\$26. 86 25. 56 27. 46 22. 26 34. 33	+16.1 +3.0 +.1 +(2) +.7	+28.0 +9.8 +4.8 +3.5 +.6	28. 6 28. 7 39. 5 40. 6 38. 3	+18.3 +2.8 +.2 +(2) -1.2	+27. 0 +8. 6 +1. 7 6 -3. 9	Cents 92. 0 89. 3 69. 6 54. 7 87. 8	-0.9 +.6 2 +.1 +1.4	+0.8 +.1 +3.4 +4.3 +4.3
Telephone and telegraph 4 Electric light and power and manufactured	75. 3	3	+.5	94. 8	+.5	+2.4	30. 77	+.9	+1.8	39. 5	+.4	+.4	80.7	+.2	+.8
gas Electric-railroad and motorbus operation and	93. 8	+(2)	+1.5	101. 2	+.1	+2.8	33. 96	+.1	+1.3	39. 4	-1.1	4	86.0	+.8	+1.6
maintenance 4	69. 9	+.1	+.8	70. 4	8	+2.9	32. 91	9	+2.1	45. 5	-1.3	+1.8	71.5	+.2	+.2
Wholesale 4 Retail 4 General merchandising 4 Other than general merchandising 4 Hotels (year-round) 3 4 4 Laundries 3 Dyeing and cleaning 8 Brokerage 4 Insurance 4 Building construction	100. 1 83. 9 91. 2 97. 7 105. 2	+1.6 +5.8 +11.4 +4.1 +1.5 -1.4 +2.4 +6.0 4 +.6	+2.2 +3.1 +3.2 +2.9 7 +1.3 -2.4 -1.0 +.9 +8.0	77. 8 72. 3 88. 3 69. 0 80. 4 84. 4 78. 3 (6) (6)	+2.1 +4.2 +8.9 +2.9 +1.3 -1.8 +7.2 +10.9 2 +1.5	+4.8 +4.2 +3.5 +4.3 +2.0 +3.7 -4.2 +3.2 +2.4 +13.5	30. 00 20. 95 17. 62 23. 77 15. 15 17. 67 20. 35 36. 81 34. 10 31. 05	+.5 -1.5 -2.3 -1.1 2 3 +4.7 +4.6 +.3 +.8	+2.5 +1.2 +.3 +1.4 +2.7 +2.4 -1.8 +4.3 +1.4 +5.0	41. 7 42. 5 38. 9 43. 6 46. 6 42. 5 42. 7 (6) (6) 33. 9	7 7 +1.2 -1.1 9 7 +2.8 (6) (6) (7)	8 2 +.4 4 +.6 -(2) -3.5 (6) (6) +2.1	71. 3 54. 7 4×. 0 56. 8 32. 6 41. 6 49. 4 (6) 91. 8	+.8 -1.1 -3.6 2 +.7 +.3 +1.9 (6) (6) +(2)	+3.2 +1.5 +1.5 +1.8 +1.6 +1.9 +1.6 (6) (5) +2.6

¹ Average weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments, as not all reporting firms furnish man-hours. The figures are not strictly comparable from mouth to mouth because of changes in the size and composition of the reporting sample. Hours and earnings for all manufacturing industries relate to 90 industries instead of 87 which were covered in the July and prior issues of the pamphlet, due to the separation of the knit goods industry into its 4 component divisions.

1 Less than 1/10 of 1 percent.

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

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

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

6 Not available.

Table 5.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries

Manufacturing

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]

	Emp	loyment i	index	Pay	-roll inde	ex	Averag	e weekly ings ¹	earn-		e hours er week		Average hourly earn- ings ¹		
Industry	Sep- tem her 1939	August 1939	July 1939	Sep- tember 1939	August 1939	July 1939	Sep- tember 1939	August 1939	July 1939	Sep- tember 1939	August 1939	July 1939	Sep- tember 1939	August 1939	July 1939
All manufacturing	100. 0	96, 3	93. 5	93. 6	89. 7	84. 4	\$24. 69	\$24.60	\$23. 69	37. 9	38. 0	36. 6	Cents 64. 3	Cents 63. 9	Cents 64. 3
Durable goods	89. 4	83. 9	83. 0	87. 5	81. 5	76. 0	28. 15	28. 04	26. 42	38. 2	38. 3	36. i	72. 5	71.6	71. 8
	110. 2	108. 0	103. 5	100. 5	99. 0	93. 7	21. 57	21. 61	21. 26	37. 7	37. 7	37. 0	57. 8	57.9	58. 1
Durable goods			=												
Iron and steel and their products, not including machinery. Blast furnaces, steel works, and rolling mills. Bolts, nuts, washers, and rivets	96. 4	92. 3	89. 7	91, 5	88. 0	78. 6	27. 97	28. 16	25. 81	36. 9	37. 0	34. 2	75. 8	75. 6	76. 0
	101. 1	97. 0	95. 3	95, 3	92. 7	82. 0	29. 77	30. 13	27. 12	35. 2	35. 7	32. 1	84. 5	84. 3	84. 9
	100. 0	96. 9	92. 9	109, 4	104. 0	83. 1	26. 89	26. 17	21. 79	39. 3	38. 0	31. 8	68. 5	68. 9	68. 5
	74. 6	75. 3	74. 6	62, 9	67. 9	65. 8	20. 48	21, 81	21. 28	34. 9	37. 4	36. 6	57. 9	58. 0	57. 8
lery) and edge tools. Forgings, iron and steel. Hardware. Plumbers' supplies. Stamped and enameled ware.	l 83.1	92. 1 55. 6 75. 6 77. 8 152. 5	86. 5 54. 4 69. 0 76. 7 143. 7	84. 7 63. 0 90. 5 71. 8 156. 3	79. 5 59. 4 79. 8 71. 1 156. 4	76. 1 54. 8 65. 4 65. 3 137. 4	22. 72 29. 15 24. 28 26. 13 23. 77	22. 34 29. 10 26. 03 26. 43 24. 37	22. 66 27. 43 23. 38 24. 70 22. 68	39. 3 38. 4 41. 4 38. 8 38. 4	38. 1 38. 3 39. 0 38. 9 38. 8	37. 6 36. 2 37. 4 36. 8 36. 1	59. 0 75. 8 72. 2 67. 4 61. 9	59. 8 76. 0 66. 9 68. 0 62. 5	61. 2 75. 8 62. 5 67. 3 62. 8
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,	81. 2	78. 4	75. 7	71. 3	67. 9	60. 0	26. 84	26. 47	24, 23	38. 6	37. 9	35. 1	69. 7	69. 9	69. 1
	91. 6	90. 2	85. 5	82. 0	77. 7	72. 7	25. 54	24. 78	24, 43	38. 9	37. 7	37. 0	65. 8	66. 0	66. 1
	73. 8	71. 5	68. 8	63. 3	63. 9	58. 7	27. 62	28. 74	27, 42	38. 3	39. 7	38. 1	72. 1	72. 6	72. 2
	107. 0	107. 4	100. 2	117. 4	114. 9	102. 8	24. 86	24. 20	23, 12	40. 5	39. 9	38. 1	61. 5	60. 8	60. 5
files, and saws)	85, 8	83. 5	79. 7	81. 6	79. 4	72. 2	24. 02	23. 97	22. 88	38. 9	38, 6	36. 8	61. 9	62. 3	62. 3
	144, 9	116. 1	125. 9	161. 4	115. 5	124. 0	27. 70	24. 76	24. 54	39. 4	36, 8	35. 9	70. 4	67. 4	68. 4
Agricu tural implements (including tractors)	100. 3	96. 8	95. 7	100. 9	96. 9	94. 0	28. 21	28. 07	27, 55	39. 1	39. 0	38. 0	72. 2	72. 1	72. 4
	116. 1	114. 4	113. 0	125. 0	124. 0	122. 7	28. 91	29. 11	29, 20	37. 3	37. 4	37. 4	77. 8	78. 1	78. 5
Cash registers, adding machines, and calculating machines Electrical machinery apparatus, and supplies	126. 7	124. 6	127. 2	123. 6	119. 4	123 0	30. 80	30, 23	30, 52	37. 5	37. 0	37. 5	82. 5	82. 2	81. 8
	92. 2	87. 8	86. 8	98. 4	93. 4	91. 0	28, 71	28, 50	28, 05	38. 9	38. 8	37. 8	74. 0	73. 7	74. 3
Engines, turbines, water wheels, and wind- mills	99. 2	96.8	96. 2	116.2	113. 5	110. 2	30. 97	31. 01	30. 36	39.6	40. 1	39. 2	78.7	77.8	77. 9

Foundry and machine-shop products. Machine tools. Radios and phonographs. Textile machinery and parts. Typewriters and parts. Transpertation equipment. Aircraft. Automobiles. Cars, electric- and steam-railroad. Locomotives. Shipbuilding. Nonferrous me tals and their products. Aluminum manufactures. Brass, bronze, and copper products. Clocks and watches and time-recording	85. 7 156. 2 150. 1 77. 3 122. 0 95. 7 1, 466. 5 96. 9 33. 2 27. 6 129. 0 100. 4 150. 9 115. 2	84. 1 140. 3 135. 9 77. 6 117. 9 75. 2 1, 413. 5 70. 4 31. 9 29. 1 121. 5 94. 7 154. 0 107. 7	82. 6 147. 4 129. 6 77. 1 120. 6 79. 9 1, 398. 9 76. 4 32. 0 28. 7 124. 4 91. 3 149. 5 104. 0	80. 2 181. 8 139. 73. 1 122. 2 99. 5 1, 361. 6 102. 8 27. 5 25. 7 134. 8 96. 6 166. 7 122. 8	78. 4 160. 9 122. 8 74. 6 116. 5 78. 3 1, 380. 9 75. 0 27. 2 27. 2 27. 2 128. 3 88. 8 163. 2 110. 5	74. 8 165. 7 113. 6 74. 7 113. 4 76. 6 1, 337. 9 72. 9 24. 7 26. 5 131. 5 82. 4 149. 1 103. 9	27. 81 32. 19 22. 92 26. 15 24. 58 33. 32 29. 07 34. 61 25. 96 28. 49 31. 41 26. 72 26. 97 29. 15	27. 78 31. 72 22. 38 26. 47 24. 24 33. 71 30. 59 35. 15 26. 90 28. 72 31. 69 25. 99 25. 86 28. 00	26. 95 31. 23 21. 71 26. 63 23. 05 31. 06 29. 94 31. 50 24. 36 28. 38 31. 71 25. 11 24. 20 27. 53	38. 9 43. 0 39. 8 39. 8 38. 5 37. 4 40. 0 37. 3 34. 8 37. 4 40. 3 39. 5 40. 9	38. 9 42. 6 38. 9 40. 1 37. 8 38. 1 41. 7 37. 7 36. 2 37. 6 38. 1 39. 4 38. 5 39. 5	37. 6 41. 8 37. 7 40. 5 36. 0 35. 1 40. 7 34. 0 32. 8 37. 6 37. 8 35. 7 38. 6	71. 4 75. 0 57. 7 65. 8 63. 8 89. 9 74. 2 93. 0 74. 6 76. 2 82. 5 67. 4 68. 0 71. 4	71. 4 74. 6 57. 6 64. 1 88. 8 74. 3 93. 5 74. 4 76. 4 82. 9 66. 8 67. 1	71. 5 74. 8 57. 6 65. 8 64. 0 88. 4 73. 7 92. 8 74. 2 76. 3 83. 2 67. 1 67. 7 71. 5
, devices	86. 0 99. 9	82. 8 94. 2	79. 8 87. 0	89. 1 83. 6	85. 0 76. 9	76. 4 68. 6	23. 06 23. 54	22. 88 22. 89	21. 34 22. 20	39. 1 40. 8	39. 2 39. 7	36. 3 37. 7	59. 0 57. 9	58. 4 56. 8	58. 7 57. 9
Lighting equipment	88. 3	73. 0	70. 5	74. 7	58. 3	53. 5	27. 42	26. 06	24. 66	39. 5	37.6	35. 8	69. 4	69. 3	68. 9
Silverware and plated ware	71. 5 77. 4	68. 9 74. 6	62. 6 76. 0	65. 7 71. 3	59. 3 70. 8	50.8 70.6	26. 54 25. 85	25. 03 26. 64	23, 44 26, 05	41. 4 36. 9	39. 0 38. 2	37. 0 37. 5	64. 6 70. 0	64. 1 69. 8	64. 0 69. 5
Lumber and allied products	70. 1	68.7	66.7	68.4	62.9	56.4	21. 17	21. 21	19. 63	39. 2	39. 5	38.8	54.0	54.1	53.7
Furniture	90.7	87.5	84. 3	78. 1	75. 5	68.0	20.95	20.90	19. 47	39.8	39.7	37. 1	53.0	52.9	52.8
Lumber:						ا									
Millwork	62. 2 63. 5	61.4	59.7	49.8	49. 5 56. 8	45.3	22. 41 20. 95	22.75 20.95	21.41	42. 2 38. 2	42.2	39.7	53. 1 55. 5	53. 9	54. 0 54. 0
SawmillsStone, clay, and glass products	81.8	62. 7 80. 8	61. 1 79. 7	56. 4 71. 8	71.7	50. 5 65. 9	24.02	24.26	19. 20 22. 57	37.0	38.7 37.7	36, 0 35, 3	64. 6	54. 8 64. 7	64. 6
Brick, tile, and terra cotta	63. 2	61.8	61. 5	50.4	50.1	46.4	20, 66	21. 17	19. 58	38. 1	39. 2	36.6	54.0	53. 9	53. 1
Cement	71.8	72.6	72. 5	68.0	69. 9	68.1	27. 08	27. 32	26. 84	38. 3	38. 9	38.0	70. 9	70. 3	70. 6
Glass	100.9	98. 5	96.3	105.0	102. 5	91.5	25. 43	25. 45	23. 26	35. 4	35. 8	32. 5	71.8	71.4	71.6
Marble, granite, slate, and other products	51.6	53. 2	54. 1	38.5	40.6	39.9	26.00	26.54	25. 83	36. 9	37.6	35.7	70.3	71.1	72.9
Pottery	86.1	84.7	81.8	75. 2	75.0	65. 5	21.89	22. 25	20. 10	36.8	38.0	35. 1	61.6	61.8	61.8
Nondurable goods										1					
Textiles and their products	104.5	103.5	98.1	86.6	88.3	79.3	16. 93	17. 22	16. 46	35.4	36, 1	35. 2	47.6	47.9	47.1
Fabries.	93. 5	93. 1	91.1	81.0	80.3	76. 6	16.76	16.66	16, 23	37.0	36. 7	35.9	45.9	45.8	45.8
Carpets and rugs	78.3	75. 6	73.8	68.3	63. 5	57.3	24. 28	23. 34	21. 61	36.8	35, 8	33. 9	65. 9	65.3	63. 7
Cotton goods	89.5	87.3	85.7	79. 2	74.8	72.5	14. 51	14.03	13.83	37.8	36.6	36. 1	38. 5	38.3	38. 3
Cotton small wares	84.3	80.9	79.5	81.5	75.6	73.0	18.81	18. 18	17. 78	39. 5	38.6	38. 5	48.3	47.7	47. 1
Dyeing and finishing textiles	124.9 90.0	122. 2 93. 7	119. 2 90. 2	107. 6 73. 5	103.3 84.1	97. 6 81. 6	21. 01 21. 95	20, 56 24, 24	19.87 24.35	39. 1 31. 1	38. 5 34. 3	37. 6 34. 6	53. 2 69. 3	52. 9 70. 1	52. 4 71. 1
Hats, fur-felt Hosiery	149.8	152. 4	148.9	156.4	161.6	144.9	18. 85	19.14	17. 53	35. 5	36.0	33. 7	53.4	53.3	52. 6
Knitted outerwear	78.6	78. 1	72.1	61.9	63. 8	56.6	16. 90	17. 45	16.76	36.8	38.7	36. 9	45.6	44.8	45. 3
Knitted underwear	77. 7	77. 1	73. 2	67. 1	68.0	64. 7	14, 66	14.92	14.90	36. 4	37. 0	37. 1	40. 4	40.4	40. 2
Knitted eloth	143. 2	140. 4	135. 9	120.9	116.6	114.0	18.59	18.86	18.34	39.7	39. 3	39. 2	45.9	46.9	46. 1
Silk and rayon goods	63. 2	62.8	60. 1	52.1	52.0	48.1	15, 71	15. 71	15. 15	36. 6	37.0	35. 3	42.6	42.2	42. 5
Woolen and worsted goods	82.1	86. 2	86.3	67. 6	71.5	72.7	19.00	19. 18	19. 42	36.0	36. 4	36.8	52. 9	52.7	53. 0
Wearing apparel	124.8	122.1	109.5	92.1	98.3	79.7	17.39	18.79	17. 14	33.0	35. 2	33.7	50.6	51.3	49. 5
Clothing, men's Clothing, women's	110.6 178.8	110. 2 174. 3	105. I 143. 9	79. 7 118. 1	86. 3 132. 9	78. 4 96. 8	18. 62 17. 56	20. 29 20. 14	19. 07 17. 71	31. 9 31. 8	34. 6 34. 8	33. 4 34. 1	58. 0 51. 2	58. 0 52. 4	55. 5 48. 6
Corsets and allied garments.	115.8	114.0			112. 2	113, 4		16. 27	16, 73	37.3	35. 2	37. 1	44.9	45.8	44.9
	-10.0				-12. 2	-10. 1	- 10.00	20.21	20,10	01.0	50.4	31.1	11.0	10.0	.1.0

See footnotes at end of table.

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

MANUFACTURING—Continued

	Empl	loyment	index	Раз	-roll inde	ex	Averag	e weekly ings	y earn-		e hours er week	worked	Averag	e hourly ings	earn-
Industry	Sep- tember 1939	August 1939	July 1939	Sep- tember 1939	August 1939	July 1939	Sep- tember 1939	August 1939	July 1939	Sep- tember 1939	August 1939	July 1939	Sep- tember 1939	August 1939	July 1939
Nondurable goods—Continued													1		
Textiles and their products—Continued. Wearing apparel—Continued. Men's furnishings. Millinery. Shirts and collars. Leather and its manufactures. Boots and shoes. Leather Fod and kindred products. Baking. Beverages. Butter. Canning and preserving. Confectionery. Flour. Ice cream. Slaughtering and meat packing. Sugar refining, cane. Tobacco manufactures. Cigars and cigarettes. Paper and printing. Boxes, paper. Paper and pulp. Printing and pulsishing:	132. 6 88. 5 123. 2 96. 5 86. 5 150. 7 148. 0 287. 4 99. 1 303. 7 91. 4 84. 4 82. 3 101. 3 120. 8 90. 7 66. 2 16. 2 17. 0 113. 2	131. 2 78. 2 119. 9 109. 7 100. 3 85. 5 147. 0 146. 9 295. 4 100. 2 88. 3 89. 6 68. 6 60. 7 67. 3 110. 9	123. 9 55. 9 117. 5 99. 7 99. 1 85. 5 135. 0 147. 8 301. 1 103. 9 197. 0 2 82. 5 92. 7 100. 7 57. 9 95. 1 66. 1 110. 7	120. 7 81. 3 102. 3 76. 6 72. 4 84. 22 139. 6 138. 8 335. 5 83. 8 264. 3 91. 5 93. 0 68. 6 107. 9 116. 3 62. 9 62. 3 109. 3 109. 3 109. 3	120. 1 66. 8 102. 5 84. 6 82. 9 83. 1 135. 1 135. 3 350. 2 86. 7 75. 1 76. 7 76. 7 78. 8 85. 7 4. 2 105. 8 86. 7 107. 7 107. 7 107. 7	105. 5 36. 7 91. 2 83. 6 81. 9 82. 0 129. 6 139. 1 359. 0 88. 8 153. 7 77. 0 109. 2 53. 6 61. 9 67. 3 61. 0 116. 5	\$13. 99 25. 70 13. 29 18. 45 17. 04 24. 32 24. 16 26. 00 34. 04 22. 72 17. 32 29. 43 29. 43 29. 43 29. 31 27. 99 25. 12 26. 75 17. 43 17. 89 22. 28 25. 64	\$14. 27 24. 05 13. 63 19. 78 18. 74 24. 29 23. 95 25. 49 34. 74 22. 57 17. 24 18. 93 25. 95 29. 29 27. 77 25. 22 23. 05 17. 30 18. 04 17. 30 24. 65	\$13. 19 18. 06 12. 38 19. 72 18. 74 23. 96 24. 61 26. 05 34. 93 22. 96 26. 28 29. 03 28. 54 29. 03 28. 54 29. 15 17. 45 29. 17. 26 21. 17. 26 21. 17. 26 21. 17. 26 21. 19. 23. 40	35. 7 36. 8 34. 5 33. 9 38. 6 42. 1 39. 8 47. 1 41. 0 46. 9 46. 9 42. 1 43. 0 36. 9 43. 43. 0 44. 1 43. 0 44. 1 44. 1 45. 0 46. 1 46. 1 46	36. 2 35. 9 35. 8 37. 4 37. 5 38. 6 40. 5 41. 1 47. 2 39. 5 40. 4 46. 8 40. 4 46. 6 38. 9 37. 1 38. 9	34. 5 30. 4 32. 5 37. 7 38. 0 40. 1 42. 1 48. 0 34. 0 43. 3 47. 5 36. 1 37. 3 37. 2 38. 9 38. 9	Cents 38.0 64.3 38.5 55.2 50.8 63.4 59.5 62.0 48.3 43.2 48.6 62.0 63.1 68.6 61.4 62.2 47.5 51.3 47.0	Cents 38. 7 4 38. 5 52. 6 50. 2 63. 3 59. 5 62. 4 847. 9 44. 7. 9 50. 6 60. 5 62. 3 68. 8 63. 0 47. 2 7 46. 7 7 46. 7 7 54. 4 61. 8	Cents 37. 5 59. 8 38. 3 52. 1 49. 8 62. 9 61. 5 62. 4 86. 8 48. 0 44. 5 51. 9 60. 4 68. 7 75. 7 64. 1 47. 6 47. 0 77. 0 54. 8 61. 6
Book and job. Newspapers and periodicals. Chemical, petroleum, and coal products. Petroleum refining. Other than petroleum refining. Chemicals. Cottonseed—oil, cake, and meal. Druggists' preparations Explosives.	98. 3 116. 2 117. 7 123. 1 116. 4 123. 6 113. 3 114. 2 99. 9	98. 3 112. 0 109. 2 122. 7 105. 0 119. 1 56. 7 109. 7 93. 3	99. 1 111. 9 110. 4 121. 8 107. 7 117. 1 49. 3 108. 2 91. 1	85. 6 109. 8 124. 6 134. 8 121. 4 139. 7 94. 0 125. 4 114. 4	83. 4 102. 2 119. 1 135. 9 113. 9 136. 3 47. 5 121. 6 109. 1	85. 6 102. 2 117. 9 131. 5 113. 7 130. 8 41. 7 120. 6 102. 8	30. 38 38. 03 29. 00 34. 38 26. 64 31. 08 14. 06 23. 47 31. 52	29. 78 36. 75 29. 62 34. 76 27. 15 31. 48 13. 69 23. 84 32. 20	30. 16 36. 78 28. 98 33. 91 26. 71 30. 74 13. 55 23. 92 30. 97	38. 3 36. 3 38. 8 35. 6 40. 0 39. 8 48. 7 39. 3 39. 0	37. 8 35. 7 38. 5 35. 8 39. 6 40. 1 42. 3 39. 9 40. 2	38. 3 35. 5 37. 9 34. 7 39. 1 39. 3 41. 1 40. 5 38. 4	80. 5 100. 7 74. 5 96. 9 66. 2 78. 1 28. 4 59. 6 80. 7	79. 7 99. 8 77. 0 97. 5 68. 6 78. 5 31. 0 59. 9 80. 2	80. 2 100. 1 77. 0 98. 5 68. 5 78. 3 31. 3 59. 5 80. 7

Fertilizers. Paints and varnishes Rayon and allied products. Soap. Rubber products. Rubber boots and shoes. Rubber tires and inner tubes. Rubber goods other	98. 4 122. 1 300. 2 88. 5 86. 0 59. 8 70. 0 141. 6	73. 9 122. 1 255. 1 86. 0 82. 6 58. 5 68. 3 132. 9	73. 4 122. 2 297. 0 81. 9 78. 7 45. 2 66. 6 130. 7	86. 3 127. 5 286. 4 107. 1 91. 2 62. 2 83. 0 134. 9	62. 7 125. 6 246. 6 102. 3 86. 3 58. 4 78. 9 127. 1	63. 4 124. 0 283. 2 99. 0 81. 5 42. 5 77. 1 121. 4	17. 84 28. 65 24. 49 29. 46 28. 88 23. 89 34. 63 23. 20	17. 26 28. 47 24. 81 28. 98 28. 52 22. 92 33. 77 23. 23	17. 65 28. 14 24. 47 29. 42 28. 22 21. 61 33. 84 22. 47	37. 7 40. 7 37. 9 40. 2 37. 6 38. 8 36. 2 38. 8	35. 8 40. 3 38. 6 39. 6 36. 9 37. 3 35. 5 38. 8	36. 4 40. 0 38. 3 39. 6 36. 4 35. 7 35. 6 37. 6	47. 4 70. 4 64. 6 73. 6 77. 0 61. 6 96. 3 60. 3	48. 3 70. 7 64. 3 73. 3 77. 1 61. 5 95. 6 60. 5	48. 5 70. 4 63. 9 74. 4 77. 8 60. 5 95. 6 60. 4
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NONMANUFACTURING

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

Coal mining:		1								- 1					
	49.4	48.5	44.7	40.0	33.8	25, 2	26. 86	23. 13	18, 65	28.6	24. 2	20. 2	92.0	92.8	93. 1
Anthracite 3 Bituminous 2	85.6	81.4	79. 4	81.0	74.6	64. 5	25. 56	24.61	22, 03	28.7	27. 4	24. 4	89. 3	89.0	89. 2
Metalliferous mining	63.1	60. 4	60.4	55. 2	53.0	48. 5	27.46	27. 47	24. 91	39. 5	39. 5	36. 4	69.6	70. 1	68.8
Quarrying and nonmetallic mining	48.0	48.1	47. 5	42.8	42. 9	40.9	22. 26	22. 17	21. 69	40.6	40. 5	39. 0	54.7	54.6	55. 5
Crude-petroleum producing	65.0	66. 7	67. 3	60.8	62. 0	61. 9	34. 33	34, 18	33. 82	38.3	38.8	37. 7	87.8	86.4	88.0
Public utilities:	1 00.0	00.1	01.0	00.0	02.0	01.0	01,00	01.10	00.02	00.0	00.0	0,	00	00.1	
Telephone and telegraph 3	75.3	75. 5	75.4	94.8	94.3	94.6	30. 77	30. 92	31, 06	39. 5	39. 1	39, 4	80.7	81.8	81.5
Electric light and power and manufactured gas3.	93.8	93. 8	93. 2	101. 2	101. 1	100.0	33.96	33. 59	33. 48	39. 4	40.0	38. 7	86.0	84. 2	86.4
Electric-railroad and motorbus operation and	1 33.5	00.0		101,1			00.00	00.00	00. 20	V -1 -	20.0	00.1		0	
maintenance 3	69.9	69.8	69.7	70.4	71.0	70.6	32.91	33. 17	33, 02	45. 5	46.0	45, 8	71.5	71, 2	71, 4
Trade:	[****											,		
Wholesale 8	90.4	89.0	87. 9	77.8	76. 2	75.8	30.00	29.82	29. 92	41.7	41.9	41.3	71.3	71. 1	72.6
Retail 3	. 87.3	82. 5	83.6	72. 3	69. 4	70. 9	20. 95	21.39	21. 58	42. 5	42.8	42.6	54.7	55. 3	55. 7
General merchandising 3	100.1	89.8	91.7	88.3	81. 1	83. 8	17.62	18. 07	18. 25	38.9	38. 5	38. 5	48.0	50. 1	49.9
Other than general merchandising 3	83.9	80.6	81. 5	69.0	67.0	68. 2	23.77	23. 99	24. 16	43.6	44.0	43. 9	56.8	56.8	57.5
Hotels (year-round) 2 3 4	91.2	89. 8	90.3	80.4	79. 2	79.1	15. 15	15. 20	15. 15	46.6	47. 1	46.8	32.6	32. 2	32.0
Laundries 2	97.7	99. 1	100.0	84.4	85. 9	88.0	17. 67	17. 58	17.85	42.5	42.9	43.3	41.6	41.0	41.6
Dyeing and cleaning 3	105.2	102. 7	106. 5	78.3	73.0	77.1	20.35	19. 42	19.81	42.7	41.6	42.1	49.4	48.3	48. 2
Brokerage 3 5	1 +6.01	+.1	-1.5	+10.9	-1.4	-2.1	36. 81	35, 32	35. 78	(6)	(6)	(6)	(6)	(6)	(6)
Insurance 3 5	4	+.1	+.6	2	9	-1.2	34. 10	35. 77	36. 20	(6)	(6)	(6)	(6)	(8)	(6)
Building construction 5	+.6	+.8	+4.5	+1.5	+1.2	+4.6	31.05	30. 91	30. 85	33. 9	33. 5	33.6	91.8	92.4	`92.0

Average weekly earnings are computed from figures furnished by all reporting establishments. A verage hours and average hourly earnings are computed from data supplied by a smaller number of establishments, 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. Hours and earnings for all manufacturing industries relate to 90 industries instead of 87 which were covered in the July and prior issues of the pamphlet, due to the separation of the knit goods industry into its 4 component divisions.

² Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this publication.

³ Average weekly earnings, hourly earnings, and hours not strictly comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisors. ⁴ Cash payments only; the additional value of board, room, and tips cannot be

computed.

b Indexes of employment and pay rolls are not available, percentage changes from pre-ceding month substituted.

Not available.

INDEXES OF EMPLOYMENT AND PAY ROLLS

Indexes of employment and pay rolls are given in table 6 for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for each of 13 non-manufacturing industries, including 2 subgroups under retail trade, by months, from September 1938 to September 1939, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to September 1939.

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

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

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

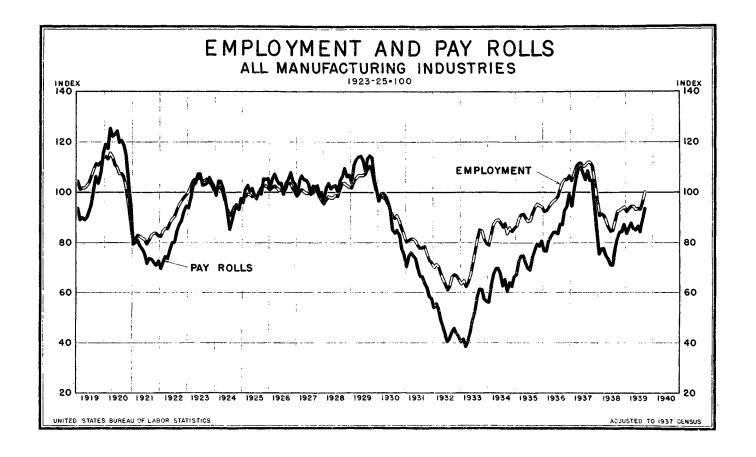


Table 6.—Indexes of Employment and Pay Rolls in Selected Manufacturing 1 and Nonmanufacturing 2 Industries, September 1938 to September 1939, Inclusive

						F	mplo	ymen	t					
Industry	Av.		19	38						1939				
	1938	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Manufacturing										ļ]
All industries	89. 7 77. 9 100. 9	92. 0 75. 9 107. 3	92. 4 79. 7 104. 6	33. 3 82. 9 103. 1	94. 0 83. 8 103. 8	92. 2 82. 3 101. 7	93. 6 83. 3 103. 5	94. 3 84. 1 104. 0	94. 1 84. 8 103. 0	93. 0 84. 0 101. 6	93. 4 84. 6 101. 8	93. 5 83. 0 103. 5	96. 3 83. 9 108. 0	100. 0 89. 4 110. 2
Nonmanu facturing														
Anthracite mining	52. 3 86. 7 59. 0 42. 3	83. 4 55. 2	52. 4 87. 2 57. 9 44. 4	51. 0 88. 6 61. 9 44. 4	89.3		88.6	87. 4 61. 0	25.9	47. 9 61. 9	78.3 61.6	60.4		85. 6 63. 1
Crude-petroleum produc- ing	72. 1 75. 1	71. 5 74. 9	69. 5 74. 7	68. 3 74. 4	67. 8 74. 3	67. 0	66. 4 73. 3	66. 2	65.8	66. 1	67.0	67. 3	66. 7	65.0
Electric light and power, and manufactured gas Electric-railroad and mo- tor bus operation and	92. 3	92. 5		91.9	}	90.0	89.6						}	
maintenance	70. 3 88. 8 85. 2	88. 5 84. 7	89. 1 85. 9		90. 0 98. 1	82. 2	87. 9 81. 5	87. 4 83. 8	87. 3 85. 5	87. 2 85. 7	88. 1 86. 4	87. 9 83. 6	89. 0 82. 5	90. 4 87. 3
other than general merchandisiug	98. 0 81. 8			104. 5 82. 3	144. 1 86. 0	90.7 80.0	ļ	93. 2 81. 3	l	1	ł	91.7		100. 1 83. 9
Year-round hotelsLaundries Dyeing and cleaning	92. 7 95. 7		92. 9 94. 4	92. 5 93. 7	92. 0 93. 4	91. 8 93. 3	92. 6 92. 8	92. 7 92. 9	93. 2	93. 9 95. 5	92. 8 98. 7	90. 3 100. 0 106. 5	89. 8 99. 1	91. 2 97. 7
Manufacturing (<u>' </u>			·		Pay	rolls	!	·			<u> </u>	' -
All industries	77. 9	81. 6	84. 2	84. 4	87. 1	83. 7	86. 0		85. 5	85. 0				
Durable goods 8 Nondurable goods 4	67. 6 89. 6		74. 6 94. 9	77. 6 92. 1		76. 0 92. 4	77. 7 95. 3							87. 5 100. 5
Nonmanufacturing														
Anthracite mining	38. 2 67. 9 50. 4	71. 9	78.3 49.2	l	80. 9 54. 1	78. 2 55. 3	81. 2 53. 4	53. 6	52 6	20. 4 54. 1	66. 5 53. 8	64. 5 48. 5	74. 6 53. 0	81. 0 55. 2
lic mining Crude-petroleum produc-	35. 1 66. 5		39. 2 63. 7	37. 2 63. 3		30. 2 60. 9	l .	İ	35. 9 60. 8	1		ĺ	Ì	
Telephone and telegraph. Electric light and power, and manufactured gas	92. 1	92. 6	95. 3 99. 9	93. 0 98. 6	92. 5	92.0	91.7	91.9	92. 1	93.7	93. 7		94. 3	94.8
Electric-railroad and mo- torbus operation and maintenance	69. 7 74. 7 70. 4	74 3	68. 9 75 1 70. 8	68. 8 75. 4 71. 5	75. 7	75. 5	74.6	74.7	74.8	74.9	75.8	75.8	76. 2	77.8
ingOther than general	87.8	i	88. 3	ļ	122. 9	1	1	l		i			1	
merchandising Year-round hotels Laundries Dyeing and cleaning	66.8 80.3	66. 1 78. 9 81. 4 81. 7	79.5	81.3 79.3	70. 1 81. 1 80. 0 68. 3	1 80. 2 1 79. 6	82 8 78 6	66. 8 81. 1 79. 3 67. 7	81 9	82. 4 83. 9	82. 0 86. 9	79. 1 88. 0	79. 2 85. 9	80. 4 84. 4

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

2 12-month average for 1929=100. Comparable indexes are in November 1934 and subsequent issues of Employment and Pay Rolls, or in February 1935 and subsequent issues of Monthly Labor Review, except for anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning. Indexes for these industries from January 1929 forward have been adjusted to the 1935 census and are presented in the January 1938 and subsequent issues of Employment and Pay Rolls.

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.

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in August and September 1939 is shown in table 7 for all groups combined and for all manufacturing industries combined based on data supplied by reporting establishments. The percentage changes shown, unless otherwise noted, are unweighted—that is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

The totals for all manufacturing industries combined include figures for miscellaneous manufacturing industries in addition to the 90 manufacturing industries presented in table 3. The totals for all groups combined include all manufacturing industries, each of the nonmanufacturing industries presented in table 3 (except building construction), and seasonal hotels.

Similar comparisons showing only percentage changes are available in mimeographed form for: all groups combined, all manufacturing, anthracite mining, bituminous-coal mining, metalliferous mining, quarrying and nonmetallic mining, crude-petroleum producing, public utilities, wholesale trade, retail trade, hotels, laundries, dyeing and cleaning, and brokerage and insurance.

Table 7.—Comparison of Employment and Pay Rolls in Identical Establishments in August and September 1939, by Geographic Divisions and by States

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by
cooperating State organizations]

		Tot	alall g	roups			Ma	ınufactu	iring	
Geographic division and State	Num- ber of estab- lish- ments	Number on pay roll Septem- ber 1939	change from	Amount of pay roll (1 week) Septem- ber 1939	Per- cent- age change from Au- gust 1939	Num- ber of estab- lish- ments	Number on pay roll Septem- ber 1939	change	Amount of pay roll (1 week) Septem- ber 1939	Per- cent- age change from Au- gust 1939
Maine New Uampshire. Vermont	12, 688 750 569 440 17, 804 818 2, 307	870, 829 56, 080 36, 876 15, 700 478, 507 89, 110 194, 556	-2.3 7 -2.5 +1.6	Dollars 20,491,671 1, 143, 205 751, 866 343, 602 11,430,368 1, 915, 159 4, 997, 471	+3.3 +.8 -1.0 -1.2 +2.1 +9.7 +5.6	3, 556 283 207 146 1, 804 415 701	611, 019 47, 650 32, 483 9, 574 280, 180 74, 965 166, 167	+5.4	Dollars 13.880,895 953, 084 661, 454 202, 677 6, 330, 544 1, 577, 219 4, 155, 917	+4.5 +1.8 8 -2.1 +2.9 +12.1 +6.4
Middle Atlantic New York New Jersey Pennsylvania	31, 240 19, 561 3, 658 8, 021	2,057,990 950, 619 355, 157 752, 214	+4. 2 +2. 4	54,333,907 26,022,971 9, 236, 762 19,074,174	+2.6 +3.1 +2.8 +1.8	6, 673 22, 717 1, 601 2, 355	1,277,395 462, 551 302, 283 512, 561	+4.2 +2.7	33.126,888 12,552,361 7,851,576 12,722,951	+2.0 +2.7 +3.3 3+.2
Ohio Indiana Illinois Michigan	23, 869 6, 514 2, 845 6, 708 3, 490 54, 303	2,109,711 519,786 263,268 619,795 461,110 245,752	+4. 2 +4. 7 +8. 4 +22. 4	58,249,301 14,083,568 6, 803, 214 16,549,672 14,603,063 6, 209, 784	+7. 3 +3. 6 +6. 6 +2. 0 +23. 2 3	8, 247 2, 325 1, 059 2, 405 1, 010 61, 448	1,612,007 40%, 415 210, 613 411, 842 412, 221 168, 916	+4.5 3+5.4 +2.0 +31.0	45,962,796 11,323,962 5,604,737 11,039,886 13,763,217 4,231,494	+10.0 +4.0 3 +7.2 +2.0 +30.0 8 -1.5

See footnotes at end of table.

TABLE 7.—Comparison of Employment and Pay Rolls in Identical Establishments in August and September 1939, by Geographic Divisions and by States-Continued

		Tot	al—all g	roups			1	Aanufac	turing	
Geographic division and State	Num- ber of stab- lish- ments	Number on pay roll Septem- ber 1939	Per- cent- age change from Au- gust 1939	Amount of pay roll (1 week) Septem- ber 1939	Per- cent- age change from Au- gust 1939	Num- ber of estab- lish- ments	Number on pay roll Septem- ber 1939	Per- cent- age change from Au- gust 1939	Amount of pay roll (1 week) Septem- ber 1939	Per- cent- age change from Au- gust 1939
West North Central Alinuesota. lowa Missouri North Dakota. South Dakota. Nebraska. Kansas.	72, 797 1, 656 2, 477 382 388 1, 025	429, 814 140, 446 59, 018 138, 106 4, 212 5, 627 26, 610 55, 795	+.5 +.4	Dollars 10,511,233 3,743,152 1,398,848 3,209,316 105,810 130,704 597,192 1,326,211	+1.2 +.4 5 +2.3 +3.4 +1.2 +1.3 3+1.6	2, 418 649 362 770 25 31 136 454	216, 466 54, 633 36, 752 86, 158 444 2, 600 9, 783 26, 096	+0.4 -4.0 5 +2.6 +7.2 +6.0 +4.6 +1.9	Dollars 5, 224, 001 1, 400, 278 887, 797 1, 946, 753 11, 615 64, 660 240, 116 672, 782	+1.0 6 2 +1.6 +11.0 +4.4 +1.3 +3.4
South Atlantic Delaware Maryland		837, 313 15, 380 145, 058	+3.5 +3.8 +9.5	16,763,244 367, 509 3, 617, 849	+4.7 +4.6 +8.6	2, 851 80 631	594, 212 11, 295 104, 234	+4.0 +6.5 3+12.3	10,938,419 258,331 2,592,511	+6.0 +8.6 3+6.6
District of Co- lumbia	1, 026 1, 620 963 1, 390 684 1, 184 920	36, 270 116, 810 121, 246 170, 929 80, 900 113, 507 37, 213	+4.8 +3.1 +1.9 +2.4 7 +3.8 +.9	973, 915 2, 250, 094 3, 166, 297 2, 696, 582 1, 188, 177 1, 813, 494 689, 327	+3.8 +3.9 +2.3 +4.2 +2.7 +5.8 +2.1	41 446 206 656 237 370 184	3, 153 82, 994 49, 293 155, 824 75, 319 91, 258 20, 842	+3.5 +3.7 +1.7 +2.5 9 +4.1 +.5	108, 468 1, 559, 067 1, 225, 174 2, 431, 232 1, 086, 638 1, 324, 967 352, 031	+3.8 +5.0 +2.8 +4.7 +2.7 +7.2 +2.3
East South Central Kentucky Tennessee Alabama Mississippi	1, 202 1, 174 1, 162	284, 667 74, 135 100, 428 90, 128 19, 976	+3. 5 +2. 5	5, 353, 327 1, 673, 975 1, 780, 053 1, 599, 559 299, 740	+4.1 +5.9 +3.1 +3.6 +3.4	1.005 281 358 276 90	186, 788 33, 022 76, 434 63, 700 13, 632	+3.3 +1.0 +2.5 +3.8 +4.2	3, 315, 445 713, 566 1, 339, 763 1, 676, 558 185, 558	+4.1 +7.2 +2.8 +3.7 +4.3
West South Central Arkansas Louisiana Oklahoma Texas	10 833 920 1, 265	207, 316 27, 618 52, 519 36, 003 91, 176	+2.2 +4.6 +1.7 +.9 +2.4	4, 569, 338 445, 816 1, 036, 858 903, 568 2, 183, 096	+1.9 +3.8 +3.6 +1.4 +t.0	1, 261 244 226 141 650	111, 908 18, 796 30, 754 11, 166 51, 192	+2.4 +5.4 +3.2 +2.3 3+1.7	2, 389, 396 296, 702 569, 372 275, 963 1, 247, 359	+2.0 +5.9 +6.1 +4.0 37
Mountain	540 461 305 1, 092 262 346 535	114, 504 14, 832 10, 913 5, 838 39, 262 5, 447 13, 554 22, 299 2, 359	+6.4 +1.0 +7.1 +.1 +7.9 0 +11.3 +8.2 +1.3	2, 815, 037 393, 774 274, 631 159, 660 945, 327 110, 458 365, 668 497, 775 67, 744	+4.6 +1.3 +3.7 +.7 +4.3 -3.8 +11.1 +7.9 +1.4	552 71 63 40 197 29 38 100	39, 159 4, 979 3, 974 1, 396 16, 703 836 2, 791 8, 155 325	+10.0 -2.5 +14.4 -2.9 +12.3 +.7 +1.5 +19.3 +16.1	928, 560 127, 396 98, 505 42, 305 407, 459 16, 679 61, 967 164, 420 9, 838	+3.3 -1.9 +7.9 -9.0 +4.0 +4.9 -4.1 +9.8 +13.3
Pacific	2, 285	594, 797 89, 121 50, 273 865, 493	$\begin{vmatrix} +1.1 \\ +6.8 \\ +9.3 \\ -1.3 \end{vmatrix}$	14,076,095 2, 304, 585 1, 255, 395 10,516,115	$\begin{vmatrix} -1.3 \\ +4.0 \\ +6.7 \\ -3.2 \end{vmatrix}$	2, 685 520 288 1, 857	287, 286 59, 093 35, 829 192, 364	+.8 +9.8 +12.0 -3.4	7, 766, 682 1, 520, 893 881, 630 5,364,159	-2.5 +5.2 +8.9 -6.0

¹ Includes banks and trust companies; construction, nunicipal, agricultural, and office employment; amusement and recreation; professional services; and trucking and handling. Corresponding figures for "Total—all rroups," for Aurust, should have been 7,521; 471,515; +1.4; \$11,216,946; +1.0.

2 Includes laundering and cleaning; and water, light, and power.

3 Weighted percentage chance.

4 Includes automobile and miscellaneous services; restaurants; and building and contracting.

5 Includes construction but not public works.

6 Does not include logging.

7 Includes banks; real estate; pipe-line transportation; motor transportation (other than operation and maintenance); water transportation; hospitals and clinics; and personal, business, mechanical repair, and miscellaneous services.

8 Includes financial institutions, miscellaneous services, and restaurants.

9 Weighted percentage change, including hired farm labor.

10 Includes automobile dealers and garages; and sand, gravel, and building stone.

11 Includes banks, insurance, and office employment.

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in August and September 1939 is made in table 8 for 13 metropolitan areas, each of which had a population of 500,000 or over in 1930. these areas, but having a population of 100,000 or over, are not Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 3, with the exception of building construction, and include also miscellaneous industries.

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

Table 8.—Comparison of Employment and Pay Rolls in Identical Establishments in August and September 1939, by Principal Metropolitan Areas

Metropolitan area	Number of establish- ments, September 1939	Number on pay roll, September 1939	Percent- age change from August 1939	Amount of pay roll (1 week), September 1939	Percent- age change from August 1939
New York ¹ Chicago ² Philadelphia ³ Detroit Los Angeles ⁴ Cleveland St. Louis	4, 450 2, 246 1, 448 2, 862 1, 530 1, 311	612, 867 435, 556 237, 799 287, 871 163, 103 108, 111 109, 272	+4. 4 +2. 9 +2. 1 +21. 9 +3. 8 +5. 3 +2. 3	\$16, 518, 661 12, 183, 029 6, 432, 259 9, 863, 989 4, 805, 878 3, 034, 514 2, 668, 445	+3.7 +2.2 +1.6 +24.6 +2.1 +4.8 +1.2
Baltimore-	1, 126	112, 152	+5.5	2, 797, 373	+4.4
Boston ⁵		183, 609	+2.4	4, 511, 094	+1.8
Pittsburgh-		175, 541	+4.0	4, 867, 192	+1.9
San Francisco ⁶	1, 619	84, 614	+. 9	2, 582, 272	+.1
Buffalo	790	67, 620	+7. 5	1, 841, 330	+7.4
Milwaukee	1, 006	102, 070	+1. 1	2, 836, 906	+2.7

Does not include Elizabeth, Jersey City, Newark, or Paterson, N. J., or Yonkers, N. Y.
 Does not include Gary, Ind.
 Does not include Camden, N. J.
 Does not include Long Beach, Calif.
 Does not include Cambridge, Lynn, or Somerville, Mass.
 Does not include Oakland, Calif.

Public Employment

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

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in August and September 1939 are given in table 9.

Table 9.—Employment and Pay Rolls for the Executive Service of the U. S. Government, September and August 1939 1

(Subject to revision)

	Er	nploymen	t		Pay-rolls	
Class	Septem- ber	August 2	Per- centage change	September	August 2	Per centage change
Entire service: Total	939, 876	933, 386	+0.7	\$141, 629, 861	\$141, 733, 064	-0.1
Regular appropriation.	785, 982 57, 373	783, 057 58, 492	+ · 4 -1. 9	122, 940, 107 7, 399, 307	122, 652, 774 7, 637, 902	+. 2 -3. 1
Force-account (regular and emergency)	96, 521	91, 837	+5.1	11, 290, 447	11, 442, 388	-1.3
Inside the District of Columbia: Total	125, 842	124. 634	+1.0	22, 204, 433	22, 308, 550	5
Regular appropriation Emergency appropriation Force-account (regular and emer-	110, 910 8, 774	109, 688 9, 043	+1. 1 -3. 0	19, 920, 365 1, 359, 457	19, 912, 719 1, 416, 720	+(3) -4.0
geney)	6, 158	5, 903	+4.3	924, 611	979, 111	-5.6
Outside the District of Columbia: Total	814, 034	808, 752	+.7	119, 425, 428	119, 424, 514	+(3)
Regular appropriation Emergency appropriation Force-account (regular and emer-	675, 072 48, 599	673, 369 49, 449	+.3 -1.7	103, 019, 742 6, 039, 850	102, 740, 055 6, 221, 182	+.3 -2.9
gency)	96, 363	85, 934	+5.2	10, 365, 836	10, 463, 277	9

Data include number of employees receiving pay during the last pay period of the month.
Revised.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during September on construction projects financed by Public Works Administration funds are given in table 10, by type of project.

Table 10.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, September 1939 1

[Subject to revision] Wage earners Value of Number of Monthly pay-roll disbursematerial man-hours Average orders Type of project Maximum worked carnings Weekly placed number employed? during per hour average ments month Federal projects financed from National Industrial Recovery Act funds \$0 607 \$176, 623 3 1, 513 1, 411 \$119,273 196, 479 All projects..... 12, 366 1, 106 56, 695 37, 500 Building construction.... 9, 808 801 1. 261 1. 381 78 7 17, 490 330 Naval vessels. (5) 326 109, 200 Public roads 4..... 99, 443 48, 719 . 570 . 770 $\begin{array}{c} 735 \\ 312 \end{array}$ 16, 989 Reclamation. River, harbor, and flood con-trol
Water and sewerage 4, 118 5, 109 2, 379 . 565 20, 010 9, 116 3, 488 $\frac{116}{221}$ 7, 294 26, 906 64 198 . 190 Miscellaneous.....

See footnotes at end of table.

Revised

³ Increase less than 140 of 1 percent.

Table 10.-Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, September 1939-Continued

	Wage e	arners	Monthly	Number of	.	Value of material
Type of project	Maximum number employed	Weekly average	pay-roll disburse- ments	man-hours worked during month	Average earnings per hour	orders placed during month
1	Federa			ı Public Worl Act 1938 fun		tration
All projects.	27, 626	23, 611	\$2, 704, 729	2, 946, 355	\$0.918	\$3, 994, 16 5
Airport construction (exclusive of buildings) Building construction Electrification Reclamation	834 19, 802 1, 023 1, 268	805 16, 873 937 1, 201	103, 430 1, 969, 719 96, 321 134, 237	167, 248 1, 995, 184 108, 694 162, 860	. 618 . 987 . 886 . 824	338, 648 2, 962, 135 54, 936 82, 365
Reclamation River, harbor, and flood control Ship construction	1, 155 955	999 755	116, 207 75, 161	134, 573 90, 166	. 864 . 834	142, 373 49, 649
Streets and roads	449 499 618	385 456 587	42, 024 29, 343 53, 922	51, 555 44, 979 70, 320	. 815 . 652 . 767	61, 889 61, 476 231, 976
Professional, technical, and clerical	933	613	81, 365	129, 776	. 699	8, 725
	Non-Federa	d projects	financed from	n National I uds	idustrial R	ecovery Act
A ll projects 6	5, 136	4, 657	\$725, 424	520, 641	\$1, 393	\$784, 956
Building construction Railroad construction.	3, 299 283 423	3, 074 283 324	630, 754 1, 322 42, 263	359, 411 2, 534 32, 021	1, 755 , 522 1, 320	500, 603 142, 838
Miscellaneous	1, 131	976	51, 085	126, 675	. 403	141, 515
	Non-Federa	l projects Act	financed fro t 1935, 1936,	n Emergency and 1937 fun	Relief A _l	ppropriation
.ll projects	15, 213	13, 366	\$1, 451, 935	1, 809, 675	\$0.802	\$2, 113, 466
Building construction. Electrification.	3, 674 929	3, 017 785	323, 993 68, 506	345, 617 104, 797	. 937	\$2, 113, 466 626, 950 141, 150
Building construction. Electrification. Heavy engineering Reclamation	3, 674 929 6, 294 !, 603	3, 047 785 5, 692 1, 442	323, 993 68, 506 615, 815 147, 749	345, 617 104, 797 824, 143 217, 296	. 937 . 654 . 747 . 689	626, 950 141, 150 862, 293 35, 122
Building construction Electrification Heavy engineering	3, 674 929 6, 294	3, 047 785 5, 692	323, 993 68, 506	345, 617 104, 797 824, 143 217, 296	. 937 . 654 . 747	626, 950 141, 150 862, 293 35, 122 46, 968 400, 983
Building construction. Electrification. Heavy engineering Reclamation Streets and roads Water and sewerage.	3, 674 929 6, 294 !, 603 30 2, 683	3, 047 785 5, 692 1, 442 17 2, 383 0	323, 993 68, 506 615, 815 147, 739 295, 407 0	345, 617 104, 797 824, 143 217, 296 493 317, 329	. 937 . 654 . 747 . 689 . 943 931 0	626, 950 141, 150 862, 293 35, 122 46, 968 400, 983
Building construction. Electrification. Heavy engineering Reclamation Streets and roads Water and sewerage. Miscellaneous.	3, 674 929 6, 294 !, 603 30 2, 683	3, 047 785 5, 692 1, 442 2, 383 0	323, 993 68, 506 615, 815 147, 739 295, 407 0	345, 617 104, 797 824, 143 217, 296 317, 329 0 0 em Public Wo Act 1938 func 20, 085, 523	. 937 654 747 689 943 931 0 orks Admin	626, 950 141, 150 862, 203 35, 122 46, 968 400, 983 0 istration
Building construction Electrification Heavy engineering Reclamation Streets and roads Water and sewerage Miscellaneous Il projects Building construction Electrification Heavy engineering	3, 674 929 6, 294 1, 603 30 2, 683 0 Non-Feder 197, 934 111, 893 1, 932 15, 351	3, 047 785 5, 692 1, 442 17 2, 383 0 163, 835 91, 517 1, 544 13, 236	323, 963 68, 506 615, 815 147, 749 465 295, 407 295, 407 o s financed frampropriation at the properties of the	345, 617 104, 797 824, 143 217, 298 493 317, 329 0 om Public We Act 1938 func 20, 085, 523 10, 359, 668 181, 222 1, 854, 924	. 937 654 747 689 943 931 0 50, 895 764 1, 132	626, 950 141, 170 862, 203 35, 122 46, 968 400, 983 0 istration \$34, 893, 701 17, 885, 830 729, 872 6, 173, 666
Building construction Electrification Heavy engineering Reclamation Streets and roads Water and sewerage Miscellaneous Building construction Electrification Heavy engineering Reclamation River, harbor, and flood con-	3, 674 929 6, 294 1, 603 30 2, 683 0 Non-Feder 197, 934 111, 893 1, 932 15, 351 674	3, 047 785 5, 692 1, 442 17 2, 383 0 163, 835 163, 835 91, 517 1, 544 13, 236 561	323, 963 68, 506 615, 815 147, 719 465 295, 407 0 s financed frepropriation a \$17, 984, 152 10, 025, 278 138, 511 2, 099, 257 52, 127	345, 617 104, 797 824, 143 217, 296 493 317, 329 0 0 em Public We Act 1938 func 20, 085, 523 10, 359, 608 181, 222 1, 854, 924 79, 046	937 654 747 689 943 931 0 brks Admin s \$0.895 \$0.895	626, 950 141, 150 862, 203 35, 122 46, 968 400, 983 0 istration \$34, 893, 701 17, 885, 830 729, 872 6, 173, 666 48, 011
Electrification. Heavy engineering Reclamation Streets and roads Water and sewerage. Miscellaneous. All projects. Building construction Electrification Heavy engineering Reclamation	3, 674 929 6, 294 1, 603 30 2, 683 0 Non-Feder 197, 934 111, 893 1, 932 15, 351	3, 047 785 5, 692 1, 442 17 2, 383 0 163, 835 91, 517 1, 544 13, 236	323, 963 68, 506 615, 815 147, 749 465 295, 407 295, 407 o s financed frampropriation at the properties of the	345, 617 104, 797 824, 143 217, 298 493 317, 329 0 om Public We Act 1938 func 20, 085, 523 10, 359, 668 181, 222 1, 854, 924	. 937 654 747 689 943 931 0 50, 895 764 1, 132	626, 950 141, 170 862, 203 35, 122 46, 968 400, 983 0 istration \$34, 893, 701 17, 885, 830 729, 872 6, 173, 666

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 contruction.

Construction projects financed by the Public Works Administration are those projects authorized by title II of the National Industrial Recovery Act of June 16, 1933. This program of public works was extended to June 30, 1937, by the Emergency Relief Appropriation Act of 1935 and title II of the First Deficiency Appropriation Act of 1936. The First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, reappropriated unobligated funds originally made available under the Emergency Relief Appropriation Act of 1935 and authorized the use of \$300,000,000 from funds on hand or received from the sale of securities. The Public Works Administration was continued until July 1, 1939, by the Public Works Administration Extension Act of 1937, and the Public Works Administration Appropriation Act of 1938 further continued the program to June 30, 1941. On July 1, 1939, pursuant to the provisions of Reorganization Plan No. 1, the Public Works Administration was transferred to the Federal Works Agency.

Federal construction projects for which data are included in table 10 are financed by allotments made by the Public Works Administration to the various agencies and departments of the Federal Government from funds provided under the National Industrial Recovery Act. The major portion of the low-rent housing program of the Public Works Administration, however, was financed by funds provided under the Emergency Relief Appropriation Act of 1935. Federal construction projects are also financed by allotments from funds provided under the Public Works Administration Appropriation Act of 1938. The work is performed either by commercial firms which have been awarded contracts, or by day labor hired directly by the Federal agencies.

Non-Federal projects are financed by allotments made by the Public Works Administration from funds available under either the National Industrial Recovery Act, the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, the Public Works Administration Extension Act of 1937, or the Public Works Administration Appropriation Act of 1938. Most of the allotments have been made to the States and their political subdivisions, but occasionally allotments have been made to commercial In financing projects for the States or their political subdivisions from funds appropriated under the National Industrial Recovery Act, the Public Works Administration makes a direct grant of not more than 30 percent of the total labor and material cost. funds provided under the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, the Public Works Administration Extension Act of 1937, or the Public Works Administration Appropriation Act of 1938 are used to finance a non-Federal project, as much as 45 percent of the total cost may be furnished in the form of a grant. The remaining 55 percent or more of the cost is financed by the recipient. When circumstances justify such action, the Public Works Administration may provide the grantee with the additional funds by means of a loan. Allotments to commercial enterprises are made only as loans. All loans made by the Public Works Administration carry interest charges and have a definite date of maturity. Collateral posted with the Public Works Administration to secure loans may be offered for sale to the public. In this way a revolving fund is provided which enlarges the scope of the activities of the Public Works Administration.

Commercial loans have been made, for the most part, to railroads. Railroad work financed by loans made by the Public Works Administration falls under three headings: First, construction work in the form of electrification, the laying of rails and ties, repairs to buildings, bridges, etc.; second, the building and repairing of locomotives and passenger and freight cars in shops operated by the railroads; and third, locomotive and passenger- and freight-car building in commercial shops.

UNITED STATES HOUSING AUTHORITY

The United States Housing Authority was created by Public No. 412, Seventy-fifth Congress, approved September 1, 1937, as a corporate body of the Department of the Interior for the purpose of assisting the States and their political subdivisions in remedying the unsafe and insanitary housing conditions and the acute shortage of decent, safe, and sanitary dwellings for families of low income, and in alleviating present and recurring unemployment.

Executive Order No. 7732, dated October 27, 1937, transferred to the Authority all the housing and slum-clearance projects of the Federal Emergency Administration of Public Works and all assets, contracts, records, applications, libraries, research materials, and other property held in connection with such projects or with the housing or slum-clearance activities of the Public Works Administration, together with the unexpended balance of funds allocated to the Public Works Administration for the construction of any housing or slum-clearance projects. This executive order was modified by Executive Order No. 7839, dated March 12, 1938, under which the two Puerto Rican projects were transferred to the Puerto Rico Reconstruction Administration. The President's Reorganization Plan No. 1, effective July 1, 1939, transferred the United States Housing Authority from the Department of the Interior to the Federal Works Agency.

Table 11 shows data for September 1939 on projects of the U. S. Housing Authority. These figures pertain only to new projects under the United States Housing Authority and not to those formerly under the Public Works Administration.

TABLE 11.—Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, September 1939

[Subject to revision]

	Emplo	yment)		Value of	
Geographic division	Maxi- mum number em- ployed ¹	Weckly average	Monthly pay-roll disburse- ments	Number of man-hours worked during month		material orders placed during month	
Nine divisions	21, 958	18, 574	\$2, 517, 739	2, 469, 393	\$1,020	\$4, 564, 405	
New England Middle Atlantic. East North Central. West North Central. South Atlantic East South Central West South Central West South Central Outside continental United States	9 8, 990 3, 374 583 3, 305 3, 387 1, 937 184 189	9 7, 827 2, 780 566 2, 773 2, 817 1, 567 90 145	143 1, 269, 230 452, 048 82, 465 254, 001 294, 011 141, 064 10, 504 14, 273	990, 884 398, 429 94, 453 352, 475 387, 864 212, 112 10, 333 22, 676	. 856 1. 281 1. 135 . 873 . 721 . 758 . 605 1. 017 . 629	0 2, 193, 903 797, 575 142, 547 543, 851 533, 717 250, 192 46, 379 56, 241	

¹ Maximum employed during any 1 week of the month.

WORK PROJECTS ADMINISTRATION PROGRAM

By authority of Public Resolution No. 11, Seventy-fourth Congress, approved April 8, 1935, the President established the Works Progress Administration and charged it with the responsibility of coordinating the execution of the work relief program as a whole. Works Progress Administration was continued by subsequent relief appropriations but the scope of its activities was narrowed considera-A number of activities included in the original program were continued without important change in scope or objective but were financed under other appropriations. In accordance with the provisions of Reorganization Plan No. 1, effective July 1, 1939, the name of the agency was changed to Work Projects Administration and it became a part of the Federal Works Agency. The Emergency Relief Appropriation Act of 1939 extended the Work Projects Administration until June 30, 1940, and authorized it to carry out the functions that had been vested in the Works Progress Administration. ployment on the Work Projects Administration program includes employment on Federal agency projects and employment on projects operated by the Work Projects Administration. Federal agency projects are those conducted by Federal agencies which have received allotments from the Work Projects Administration. Projects operated by the Work Projects Administration are those projects conducted under the supervision of that agency with the cooperation of States, cities, or counties.

A record of employment, pay rolls, and man-hours worked on projects financed by the Work Projects Administration in September is shown in table 12, by type of project.

Table 12.—Employment and Pay Rolls on Projects Financed and Operated by the Work Projects Administration, September 1939

[Subject to revision]

	Wage ea	rners	Monthly	Number of man-hours	Aver-	Value of material
Type of project	Maximum number employed	Week- ly av- erage	pay-roll disburse- ments	worked during month	earn- ings per hour	orders placed during month
			Federal age	ncy projects		
All projects.	1 81, 319	74, 731	\$3, 921, 494	9, 061, 567	\$0. 433	\$680, 564
Airport construction (exclusive of buildings). Building construction. Electrification Forestry. Grade-crossing elimination 2. Hydroelectric power plants 3. Plant, crop, and livestock conservation. Professional, technical, and clerical. Public roads 2. Reclamation. River, harbor, and flood control. Streets and roads. Water and sewerage. Miscellancous.	12, 014 5, 021 833 9, 439 777 2, 227 293 2, 912	1, 085 31, 630 76 7, 877 814 1, 220 11, 825 4, 845 701 8, 802 711 2, 023 280 2, 752	53, 554 1, 619, 017 2, 503 328, 847 52, 670 48, 012 735, 688 335, 256 59, 367 452, 564 49, 941 79, 615 8, 953 95, 687	1, 141, 728 86, 690 239, 952 35, 577 334, 161	. 576 . 332 . 252 . 285	1, 912 270, 307 4,88 34, 577 86, 855 4, 734 55, 888 20, 134 75, 372 42, 609 43, 782 10, 980 1, 209 31, 717
All projects.	5 1, 718, 896		\$90, 354, 584		\$0, 440	(6)

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

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

These data are for projects under construction in Puerto Rico.

Data are for the calendar month. Not available by type of project.

Represents number of names on pay roll for week ending Sept. 30, 1939.

Data on a monthly basis are not available.

NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for August and September 1939 are shown in table 13.

Table 13.—Employment and Pay Rolls on National Youth Administration Projects, August and September 1939

[Subject to revision]

Orna of project	Number of	employees	Amount of pay rolls	
Type of project	September	August	September	August
Total	287, 321	211, 195	\$4, 490, 211	\$4, 150, 973
Student Aid 1. Work projects	61, 844 225, 477	0 211, 195	268, 452 4, 221, 759	4, 150, 973

[·] Not in operation during August.

CIVILIAN CONSERVATION CORPS

The Civilian Conservation Corps was created by an act of Congress approved June 28, 1937 and succeeded the Emergency Conservation Work which had been set up in April 1933. On July 1, 1939, the

Civilian Conservation Corps lost its status as an independent agency and was transferred to the Federal Security Agency.

Employment and pay-roll data for the Civilian Conservation Corps are collected by the Bureau of Labor Statistics from the War Department, the Department of Agriculture, and the Department of the The monthly pay of the enrolled personnel is \$30 per Assistant leaders, not to exceed 10 percent of the total month. number of enrollees, may receive up to \$36 per month, and leaders, not to exceed 6 percent, may receive up to \$45 per month.

Employment and pay rolls in the Civilian Conservation Corps in August and September 1939 are presented in table 14.

TABLE 14.—Employment and Pay Rolls in the Civilian Conservation Corps, August and September 1939 1

	Subject to reve	sionj			
G	Number of	employees	Amount of pay rolls		
Group	September	August	September	August	
All groups	311, 910	333, 121	\$14, 145, 853	\$14, 816, 914	
Enrolled personnel ²	274, 112 1, 624 310	295, 421 3 2, 967 304	8, 505, 475 677, 322 41, 087	9, 170, 705 3 993, 222 41, 871	
Educational advisers 4 Supervisory and technical 4	1, 593 34, 271	1, 588 3 32, 841	286, 213 4, 635, 756	268, 953 3 4, 342, 163	

Data on number of employees refer to employment on last day of month. Amounts of pay rolls are for

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 September are presented in table 15, by type of project.

Table 15.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, September 1939 1 [Subject to revision]

Type of project	Maximum number of wage earners 2	Monthly pay-roll disburse- ments	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month	
All projects	2, 646	\$314,061	379, 053	\$0.829	\$381,604	
Building construction 3. Water and sewerage.	2, 125 521	218, 285 95, 776	276, 333 102, 720	. 790 . 932	281. 390 100, 214	

the entire month.

2 September data include 4,421 enrollees and pay roll of \$92,762 outside continental United States; in August the corresponding figures were 4,255 enrollees and pay roll of \$90,010.

⁴ Included in executive service, table 9.

¹ Data are for the month ending on the 15th.
² Maximum number employed during any 1 week of the month by each contractor.
³ Includes 603 employees; pay-roll disbursements of \$56.200; 67,285 man-hours worked; and material orders placed of \$25,002 on projects financed by the RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

When a construction contract is awarded or force-account work is started by a department or agency of the Federal Government, the Bureau of Labor Statistics is immediately notified, on forms supplied by the Burcau, of the name and address of the contractor, the amount of the contract, and the type of work to be performed. Blanks are then mailed by the Bureau to the contractor or Government agency doing the work. These reports are returned to the Bureau and show the number of men on pay rolls, the amounts disbursed for pay, the number of man-hours worked on the project, and the value of the different types of materials for which orders were placed during the month.

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during September are given in table 16, by type of project.

Table 16.—Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, September 1939 1

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	Number earn		Monthly	Number of man-hours	Average	Value of material orders placed dur- ing month	
Type of project	Maximum number employed ²	Weekly average	pay-roll disburse- ments	worked during month	earnings per hour		
All projects	³ 286, 652	268, 996	\$30, 677, 007	42, 598, 021	\$0.720	\$51,099,312	
Building constructionElectrification: Rural Electrification Admin-	19, 502	15, 775	1, 749, 169	1,917,881	.912	4, 510, 916	
istration projects Other than Rural Electrification Administration proj-	13, 306	10, 799	727, 999	1, 437, 743	. 506	3, 156, 088	
ectsForestry	114 107	91 104	4, 383	7, 530	. 582	180, 463	
Heavy engineering	178	157	8, 290 27, 051	16, 054 20, 331	. 516 1. 331	4, 761 610	
Public roads	(6)	99, 514	10, 227, 838	16, 626, 444	. 615	17, 085, 130	
Reclamation	21,946	20,914	3, 179, 244	3, 497, 411	.909	5, 229, 062	
etc Locks and dams	37, 409	31,676	3, 392, 458	5, 522, 709	.614	3, 537, 966	
Locks and dams	12, 308	11,006	1, 380, 579	1, 974, 056	. 699	1, 944, 888	
Naval vessels	58, 812	57, 422	7,740,232	8, 668, 958	. 893	11, 562, 383	
Other than naval vessels	15, 908	14,606	1,691,195	1,983,540	. 853	1,663,919	
Streets and roads	3,806	3, 519	288, 692	474,801	. 608	257, 269	
Water and sewerage Miscellaneous	624 3,118	478 2,935	38, 447 221, 430	52, 908 397, 619	.727 .557	84, 504 1, 881, 350	
ATEMOCIATIC OUD.	5,116	A, 550	221, 400	001,015		1,001,000	

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

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.

STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of roads financed wholly from State or local funds in September 1939, compared with August 1939, and September 1938, is presented in table 17.

Table 17.—Employment and Pay Rolls on Construction and Maintenance of State Roads, September 1939, August 1939, and September 1938 ¹

	1						
	Numb	er of empl	oyees 2	Pay-roll disbursements			
Item	Septem- ber 1939	August 1939	Septem- ber 1938	September 1939	August 1939	September 1938	
Total	160, 615	155, 747	205, 248	\$11,620,870	\$11, 905, 560	\$13,951,370	
New roads Maintenance	25, 780 134, 835	23, 586 132, 161	32, 054 173, 194	1, 563, 140 10, 057, 730	1, 596, 240 10, 309, 320	2, 151, 590 11, 799, 780	

[Subject to revision]

PURCHASES FROM PUBLIC FUNDS

The value of material orders placed on construction projects financed by Federal funds in the third quarter of 1939 is presented in table 18.

In the third quarter of 1939 on the Public Works Administration program, orders were placed for materials valued at approximately \$125,183,000. Of this amount \$40,326,000 was expended for iron and steel products, \$21,511,000 for machinery, \$14,792,000 for cement and concrete products, and \$13,441,000 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 material 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 the 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

¹ Data are for the month ending on the 15th and are for projects financed wholly from State or local funds.
² Average number working during month

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 materia's purchased directly by contractors the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the Census of Manufactures, 1937.

Table 18.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter of 1939

[Subject to revision]

Type of material	Public Works Adminis- tration ¹	U. S. H. A. low-rent housing	Recon- struction Finance Corpo- ration ²	Regular Federal	Federal agency projects financed from W. P. A. funds 8
All materials	Dollars 125, 182, 989	Dollars 10, 377, 907	Dollars 1, 333, 694	Dollars 136, 010, 243	Dollars 2, 153, 037
Textiles and their products		43, 452	317	117, 253	9, 378
Awnings, tents, canvas, etc			21	28, 861	2, 289
Cordage and twine Cotton products	15, 411	978	13	21, 077 723	351 33
Felt productsJute products	14, 010 4, 793		12	181	130
Linoleum and asphalted-felt-base floor covering.	243, 051	38, 468		1, 236 16, 768	104
Sacks and bags, other than paper	496 1,644			436 3, 738	15 251
Textiles and their products, n. e. c		1, 759		44, 233	6, 048
Forest products	13, 440, 880	1, 002, 701	75, 005	5, 549, 927	223, 576
Cork products	49, 354	1, 049		11, 214	
Furniture and related productsLumber and timber products, n. c. c.	5, 258, 704 4, 294, 502	43, 120 634, 010	5, 123 58, 148	376, 422 4, 007, 153	
Planing-mill products	3, 792, 971	317, 958	11, 734	1, 150, 763	45, 340
Window and door screens and weatherstrip Forest products, n. e. c	43, 693 1, 656	6, 539 25		4, 305 70	11, 909 66
Chemicals and allied products.	1, 206, 640	58, 172	5, 324	990, 723	73, 403
Ammunition and related products	300				
Compressed and liquefied gases	29, 182	315	2,085	28, 504	3, 277
Explosives Paints, pigments, and varnishes	350, 698 778, 768	839 54, 996	408 2, 831	700, 916 245, 651	5, 763 49, 251
Chemicals and allied products, n. e. c	47, 692			15, 652	15, 112
Stone, clay, and glass products	37, 240, 599	3, 012, 557	199, 255	33, 043, 431	564, 004
Asbestos products, n. c. c.	78, 376	11,020	992	2, 618	1,900
Brick, hollow tile, and other clay products, n. c. c Cement	6, 735, 506 7, 241, 426		21, 222 109, 681	429, 478 15, 493, 303	31, 401 213, 465
Concrete products	7, 550, 828		19, 207	852, 921	60, 987
Crushed stone	1, 752, 251	44, 581	2, 290	5, 785, 747	122, 662
Glass	636, 422 58, 219	38, 296 30, 667	5, 720 362	66, 963 3, 301	3, 297 8 2 7
Lime Marble, granite, slate, and other stone, cut and		·			
shaped Minerals and earths, ground or otherwise treated.	5, 471, 720 13, 558	67, 535 465	2, 379	662, 888 749	12, 435
Sand and gravel. Steam and other packing, pipe and boiler cover-	4, 193, 678		25, 999	9, 233, 424	
ing, and gaskets	286, 017		304	41, 397	578
Tiling, floor and wall, and terrazzo	1, 150, 885 1, 671, 793	83, 216 180, 531	3, 190 7, 472		
Stone, clay, and glass products, n. e. c	399, 920		437	12, 481	5, 695
	l 	l 	l=	l	I

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 Company.
 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 18 .- Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Third Quarter of 1939—Continued [Subject to revision]

[Subjec	t to revision	<u> </u>			
Type of material	Public Works Adminis- tration	U. S. H. A. low-rent housing	Recon- struction Finance Corpo- ration	Regular Federal	Federal agency projects financed from W. P. A. funds
Iron and steel and their products, not including machinery	Dollars 40, 326, 359	Dollars 3, 403, 263	Dollars 555, 901	Dol!ars 24, 834, 460	Dollars 469, 145
Bolts, nuts, washers, and rivets Doors, shutters, window sash and frames, mold-	252, 992	4,031	5, 643	342, 605	7, 843
ing and trim, metal Forgings, iron and steel Hardware, miscellancous Reating and ventilating equipment, except pipe	2, 235, 403		23, 913	848, 645	10, 130
Hardware, miscellaneous	410, 465 1, 795, 515		7, 779 22, 801	1, 819, 069 603, 326	
Heating and ventilating equipment, except pipe.	6, 567, 183	344, 263	41, 755	852, 667	10, 430
Nails and spikes. Pipe and fittings, cast-iron	221, 491 2, 826, 351	1, 884 214, 602	2, 377 6, 007	74, 663 500, 997	8, 127 25, 152
Pipe and fittings, wrought-iron and steel	2, 593, 553	253, 655	52, 845	1, 233, 510	34, 257
Plumbing fixtures and supplies, except pipe Rail fastenings, except spikes	1 1 197		15, 023	422, 161	39, 000
Rails, steel Springs, steel Steel, reinforeing	8, 588			14, 138	
Steel reinforcing	1, 310 4, 714, 028	971, 352	23, 741	3, 112, 119	72, 769
Stool structural	1 19 036 080	301, 951	315, 475	10, 158, 866	79,802
Stoves and ranges, other than electric	11, 687 1, 465			130	
Tools, other than machine tools	308, 732	8, 828	3, 825	238, 214	15, 674
Wire and wireworks products Iron and steel and their products, n. e. c	488, 550 2, 951, 903		4, 409 30, 308	787, 157 3, 826, 193	12, 927 93, 879
- · · · · · · · · · · · · · · · · · · ·					
Nonferrous metals and their products	2, 332, 381	251, 765	8, 787	866, 030	24, 145
Aluminum products	169, 222	2, 220		44, 343	
Copper products Lead products	667, 786 34, 551	2, 568 1, 263	2, 076	583, 423 2, 165	
Sheet-metal products	1, 356, 490	75, 357	5, 911	190, 063	18,011
Zine products Nonferrous metals and their products, n. e. c	470 103, 862			46, 036	2,014
Machinery, not including transportation equipment	21, 510, 818		359, 906	57, 599, 557	219, 709
Electrical machinery, apparatus, and supplies	5, 075, 964	65, 905	20, 476	13, 797, 405	38, 679
Electrical wiring and fixtures	5, 122, 714	392, 776	70,608	5, 353, 978	28, 729
Elevators and elevator equipment	1, 008, 100 3, 555, 118		1, 702 2, 667	484, 076 15, 063, 718	777 13, 204
Machine tools	113, 205	144	13, 843	413, 302	1,098
Pumps and pumping equipment		43, 514	12, 828	43, 695 3, 108, 639	
Radio apparatus and supplies	29, 668			961, 325	
Refrigerators and refrigerating and ice-making apparatus	216, 334	292, 703		48, 308	741
apparatus Machinery, n. e. c	4, 944, 142		237, 782	18, 325, 111	126, 688
Transportation equipment—air, land, and water	277, 597	723	72, 460	896, 229	53, 379
Aircraft				232, 174	
Boats, steel and wooden Carriages and wagons	6, 450 12, 475		72, 460	203, 955 351	
Motor vehicles, passenger	867			120, 235	983
Motor vehicles, trucks Transportation equipment, n. e. e	228, 934 28, 871	110		268, 178 71, 336	
Miscellaneous		1, 547, 272	56, 739	12, 112, 633	516, 298
Belting, miscellaneous	172 131, 755		1, 390	667 297, 444	
Creosote	313			64	18
Instruments, professional and scientific	90, 501		206		
Mattresses and bed springs	14, 396 984			1, 166 694	
Paper products Paving materials—asphalt, tar. crushed slag,	9, 655	5, 066		29, 265	1, 154
and mixtures	1, 921, 630		2, 792 7, 734	1, 350, 510	
Petroleum products. Photographic apparatus and supplies	2, 118, 822 106, 821	57, 351	7, 734	5, 199, 961 37, 378	87, 405
Roofing—built-up, and roll, asphalt shingles	i	ĺ		ĺ	1
and roof coatings, except paint		108, 945	15,040	71, 920 121, 371	24, 834
Theatrical scenery and stage equipment	187, 080 93, 023		1, 429	121, 571	5, 375
Window shades and fixtures Other materials	59, 857 2, 975, 450	2,889		48 4, 363, 885	
Conci materials	4, 910, 450	1, 500, 120	28, 148	*, 303, 885	339, 376

Table 19 shows the value of material orders placed on construction projects financed by Federal funds during the second quarter of 1939, by type of project.

Table 19.-Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1939

[Subject to revision]

		Projects							
Type of material	Total	Public Works Adminis- tration ¹	U.S.H.A. low-rent housing	Reconstruction Finance Corporation 2	Regular Federal	Federal agency projects financed from W.P.A. funds 3	Operated by W. P. A.		
All materials	Dollars 323, 789, 630	Dollars 117, 543, 696	Dollars 4, 947, 175	Dollars 2, 909, 351	Dollars 109, 910, 717	Dollars 3, 434, 106	Dollars 85, 044, 585		
Textiles and their products	4, 057, 398	241, 857	6, 689	1, 774	136, 307	27, 992	3, 642, 779		
Forest products	28, 055, 053	13, 376, 888	434, 894	. 116, 961	4, 374, 531	403, 669	9, 348, 110		
Furniture and related products. Lumber and timber prod-	3, 864, 133				,	8, 177			
rorest products, n.e.c.	24, 083, 111 107, 809	9, 963, 773 88, 770	356, 487 7	116, 115 0	4, 100, 257 18, 420	394, 880 612	9, 151, 599 0		
Chemicals and allied products	4, 686, 452	1,066,852	10, 647	29, 146	709, 225	125, 256	2, 745, 326		
Paints, pigments, and varnishes Other chemicals	2, 331, 393 2, 355, 059	619, 349 447, 503	8, 331 2, 316	25, 559 3, 587	211, 803 497, 422	96, 291 28, 965			
Stone, clay, and glass products.	94, 443, 675	36, 457, 639	1, 340, 253	604, 713	25, 049, 621	869, 420	30, 122, 029		
Brick, hollow tile, and other clay products	13, 118, 017 27, 189, 147 14, 795, 695 11, 145, 867 16, 259, 262 11, 935, 687	8, 030, 910 6, 862, 969 8, 719, 537 1, 427, 371 3, 816, 855 7, 599, 997	515, 968 269, 677 319, 311 19, 613 75, 138	316, 762 15, 533 972 97, 919	424, 848 11, 565, 571 874, 368 4, 277, 899 6, 644, 986 1, 261, 949	80, 032 422, 446 65, 763 70, 579 136, 409 94, 191	7, 751, 722 4, 801, 183 5, 349, 433 5, 487, 955		
fron and steel and their products, not including machinery	81, 119, 572	38, 836, 411	1, 654, 588	597, 424	22, 179, 972	662, 020	17, 189, 15 7		
Heating and ventilating equipment. Pipe and fittings, cast-iron. Plumbing supplies, n.e.c. Structural and reinforcing	7, 067, 784 9, 360, 080 4, 684, 735	4, 685, 644	128, 708 136, 121 118, 026	12, 270 8, 614 27, 218	749, 346 639, 971 330, 401	17, 881 56, 825 60, 556			
steel	29, 379, 387	14, 014, 577	492, 102	207, 031	10, 826, 328	203,725	3, 635, 624		
tools Other products of iron and	1, 899, 047	398, 952	,	9,095	,	29, 329	,,		
steel	28, 728, 539	11, 434, 642		333, 196	9, 434, 669	293, 704	6, 458, 977		
Nonferrous metals and their products	3, 475, 260	2, 082, 978	192, 424	13, 913	650, 224	19,008	516, 7 13		
Machinery, not including transportation equipment	68, 293, 526	16, 513, 157	717, 535	1, 454, 778	44, 812, 330	397, 098	4, 398, 628		
Electrical machinery, apparatus, and supplies Engines, turbines, tractors,	27, 296, 101	· '	ĺ .	482, 008	16, 509, 419		1 ' '		
and water wheels Other machinery	11, 832, 732 29, 164, 693			15, 589 957, 181					

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.

² Includes projects financed by 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.

TABLE 19.-Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Second Quarter of 1939—Continued

	-	Projects						
Type of material	Total	Public Works Adminis- tration	U.S.H.A. low-rent housing		Regular Federal	Federal agency projects financed from W. P. A. funds	Operated by W. P. A.	
Transportation equipment—air, land, and water	Dollars 1, 918, 476	Dollars 306, 641	Dollars 68	Dollars 0	Dollars 292, 462	Dollars 116, 352	Dollars 1, 202, 953	
Motor vehicles, trucks Other transportation equip- ment	1, 660, 622 257, 854			0	160, 260 132, 202	, , , , , , ,		
Miscellaneous	37, 740, 218				==		15, 878, 890	
Coal and coke Paving materials and mixtures Petroleum products. Rubber goods. Other materials.	584, 362 8, 453, 806 8, 123, 199 552, 034 20, 026, 817	1, 558, 918 1, 752, 286 152, 643	0 14, 287 344	1, 517 10, 808 3, 550	3, 932, 489 106, 726	36, 207 181, 561 19, 256	5, 440, 361 2, 231, 768 269, 515	

Rentals and services on projects operated by the Works Progress Administration for the second quarter of 1939, the first quarter of 1939, and the second quarter of 1938 are shown in table 20, by type of rental and service.

Table 20.—Rentals and Services on Projects Operated by the Works Progress Administration

[Subject to revision]

Type of rental and service	Second	First	Second
	quarter of	quarter of	quarter of
	1939 1	1939 ²	1938 3
All rentals and services Motor vehicles Teams and wagons Paving, road building, and construction equipment. Other equipment (including office equipment) Space rentals and services. Other services (including utilities)	\$00. 919, 262	\$66, 553, 240	\$48, 342, 335
	37, 913, 908	31, 795, 286	21, 969, 993
	1, 455, 544	777, 848	680, 229
	19, 016, 845	19, 078, 362	17, 932, 573
	1, 617, 598	1, 687, 746	1, 111, 723
	7, 259, 554	5, 850, 352	2, 921, 491
	23, 655, 813	7, 363, 646	3, 726, 326

Table 21 shows rentals and services on work projects of the National Youth Administration for the second quarter of 1939, the first quarter of 1939, and the second quarter of 1938.

Quarterly period ending June 30, 1939.
 Quarterly period ending Mar. 31, 1939.
 Quarterly period ending June 30, 1938.

TABLE 21.—Rentals and Services on Work Projects of the National Youth Administration [Subject to revision]

Type of rental and service	Second	First	Second
	quarter	quarter	quarter
	of 1939 ¹	of 1939 ²	of 1938 ³
All rentals and services. Motor vehicles. Teams and wagons. Paving, road building, and construction equipment. Other equipment (including office equipment) Space rentals and services. Other services (including utilities).	213, 396 5, 268 46, 874 96, 264 222, 867	\$752, 526 207, 162 6, 735 39, 001 96, 879 197, 637 205, 112	\$604, 725 =

In connection with the administration of the Public Contracts Act the Bureau of Labor Statistics has been collecting data on supply contracts awarded by Federal agencies of the United States for the manufacture or furnishing of materials, supplies, articles, and equipment in any amount exceeding \$10,000. The first public contracts

Table 22 shows the value of public contracts awarded under the Act for supplies during the third quarter of 1939, the second quarter of 1939, and the third quarter of 1938.

were awarded under the act in September 1936.

Table 22.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material [Subject to revision]

Type of material	Value of contracts awarded		
	Third quar- ter 1939	Second quar- ter 1939	Third quar- ter 1938 ¹
Alì materiais	\$151, 489, 897	\$169, 877, 908	\$118, 111, 835
Food and kindred products	2, 259, 159	2, 335, 400	2, 024, 227
Canned fruits and vegetables	941, 416 59, 521	325, 230 16, 685 26, 854	798, 361 37, 420
Coffee and tea Condensed and evaporated milk Feeds, prepared, for animals and fowls	143, 615 118, 971	535, 446 365, 688 103, 341	238, 207 89, 939 217, 682
Flour and other grain mill products	102, 494 170, 792	114, 368 180, 708 208, 558	116, 356 333, 561
Sugar Miscellaneous subsistence stores and supplies		458, 522	192, 695
Textiles and their products	8, 086, 016	7, 212, 123	6, 390, 318
Canvas bags and covers Clothing (overcoats, suits, trousers, etc.)	214, 155	17, 225 42, 106 402, 791	102, 963 391, 756 517, 498
Clothing, manufacture only? Cordage and twine, including thread. Cotton goods (drills, prints, sheeting, etc.)	3, 277, 912	99, 026 4, 165, 280	19, 290 1, 776, 012
Cotton shirts Furnishing goods, men's, n. e. e. Housefurnishing goods (Filloweases, sheets, etc.)	18, 403	297, 520	
Houselurnishing goods (Fillowcases, sheets, etc.) Knit goods (hosiery, underwear, etc.) Linoleum	j 363, 689	169, 135	611, 346

Revised.

Quarterly period ending June 30, 1939.
 Quarterly period ending Mar. 31, 1939.
 Quarterly period ending June 30, 1938.

Labor only. Material furnished by U. S. Government.

Table 22.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Con.

TextIlles and their products—Continued. \$665.022 \$751.000 \$775.512 \$751.000 \$775.000	Type of materials	Value	Value of contracts awarded		
Work eichting Sept. Sept			Second quar- ter 1939	Third quar- ter 1938	
Cork and cork products	Work clothing	509, 673	187, 317	\$775, 618 55, 215 902, 666	
Furniture	Forest products	2, 031, 125	2, 217, 714	1, 491, 244	
Ammunition and related products	Furniture Lumber and timber products, n. e. c. Planing mill products	631, 898 732, 141	249, 261 419, 793 1, 499, 660	902, 195 49, 552 12, 769 133, 396 393, 332	
Drugs and medicines	Chemicals and allied products	3, 200, 615	2, 663, 172	7, 566, 858	
Asrhart, oil, far, and mixtures Coal and coke 1, 480, 366 1, 102, 367 1, 466, 568 Fuel oil 1, 595, 866 1, 103, 77, 45 2, 637, 288 Gasoline 2, 574, 752 1, 380, 230 1, 380, 303 1, 380, 303 1, 390, 390 1, 390, 390	Compressed and liquefied gases Drugs and medicines Explosives Linseed oil Paints and varnishes Soap and soap chips	107. 981 567, 873 80, 196 317. 188 109, 657	301, 053 29, 690 677, 679 269, 402 203, 186	2, 760, 348 73, 266 3, 429, 515 130, 611 179, 348 51, 014 942, 756	
Puel of	Products of asphalt, coal. and petroleum	6, 242. 901	22, 648, 849	8, 690, 912	
Boots and shoes.	Coal and coke	1, 480, 366 1, 595, 866 2, 574, 752 86, 832 187, 062	10, 037, 745 7, 386, 230 1, 980, 403 249, 850	860, 586 466, 568 2, 637, 285 4, 320, 696 405, 777 331, 033	
Shoe upper-leather	Boots and shoes	1, 291, 687		280, 554	
Stone, clay, and glass products. 3, 174, 652 4, 315, 443 8, 956, 508	Shoe upper-leather Miscellaneous leather goods	294, 025			
Brick 85,013 145,665 102,812 Cement 1,361,417 1,552,230 6,066,04 Concrete pipe 189,214 78,337 234,592 Concrete, ready mixed 518,842 463,638 391,78 Crushed stone 125,968 960,598 245,536 Glass 14,995 44,935 245,536 Granite and marble 116,426 228,655 93,277 Riprap stone 183,260 22,500 169,944 Soil, black earth 51,666 90,788 149,75 Terra cotta 12,748 11,760 63,904 22,82 Vitrified clay and terra-cotta pipe 76,158 76,158 15,466 Miscellaneous stone, clay, and glass products 212,391 245,981 390,66 Iron and steel and their products, not including machinery 22,444,235 10,243,576 12,729,48 Belts, nuts, rivets, washers, etc 60,211 12,460 35,30 Cast-iron pipe and fittings 315,80 191,155 212,03 Fercing mat				==	
Miscellaneous stone, clay, and glass products 212, 391 245, 981 390, 66. Iron and steel and their products, not including machinery 22, 444, 235 10, 243, 576 12, 729, 48- Belts, nuts, rivets, washers, etc. 60, 231 12, 460 35, 30 Cast-iron pipe and fittings 315, 891 191, 155 212, 03 Fencing materials 47, 803 10, 808 10, 808 Forgings, iron and steel 1, 454, 636 365, 357 5, 882, 74 Hardware, miscellaneous 10, 650 10, 625 37, 26 Metal doors, sash, and frames 190, 977 215, 22 Metal shingles and roofing 40, 456 270, 78 Pipe and fittings 14, 205 64, 622 16, 652 Re inforcing steel 128, 654 309, 922 942, 70 Steel pipe and fittings 209, 112 319, 786 96, 51 Stoves and ranges, other than electric 99, 914 340, 499 29, 427 Stoves and ranges, other than electric 99, 914 340, 499 29, 943, 77 Tools, other than machine tools 7, 692, 230 2, 200, 259 933, 17 Tools, ot	Brick Cement Concrete pipe. Concrete. ready mixed Crushed stone Glass Granite and marble Riprap stone Sand and gravel Soil, black earth Terra cotta Tile, clay, including drain	85, 013 1, 361, 417 189, 214 518, 842 125, 958 14, 995 116, 426 183, 250 290, 972 51, 666 12, 748 11, 760	145, 665 1, 552, 230 78, 337 463, 638 960, 598 44, 935 228, 655 22, 500 342, 054 90, 788	102, 812 6, 0% 6, 048 234, 572 391, 784 245, 536 03, 272 169, 944 1, 095, 504 149, 756	
Belts, nuts. rivets. washers, etc. 69, 231 12, 460 35, 30 Cast-iron pipe and fittings 315, 891 191, 155 212, 03 Fencing materials 47, 893 10, 808 582, 274 Forgings, iron and steel 1, 454, 636 365, 357 5, 862, 74 Hardware, miscellaneous 10, 650 10, 625 37, 26 Metal doors, sash, and frames 892, 947 345, 664 270, 78 Metal shingles and roofing 40, 456 270, 78 Pipe and fittings, n. e. c 11, 880 34, 85 Plumbing fixtures and supplies 14, 205 64, 622 16, 05 Rails, steel 35, 473 31, 160 43, 58 Re inforcing steel 128, 654 309, 922 942, 70 Steel pipe and fittings 209, 112 319, 786 96, 51 8teel sheets, plates, shapes, and strips 7, 101, 686 2, 316, 820 335, 14 8toves and ranges, ofter than electric 59, 914 360, 499 29, 41 8tructural steel, fabricated, and sheet-steel piling 7, 692, 230 2, 200, 259	Miscellaneous stone, clay, and glass products	212, 391	245, 981	399. 66	
Cast-iron pipe and fittings 315, 891 191, 155 212, 03 Fencing materials 47,803 10, 808 Forgings, iron and steel 1,454, 636 365, 357 5, 862, 74 Hardware, miscellaneous 10, 660 10, 625 37, 26 Metal doors, sash, and frames 190, 977 215, 22 Metal furniture 892, 947 345, 664 270, 78 Metal shingles and roofing 40, 456 Pipe and fittings, n. e. c 11, 880 34, 85 Plumbing fixtures and supplies 14, 205 64, 622 16, 05 Rails, steel 35, 473 31, 160 43, 58 Re inforcing steel 128, 654 309, 922 942, 70 Steel sheets, plates, shapes, and strips 209, 112 319, 786 96, 51 Stoves and ranges, other than electric 59, 914 360, 499 29, 41 Structural steel, fabricated, and sheet-steel piling 7, 692, 230 2, 200, 259 933, 17 Trois, other than machine tools 7433 44, 350 157, 890 157			· <u></u>	12, 729, 48	
Pipe and fittings. n. e. c. 11, 880 33, 35	Cast-iron pipe and fittings Fencing materials Forgings, von and steel. Hardware, miscellaneous. Metal doors, sash, and frames. Metal furniture	315, 891 47, 893 1, 454, 636 10, 650	191, 155 10, 808 365, 357 10, 625 190, 977	35, 30 212, 03 5, 862, 74 37, 26 215, 22 270, 78	
Wire products 259, 199 178, 364 79, 77 Miscellaneous iron and steel products 3, 945, 225 3, 278, 868 3, 427, 32	Pipe and fittings. n. e. c. Plumbing fixtures and supplies Rails, steel Reinforcing steel Reinforcing steel Steel pipe and fittings. Steel sheets, plates, shapes, and strips. Stoves and ranges, other than electric. Structural steel, fabricated, and sheet-steel piling.	14, 205 35, 473 128, 654 269, 112 7, 101, 086 89, 914 7, 692, 230	64, 622 31, 160 309, 922 319, 786 2, 316, 820 360, 499 2, 200, 259	34, 85 16, 05 43, 58 942, 70 96, 51 335, 14 29, 41 933, 17 157, 59	
	Wire products Miscellaneous iron and steel products	259, 199 3, 945, 225	178, 364	79, 77 3, 427, 32	

Table 22.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Con.

	Value	Value of contracts awarded		
Type of materials	Third quar- ter 1939	Second quar- ter 1939	Third quar- ter 1938	
Nonferrous metals and their alloys	\$4, 073, 256	\$1, 911, 338	\$2, 631, 371	
Aluminum manufactures	540, 470	281, 716	268, 302	
Brass products Bronze products	1, 303, 807 449, 874	281, 853 38, 750	312, 728 118, 722	
Copper products. Fixtures, gas and electric	346, 045	559, 304	163, 615	
Fixtures, gas and electric	64, 275 140, 345	77, 552	84, 773	
Lead products Magnesium		25, 340	15, 255 22, 176	
Niekel	192, 928	101, 500	52, 213	
Plated wareSheet-metal work		10, 470 57, 560	91, 489 12, 609	
Tin	16, 597		12, 609 595, 300	
Zinc	33, 000 985, 915	45, 356 431, 937	23, 217 870, 972	
Machinery, not including transportation equipment and electri- cal equipment	9, 584, 884	11, 164, 535	15, 597, 474	
	69 959	146 912	12 108	
Air-conditioning equipmentBusiness machines.	62, 852 104, 703	146, 813 68, 629	43, 186 63, 566	
Business machines Elevators and elevator equipment	44, 381	48, 979	11, 900	
Engines, turbines, tractors, and parts	1, 217, 637 91, 312	3, 956, 149 39, 601	9, 359, 119 10, 424	
Filter and purification equipment Laundry machinery and equipment	78, 591	41, 434	54, 125	
Machine tools	3, 223, 375	1, 910, 598	1, 913, 003	
Phonographs and accessories Power shovels and draglines	90, 339	144, 854	34, 500 115, 975	
Power shovels and draglines Printing and publishing machinery	567, 072	164, 401	11, 168	
Pumps and pumping equipment. Refrigerators and refrigerating and ice-making machinery	1, 086, 121 46, 268	913, 747	198, 429 71, 530	
Road machinery	54, 151	120, 206	217, 171	
Windlasses, winches, and capstans	202, 346 2, 715, 736	300, 779 3, 308, 345	22, 815 3, 470, 563	
Electrical machinery, apparatus, and supplies	9, 092, 042	9, 574, 117	6, 012, 843	
Batteries	58, 474	37, 537	407, 118	
Circuit breakers and switches. Electric cable, wire, and other conductors.	1, 224, 445	306, 652	251, 338	
Electric cable, wire, and other conductors	1, 297, 083 1, 069, 040	2, 055, 455 238, 479	722, 736 2, 940, 741	
Heaters and ranges	52, 337	200, 419	6, 719	
Heaters and ranges. Lamps, incandescent, and X-ray tubes		;:::-,:::	10, 500	
Motors Radio equipment and supplies	12, 586 4, 159, 866	155, 565 1, 694, 116	76, 924	
Spark plugs		188, 641	81, 464	
Switchboards, relay and control equipment	119, 447 300, 492	149, 525 1, 006, 285	101, 406 546, 632	
Transformers	215, 374	422, 822	299, 934	
Welding equipment	26, 840 556, 058	14, 520 3, 304, 520	564, 331	
Transportation equipment	75, 067, 631	82, 492, 569	37, 504, 172	
Aircraft Aircraft parts and equipment	64, 984, 315	34, 852, 834	2, 435, 836	
Boats and boat equipment	3, 666, 842 115, 960	4, 601, 692 54, 387	529, 615 15, 085	
Motor vehicles, passenger	1, 717, 792	336, 725	32, 160	
Motor vehicles, trucks Naval vessels	1, 432, 525 3, 002, 489	6, 504, 222 35, 915, 948	1, 084, 074 33, 177, 000	
Naval vessels Miscellaneous transportation equipment	147, 708	226, 761	230, 402	
Miscellaneous	4, 534, 841	12, 929, 772	8, 185, 391	
Brooms, brushes, bristles, etc	18, 455	39, 419 108, 151	53, 652	
Instruments, professional and scientific	2, 496, 135	2, 318, 480	4, 366, 665	
Paper and allied products Photographic apparatus and materials	598, 543	5, 276, 986	219, 417	
Printing, publishing, and subscriptions	181, 861 94, 885	772, 788 176, 319	350, 651 205, 411	
Rubber products	120, 702	669, 358	95, 574	
SlagSteam and other packing, pipe and boiler covering	45, 450 19, 089	218, 107 338, 516		
Surgical and orthopedic supplies and appliances	210, 911	62, 306	283, 134	
Tobacco manufactures	16, 375	103, 444	43, 115	
Other materials. Rentals, services, etc. (equipment rental, repairs, aerial surveys, etc.)	645, 902	1, 683, 097	1, 011, 101	
surveys, etc.)	86, 533	1, 162, 801	1, 556, 671	

The value of public contracts awarded for supplies by Federal agencies totaled \$151,490,000 during the third quarter of 1939. Of the contracts awarded in the third quarter of 1939, \$75,068,000 was for transportation equipment; \$22,444,000 for iron and steel and their products; \$9,585,000 for machinery, not including electrical machinery and transportation equipment; and \$9,092,000 for electrical machinery, apparatus, and supplies.

