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EMPLOYMENT AND PAY ROLLS

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Employment and Pay Rolls

SUMMARY OF REPORTS FOR DECEMBER 1937

THERE were estimated decreases in December of 276,000 in employment and \$15,300,000 in weekly pay rolls in all manufacturing industries combined and in the 16 nonmanufacturing industries surveyed each month by the United States Bureau of Labor Statistics.

Approximately 747,000 fewer workers were employed by these industries in December 1937 than in the same month a year ago and weekly pay rolls were \$19,100,000 smaller than in December 1936. The average number employed in the year 1937, however, was over 1,000,000 higher than the average for the year 1936 and weekly pay rolls for 1937 were \$50,900,000 larger.

A preliminary tabulation by the Interstate Commerce Commission showed that class I railroads employed 995,725 workers in December, exclusive of executives, officials, and staff assistants, a decrease of 52,050 since November.

Employment in the executive, judicial, and military services of the Federal Government was greater in December than in the preceding month, while employment in the legislative service decreased. An increase in the employment level occurred on Federal projects under The Works Program, projects operated by the Works Progress Administration, and on work projects of the National Youth Administration and Student Aid. Decreases in the number of workers employed occurred on P. W. A. construction projects, projects financed from regular Federal appropriations, and on projects financed by the Reconstruction Finance Corporation. There was a decrease in the number of workers in the Civilian Conservation Corps.

Industrial and Business Employment

Decreased employment from November to December was shown in 13 of the 16 nonmanufacturing industries surveyed by the Bureau of Labor Statistics and in 79 of the 89 manufacturing industries covered. Pay rolls were lower in 10 of the nonmanufacturing and 72 of the manufacturing industries.

For all manufacturing industries combined, it is estimated that 513,000 wage earners (6.4 percent) were laid off between November and December. Although employment declines in factories have been noted for December in 13 of the preceding 18 years, the present drop

was the largest with but one exception (1920). Because of the shortening of work schedules and the spreading of work, factory pay rolls fell more sharply than employment, the estimated decline in weekly wage disbursements being \$17,600,000 or 9.6 percent.

A comparison with December 1936 shows that the factory employment level was 9.7 percent (797,000) lower in December 1937 and that weekly wage disbursements were 15 percent (\$29,203,000) lower. The average employment index for 1937 was 99.3 on the basis of the 1923–25 average as 100; this was 8.1 percent above the 1936 level. In terms of workers the increase between the two years was 624,000. The average 1937 pay-roll index was 98.0, a gain of 18.9 percent compared with the 1936 level. In terms of weekly wage disbursements, the increase was nearly \$31,700,000.

The most pronounced percentage decreases in manufacturing employment from November to December were in industries for which sharp seasonal curtailment is generally reported in December. sugar plants, having passed the peak of seasonal activity, reduced their forces 42.0 percent and canning and preserving establishments reported a decline of 24.9 percent, reflecting seasonal reductions in Radio and phonograph factories also reported a sharp seasonal decline (20.9 percent) in number of workers. Due to the decrease in production schedules, employment in the automobile industry declined 15.2 percent from November to December and weekly pay rolls fell 27.8 percent. Electric and steam railroad carbuilding companies reported 15.2 percent fewer employees in Decem-The decrease of 15.2 percent in employment in the stove industry was somewhat larger than seasonal and the 14.8 percent decline in the stamped and enameled ware industry was also more pronounced than the usual December declines. Plants manufacturing plumbers' supplies reported a decrease (partly seasonal) of 11.0 percent in employment, and firms manufacturing jewelry reported a seasonal decline of 10.3 percent.

Decreases in employment ranging from 9.0 percent to 10.2 percent were reported in marble, slate, and granite works; in steam railroad repair shops; in sawmills; and in factories making brick, tile, and terra cotta; wirework; cottonseed oil, cake, and meal; and rayon.

Other industries of major importance in which substantial declines were shown included blast furnaces, steel works, and rolling mills; foundries and machine shops; men's clothing; glass; silk and rayon goods; cotton goods; and paper and pulp.

Among the 10 manufacturing industries reporting gains in numbers of workers over the month interval were fertilizers (8.3 percent), cane sugar refining (6.6 percent), cast-iron pipe (4.0 percent), boots and shoes (3.7 percent), and woolen and worsted goods (2.1 percent). The

increases in cane sugar refining and wool were contraseasonal and the gains in the remaining three industries were larger than seasonal. Smaller increases were reported in the millinery, fur-felt hat, electric railroad repair shop, slaughtering and meat packing, and chewing and smoking tobacco industries.

In the nonmanufacturing group retail trade was the only industry which increased employment to any appreciable extent. trade was largely responsible for the increase of 9.2 percent in employment in retail stores. The December index of employment in retail trade (100.1) was above the average for the year 1929 (100.0), and was at the highest level of any month since December 1930. major portion of this increase was in the general merchandising group of retail establishments (department, variety, and general merchandising stores and mail-order houses) in which a gain of 31.8 percent or 284,000 workers was shown. Employment in this group in December 1937 exceeded the level of any preceding month, including December 1929. Employment in other lines of retail trade increased by 1.8 percent or approximately 46,500 workers. There were substantial employment gains in stores dealing in jewelry, apparel, hardware, furniture and housefurnishings, and in wood, coal, and ice firms. Retail lumber and building material dealers reported a greater-thanseasonal decline and retail automobile dealers also reported fewer Retail food stores showed an employment decrease of 0.5 workers. percent.

Anthracite mines reported a somewhat less-than-seasonal increase of 0.6 percent in employment from November to December and insurance firms hired a small additional number of workers. 13 nonmanufacturing industries reporting losses in employment, the most pronounced decline was in the private building construction industry. While employment in this industry normally recedes from November to December, the current decrease of 17.2 percent is larger than the December decreases shown in 4 of the preceding 5 years for which data are available. Other industries in which substantial declines, largely seasonal, were reported were quarrying and nonmetallic mining (12.0 percent) and dyeing and cleaning (4.2 percent). Metal mines further reduced their working forces in December, employment falling 6.6 percent over the month interval. minous-coal mines reported a decrease of 2.0 percent in number of workers and year-round hotels also reported a seasonal curtailment of 1.8 percent. In the remaining industries surveyed (crude petroleum producing, telephone and telegraph, power and light and manufactured gas, electric railroad and motorbus operation, wholesale trade, laundries, and brokerage) the decreases ranged from 1.6 percent to 0.3 percent.

Aggregate employment in the combined 16 nonmanufacturing industries surveyed showed a net increase (237,000 workers) between November and December, and aggregate weekly pay rolls were \$2,300,000 greater in December than in the preceding month. Comparisons of the averages for 1937 with the averages for 1936 show that only one industry, anthracite mining, had fewer workers and smaller pay rolls in the current year. The 16 nonmanufacturing industries combined employed 382,600 more workers in 1937 than in 1936 and paid out \$19,246,000 more per week in wages and salaries. The 1937 employment level exceeded the 1936 level by 27.4 percent in metalliferous mining, by 7.9 percent in the telephone and telegraph industry, and by 10.4 percent in private building construction. Gains in average employment between 1936 and 1937 ranging from 4.5 percent to 6.1 percent were shown in wholesale trade, retail trade, electric light and power, hotels, and laundries.

There were 52,050 fewer workers (exclusive of executives, officials, and staff assistants) employed by class I railroads in December than in November according to a prelininary report of the Interstate Commerce Commission. This report showed 995,725 such workers on pay rolls in December, a decrease of 5.0 percent since November. December pay-roll figures were not available when this report was prepared. For November, the wage disbursements were \$154,856,765, a decrease of 8.3 percent or \$14,081,513 from October.

Hours and earnings.—The average hours worked per week by factory wage earners was 34.4 in December according to reports covering full- and part-time workers. This average was 3.1 percent below the November figure. Average hourly earnings fell 0.1 percent to 66.6 cents and average weekly earnings fell 3.4 percent to \$22.93. Comparisons with December 1936 show that current average hours were 16.5 percent lower, average hourly earnings, 12.2 percent higher, and average weekly earnings, 5.9 percent lower than a year ago.

Of the 14 nonmanufacturing industries for which man-hour data are available, 6 showed gains over the month interval in average hours worked per week and 5 showed increases in average hourly earnings. Average weekly earnings were higher in 6 of the 16 nonmanufacturing industries covered.

A summary is presented in table 1 of employment and pay-roll indexes and average weekly earnings in December 1937 for all manufacturing industries combined, for selected nonmanufacturing industries, and for class I railroads, with percentage changes over the month and year intervals except in the few industries for which data are not available.

Table 1.—Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, December 1937

	En	nploym	ent	:	Pay rol	l		rage we earnings	
Industry	Index.		entage e from—	Index.		entage from—	Aver-		entage e from→
	De- cember 1937	No- vem- ber 1937	De- cem- ber 1936	De- cember 1937	No- vem- ber 1937	De- cem- ber 1936	age in De- cember 1937	No- vem- ber 1937	De- cem- ber 1936
All manufacturing industries combined 1	(1923–25 =100) 88. 6	-6.4	-9.7	(1923-25 = 100) 80. 9	-9.6	15.0	\$22. 93	-3.4	-5.9
Class I steam railroads 2	56. 4	-5.1	-6.9	(3)	(3)	(3)	(3)	(3)	(3)
Coal mining: Anthracite		+.6 -2.0 -6.6 -12.0 9 -1.1 -1.2	-7. 2 -4. 0 +9. 4 -11. 2 +5. 6 +5. 9 +3. 0	(1929 =100) 47. 2 81. 3 65. 1 33. 4 69. 8 94. 7 102. 4	+4.6 +4.4 -9.0 -20.1 7 +3.6 -1.4	-14.8 -4.5 +12.9 -15.3 +13.9 +14.9 +9.1	27. 02 25. 49 29. 43 19. 32 34. 11 31. 44 34. 38	+3.9 +6.5 -2.5 -9.2 +.3 +4.7 2 +.6	-8. 2 4 +3. 2 -4. 7 +7. 8 +8. 5 +5. 9
Trade: WholesaleRetailGeneral merchandising_	93. 3 100. 1 144. 7	3 +9.2 +31.8	+2.5 +.5 +.9	77. 8 80. 6 123. 5	7 +7. 0 +27. 2	+6.9 +6.2 +6.3	30. 00 21. 55 18. 59	4 -2. 0 -3. 5	+4.3 +5.6 +5.3
Other than general merchandising. Hotels (year-round)4 Laundries Dyeing and cleaning Brokerage Insurance Building construction	77. 1 (3) (3)	+1.8 -1.8 8 -4.2 -1.6 +.2 -17.2	+.4 +3.9 3 7 -6.9 +1.8 -13.9	71. 7 76. 3 79. 2 58. 9 (3) (3) (3)	+1.3 -2.0 +(5) -6.9 -2.6 8 -22.7	+6.2 +9.3 +4.0 +2.7 -6.1 +4.3 -10.9	24. 57 15. 25 17. 03 19. 09 38. 36 38. 91 28. 53	5 2 +.8 -2.8 -1.0 9 -6.7	+5.8 +5.1 +4.4 +3.4 +.9 +2.5 +3.5

Public Employment

During the month ending on December 15, 1937, 105,000 workers were employed on P. W. A. construction projects. Compared with the period ending in mid-November this represented a decrease of 16,000, or 13.5 percent. Employment reductions on this work, as on other construction programs, was in part seasonal. Federal and non-Federal N. I. R. A. projects employed more than 34,000 workers; and projects financed from E. R. A. A. 1935, 1936, and 1937 funds, Pay-roll disbursements on all P. W. A. projects totaled 70,000. \$8,990,000.

Construction projects financed from regular Federal appropriations employed 181,000 workers. This was a decrease of over 30,000 com-

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¹ Revised indexes. Adjusted to 1933 Census of Manufactures.
2 Preliminary. Source: Interstate Commerce Commission.
3 Not available.
4 Cash payments only; the additional value of board, room, and tips cannot be computed.
5 Less than 1/10 of 1 percent.

pared with the period ending in mid-November. The decreases reported on nonresidential building construction, forestry, public roads, dredging, dikes, and revetments, naval vessels, and miscellaneous projects offset increases in employment on electrification projects, locks and dams, ship construction and repair other than naval vessels, and streets and roads. Employment on residential building construction projects, underpasses, and water and sewerage construction projects remained virtually the same. Pay-roll disbursements amounted to \$17,162,000, a reduction of \$3,142,000, from the preceding month.

Employment on construction projects financed by the Reconstruction Finance Corporation totaled 4,000 for the period from mid-November to mid-December. Decreases were shown in the number of workers employed on building construction and water and sewerage projects, while an increase occurred on miscellaneous projects. Payroll disbursements amounting to \$550,000 were \$52,000 less than during the month ending in mid-November.

With the expansion of The Works Program to meet increasing unemployment, the number of workers engaged on projects of The Works Program was 2,280,000 in December, a net increase of more than 118,000 since November. Of the total number working on this program 186,000 were employed on Federal projects under The Works Program, 1,668,000 on projects operated by the Works Progress Administration, and 426,000 on work projects of the National Youth Administration and on Student Aid. Pay rolls for the program as a whole totaled \$98,980,000 and were \$1,199,000 greater than in November.

Increases in employment in the regular services of the Federal Government were reported in the executive, judicial, and military services, while employment in the legislative service decreased. Of the 889,000 employees in the executive service in December, 114,000 were working in the District of Columbia and 775,000 outside the District. Approximately 85.2 percent of the total number of employees in the executive service were paid from regular appropriations and 7.1 percent from emergency funds. Day labor hired by the Federal Government for construction work (force-account) was 7.7 percent of the total employment in the executive service. Among the departments reporting pronounced increases in employment were the Post Office Department, the Department of Commerce, and the Department of the Interior. Decreases occurred in the Department of Agriculture and the Department of Labor.

Workers employed in the Civilian Conservation Corps numbered 338,000, a decrease of more than 12,000 compared with November. Decreases in employment were registered for all groups of workers

with the exception of nurses. Of the total number in camps during the current month 292,000 were enrolled workers, 5,000 reserve officers, 300 nurses, 2,000 educational advisers, and 39,000 other supervisory and technical workers. Pay rolls for all groups of workers exceeded \$16,070,000.

For the month ending December 15, 170,000 workers were employed on road projects financed wholly from State funds, more than 22,000. less than during the preceding period. Of the total, 24,000, or 14 percent, were working on new construction and 146,000, or 86 percent, on maintenance and repairs. Pay-roll disbursements for both types of work amounted to \$10,377,000.

A summary of Federal employment and pay-roll statistics for November and December is given in table 2.

Table 2.—Summary of Federal Employment and Pay Rolls, December 1937 1

[Preliminary figures] Employment Pay rolls Per-Percentcent-Class age age Decem-Novemchange December November change ber ber Federal services: 3 821, 271 1, 999 5, 345 +8. 3 +. 5 -2. 9 \$137, 217, 360 514, 920 1, 209, 723 3 \$124, 664, 980 547, 685 1, 219, 978 +10.1 Executive 2 ... 889, 550 Judicial ... 2,008 5,188 -6.0 Legislative..... Military.... 1, 209, 723 326, 667 +1.0323, 403 25, 856, 294 24, 659, 262 +4.9 Construction projects:
Financed by P. W. A.4
Financed by R. F. C.5 8, 989, 667 10, 959, 110 602, 221 104, 718 121, 102 -13.5 -18.04,028 4, 421 -8.9550, 135 -8.7Financed by regular Federal appropriations

Federal projects under The Works

Program 180, 594 211,004 -14.417, 162, 379 20, 303, 903 -15.5 186, 133 1, 668, 085 184, 654 1, 566, 697 10, 173, 186 84, 570, 148 10, 857, 382 82, 714, 339 +.8 +6.5 Program.
Projects operated by W. P. A.
National Youth Administration:
Work projects. 137, 929 288, 131 338, 217 \$ 126, 852 \$ 283, 269 350, 714 2, 397, 423 1, 839, 242 16, 070, 030 ⁸ 2, 232, 473 ⁸ 1, 976, 864 16, 335, 123 +8.7 +1.7 -3.6 +7.4 -7.0 -1.6 Student Aid. Civilian Conservation Corps.....

The value of material orders placed on projects financed wholly or partially from Federal funds during the fourth quarter of 1937 amounted to \$250,064,000. It is estimated that approximately 562,000 man-months of labor were created in the final fabrication of these In the corresponding quarter of 1936 the value of material orders placed amounted to \$294,533,000 and 833,000 man-months of labor were created in final fabrication, and in the third quarter of

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 109,488 employees and pay-roll disbursements of \$13,385,359 for December and 112,827 employees and pay-roll disbursements of \$13,706,612 for November.

⁸ Revised.

A Data covering P. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds are included. These data are not shown under The Works Program. Includes 70,228 wage earners and \$5,685,040 pay roll for December; 80,541 wage earners and \$6,814,004 pay roll for November covering P. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds.

⁵ Includes 116 employees and \$9,760 pay-roll disbursements for December and 167 employees and \$11,824 pay-roll disbursements for November on projects financed by the RFC Mortgage Co.

1937 material orders valued at \$283,000,000 were placed and 662,000 man-months of labor were created in final fabrication.

The value of material orders placed on the various programs financed by Federal funds during the fourth quarter of 1937, the third quarter of 1937, and the fourth quarter of 1936, and the man-months of employment created in the final fabrication of the materials used are shown in table 3.

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

[Subject to revision]

_	Value of	material orde	ers placed		ed in fi	of labor nal fab-
Program	Fourth quarter of 1937	Third quarter of 1937	Fourth quarter of 1936	Fourth quarter of 1937	Third quarter of 1937	Fourth quarter of 1936
Total	\$250, 063, 579	\$282, 999, 979	\$294, 532, 906	562, 331	662, 378	832, 917
Public Works Administration 1. Reconstruction Finance Corporation 2. Regular Federal appropriations 8. Federal projects under The Works Pro-	50, 240, 810 4, 591, 658 72, 156, 428	3, 089, 971	6, 832, 882		209, 868 7, 601 215, 997	317, 108 14, 144 137, 897
gram: Construction	16, 103, 046 156, 523 61, 096, 814	161, 265	347, 609		51, 726 507 174, 480	85, 764 1, 146 275, 619
by Works Progress Administration National Youth Administration Work projects Rentals and services on work projects	44, 151, 434 883, 739 683, 127	722, 146	` '	(4) 3, 010 (4)	(4) 2, 199 (4)	(4) 1, 239 (4)

¹ Data covering P. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds are included. These data are not shown under The Works Program.

² Includes RFC Mortgage Co. Does not include projects for which contracts were awarded before March

15, 1934.

³ Does not include projects for which contracts were awarded before July 1, 1934.

⁴ Data not available.

MANAMAN

DETAILED REPORTS FOR DECEMBER 1937

Industrial and Business Employment

MONTHLY reports on employment and pay rolls are available for the following groups: 89 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, and in virtually all industries the samples are large enough to be entirely representative. 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, average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in December 1937 are shown in table 4. Percentage changes from November 1937 and December 1936 are also given.

Indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings for October, November, and December 1937, are presented in table 5. The October and November figures may differ in some instances from those previously published because of revisions necessitated by the inclusion of late reports and other causes.

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. As all reporting establishments do not supply man-hour data, average hours worked per week and average hourly earnings are necessarily based on data supplied by a smaller number of reporting firms. The size and composition of the reporting sample varies slightly from month to month and therefore the average hours per week, average hourly earnings, and average weekly earnings shown in the two following tables are not strictly comparable from month to month. The sample, however, is believed to sufficiently adequate in virtually all instances to indicate the general movements of earnings and hours over the period shown.

TABLE 4.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1937

MANUFACTURING

[Indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures. Not comparable to indexes published in pamphlets prior to October 1936. Comparable series available on request]

	E	mployme	ent		Pay rolls			earnings			ge hours oer week			erage hou earnings	
Industry	Index		ntage from	Index De-		entage from—	De-	Perce change	ntage from—	De-	Perce change	entage from—	De-		entage from—
	De- cember 1937	No- vember 1937	De- cember 1936	cember 1937	No- vember 1937	De- cember 1936	cember 1937	No- vember 1937	De- cember 1936	cember 1937	No- vember 1937	De- cember 1936	cember 1937	No- vember 1937	De- cember 1936
All manufacturing industries	88. 6	6.4	9. 7	80. 9	-9.6	-15.0	\$22. 93	-3.4	5. 9	34. 4	-3.1	-16.5	66. 6	-0.1	+12. 2
Durable goods	84. 3 93. 3	-8.8 -4.1	-9.1 -10.3	77. 0 85. 8	-14.3 -3.6	-17.6 -12.0	24. 95 20. 66	-6.2 +.5	-9.4 -1.9	34. 4 34. 3	-5. 6 2	-19.8 -12.8	72. 9 60. 0	3 +.8	+13.3 +10.6
Durable goods						a	====								
Iron and steel and their products, not including										l					
machinery	90.0 99.6	-8.3 -8.3	10.4 8.9	71. 9 75. 5	16. 1 18. 7	-30.3 -34.5	22. 49 22. 47	-8.6 -11.3	-22.3 -28.1	30.1 27.3	-7.6 -11.1	-31.0 -37.1	76. 1 82. 8	1 -(3)	+13.9 +13.7
Bolts, nuts, washers, and rivets	73. 5	-8.7	-12.3	66.1	-16.0	-32. 8	20. 39	-8.0	-23.4	29.7	-8.0	-33. 2	68. 9	+.2	+14.5
Cast-iron pipe Cutlery (not including silver and plated cut-	60. 2	+4.0	-10.0	44.3	+4.1	-15.7	19.65	+.2	-6.3	33.7	+.3	-17.9	58. 1	1	+13.8
Cutlery (not including silver and plated cut-	83 9	-5.0	-3.7	74.6	-7.3	-12.6	22, 32	-2.4	-9.3	37. 5	-3.4	-18.7	61. 2	+2.0	+12.8
lery) and edge tools. Forgings, iron and steel	60.6	-6.3	-11.2	49.0	-12.2	-27.5	24.60	-6.3	-18.3	33.7	-5.5	-25.7	73.3	8	+10.5
Hardware	84.0	-8.3	-12.2	80.6	-19.3	30.6	21.63	-12.0	-20.9	32. 2	-9.3	-30.3	67. 2	-3.2	+12.3
Plumbers' supplies	79.8	-11.0	8.7	55. 3	-12.9	20.6	21.96	-2.2	-13.1	32. 3	-3.9	-25.4	67. 9	+1.8	+16.8
steam fittings	61.8	-6.7	-15.5	49.1	-7.5	-27.1	22, 90	9	-13.7	32.8	6	-26.3	69. 6	3	+16.4
Stoves	77. 2	-15.2	-28.4	56. 0	-13.8	-41.7	21, 26	+1.7	-18.6	33. 3	+2.1	-23.8	65. 4	+.9	+8.1
Structural and ornamental metalwork	69. 5	-7.3	-1.0	68. 2	8. 5	+3.8	27. 59	-1.3	+4.8	38.4	-1.8	-8.9	72.0	+.6	+15 3
Tin cans and other tinware	91. 3	-5.8	-3.4	94. 4	-5.4	+1.0	23. 10	+.4	+4.5	37.6	+.2	-6.4	62. 2	+.6	+12.6
files, and saws)	87. 6	-4.5	9.0	82. 4	-8.7	-21.1	21.96	-4.4	-13.4	35. 2	-4.3	-24.2	62, 2	4	+14.2
Wirework.	161. 2	-10.2	-14.1	136. 1	-16.2	-25.4	21, 47	-6.7	-13. 2	31.5	-6.4	-27.3	68. 2	3	+19.2
Machinery, not including transportation equip- ment	113. 1	-6.8	9	110.6	-8.7	2.6	27. 25	-2.0	-1.8	36. 9	-2.7	-15.3	73. 1	+.6	+15.4
Agricultural implements	139. 6	-2.4	+35.6	173. 5	-6.0	+42.8	27. 67	-3.6	+5.2	37.3	-4. i	-8.5	74.4	+.5	+16.0
Agricultural implements Cash registers, adding machines, and calculating mechines	100.0					,			· i					1 '	
lating machines Electrical machinery, apparatus, and supplies	129.0 104.7	-3.4 -7.4	$+6.9 \\ -1.1$	137. 9 102. 9	-2.3 -9.9	+12.2 1	33. 05 27. 01	+1.1 -2.7	+4.9 +1.1	39. 6 36. 1	1 -2.9	-7.3 -14.4	84.1 74.8	+1.2 +.2	+13. 2 +16. 7

Engines turbines, tractors, and water wheels Foundry and machine-shop products Machine tools Radios and phonographs Tevtile machinery and parts Typewriters and parts Typewriters and parts Transportation equipment Aircraft Automobiles. Cars, electric and steam-railroad Locomotives. Shipbuilding. Railroad repair shops. Electric railroad. Steam railroad Nonferrous metals and their products Aluminum manufactures Brass, bronze, and copper products. Clocks and watches and time-recording devices. Jewelry. Lighting equipment. Silverware and plated ware Smelting and refining—copper, lead, and zinc Stamped and enameled ware Lumber and allied products Furniture Lumber: Millwork Sawmills Stone, clay, and glass products Brick, tile, and terra cotta Cement Cement Glass Marble, granite, slate, and other products	98. 1 148. 1 124. 0 73. 7 127. 0 105. 5 781. 0 155. 5 104. 8 152. 7 63. 5 197. 0 115. 3 89. 9 114. 1 97. 0 115. 3 87. 1 76. 1 76. 1 76. 2 85. 3 122. 6 42. 8 63. 2 41. 1 60. 5	$\begin{array}{c} -4.5 \\ -6.4 \\ -20.2 \\ -15.2 \\ -$	+14.3 -1.3 -1.3 -38.6 -11.5 -13.6 -11.6 -18.6 -18.6 -18.6 -11.9 -11.4 -3.1 -14.2 -14.2 -14.2 -14.2 -15.2 -24.5 -15.7	143. 6 93. 0 149. 0 98. 7 63. 4 192. 4 700. 7 90. 8 653. 7 70. 1 55. 7 70. 1 86. 5 70. 1 86. 5 70. 2 114. 7 48. 3 33. 9 94. 5 30. 8 94. 5 95. 8 95. 8 95. 8 95. 8 95. 8 95. 8 95. 8 95. 8 95. 8 95. 8 96. 8	-7.3 -8.7 -19.7 -9.6 -23.0 -27.8 -19.9 +4.2 -12.0 +2.8 -19.3 -12.8 -13.2 -14.0 -23.6 -6.8 -1.0 -23.6 -6.8 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0	+22, 1 -7, 2 +10, 0 -19, 6 -22, 5 -23, 6 +13, 0 -33, 1 +8, 5 +70, 7 +39, 5 -15, 0 -16, 6 -18, 0 -3, 5 -28, 1 -10, 7 -5, 3 -30, 8 -7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	31. 32 26. 47 31. 03 20. 90 23. 53 22. 40 27. 40 28. 06 26. 44 27. 93 30. 48 31. 38 30. 38 31. 38 32. 49 24. 18 23. 73 21. 69 21. 18 27. 73 21. 69 27. 27 20. 38 17. 39 24. 34 25. 19. 27 27. 20. 38 27. 49 28. 27 29. 27 20. 38 21. 39 21. 39 21. 39 22. 40 23. 51 24. 38 25. 19. 27 27. 27 28. 27 28. 27 28. 28. 28. 28. 28. 28. 28. 28. 28. 28.	-3.0 -2.4 -1.5 -1.5 -1.1.6 -1.1.7 -1.1.6 -1.1.7 -1.1.8 -1.1.1 -1.1.8 -1.1.1	+6.8 -5.9 -3.6 -16.5 -11.5 +1.0 +1.0 +1.0 +1.0 +25.8 +1.9.6 +1.9.6 +1.9.6 -7.4 -1.3.8 -1.9.3 -1.9.3 -1.9.3 -7.6 -7.6 -1.0 -	37. 9 37. 0 42. 2 33. 2 35. 2 31. 3 35. 2 36. 5 36. 5 36. 5 36. 3 31. 7 35. 2 36. 3 36. 3 3 36. 3 36.	-3.3 -3.4 -1.5 -3.9 -1.5 -3.9 -1.6 -6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -	-6.9 -18.6 -11.5 -12.1 -21.2 -21.0 -22.5 -11.2 -28.3 -3.8 +3.1 +8.8 -7.0 -1.3 -7.5 -20.2 -18.5 -29.0 -18.2 -5.6 -21.6 -20.5 -19.6 -21.5 -19.6 -13.2 -15.3 -20.1 -15.3 -20.1 -15.3	82. 9 71. 3 73. 5 63. 0 66. 1 76. 1 70. 5 75. 7 80. 8 85. 0 75. 7 80. 8 85. 0 63. 7 76. 5 64. 5 64. 9 64. 9 64. 9 65. 7 75. 2 86. 5 67. 4 86. 5 67. 5 68. 5 67. 5 68. 5 67. 5 75. 7 75. 7 75. 7 86. 6 86. 7 86. 6 87. 5 87. 5	36499556550455691 652127763 688 02 ++++++++++++++++++++++++++++++++++++	+14.4 +15.2 +10.9 +10.8 +13.6 +13.6 +14.9 +14.9 +16.6 +13.9 +16.6 +13.9 +16.6 +13.9 +15.0 +15.0 +16.6 +13.5 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +17.3 +16.6 +19.3
Marble, granite, slate, and other products				30.8	11. 0	-7.3	23.64	-1.6	+. 2	35.1	-3.7	-8.4	67.5	+2.2	+9.2
Pottery	74.1	-3.6	-3.1	59.7	14. 7	-8.4	21. 19	-11.5	-5.5	34. 9	-7. 6	-16.9	63. 1	+.6	+15.0
Nondurable goods															
Textiles and their products. Fabrics. Carpets and rugs. Cotton goods. Cotton small wares. Dyeing and finishing textiles. Hats, fur-felt Knit goods. Silk and rayon goods Woolen and worsted goods. Wearing apparel Clothing, men's. Clothing, women's.	88. 2 84. 0 78. 3 89. 0 84. 9 105. 3 83. 5 103. 3 63. 2 61. 1 95. 6 84. 0 131. 0	-4.1 -3.7 -8.6 -2.4 -7.0 -3.2 +.6 -7.7 -6.5 +2.1 -5.3 -7.3 -2.9	-17.1 -17.4 -20.0 -12.3 -19.8 -14.3 -2.4 -15.2 -22.3 -33.3 -16.7 -22.0 -14.9	88. 7 68. 9 54. 4 74. 1 74. 9 86. 9 95. 1 48. 1 49. 6 65. 2 55. 5	-3.9 -3.6 +9.5 -3.5 -5.2 -2.8 +6.3 -15.3 -5.3 +15.9 -9.2 +2.2	-27. 4 -28. 8 -43. 6 -24. 5 -29. 7 -21. 3 -24. 6 -29. 7 -41. 2 -24. 4 -34. 6 -17. 0	15. 42 15. 36 16. 50 13. 13 16. 47 19. 81 21. 13 16. 00 14. 75 18. 69 15. 60 17. 85	+.3 -1.1 +1.9 +.4 +5.7 -8.2 +1.2 +13.6 +.4 -2.1 +5.2	-12.4 -13.9 -29.6 -14.1 -12.5 -13.4 -19.3 -11.1 -9.6 -11.8 -9.3 -16.3 -2.5	30. 3 31. 4 25. 6 30. 9 33. 5 34. 0 30. 8 31. 7 32. 0 31. 7 28. 2 25. 2	-1.0 -2.2 +20.8 -1.9 +1.2 7 +9.5 -6.0 +.7 +14.3 -2.7 -3.7 +.5	-19.7 -21.0 -39.3 -21.8 -19.2 -20.0 -22.3 -18.6 -16.8 -20.8 -16.9 -26.0 -9.3	51. 1 49. 0 64. 4 42. 3 50. 0 58. 0 70. 6 51. 3 46. 0 59. 2 55. 3 62. 4 56. 8	+.7 4 8 +.4 3 +1.1 -1.5 -2.1 3 +2.8 +1.2 +5.7	+8.6 +9.2 +14.7 +10.0 +9.1 +8.7 +5.5 +9.1 +9.6 +11.5 +7.6 +12.1 +6.8

See footnotes at end of table.

Table 4.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1937—Continued

MANUFACTURING—Continued

	E	nployme	nt		Pay rolls	· · · · · · · · · · · · · · · · · · ·		erage wee	kly		e hours per week		Av	erage hou earnings	
Industry	Index De-	Perce change	entage from—	Index De-	Perce change	ntage from—	De-	Perce change		De-	Perce change	ntage from—	De-	change	entage from—
	cember 1937	No- vember 1937	De- cember 1936	cember	No- vember 1937	De- cember 1936	cember 1937	No- vember 1937	De- cember 1936	cember 1937	No- vember 1937	De- cember 1936	cember 1937	No- vember 1937	De- cembe 1936
Nondurable goods—Continued															
Textiles and their products—Continued. Wearing apparel—Continued. 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. Cigars and cigarettes. Paper and printing. Boses, paper.	87. 6 118. 8 44. 1 106. 3 81. 8 83. 8 131. 6 107. 3 131. 6 89. 1 75. 1 63. 7 90. 9 146. 1 75. 0 60. 8 56. 2 104. 1 96. 9	6 -8 9 +. 8 -7.3 +1.9 +3.7 -5.2 -2.7 -3.6 -2.6 -2.9 -5.1 -1.3 -2.2 +.4 -42.0 +3.3 +3.8 -3.8 -3.8 -2.2 -3.3 -3.8 -2.2 -3.3 -3.8 -3.8 -3.8 -3.8 -3.8 -3.8 -3.8	-1.9 -15.5 -1.7 -13.0 -10.9 -1.0.1 -20.1 -3.5 -20.1 -3.5 -20.1 -3.5 -20.1 -3.8 +4.1 -8.6 -15.3 +8.8 -4.5 -1.8 -3.9 -4.5 -8.8	79. 7 89. 8 87. 4 87. 3 53. 2 78. 5 110. 4 127. 4 127. 4 104. 7 135. 8 72. 4 104. 7 135. 8 100. 8	-29 -13.5 +2.4 -14.9 +8.6 +15.6 -5.1 -2.3 -3.5 -2.2 -2.2 -3.5 -1.3 -49.2 -40.5 -3.7 -3.7 -6.5 -7.7 -7.7	-9.4 -22.0 -6.2 -22.1 -25.4 -25.5 -4.4 +6.3 +7.7 +4.6 +6.3 +9.6 +3.1 -10.6 +22.1 +4.9 -2.5 -2.6 -2.6 -3.1 -3.6 -3.1 -3.6 -3.1 -3.6 -3.1 -3.6 -3.1 -3.6 -3.1 -3.6 -3.1 -3.6	14. 85 13. 16 18. 00 12. 11 16. 61 15. 22. 23 24. 93 25. 22. 27 16. 22 29. 25 28. 89 21. 98 26. 87 16. 62 27. 68 28. 81 16. 62 27. 62 27. 62	-2.30 -5.53 +1.53 +6.64 +11.2 +1.4 +1.54 +1.93 -1.2,39 +1.2,14 +1.82 -1.56 +1.56 +1.53 -1.56 +1.53 -1.	-7.6 -7.5 -4.7 -14.3 -16.4 +7.6 +4.0 +4.5 +5.3 +5.6 +12.8 +12.8 +12.8 +12.8 +12.8 +12.8 +13.9 +12.8 +13.9 +13.9 +13.9 +14.0 +14.0 +14.0 +15.6 +15.6 +16.6 +1	32. 0 31. 5 30. 2 31. 1 35. 2 40. 5 41. 4 37. 9 	-3.3 -4.5 -8.9 +12.4 -2.4 -2.4 -2.5 +2.7 -18.5 +5.9 +6.7 -1.6 -6.7 -1.6.	-12. 1 -20. 7 -17. 6 -19. 9 -21. 0 -4. 0 -62. 8 -5. 1 -1. 1 -3. 8 -12. 6 +51. 7 -5. 4 -1. 3 -9. 4 -1. 3 -9. 4 -1. 5 -1. 7 -1. 5 -1. 7 -1. 5 -1. 7 -1. 6 -1. 7 -1.	46. 7 36. 6 41. 0 53. 6 51. 1 63. 8 61. 2 61. 3 49. 6 58. 9 61. 7 68. 0 55. 6 60. 8 45. 5 51. 1 44. 9 76. 5	+1.5 -1.3 -1.3 -2.1 +1.8 +1.8 -1.3 -2.1 +1.9 +1.9 -1.3 -1.4 -1.5 -1.4 -1.5 -1.1 +1.8	+6.9 +6.6 +9.5 +6.0 +5.1 +10.6 +7.1 +7.1 +7.1 +11.9 +9.6 +4.7 +17.5 +22.9 +10.3 +7.9 +10.4 +8.6 +12.4
Paper and pulp Printing and publishing: Book and job	98. 0	-3, 6 -, 3	-3.0 +.6	98. 8 95. 9	$ \begin{array}{c c} -6.2 \\ +3.0 \\ +2.2 \end{array} $	-9.0 $+2.9$	22. 47 30. 75 38. 45	-2.7 +3.3 +2.5	-6.3 $+2.2$	35, 6 39, 7 37, 7	-2.6 $+2.7$	-18. 0 -2. 2	63. 1 78. 3	+(2)	+14.4
Newspapers and periodicals. Chemicals and allied products, and petroleum refining. Other than petroleum refining. Chemicals.	106. 6 116. 3 115. 4 122. 6	3 -5.2 -5.7 -5.5	+.6 -2.5 -3.3 -5.0	108. 4 124. 4 120. 3 130. 4	+2. 2 -5. 8 -7. 2 -8. 0	+2.9 +5.2 +1.9 -1.6	27. 93 25. 06 29. 51	+2.5 6 -1.6 -2.6	+2. 2 +7. 9 +5. 4 +3. 6	38. 0 38. 5 37. 4	+1.8 -1.7 -2.5 -3.2	-2.8 -4.8 -6.0 -8.9	99, 1 74, 3 66, 2 78, 9	+1.3 +.7 +.6 +.6	+5.3 +13.6 +12.1 +14.0

Druggists' preparations Explosives Fertilizers Faints and varnishes Rayon and allied products Soap Petroleum refining Rubber products Rubber boots and shoes Rubber goods, other than boots, shoes, tires,	109. 9 110. 5 94. 7 81. 6 121. 1 336. 8 94. 6 120. 2 86. 0 68. 0	-9.2 -1.8 -5.7 +8.3 -9.9 -5.7 -3.0 -5.4 -5.4 -5.7 -5.2	+12. 1 +3. 7 +1. 6 +1. 5 -5. 0 -7. 1 -4. 2 +. 5 -15. 6 -17. 5	104. 8 124. 0 100. 3 82. 3 116. 1 313. 5 111. 2 137. 9 77. 1 54. 6	-7.3 -1.4 -5.9 +6.3 -6.9 -13.0 -4.9 -1.8 -6.0 -12.1 -8.9 -2.8	+27. 7 +10. 2 +2. 4 +15. 0 -4. 5 -2. 4 +6. 7 +15. 4 -26. 4 -28. 9 -20. 3 -28. 9	13. 48 24. 40 29. 48 16. 74 26. 40 22. 98 28. 58 34. 88 23. 90 20. 08 21. 15 26. 91	+2.1 +.4 -5.2 -1.9 -1.6 -3.4 +1.3 -0.6 -7.0 -3.3 +2.5	+14.0 +6.2 +.7 +13.2 +.6 +5.0 +11.5 +14.8 -12.7 -13.8 -9.2 -14.2	55. 0 39. 8 37. 8 38. 2 37. 8 35. 3 38. 7 36. 3 31. 1 33. 6	+1.3 +1.5 -5.2 -2.4 -4.5 -1.2 +1.0 -1.7 -6.7	+.9 9 -6.6 9 -9.4 -7.7 -3.4 5 -19.4 -19.6 -17.1 -21.4	24. 7 57. 7 78. 0 43. 9 69. 9 65. 1 74. 3 97. 1 78. 9 59. 8 61. 3 96. 7	+.8 -1.0 +.1 -1.0 +.8 +1.2 +2.1 +.3 +.1 4	+12.8 +6.1 +7.9 +15.3 +10.8 +14.1 +15.7 +15.7 +9.2 +8.3 +10.9 +9.3
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NONMANUFACTURING

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

Coal mining: Anthracite	50. 9	+0.6	-7. 2	47. 2	+4.6	-14, 8	27. 02	+3.9	-8.2	28. 9	+2.1	-16.7	92.0	+1.5	+9.5
Bituminous	80. 5	-2.0	-4.0	81.3	+4.4	-4.5	25. 49	十6.5	4	29. 1	+8.3	-12.7	86.6	-1.4	+10.2
Metalliferous mining. Quarrying and nonmetallic mining.	70.4	-6.6	+9.4	65. 1	-9.0	+12.9	29. 43	-2.5	+3.2	43. 1	 2	-2.9	68. 6	-2.2	+6.3
Quarrying and nonmetable mining	43. 9 76. 5	-12.0 9	-11. 2	33. 4 69. 8	-20. 1	-15.3	19. 32 34. 11	-9.2 +.3	-4.7 + 7.8	34. 7 40. 1	-10.2	-15.4 3	55.8 83.8	+1.7	+12.0
Crude-petroleum producing Public utilities	10.0	9	+5.6	09.8	7	+13.9	34. 11	7.0	+1.0	40.1	+.9	8	80.8	ō	+7.6
Telephone and telegraph Electric light and power and manufactured	78.0	-1.1	+5.9	94. 7	+3.6	+14.9	31, 44	+4.7	+8.5	3 9. 2	+3.8	+1.5	84. 1	+.9	+6.9
gas	96. 1	-1.2	+3.0	102. 4	-1.4	+9.1	34.38	2	+5.9	40. 2	4	-1.3	85. 7	1	+8.2
Electric-railroad and motorbus operation and	70.0			#1.0		10 =	00.00	ا م ا	ا م ما	45.50			00.7		150
maintenanceTrade:	72.8	5	+.4	71. 9	+.1	+3.7	32. 2 6	+.6	+3. 2	45. 7	3	-2.1	69. 7	+.8	+5.6
Wholesale	93. 3	3	+2.5	77.8	~.7	+6.9	30.00	4	+4.3	42.5	 5	-1.6	69. 9	2	+6.6
Retail	100.1	+9.2	+.5	80. 6	+7.0	+6.2	21. 55	-2.0	+5.6	43. 2	+1.2	-2.2	54.8	-3.3	+8.7
General merchandising	144. 7	+31.8	+. š	123. 5	+27. 2	+6.3	18. 59	-3.5	+5.3	40. 4	+6.4	-2.6	50.1	-7.9	+11. i
General merchandising Other than general merchandising	88.4	+1.8	+.4	71. 7	+1.3	+6.2	24. 57	5	+5.8	44. 4	+.4	-1.7	56.9	-1.1	+7.5
Hotels (year-round) ³	87.3	-1.8	+3.9	76.3	-2.0	+9.3	15. 25	2	+5.1	47. 4	-1.1	-4.1	32. 2	+.4	+7.8
Laundries	87.3	8	3	79. 2	+(2)	+4.0	17. 03	+.8	+4.4	42.0	+1.1	-2.6	40.5	4	+7.2
Dyeing and cleaning	77. 1	-4.2	7	58. 9	-6.9	+2.7	19.09	-2.8	+3.4	40. 2	-1.5	-3.3	49. 1	 2	十7.5
Brokerage	(4)	-1.6	-6.9	(4)	-2.6	-6.1	38. 36	-1.0	+.9	(+)	(4)	(4)	(4)	(4)	(4)
Insurance	(1)	+.2	+1.8	(2)	8	+4.3	38. 91	9	+2.5	(4)	(4)	(4)	(4)	(4) (1	(4)
Building construction	(1)	-17. 2	-13.9	(1)	-22.7	-10.9	28. 53	-6, 7	+3.5	30. 9	-6.4	-7.4	91.9	- (²)	+12.1
	<u> </u>			<u>' </u>		J		·				ll			

A verage 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 all reporting firms do not furnish man-hours. Percentage changes over year are computed from indexes. Percentage over honoth in average weekly earnings for the manufacturing groups, for all manufacturing industries combined, and for retail trade are also computed from indexes.

Less than 10 of 1 percent.
 Cash payments only; the additional value of board, room, and tips cannot be computed.
 Not available.

Table 5.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December, November, and October, 1937

MANUFACTURING

[Indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures. Not comparable to indexes published in pamphlets prior to October 1956. Comparable series available on request]

	Emp	loyment i	index	Pa	y-roll ind	lex		erage wee earnings			ge hours v oer week			erage hou earnings	
Industry	December 1937	Novem- ber 1937	Octo- ber 1937	Decem- ber 1937	November 1937	Octo- ber 1937	Decem- ber 1937	Novem- ber 1937	Octo- ber 1937	December 1937	Novem- ber 1937	Octo- ber 1937	Decem- ber 1937	Novem- ber 1937	Octo- ber 1937
All manufacturing industries	88. 6	94. 7	100. 5	80. 9	89. 5	100. 1	\$22. 93	\$23. 92	\$25. 39	34. 4	35. 4	37. 6	Cents 66. 6	Cents 66. 7	Cents 66. 6
Durable goodsNondurable goods	84. 3 93. 3	92. 4 97. 3	97. 6 103. 6	77. 0 85. 8	89. 9 89. 0	101. 7 98. 2	24. 95 20. 68	26. 80 20. 54	28. 83 21. 37	34. 4 34. 3	36. 4 34. 4	39. 1 35. 9	72. 9 60. 0	73. 3 59. 6	73. 0 59. 6
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 cutlery) and edge tools. Forgings, iron and steel. Hardware. Plumbers' supplies. Steam and lot-water heating apparatus and steam fittings. Stoves.	73. 5 60. 2 83. 9 60. 6 84. 0 79. 8 61. 8	98. 1 108. 6 80. 5 57. 9 88. 3 64. 7 91. 5 89. 6 66. 3 91. 1	105. 8 117. 5 84. 8 62. 1 89. 8 71. 6 94. 4 93. 6 73. 5 108. 3	71. 9 75. 5 66. 1 44. 3 74. 6 49. 0 80. 6 55. 3	85. 7 92. 9 78. 7 42. 6 80. 5 55. 8 99. 9 63. 5	106. 8 118. 9 96. 9 46. 3 85. 9 67. 6 114. 5 76. 2 66. 6 94. 2	22. 49 22. 47 20. 39 19. 65 22. 32 24. 60 21. 63 21. 96 22. 90 21. 26	24. 64 25. 33 22. 34 19. 68 22. 94 26. 22 24. 55 22. 45 23. 18 21, 02	28. 50 29. 96 25. 94 19. 98 24. 06 28. 86 27. 26 25. 83 26. 24 25. 59	30. 1 27. 3 29. 7 33. 7 37. 5 33. 7 32. 2 32. 3 32. 8 33. 3	32. 6 30. 7 32. 3 33. 5 38. 9 35. 6 35. 4 33. 6	37. 0 35. 7 38. 2 34. 4 40. 4 39. 5 39. 3 39. 0 37. 7 39. 3	76. 1 82. 8 68. 9 58. 1 61. 2 73. 3 67. 2 67. 9	76. 3 82. 8 69. 2 58. 5 60. 2 74. 1 69. 4 66. 8	76. 8 83. 7 68. 0 57. 7 60. 6 73. 3 69. 3 66. 4 69. 4
Structural and ornamental metalwork Tin cans and other tinware Tools (not including edge tools, machine tools,		75. 0 96. 8	79. 1 100. 8	68. 2 94. 4	74. 5 99. 8	81. 6 107. 5	27. 59 23. 10	27. 99 23. 07	29, 04 23, 85	38. 4 37. 6	39. 3 37. 5	40. 9 38. 6	72. 0 62. 2	71. 4 61. 9	71, 2 62, 0
files, and saws)	87. 6 161. 2	91. 7 179. 5	97. 0 187. 2	82. 4 136. 1	90. 3 162. 3	100. 7 202. 3	21. 96 21. 47	22. 95 23. 00	24, 20 26, 79	35, 2 31, 5	36. 7 33. 5	39. 0 37. 9	62, 2 68, 2	62. 2 68. 7	61. 9 70. 8
ment. Agricultural implements. Cash registers, adding machines, and calcu-	113. 1 139. 6	121. 4 143. 0	128. 9 150. 5	110. 6 173, 5	121. 2 184. 5	134. 2 203. 5	27. 25 27. 67	27. 79 28. 74	28. 86 30. 14	36. 9 37. 3	37. 9 38. 9	39. 9 40. 6	73. 1 74. 4	72. 6 74. 1	72. 0 74. 5
latting machines. Electrical machines, traiting machines, Electrical machines, tractors, and water wheels. Foundry and machine-shop products	98.1	133. 6 113. 1 147. 8 104. 8 153. 9	136. 3 119. 3 152. 5 110. 4 157. 7	137. 9 102. 9 143. 6 93. 0 149. 0	141. 2 114. 3 155. 0 101. 8 157. 9	148. 4 124. 8 159. 4 113. 5 170. 3	33. 05 27. 01 31. 32 26. 47 31. 03	32. 61 27. 74 32. 38 27. 12 31. 63	33, 61 28, 65 32, 36 28, 69 33, 31	39. 6 36. 1 37. 9 37. 0 42. 2	39. 7 37. 2 39. 3 38. 3 42. 9	41. 1 39. 0 39. 4 40. 6 45. 1	84. 1 74. 8 82. 9 71. 3 73. 5	82. 7 74. 6 82. 8 70. 8 73. 8	82, 5 73, 6 82, 5 70, 6 73, 9

Radios and phonographs Textile machinery and parts. Typewriters and parts Transportation equipment Aircraft. Automobiles Cars, electric- and steam-railroad. Locomotives. Shipbuilding Railroad repair shops Electric railroad. Steam railroad Nonferrous metals and their products. Aluminum manufactures.	124. 0 73. 7 127. 0 105. 5 781. 0 112. 9 55. 8 59. 5 104. 8 52. 7 63. 5 51. 9 98. 9	156. 7 77. 7 138. 4 121. 8 795. 0 133. 2 65. 8 61. 65. 9 57. 4 63. 1 57. 0 108. 4 123. 5	200. 5 82. 8 147. 9 122. 7 784. 0 133. 9 67. 9 64. 1 106. 8 59. 0 63. 3 58. 7 112. 7	98. 7 63. 4 106. 6 92. 4 700. 7 90. 8 65. 0 53. 7 126. 5 55. 7 70. 1 54. 7 86. 5	123. 0 70. 2 106. 0 120. 0 725. 3 125. 8 81. 1 51. 4 121. 4 63. 3 68. 2 63. 0 99. 9 127. 8	165. 5 80. 9 128. 4 129. 9 723. 0 138. 3 82. 5 56. 0 124. 4 64. 9 68. 0 64. 9 109. 9 115. 9	20. 90 23. 53 22. 40 27. 40 28. 06 26. 44 27. 93 35. 15 32. 69 30. 48 31. 38 30. 33 23. 49 24. 18	20. 74 24. 50 20. 43 31. 03 27. 89 31. 23 29. 61 32. 47 31. 02 31. 61 30. 63 31. 78 24. 63 25. 82	21. 67 26. 26 23. 17 33. 37 28. 17 34. 07 29. 13 34. 08 31. 54 31. 58 30. 46 31. 76 26. 18 27. 63	33. 2 35. 7 35. 2 31. 2 39. 8 29. 2 36. 9 43. 5 37. 9 41. 5 44. 8 41. 2 35. 3	33. 2 37. 0 32. 5 35. 1 39. 7 34. 3 38. 5 41. 4 36. 9 43. 0 43. 0 37. 3 38. 5	35. 6 39. 3 37. 0 37. 7 40. 6 37. 3 38. 9 44. 0 37. 3 43. 2 43. 7 43. 2 39. 7	63. 0 66. 1 63. 7 88. 1 70. 4 90. 5 75. 7 80. 8 85. 0 73. 3 68. 6 73. 7 66. 5	62. 5 66. 6 62. 7 88. 9 70. 2 91. 3 76. 9 78. 5 83. 8 73. 6 68. 5 74. 1 65. 9 67. 2	61. 1 67. 2 62. 6 88. 6 69. 5 91. 4 74. 8 77. 4 83. 0 73. 8 65. 0 73. 8 65. 4
Brass, bronze, and copper products	97.0	105. 5	113. 1	80. 3	92. 1	106. 7	23. 36	24. 77	26. 76	31. 9	33. 7	36. 7	73.0	73. 4	73. 0
Clocks and watches and time-recording devices. Jewelry Lighting equipment. Silverware and plated ware Smelting and refining—copper, lead, and zinc. Stamped and enameled ware. Lumber and allied products. Furniture. Lumber:	115. 3 89. 9 87. 1 76. 1 85. 3 122. 6 58. 1 74. 5	125. 0 100. 3 95. 6 79. 3 88. 0 144. 0 63. 5 79. 5	127. 5 106. 4 100. 1 80. 8 92. 1 154. 0 69. 5 86. 8	105. 3 70. 6 72. 1 67. 7 80. 2 114. 7 48. 4 60. 0	122. 3 78. 8 94. 4 72. 6 83. 8 141. 5 55. 1 65. 8	132. 7 89. 4 104. 3 80. 7 90. 9 156. 4 65. 3 76. 8	20. 72 23. 53 21. 31 24. 18 27. 73 21. 69 18. 62 19. 27	22. 22 24. 09 25. 07 24. 84 27. 90 22. 76 19. 48 19. 66	23. 62 25. 80 26. 18 27. 10 29. 10 23. 70 21. 23 21. 11	35. 4 38. 2 31. 7 37. 7 40. 2 35. 0 36. 3 36. 0	38. 6 40. 3 38. 3 38. 8 39. 9 37. 1 37. 2 37. 0	41. 1 43. 2 39. 9 42. 4 41. 7 39. 1 40. 3 40. 4	58. 5 61. 3 67. 5 64. 1 69. 0 61. 8 51. 3 53. 7	57. 6 58. 9 65. 4 64. 1 69. 8 61. 2 52. 8 53. 2	57. 5 59. 2 65. 7 64. 3 69. 8 60. 6 53. 3 52. 4
Millwork Sawmills Stone, clay, and glass products Brick, tile, and terra cotta Cement Glass Marble, granite, slate, and other products Pottery Nondurable goods	47. 6 42. 8 63. 2 41. 1 60. 5 100. 0 38. 0 74. 1	51. 2 47. 6 68. 2 45. 5 66. 1 106. 7 42. 1 76. 9	54. 3 52. 7 71. 4 50. 0 69. 2 109. 9 43. 4 78. 6	42. 8 33. 9 54. 5 30. 8 58. 0 95. 8 30. 8 59. 7	46. 3 40. 4 63. 6 36. 4 67. 3 111. 9 34. 6 70. 0	51. 7 49. 4 69. 6 44. 2 72. 2 119. 2 37. 8 72. 9	20. 38 17. 56 21. 86 17. 95 24. 34 23. 01 23. 64 21. 19	20. 58 18. 99 23. 71 19. 18 25. 73 25. 21 23. 88 24. 05	21. 90 21. 13 24. 74 21. 19 26. 34 26. 10 25. 37 24. 29	37. 0 36. 4 33. 8 33. 8 36. 1 32. 4 35. 1 34. 9	37. 7 37. 3 36. 5 35. 8 38. 2 35. 8 36. 2 37. 9	40. 2 40. 2 38. 7 39. 6 39. 1 37. 5 38. 7 39. 8	55. 2 48. 8 64. 9 53. 5 67. 4 71. 2 67. 5 63. 1	54. 7 52. 0 64. 4 53. 4 67. 4 70. 5 66. 3 63. 1	54. 5 53. 6 63. 9 53. 3 67. 3 70. 0 66. 2 62. 1
Textile and their products Fabrics Carpets and rugs Cotton goods. Cotton small wares Dyeing and finishing textiles Hats, fur-felt Knit goods. Silk and rayon goods Woolen and worsted goods. See footnotes at end of table	88. 2 84. 0 78. 3 89. 0 84. 9 105. 3 83. 5 103. 3 63. 2 61. 1	92. 0 87. 2 85. 7 91. 1 91. 2 108. 8 83. 0 111. 9 67. 6 59. 8	98. 8 91. 9 88. 7 93. 9 98. 4 112. 2 83. 0 116. 3 75. 4 68. 4	68. 7 68. 9 54. 4 74. 1 74. 9 86. 5 64. 9 95. 1 49. 6	71. 5 71. 5 49. 7 76. 8 79. 0 89. 0 61. 0 112. 3 50. 8 42. 8	84. 2 81. 0 64. 2 85. 1 96. 8 94. 6 62. 0 122. 8 62. 4 52. 8	15. 42 15. 36 16. 50 13. 13 16. 47 19. 81 21. 13 16. 00 14. 75 18. 69	15, 37 15, 24 13, 77 13, 25 16, 10 19, 87 19, 96 17, 40 14, 54 16, 43	16. 87 16. 45 17. 07 14. 30 18. 35 20. 49 20. 20 18. 33 16. 02 17. 73	30. 3 31. 4 25. 6 30. 9 33. 5 34. 0 30. 8 31. 7 32. 0 31. 7	30. 6 31. 5 21. 2 31. 5 33. 1 34. 4 28. 2 33. 7 31. 7 27. 7	32. 8 33. 6 26. 4 33. 7 37. 1 35. 3 26. 7 35. 6 34. 2 30. 3	51. 1 49. 0 64. 4 42. 3 50. 0 58. 0 70. 6 51. 3 46. 0 59. 2	50. 9 49. 2 64. 9 42. 1 50. 0 57. 6 71. 6 52. 4 46. 2 59. 4	52. 1 49. 4 64. 6 42. 4 50. 3 57. 5 72. 4 52. 3 46. 9 58. 6

See footnotes at end of table.

Table 5.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December, November, and October 1937—Continued

MANUFACTURING—Continued

	Emp	loyment	index	Pa	y-roll ind	lex	Av	erage wee earnings	kly		ge hours per week		Av	erage hou earnings	ırly
Industry	December 1937	November 1937	Octo- ber 1937	December 1937	November 1937	Octo- ber 1937	December],	Novem- ber 1937	Octo- ber 1937	December 1937	Novem- ber 1937	Octo- ber 1937	Decem- ber 1937	Novem- ber 1937	Octo- ber 1937
Nondurable goods—Continued Textile and their products—Continued. Wearing apparel. Clothing, men's	95. 6 84. 0	101. 0 90. 7	112. 1 103. 5	65. 2 55. 5	68. 6 61. 1	87. 0 80. 2	\$15.60 15.61	\$15. 74 15. 82	\$17, 99 18, 14 20, 29	28. 2 25. 2 29. 4	28. 9 26. 1 29. 2	31. 3 29. 5 31. 2	Cents 55. 3 62. 4 56. 8	Cents 54. 3 61. 1	Cents 57. 4 62, 1
Clothing, women's. Corsets and allied garments. Men's furnishings. Millinery. Shirts and collars. Leather and its manufactures.	131. 0 87. 6 118. 8 44. 1 106. 3 81. 8	134. 9 88. 1 130. 4 43. 8 114. 6 80. 3	150. 4 89. 7 135. 9 52. 0 120. 7 89. 5	86. 0 79. 7 89. 8 27. 4 87. 3 58. 4	84. 2 82. 1 103. 8 26. 7 102. 6 53. 8	110. 1 87. 3 111. 8 35. 5 112. 5 66. 3	17. 85 14. 85 13. 16 18. 00 12. 11 16. 61	17. 25 15. 52 14. 36 17. 40 13. 14 15. 48	20. 29 16. 17 14. 79 20. 30 13. 97 17. 14	30. 2 31. 1	33. 6 32. 8 33. 1 28. 6	31. 2 33. 3 35. 6 34. 7 31. 8	46. 7 36. 6 41. 0 53. 6	55. 5 46. 0 37. 3 40. 4 54. 5	61. 7 47. 8 37. 6 40. 8 54. 2
Boots and shoes Leather Food and kindred products Baking Beverages	83. 8 78. 6 107. 3 131. 6 187. 4	80. 8 82. 9 114. 6 135. 2 194. 3	90. 7 89. 6 125. 0 138. 4 202. 7	53. 2 78. 5 110. 4 127. 4 202. 0	46. 0 82. 7 115. 9 130. 3 212. 7	58. 7 95. 0 125. 0 137. 3 222. 4	15. 25 22. 23 24. 93 25. 22 31. 65	13. 72 22. 13 24. 46 25. 10 32. 22	15. 50 23. 60 23. 77 25. 84 32, 36	30. 1 35. 2 40. 5 41. 4 37. 9	26. 9 35. 2 40. 3 41. 4 38. 8	30. 4 37. 5 40. 9 43. 0 39. 2	51. 1 63. 8 61. 2 61. 3 84. 4	52. 3 62. 8 60. 2 61. 1 84. 2	51. 9 63. 3 58. 8 60. 6 83. 5
Butter	81. 6 89. 1 87. 2 75. 1 63. 7	83. 7 118. 7 91. 8 76. 0 65. 1	\$86.4 \$185.9 95.5 76.9 68.8	65. 8 86. 6 86. 8 74. 0 60. 4	67. 2 111. 4 89. 8 76. 7 61. 5	70. 3 187. 7 98. 4 80. 9 63. 9	22. 27 16. 22 18. 11 25. 52 29. 25	22, 42 15, 74 17, 63 26, 10 29, 16	22, 71 16, 24 18, 62 27, 30 28, 54	33. 6 39. 7 42. 7 46. 6	33. 8 38. 7 43. 7 46. 5	36. 3 41. 3 45. 6 46. 1	49. 6 45. 6 58. 9 61. 7	47.8 45.6 58.8 61.3	46.5 45.5 59.0 60.1
Slaughtering and meat packing Sugar, beet Sugar refining, cane Tobacco manufactures Chewing and smoking tobacco and snuff	90. 9 146. 1 75. 0 60. 8 56. 9	90. 5 252. I 70. 4 62. 9 56. 7	89. 4 253. 0 68. 8 62. 6 56. 2	104. 7 135. 8 72. 4 55. 7 67. 9	102. 3 267. 4 66. 8 57. 2 63. 8	100. 1 224. 3 64. 2 57. 9 68. 2	28. 89 21. 98 26. 87 16. 88 18. 11	28. 31 25. 09 26. 41 16. 72 17. 06	28, 01 20, 97 25, 97 17, 03 18, 20	42, 2 40, 4 43, 0 37 , 1 35, 8	41. 1 49. 6 40. 9 37. 4 33. 5	40. 8 41. 6 38. 5 37. 6 35. 8	68. 0 55. 6 60. 8 45. 5 51. 1	68. 1 50. 8 62. 8 44. 9 51. 1	68. 8 52. 4 66. 8 45. 1 51. 3
Cigars and cigarettes Paper and printing Boxes, paper Paper and pulp Printing and publishing:	61. 2 104. 1 96. 9 109. 4	63. 6 106. 4 103. 3 113. 6	63. 3 107. 9 104. 8 117. 3	54. 2 100. 8 92. 8 98. 8	56. 4 101. 5 102. 6 105. 4	56. 6 105. 1 108. 9 116. 7	16, 62 27, 62 19, 78 22, 47	16. 66 27. 48 20. 42 23. 26	16, 80 28, 26 21, 35 24, 90	37. 3 37. 6 37. 3 35. 6	37. 9 37 . 7 39. 0 36. 9	37, 9 38, 7 40, 8 39, 5	44. 9 76. 5 53. 4 63. 1	44. 2 75. 7 52. 8 63. 2	44. 4 75. 6 52. 7 63. 1
Book and job	98. 0 106. 6 116. 3 115. 4	98. 3 107. 0 122. 7 122. 4	98. 8 107. 5 126. 5 126. 7	95. 9 108. 4 124. 4 120. 3	93. 1 106. 1 132. 1 129. 6	92. 6 107. 3 137. 5 136. 1	30. 75 38. 45 27. 93 25. 06	29. 96 37. 42 28. 07 25. 59	29. 71 37. 59 28. 3 2 25. 99	39. 7 37. 7 38. 0 38. 5	38. 7 37. 1 38. 5 39. 5	38. 3 37. 1 39. 2 40. 3	78.3 99.1 74.3 66.2	78. 5 97. 1 73. 8 65. 8	78. 5 97. 4 78. 4 65. 4

Chemicals. Cottonseed—oil, cake, and meal. Druggists' preparations. Explosives Fertilizers. Paints and varnishes. Rayon and allied products. Soap. Petroleum refining Rubber products. Rubber poots and shoes. Rubber goods, other than boots, shoes, tires, and inner tubes. Rubber tires and inner tubes.	109. 9 110. 5 94. 7 81. 6 121. 1 336. 8 94. 6 120. 2 86. 0 68. 0	129. 8 121. 0 112. 5 95. 4 75. 3 128. 0 374. 0 100. 4 123. 9 90. 9 71. 9	135. 2 127. 1 114. 8 97. 3 80. 5 131. 6 387. 5 102. 8 125. 7 97. 7 77. 5	130. 4 104. 8 124. 0 100. 3 82. 3 116. 1 313. 5 111. 2 137. 9 77. 1 54. 6	141. 7 113. 0 125. 8 106. 6 77. 4 124. 8 360. 3 116. 9 140. 4 82. 0 62. 1	150. 6 118. 9 128. 9 110. 5 83. 2 134. 1 374. 9 121. 1 142. 3 94. 3 70. 4	29. 51 13. 48 24. 40 29. 48 16. 74 26. 40 22. 98 28. 58 34. 88 23. 90 20. 08 21. 15 26. 91	30. 25 13. 18 24. 33 31. 64 17. 02 26. 95 23. 79 28. 23 34. 42 24. 11 21. 70	30. 84 13. 14 24. 47 32. 18 17. 16 28. 17 23. 89 28. 55 34. 43 25. 83 22. 83 23. 61 28. 24	37. 4 55. 0 39. 8 37. 8 38. 2 37. 8 35. 3 36. 3 31. 1 33. 6	38. 7 53. 5 39. 2 39. 7 38. 6 38. 8 37. 0 39. 2 35. 8 31. 6 35. 9	39. 6 54. 1 39. 6 40. 5 38. 8 40. 5 37. 4 40. 0 35. 9 33. 8 37. 5	78. 9 24. 7 57. 7 78. 0 43. 9 69. 9 65. 1 74. 3 97. 1 78. 9 59. 8 61. 3 96. 7	78. 2 24. 8 58. 3 79. 8 44. 1 69. 6 64. 4 72. 4 97. 0 79. 0 60. 4 60. 9 97. 2	77. 9 24. 5 58. 4 79. 5 44. 2 69. 7 63. 8 71. 9 96. 9 79. 0 60. 9
Rubber tires and inner tubes	76.6	80.8	87.0	70.8	72.9	84.3	26. 91	26, 26	28. 24	28.0	27.2	29. 3	96. 7	97.2	96.6

NONMANUFACTURING

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

	,														
Coal mining:								!							
Anthracite	50.9	50, 5	51.0	47, 2	45, 1	51.0	27, 02	26.00	29. 14	28.9	28.3	31, 4	92.0	90.7	91. 2
Bituminous	80.5	82, 1	82.9	81.3	77.8	86.0	25, 49	24.00	26. 25	29.1	26. 9	29.6	86.6	87.8	88.7
Metalliferous miningQuarrying and nonmetallic mining	70.4	75.4	82.9	65. 1	71.6	81.7	29. 43	30.05	31. 26	43. 1	43. 1	44. 2	68. 6	69. 9	70. 8
Quarrying and nonmetallic mining	43.9	49.9	53.3	33. 4	41.7	49.3	19. 32	21. 48	23, 70	34. 7	38. 9	42.6	55.8	55, 0	55. 4
Crude-petroleum producing	76.5	77. 2	77. 5	69.8	70. 2	69.9	34, 11	34, 12	33.64	40.1	30.9	39.9	83.8	84.3	83. 3
Public utilities:	, ,,,	, <u>-</u>	1	00.0	.0.2	00.0	01,11	01.12	00.01	10.1	00.0	00.0	00.0	01.0	00.0
Telephone and telegraph	78.0	2 78.9	2 79.6	94.7	8 91. 4	2 94. 9	31, 44	\$ 30, 12	2 31, 01	39. 2	2 37. 8	2 39, 5	85. 1	2 84. 4	2 83. 2
Electric light and power and manufactured	10.0	- 10.0	10.0	04.1	- 91. 4	- 51. 5	01. 11	- 00. 12	- 51. 01	00.2	- 01.0	- 00.0	00.1	- 01, 1	- 00. 2
gas	96.1	97.3	98.5	102.4	103, 8	105.3	34, 38	34, 44	34, 23	40.2	40.4	40.4	85.7	85.8	85, 1
Electric-railroad and motorbus operation and	80.1	81.3	30.0	102.4	100.0	100.0	34. 30	04, 44	34. 20	40.2	10.1	10.1	00.7	00,0	00. 1
	72.8	73. 2	73.4	71.9	71.8	71.4	32. 26	32, 17	31, 93	45.7	45.9	45. 9	69.7	69.4	68.7
maintenanceTrade:	12.0	13. 2	10.4	11.9	11.0	11.4	32.20	32.11	31.93	40.7	40.9	40.9	09.7	09.4	00. 1
Trade:	00.0	02.5	م ره ا	77.0	mc n	70.0	20.00	20.07	20.45	49.5	40.7	49.0	en n	70.6	70 C
Wholesale	93.3	93. 5	94.0	77.8	78. 3	79.3	30.00	30, 27	30. 45	42. 5	42.7	42.9	69.9	70.6	70.6
Retail	100.1	91.7	92.1	80.6	75. 3	75.9	21.55	21.65	21.96	43, 2	42.7	43.0	54.8	55.9	56, 5
General merchandising		109.8	108.1	123. 5	97. 1	96. 2	18. 59	18. 37	18, 55	40.4	39. 2	39. 4	50.1	51. 2	51. 5
Other than general merchandising		86.9	87.9	71.7	70.8	71.7	24. 57	24.55	24.80	44.4	43.9	44.2	56.9	57.5	58.1
Hotels (year-round) 3	87. 3	88.9	89.2	76.3	77. 9	77. 7	15. 25	15. 25	15, 11	47.4	47. 2	47. 1	32. 2	32. 2	31. 7
Laundries	87.3	88.0	89.9	79. 2	79. 2	81.5	17.03	16.90	16.96	42.0	41.6	42. 1	40.5	40.7	40.3
Dyeing and cleaning		80.5	85.9	58.9	63. 3	71.8	19.09	19. 53	20.89	40. 2	40.8	42. 5	49. 1	49.1	50. 5
Brokerage 4	-1.6	+.8	-2.9	-2.6	+1.1	-3.2	38. 36	38.60	38. 52	(6)	(5)	(4)	(5)	(5)	(5)
Insurance 4	+.2	1	1	8	+1.8	+.3	38. 91	39. 15	38. 45	(5)	(5)	(5)	(5)	(5)	(5)
Building construction 3	-17.2	-6.4	-3.3	-22, 7	-8.1	-3.0	28, 53	30. 52	31, 22	30.9	33. 1	34.3	91.9	91.6	90.8
	l	ļ	l	l		i	ł	Į.	[!	1		l		

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 small number of establishments as all reporting firms do not furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

² Revised.

³ Cash payments only; the additional value of board, room, and tips cannot be com-

^{*} Cash payments only, the scale puted.

Indexes of employment and pay rolls not available; percentage changes from preceding month substituted.

Not available.

INDEXES OF EMPLOYMENT AND PAY ROLLS

Indexes of employment and pay rolls are given in tables 6 and 7 for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for 13 nonmanufacturing industries, including 2 subgroups under retail trade, by months, from January 1936 to December 1937, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to December 1937.

The indexes of factory employment and pay rolls are computed from returns supplied by representative establishments in 89 manufacturing industries and cover wage earners only. The base used in computing these indexes is the 3-year average, 1923-25, as 100. December 1937 reports were received from 25,041 manufacturing establishments employing 4,327,180 workers, whose weekly earnings were \$99,195,710. The employment reports received from these establishments 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 89 industries included in the monthly survey of the Bureau of Labor Statistics.

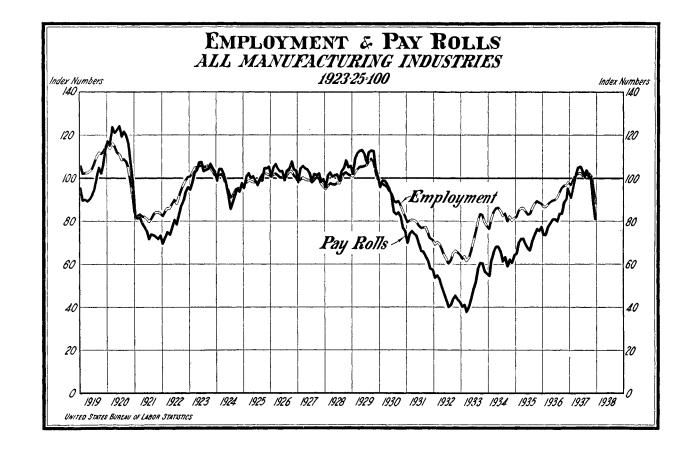
TABLE 6.-Indexes of Employment and Pay Rolls in All Manufacturing Industries Combined and in the Durable- and Nondurable-Goods Groups 1

						Manuf	acturin	g				
		То	tal]	Durabl	e goods	; 2	No	ndurabl	le good	s 8
Month		ploy- en t	Рау	rolls	Emi	oloy- ent	Pay	rolls	Emp	oloy- ent	Pay	rolls
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January February March April May June	89. 1 89. 8 90. 1	96, 5 99, 0 101, 1 102, 1 102, 3 101, 1	73. 8 73. 7 77. 6 79. 3 80. 8 81. 1	90. 7 95. 8 101. 1 104. 9 105. 2 102. 9	78. 7 78. 6 80. 2 82. 3 84. 0 84. 7	90. 4 93. 2 96. 4 98. 6 99. 9 98. 8	66. 9 66. 6 71. 8 76. 0 78. 5 79. 0	86. 6 92. 5 100. 0 106. 4 107. 5 104. 6	95. 4 95. 8 96. 1 96. 3 96. 0 95. 9	103. 0 105. 2 106. 1 105. 9 104. 8 103. 5	82. 5 82. 7 84. 9 83. 5 83. 8	96. 0 99. 9 102. 6 102. 9 102. 3 100. 8
July August September October November December Average	91. 2 93. 5 95. 5 96. 7 96. 9 98. 1	101. 4 102. 3 102. 1 100. 5 94. 7 88. 6	80. 2 83. 5 83. 6 89. 0 90. 7 95. 2	100. 4 103. 8 100. 1 100. 1 89. 5 80. 9	84. 6 84. 7 85. 7 89. 2 91. 0 92. 7	98. 9 98. 1 97. 3 97. 6 92. 4 84. 3	75. 9 77. 0 77. 2 85. 3 88. 9 93. 4 78. 0	100. 7 104. 0 99. 4 101. 7 89. 9 77. 0	98. 2 102. 8 105. 9 104. 7 103. 3 104. 0	104. 1 106. 9 107. 3 103. 6 97. 3 93. 3	85. 6 91. 8 91. 6 93. 7 92. 9 97. 5	100. 0 103. 5 100. 9 98. 2 89. 0 85. 8

¹ Comparable indexes for earlier years will be found in the February 1937 issue of this report, or in the April 1937 issue of the Monthly Labor Review.
² Includes the following groups of manufacturing industries: Iron and steel; machinery; transportation equipment; railroad repair shops; nonferrous metals; lumber and allied products; and stone, clay, and glass

products.

§ Includes the following groups of manufacturing industries: 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.



The indexes for nonmanufacturing industries are based on the 12-month average for 1929 as 100. Figures for mining, laundries, dyeing and cleaning, and building construction cover wage earners only, but the figures for public utilities, trade, hotels, brokerage, and insurance relate to all employees, including executives. For crudepetroleum producing they cover wage earners and clerical field force.

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 7.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1936 to December 1937 1

[12-month average 1929=100]

	An	thraci	te mi	ning	Bi	tumir mir		oal	Met	allifer	ous m	ining			g and e mini	
Month	Emp		Pay	rolls	Emp		Pay	rolls	Emp	oloy- ent	Pay	rolls	Emp me	oloy- ent	Pay	rolls
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January February March April May June	59. 1 61. 2 52. 5 49. 8 54. 9 51. 2	54, 1 52, 7 48, 9 54, 0 51, 0 51, 1	28.6 56.3	41.0 37.8 63.9 44.4	79.8 80.2 80.4 77.5 76.2 75.7	84. 6 84. 8 85. 9 72. 6 77. 8 77. 9	70. 6 78. 4 70. 2 62. 6 62. 2 61. 5	82. 4 88. 4 54. 4 67. 8	54. 2 55. 5 55. 9 57. 5 60. 8 61. 9	66. 8 69. 6 73. 1 76. 2 78. 5 79. 5	42.8 45.1 45.5 47.7	63. 4 70. 6 76. 9 79. 8	48.4	45.7 46.7 49.1 53.1 54.9 55.4	25, 5 23, 9 30, 9 36, 1 42, 1 44, 0	51.4
JulyAugustSeptember OctoberNovember December	48. 4 41. 1 47. 6 49. 9 51. 5 54. 8	45. 0 41. 2 48. 2 51. 0 50. 5 50. 9	31. 4 34. 9 48. 5 40. 3	51.0 45.1	75, 5 76, 9 78, 2 81, 1 82, 3 83, 9	75. 8 78. 8 80. 5 82. 9 82. 1 80. 5	62. 6 65. 4 71. 0 79. 2 80. 7 85. 0	77.7 86.0 77.8	62.9	83.4	48. 2 50. 0 53. 7 54. 6	82. 2 81. 7	54. 4 55. 3 54. 9 54. 6 52. 6 49. 4	55. 5 54. 9 54. 7 53. 3 49. 9 43. 9	43. 9 46. 2 44. 8 46. 2 43. 5 39. 4	50.1
Average	51.8	49.9	45.7	43. 2	79.0	80, 4	70.8	75, 6	60.3	76.8	48. 4	74.0	49. 5	51.4	38.9	45. 4
	Cr		etrole ucing	um	Tele	phon gra	and ph	tele-	po	tric wer, a tured	nd m		mo tio	tric-ra torbu n an		and opera- ainte-
Month	Emp		Pay	rolls	Emp		Рау	rolls	Emp	oloy- ent	Pay	rolls	Emp	oloy- ent	Pay	rolls
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January February March April May June	71. 1 70. 8 70. 9 71. 3 72. 7 73. 7	72. 7 73. 5 74. 2 75. 8 76. 7 78. 5	55. 7 56. 0 57. 1 58. 0	63.9 67.7 68.2	70. 1 69. 9 70. 2 70. 8 71. 6 72. 1	74. 4 74. 8 75. 4 76. 6 77. 7 78. 5	75. 0 76. 2 77. 2 76. 0 78. 5 77. 4	82. 2 87. 2 86. 3 89. 5	88.0 89.0	93.1	85.9 86.2 87.0	93.6 94.8 95.5	70. 7 71. 7 71. 2 71. 3 71. 5 71. 7	72. 5 72. 5 72. 6 72. 9 73. 3 73. 3	68.3	68.7
July	75. 4 75. 0 74. 5 73. 6 73. 2 72. 4	78. 2	59.7 60.4 59.6		73.8	³ 79. 8 ³ 79. 6 ³ 78. 9		92. 1 92. 3 394. 9 391. 4	91. 7 93. 1 93. 5 94. 0 93. 5 93. 2	98.6 98.5 97.3	89.8 91.4 92.7 91.8	102, 2 102, 6 104, 0 105, 3 103, 8 102, 4	72. 4 72. 4 72. 8 73. 1 73. 0 72. 5	73. 4 73. 4 73. 7 73. 4 73. 2 72. 8	69.7	
A verage	72, 9	76. 5	58.6	68, 2	72. 2	77.8	78. 9	89.6	90. 5	95. 6	88, 8	99. 6	72, 0	73. 1	67. 2	70. 6

¹ Comparable indexes for earlier years for all of these industries, except year-round hotels, will be found in the November 1934 and subsequent issues of this pamphlet, or the February 1935 and subsequent issues of the Monthly Labor Review. Comparable indexes for year-round hotels will be found in the June 1935 issue of this pamphlet, or the September 1935 issue of the Monthly Labor Review.
² Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 3.
³ Revised.

Table 7.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1936 to December 1937—Continued

	w	holes	ale tra	đe	То	tal rei	tail tra	ade	Ret eral	tail tra merc	ade—i handi	gen• sing		ail ti an ge andis	neral	other mer-
Month	Emp	oloy- ent	Pay	rolls		oloy- ent	Рау	rolls		ploy- ent	Pay	rolls		ploy- ent	Рау	rolls
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January February March April May June	85. 6 85. 0 85. 6 85. 7 84. 6 84. 6		66.6 69.0 67.9 68.2	74. 1 75. 0 75. 4 76. 1	79.7 81.9 85.2 85.0	85, 2 88, 5 88, 8 89, 9	63. 5 65. 3	67. 9 7 0. 5	85. 1 90. 9 97. 4 95. 5	95, 1 93, 9 100, 3 99, 6 102, 1 102, 9	73. 9 77. 3 81. 0 80. 8	82. 9 87. 6 89. 1 91. 5	78.3 79.5 82.0	82. 9 85. 4 86. 0 86. 7	59. 1 59. 1 60. 7 62. 1 62. 7 63. 3	64. 7 64. 8 67. 0 68. 3 69. 8 70. 6
July	85. 4 86. 3 88. 0 89. 0 89. 7 91. 0	94. 0 93. 5	69. 7 70. 5 71. 5 73. 1	79. 0 78. 3 79. 3 78. 3	82. 4 86. 6 88. 7 90. 1	92. 1		75.3	89. 4 98. 5 103. 9 109. 3	93. 8 103. 7 108. 1 109. 8	82.8 87.2 91.4	85.7 92.4 96.2	84.7 85.1	84. 2 87. 3 87. 9	62. 6 61. 9 63. 3 64. 4 65. 7 67. 6	69.8 69.5 70.7 71.7 70.8 71.7
Average	86. 7	92. 0	69. 4	76.6	85. 7	89.7	66.3	73. 1	99. 1	104, 2	83. 5	92. 5	82. 2	85. 9	62. 7	69. 1
					Yea	ır-rou	nd ho	tels		Laur	dries		Dye	ing an	d clea	ning
1	Montl	h			Emp	oloy- ent	Pay	rolls		ploy- ent	Pay	rolls		oloy- ent	Pay	rolls
					1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
February March April May	nuary bruary arch pril ay					85. 5 86. 4 86. 9 88. 4 87. 7 86. 9	64. 9 66. 5 66. 0 66. 3 67. 0 66. 6	72.5	81. 2 82. 1 83. 2	88. 6 88. 7 88. 5 90. 3	67.8 69.9 70.9	76.3 77.5 78.5 81.4		76. 8 76. 2 81. 1 84. 9 88. 6 92. 1	51. 6 49. 0 56. 4 64. 1 72. 2 69. 2	55. 6 54. 6 61. 7 68. 8 73. 9 79. 2
August September October November						86. 1 86. 8 88. 1 89. 2 88. 9 87. 3	67.5	77. 7 77. 9	87. 6 87. 0	94. 2 93. 7 89. 9 88. 0	76. 7 76. 6 75. 3 74. 5	86. 0 84. 4 81. 5 79. 2	83. 5 86. 7 86. 5	386. 3 385. 8 387. 7 385. 9 380. 5 77. 1	63. 2 66. 1 66. 7	3 68. 3 3 69. 8 3 73. 6 3 71. 8 3 63. 3 58. 9
Average					83.6	87.4	67. 2	74.5	86. 1	90. 5	73.9	81.1	81. 2	83.6	61.7	66.6
• Dondon d																

⁸ Revised.

In table 8 are presented general indexes of factory employment and pay rolls by yearly averages, 1923 to 1937, inclusive, and by months January to December 1937, inclusive. Indexes for the same periods, where available, are also presented for each of the 89 manufacturing industries surveyed, for the durable- and nondurable-goods groups, and for the 14 smaller groups and 2 subgroups into which they are classified.

The indexes have been adjusted to conform with the annual averages and totals shown in published reports of the Census of Manufactures through 1933, and are subject to further revision when adjustments are made to bring them into conformity with later census data.

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TABLE 8.—Employment and Pay-Roll Indexes, Manufacturing Industries

[3-year average, 1923-25=100]

			Dur	able-	Nond	urable-	Irot		eel and luding 1			not
Month and year	Genera	al index		group		group	Group	index	naces work	t fur- , steel s, and mills	Bolts, wash and r	iers,
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1923	96. 4 99. 5 101. 3 98. 9 98. 7 104. 7 91. 3 77. 3 65. 5 72. 0	103. 3 96. 0 100. 7 103. 7 101. 7 102. 4 109. 1 88. 5 67. 4 49. 4 62. 9 71. 3 82. 4 98. 0	104. 6 96. 4 99. 0 101. 7 95. 6 96. 1 103. 7 86. 1 67. 3 52. 8 56. 7 69. 7 75. 5 84. 7 95. 5	104. 1 95. 7 100. 2 103. 8 97. 9 100. 4 108. 8 83. 0 56. 3 34. 4 37. 2 51. 7 62. 6 78. 0 97. 5	103. 5 96. 4 100. 1 100. 9 102. 4 101. 6 105. 8 96. 9 87. 9 79. 2 98. 4 96. 2 97. 3 99. 5 103. 4	102. 4 96. 2 101. 4 103. 6 106. 4 104. 9 109. 4 95. 5 81. 5 61. 7 64. 9 77. 1 82. 5 87. 9 98. 5	103. 9 97. 0 99. 1 102. 5 97. 2 96. 6 102. 6 89. 2 69. 7 56. 5 64. 6 76. 2 81. 1 92. 3 104. 1	103. 2 96. 7 100. 1 105. 0 98. 6 100. 4 107. 8 85. 7 55. 0 30. 4 39. 0 52. 3 64. 4 84. 2 107. 3	104. 5 97. 1 98. 4 101. 0 95. 7 96. 2 103. 2 90. 3 68. 4 57. 8 71. 0 83. 6 88. 4 100. 9 114. 9	104. 5 96. 5 99. 0 103. 0 96. 7 100. 6 109. 6 87. 7 53. 6 27. 4 40. 5 55. 4 69. 8 93. 6 122. 3	112. 5 89. 5 98. 0 (1) 96. 0 (1) 114. 0 (1) 74. 2 55. 8 66. 4 67. 6 86. 3	111. 5 89. 5 99. 0 (1) 95. 6 (1) 122. 0 (1) 56. 2 32. 5 39. 5 51. 4 61. 4 78. 5 97. 3
JanuaryFebruaryMarchAprilMayJuneJulyAugustSeptemberOctoberNovemberDecemberDecember	96. 5 99. 0 101. 1 102. 1 102. 3 101. 1 101. 4 102. 3 102. 1 100. 5 94. 7 88. 6	90. 7 95. 8 101. 1 104. 9 105. 2 102. 9 100. 4 103. 8 100. 1 89. 5 80. 9	90. 4 93. 2 96. 4 98. 6 99. 9 98. 8 98. 9 98. 1 97. 3 97. 6 92. 4 84. 3	86. 6 92. 5 100. 0 106. 4 107. 5 104. 6 100. 7 104. 0 99. 4 101. 7 89. 9 77. 0	103. 0 105. 2 106. 1 105. 9 104. 8 103. 5 104. 1 106. 9 107. 3 103. 6 97. 3 93. 3	96. 0 99. 9 102. 6 102. 9 102. 3 100. 8 100. 0 103. 5 100. 9 98. 2 89. 0 85. 8	100. 0 103. 4 106. 8 108. 9 110. 1 101. 4 107. 6 108. 7 108. 8 105. 8 98. 1 90. 0	99. 8 103. 9 112. 6 124. 5 124. 7 110. 4 113. 5 120. 4 112. 8 106. 8 85. 7 71. 9	111. 5 113. 6 117. 1 120. 2 122. 0 106. 2 119. 9 121. 4 121. 4 117. 5 108. 6 99. 6	115. 9 118. 5 127. 2 145. 6 145. 6 123. 4 132. 4 142. 3 129. 9 92. 9 75. 5	86. 9 88. 7 90. 2 93. 2 93. 8 81. 9 87. 8 86. 7 87. 5 84. 8	97. 8 105. 8 108. 2 116. 0 113. 4 93. 3 93. 6 100. 7 96. 9 96. 9 78. 7 66. 1
									·			
Month and year			Cutler cept and j		eir prod Forgi		t includ		chinery-			and vater ig ap- is and
		Iron a	Cutler cept and j	and the	eir prod Forgi	ucts, no	t includ	ing mad	chinery-	-Contin	Steam hot-w heatin paratu stea	n and vater ig ap- is and
	Employment	Iron a	Cutler cept and cutler edge	y (ex- silver plated y) and tools	Forgi iron ar	ngs— ad steel	Hard	ing mad	Plum sup	-Continue of the continue of t	Steam hot-w heatin paratu stea fitti Em- ploy-	and vater ig ap- is and am ings

¹ Not available.

TABLE 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

	Ire	on and :	steel and t	heir pr	oducts, no	t includ	ling mach	inery	Continued	1
Month and year	Stov	es	Structur ornam metal	ental	Tin car other ti		Tools, reluding tools, m tools, and s	achine files,	Wirew	ork
:	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 IBST January February March A pril May June July August September October November December	95. 0 99. 0 99. 0 104. 2 96. 2 94. 0 99. 3 83. 1 55. 0 64. 3 82. 0 92. 7 102. 5 106. 3 98. 7 108. 1 113. 0 115. 2 116. 9 119. 0 104. 6 112. 6 113. 4 91. 7 7, 2	103. 5 96. 0 100. 5 105. 8 97. 5 98. 8 74. 3 33. 4 40. 8 56. 0 70. 9 85. 8 90. 6 76. 8 106. 4 106. 7 106. 2 82. 2 96. 9 97. 8 94. 2 65. 0 65. 0	104. 4 97. 7 97. 9 107. 5 106. 1 110. 5 111. 2 98. 9 76. 0 49. 7 43. 3 53. 6 66. 6 76. 3 70. 8 71. 8 74. 2 75. 7 76. 9 78. 7 80. 6 81. 4 82. 3 79. 1 75. 0 69. 5	104. 0 96. 6 99. 4 109. 9 108. 8 111. 0 112. 8 94. 2 61. 5 29. 9 36. 0 57. 5 76. 5 63. 3 67. 5 72. 2 78. 5 78. 5 78. 5 82. 4 82. 3 84. 7 83. 6 74. 5 83. 6	101. 0 100. 0 99. 0 (1) 98. 4 (1) 104. 3 (1) 83. 7 73. 3 89. 2 92. 5 98. 3 103. 9 95. 8 98. 4 100. 2 104. 9 109. 2 114. 8 117. 9 114. 0 96. 8 96. 8 96. 8	97. 7 100. 0 102. 3 (1) 104. 2 (1) 113. 6 (2) 113. 6 83. 3 65. 8 81. 1 87. 9 95. 6 109. 1 94. 4 104. 2 111. 7 116. 6 122. 0 128. 5 122. 6 107. 5 99. 8	105. 7 102. 2 92. 1 (1) 91. 7 (1) 107. 8 (1) 60. 4 48. 8 53. 5 64. 7 70. 6 83. 4 98. 6 102. 0 102. 2 103. 3 101. 6 102. 0 100. 4 98. 4 97. 5 99. 7 99. 7	103. 1 101. 8 95. 6 (1) 95. 6 (1) 51. 1 33. 2 52. 9 65. 4 83. 9 104. 9 102. 8 109. 3 110. 9 114. 9 114. 9 107. 6 106. 7 103. 6 7 90. 3	93. 1 100. 0 106. 9 (1) 120. 4 (1) 124. 2 (1) 95. 6 87. 6 97. 9 118. 4 127. 1 154. 0 178. 1 178. 8 176. 1 186. 5 186. 5 181. 2 171. 3 170. 3 187. 2 179. 5	89, 6 100, 0 110, 4 (1) 122, 5 (1) 129, 3 (1) 80, 6 56, 8 65, 6 89, 4 105, 8 136, 7 171, 6 161, 0 156, 0 3 184, 2 188, 5 171, 6 160, 8 171, 6 171, 6
December	17.2	30.0	<u></u>	<u> </u>	ncluding 1					100.1
Month and year	Group	index	Agricu implen		Cash reg adding chines calcula mach	ma- and ating	Electi machii apparatu supp	ery, is, and	Engines bines, tre and w whee	actors, ater
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937	105. 8 94. 9 99. 3 107. 4 102. 4 104. 9 125. 9 104. 9 78. 3 57. 0 60. 8 80. 0 89. 7 103. 7	104. 1 94. 9 101. 0 111. 1 106. 2 111. 3 134. 3 102. 7 64. 2 37. 3 40. 5 60. 4 74. 4 94. 8 127. 6	110. 0 88. 1 101. 9 115. 3 118. 5 137. 9 147. 9 110. 7 62. 3 36. 8 39. 6 68. 8 100. 2 113. 1	109. 9 88. 7 101. 4 119. 1 125. 9 152. 9 160. 0 106. 9 51. 9 26. 7 62. 8 103. 0 121. 2 173. 9	107. 4 97. 2 95. 4 (1) 103. 1 (1) 120. 8 (1) 87. 3 74. 9 78. 2 100. 5 103. 0 115. 0 132. 4	105. 1 97. 3 97. 6 (1) 100. 4 (1) 137. 3 (1) 69. 1 52. 5 60. 1 83. 6 90. 6 108. 4 141. 3	103. 0 97. 9 99. 1 (1) (1) (2) 127. 3 107. 1 80. 9 60. 6 58. 8 72. 5 80. 6 91. 4 114. 8	100. 1 99. 2 100. 7 (1) (1) 134. 4 109. 3 68. 7 39. 7 38. 9 54. 4 67. 2 83. 1 117. 0	99. 1 96. 0 104. 9 115. 4 111. 3 113. 2 125. 3 106. 1 68. 1 43. 5 47. 0 72. 4 101. 2 119. 4 145. 1	99. 5 96. 7 103. 8 119. 2 119. 3 125. 5 138. 9 107. 2 54. 0 27. 4 32. 5 54. 3 104. 6 148. 6

131, 6 139, 6

162. 1

180. 0 183. 9 182. 7 172. 5 184. 2 189. 2

203. 5

184. 5 173. 5

111.3 119.0

131. 5

137. 5 139. 7 140. 6 138. 6 141. 0 147. 2

150. 5 143. 0

139. 6

120. 8 130. 2 140. 3 148. 0 149. 0 146. 7 146. 7 140. 0 146. 5 148. 4 141. 2

137.9

123. 3 127. 2 130. 5 131. 3 133. 5 135. 9 137. 1 135. 0 136. 5 136. 3 133. 6 129. 0

104. 0 109. 3 111. 2 114. 6 117. 8 119. 9 121. 0 121. 0 121. 3 119. 3

113. 1 104. 7

97. 0 107. 3 112. 1 121. 0 123. 5

123. 5 126. 1 124. 1 126. 8 124. 1 124. 8 114. 3 102. 9

120. 3 131. 1 139. 2 152. 6 156. 5

156. 4 155. 0 155. 5

158.8

159. 4 155. 0

143.6

125. 3 134. 9 139. 8

139. 8 144. 3 148. 8 149. 9 151. 6 151. 1 153. 6 152. 5 147. 8

141, 2

1937

January February March April May

June....

July August

September October November

114. 9 118. 6 121. 2

124. 3 126. 1 129. 2 129. 9

130, 2 130, 7

128, 9

121. 4 113. 1

111. 0 118, 2

118, 2 125, 5 133, 9 134, 9 137, 2 133, 6 137, 1 134, 3 134, 2

121. 2 110. 6

December.... 1 Not available.

TABLE 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

			Machin	nery, not	includi	ng tran	spor	rtation	equi	pmen	t—Co	ntin	ued	
Month and ye	1.	Foundry nachine produ	shop	Machin	ie tools			and aphs		extile inery part	and		Typewr and pa	
	E	mploy- ment	Pay rolls	Employ- ment	Pay rolls	Emple men		Pay rolls	Em	ploy- ent	Pay rolls		mploy- ment	Pay rolls
1923 1924 1925 1926 1927 1928 1930 1931 1931 1932 1933 1934 1935 1936		108. 4 93. 9 97. 7 103. 3 97. 7 98. 8 111. 3 94. 2 69. 7 51. 1 54. 6 70. 4 76. 9 90. 4 108. 1	106. 7 93. 6 99. 7 107. 4 99. 9 102. 6 117. 9 89. 0 55. 4 31. 9 34. 9 52. 3 62. 7 83. 1 110. 7	108. 1 92. 0 99. 9 119. 3 114. 3 127. 9 167. 2 126. 0 74. 7 42. 1 44. 9 73. 0 93. 2 117. 6 149. 1	105, 3 90, 8 103, 9 125, 3 116, 3 139, 8 187, 6 121, 9 61, 5 28, 6 30, 9 56, 1 111, 0 156, 6	89. 105. 104. (1) (1) (2) 141. 124. 80. 112. 167. 173. 189. 174.	9 6 5 0 4 4 1 6 6 9	88. 1 107. 5 104. 4 (¹) (¹) 202. 9 139. 8 96. 5 60. 5 81. 4 114. 0 124. 4 143. 5 141. 0		16. 4 92. 7 90. 9 90. 1 85. 3 78. 5 88. 1 71. 2 31. 3 48. 4 30. 5 54. 0 71. 6 33. 3	117. 5 86. 8 95. 7 95. 7 95. 7 96. 7 66. 0 54. 3 35. 1 47. 9 55. 3 65. 6 85. 2		100. 0 100. 0 100. 0 (1) 111. 5 (1) 77. 8 61. 6 68. 5 101. 1 107. 0 116. 2 148. 0	98. 4 100. 0 101. 6 (¹) 113. 0 (¹) 130. 1 (¹) 60. 0 35. 8 44. 1 83. 2 87. 5 104. 3 138. 2
January February March April May June July September October November December		101. 3 104. 4 106. 8 109. 7 111. 7 112. 7 112. 5 111. 9 110. 4 104. 8 98. 1	98. 7 105. 0 111. 6 118. 5 119. 4 119. 5 114. 8 118. 9 114. 2 113. 5 101. 8 93. 0	134. 9 138. 3 142. 8 146. 7 149. 6 152. 7 154. 6 157. 6 157. 6 153. 9 148. 1	136. 9 142. 3 152. 7 159. 1 161. 6 164. 6 159. 3 160. 2 165. 5 170. 3 157. 9 149. 0	187. 170. 163. 158. 139. 182. 196. 203. 208. 200. 156.	6 0 4 9 3 8 5 3 5 7	146. 0 124. 2 127. 1 126. 8 108. 5 156. 2 166. 1 175. 8 173. 9 165. 5 123. 0 98. 7		79. 6 32. 5 34. 9 37. 0 37. 5 37. 3 36. 2 35. 8 34. 0 32. 8 77. 7 73. 7	83. 1 87. 5 89. 6 95. 8 95. 3 93. 6 89. 5 88. 2 85. 2 80. 9 70. 2 63. 4		146. 2 146. 6 152. 8 154. 3 153. 7 153. 8 152. 3 152. 0 151. 2 147. 9 138. 4 127. 0	131. 2 137. 7 153. 2 156. 7 155. 2 151. 1 145. 6 143. 8 142. 8 128. 4 106. 0 106. 6
						ortatio	Ce	rs, ele	etric	1.	ocomo		Shiph	onild.
Month and year	Grou	p index	<u> </u>	craft	Auton	obiles		nd ste			tives		in	
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	pl		Pay rolls	ploy men	7- 10	ay lls	Em- ploy- ment	Pay rolls
1923	99. 1 87. 9 96. 2 103. 5 80. 2 66. 3	107. 7 90. 8 101. 5 99. 5 89. 8 101. 6 105. 4 70. 2 52. 3 37. 8 35. 6 61. 8 79. 2 117. 0	103. 6 100. 0 96. 4 (1) 157. 9 (1) 525. 2 (1) 353. 1 244. 2 279. 6 338. 0 363. 5 578. 6 789. 4	103. 4 100. 0 96. 6 (1) 156. 8 (1) 501. 5 (1) 501. 5 234. 3 236. 2 265. 0 301. 0 482. 4 703. 7	100. 6 93. 6 105. 8 104. 8 91. 9 108. 1 111. 3 80. 3 71. 0 60. 5 60. 6 94. 5 110. 4 114. 1 128. 3	100. 6 90. 6 108. 8 104. 8 93. 3 113. 9 111. 6 65. 7 53. 4 38. 8 38. 3 68. 2 89. 5 102. 0 123. 1	97 77 54 66 52 22 23 33	6. 9 3. 8 9. 3 5. 0 9. 9 8. 4 3. 1 4. 7 9. 1 9. 3 3. 8 8. 4	128. 7 94. 3 77. 0 60. 4 48. 2 63. 1 53. 2 25. 4 20. 5 14. 6 31. 3 34. 1 51. 3 79. 5	157. 76. 65. 86. 66. 45. 56. 52. 28. 17. 12. 25. 23. 33.	4 73 9 55 2 86 7 5 4 33 8 5 3 5 7 1 9 1 7 2	3. 1 2. 9 9. 0 9. 6 7. 2 9. 6 3. 3 1. 5 3. 1 9. 0 4. 0 3. 2 1. 9	114. 5 93. 2 92. 3 97. 4 101. 3 79. 5 101. 3 107. 3 83. 0 66. 7 56. 8 71. 7 76. 5 96. 2 103. 8	112.8 94.9 92.3 100.9 108.3 85.0 109.7 113.5 76.8 54.1 42.1 58.6 68.5 95.3 115.7
January February March April May June July August September October November December	112. 7 116. 0 121. 0 125. 4 128. 3 126. 4 119. 9 111. 8 107. 0 122. 7 121. 8 105. 5	100. 7 112. 3 123. 6 128. 6 134. 1 127. 8 117. 5 112. 8 104. 4 129. 9 120. 0 92. 4	725. 4 756. 3 790. 8 813. 7 823. 2 834. 0 790. 7 812. 1 766. 8 784. 0 795. 0 781. 0	606. 3 652. 4 703. 4 738. 7 739. 4 751. 3 682. 7 750. 8 670. 4 723. 0 725. 3 700. 7	125. 2 127. 4 131. 6 136. 2 140. 0 137. 8 130. 4 118. 7 112. 5 133. 9 133. 2 112. 9	108. 2 121. 8 132. 2 136. 0 143. 8 135. 2 123. 6 115. 3 105. 6 138. 3 125. 8 90. 8	6: 7: 7: 7: 7: 7: 6: 6: 6: 6:	5. 7 2. 9 0. 2 5. 1 7. 7 6. 5 1. 6 2. 7 7. 9 5. 8	58. 8 66. 7 79. 1 89. 1 89. 9 91. 4 83. 4 87. 4 79. 7 82. 5 81. 1 65. 0	44. 50. 54. 57. 58. 59. 62. 63. 64. 64. 59.	4 3 2 4 4 4 8 4 5 5 5 5 5 5 3 4 5 6 5	1. 1 7. 2 0. 8 5. 1 7. 3 1. 4 0. 5 2. 6 5. 0 1. 4 3. 7	94. 5 98. 7 106. 8 109. 0 106. 7 103. 3 100. 2 102. 4 106. 2 106. 8 105. 9 104. 8	96. 8 97. 9 116. 0 122. 7 118. 7 114. 5 111. 7 118. 8 119. 0 124. 4 121. 4 126. 5

¹ Not available.

TABLE 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

		Ra	ilroad re	pair sh	ops		Non	ferrous	metals s	nd thei	r produ	cts
Month and year	Group	index	Electr ro	ic rail- ad	Stean ro		Group	index	Alum man tu		Bra bronze cop prod	e, and per
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1923 1924 1925 1926 1927 1928 1929 1929 1930 1931 1932 1933 1934 1935 1936 1937	108. 6 96. 4 95. 0 95. 5 89. 0 83. 8 82. 6 73. 4 64. 1 52. 5 50. 2 51. 7 58. 3 60. 9	109. 6 95. 6 94. 8 96. 1 92. 0 87. 2 90. 4 76. 1 61. 7 42. 0 40. 3 46. 5 48. 8 59. 4 64. 3	104. 0 99. 1 96. 9 96. 5 94. 1 89. 6 87. 8 85. 8 79. 3 70. 0 62. 9 62. 4 61. 8 62. 5 63. 4	101. 5 98. 8 99. 7 100. 4 99. 8 97. 9 97. 2 93. 0 80. 2 64. 3 55. 1 58. 0 59. 7 62. 9 67. 3	108. 9 96. 3 94. 8 95. 4 88. 6 83. 3 82. 2 72. 4 62. 9 51. 1 49. 2 52. 8 51. 0 60. 8	110. 2 95. 5 94. 3 95. 7 91. 4 86. 3 89. 8 74. 8 60. 4 40. 4 39. 3 45. 8 48. 2 59. 3 64. 2	105. 4 96. 7 97. 9 (1) 96. 5 (1) 111. 4 (1) 74. 0 60. 4 66. 7 81. 1 90. 2 99. 6 111. 4	103. 7 95. 9 100. 4 (1) 100. 5 (1) 116. 4 (1) 63. 1 40. 3 43. 8 58. 8 70. 9 85. 2 106. 1	106. 3 100. 0 93. 7 (1) 96. 6 (1) 138. 4 (1) 90. 2 73. 0 89. 11 91. 8 95. 8 108. 7 123. 5	100. 2 100. 0 99. 8 (1) 105. 5 (1) 150. 0 (1) 81. 3 46. 7 60. 1 66. 3 79. 6 98. 6 127. 8	103. 4 96. 6 100. 0 102. 7 101. 2 107. 3 121. 5 96. 6 74. 9 62. 5 73. 4 84. 9 93. 0 103. 8 117. 2	101. 3 95. 6 103. 1 107. 4 104. 7 115. 6 128. 3 88. 7 60. 3 39. 1 48. 0 61. 7 73. 9 89. 7 114. 3
January. January. February. March. April. May. June. July. August. September October. November December	61. 2 61. 6 62. 2 63. 3 63. 6 64. 0 63. 8 62. 1 60. 4 59. 0 57. 4 52. 7	61. 2 63. 4 65. 8 67. 1 68. 7 63. 5 67. 3 63. 1 64. 9 63. 3 55. 7	63. 4 63. 3 64. 0 63. 8 63. 4 62. 7 63. 3 63. 0 63. 4 63. 3 63. 1 63. 5	64. 5 64. 8 67. 1 67. 6 66. 4 67. 0 68. 7 67. 7 68. 0 68. 2 70. 1	61. 0 61. 5 62. 1 63. 3 63. 6 64. 1 63. 8 62. 0 60. 2 58. 7 57. 0 51. 9	61. 1 63. 4 65. 9 67. 6 67. 4 69. 0 63. 3 67. 4 62. 9 64. 9 63. 0 54. 7	106. 9 111. 5 114. 6 115. 5 115. 5 113. 9 111. 5 112. 8 114. 1 112. 7 108. 4 98. 9	97. 1 103. 5 111. 8 114. 2 113. 1 111. 5 105. 3 109. 9 110. 1 109. 9 99. 9 86. 5	118, 9 122, 2 124, 2 124, 4 125, 8 129, 5 131, 5 132, 6 131, 0 104, 7 123, 5 114, 1	114. 7 121. 7 130. 4 130. 7 134. 8 135. 6 134. 5 141. 2 135. 7 115. 9 127. 8 110. 7	118, 5 121, 7 124, 1 127, 6 125, 7 122, 3 119, 0 116, 9 114, 8 113, 1 105, 5 97, 0	113. 1 120. 2 127. 8 132. 7 126. 5 125. 3 116. 6 113. 2 106. 7 92. 1 80. 3

			No	nferrou	s metals	and th	eir prod	ucts—C	ontinue	d		
Month and year	watche tin recor		Jew	el r y	Ligh equip	iting ment			and ing—co lead.		Stam an enam wa	id ieled
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1923	97. 6 100. 0 102. 4 (1) 102. 9 (1) 98. 2 (1) 74. 3 58. 1 58. 9 79. 2 94. 6 108. 9 121. 8	95. 7 100. 0 104. 3 (1) 108. 1 (1) 102. 2 (1) 62. 2 38. 0 39. 7 62. 4 80. 1 98. 7 118. 5	105. 1 99. 8 95. 1 (1) 96. 2 (1) 111. 4 (1) 74. 1 59. 5 59. 3 72. 1 78. 4 82. 9 92. 6	105. 9 91. 8 102. 3 (1) 106. 9 (1) 113. 3 (1) 65. 6 42. 8 37. 7 50. 0 54. 9 60. 4 72. 3	101. 3 100. 0 98. 7 (1) 92. 9 (1) 104. 2 (1) 65. 3 47. 0 46. 5 59. 0 68. 2 80. 9 94. 4	96. 7 100. 0 103. 3 (1) 97. 3 (1) 110. 6 (1) 60. 4 35. 3 31. 6 44. 2 55. 9 73. 3 93. 1	100. 6 100. 0 99. 4 (1) 98. 4 (1) 92. 6 (1) 65. 3 53. 7 54. 1 67. 2 68. 7 65. 8 75. 3	98. 1 100. 0 101. 9 (1) 102. 3 (1) 54. 3 36. 8 35. 1 49. 0 53. 0 69. 8	102. 8 100. 0 97. 2 (1) 89. 9 (1) 91. 3 (1) 54. 4 41. 4 42. 9 59. 1 70. 2 78. 1 87. 0	103. 2 100. 0 96. 8 (1) 90. 4 (1) 99. 4 (1) 45. 9 26. 6 27. 4 39. 8 50. 8 63. 5 82. 3	110. 1 95. 7 94. 2 96. 9 93. 0 104. 1 120. 5 106. 3 85. 4 79. 5 97. 2 119. 4 132. 2 142. 5 153. 5	111, 2 92, 8 96, 0 98, 3 95, 7 108, 0 125, 6 104, 9 76, 8 56, 5 66, 7 90, 3 110, 3 130, 1 152, 0
January February March April May June July August September October November December	118. 4 120. 1 122. 1 123. 0 123. 4 121. 6 114. 8 123. 7 127. 0 127. 5 125. 0 115. 3	109. 1 111. 0 120. 2 122. 1 122. 3 118. 5 108. 4 121. 9 128. 0 132. 7 122. 3 105. 3	84. 4 88. 5 88. 6 87. 5 88. 6 89. 1 90. 8 95. 9 101. 1 106. 4 100. 3 89. 9	62. 3 66. 1 69. 2 68. 0 69. 1 70. 3 67. 8 74. 1 81. 7 89. 4 78. 8 70. 6	73. 3 96. 8 103. 8 101. 4 99. 7 96. 1 91. 5 90. 7 97. 2 100. 1 95. 6 87. 1	69. 4 89. 8 109. 3 107. 1 101. 6 95. 3 88. 8 86. 8 98. 5 104. 3 94. 4 72. 1	69. 3 71. 8 73. 8 74. 4 74. 4 73. 8 76. 3 79. 5 80. 8 79. 3 76. 1	57. 6 62. 8 67. 9 68. 5 69. 7 69. 1 66. 9 72. 5 81. 4 80. 7 72. 6	80. 4 78. 9 81. 1 84. 6 87. 5 88. 8 91. 8 92. 1 93. 0 92. 1 88. 0 85. 3	68. 5 68. 9 75. 2 81. 9 84. 8 85. 2 87. 2 92. 4 88. 6 90. 9 83. 8 80. 2	154. 8 159. 1 165. 3 162. 4 162. 8 159. 2 151. 0 153. 4 153. 2 154. 0 144. 0 122. 6	148. 4 154. 9 163. 2 164. 1 166. 0 162. 4 146. 2 157. 0 149. 2 156. 4 141. 5 114. 7

¹ Not available.

TABLE 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

TABLE 0 Limp			<i>ay</i> 1.000						o done	
			Lumbe	er and a	llied prod	uets			Stone, cla glass pro	y, and ducts
Month and year	Group i	index	Furni	ture	Lumber wor		Lumber mill		Group i	ndex
i	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937	101. 5 98. 3 100. 2 100. 3 93. 9 92. 1 95. 2 75. 8 56. 0 49. 9 54. 5 58. 7 64. 7 68. 7	100. 0 98. 5 101. 5 102. 4 96. 6 94. 1 97. 3 72. 5 46. 2 28. 6 30. 3 36. 9 44. 6 55. 3 63. 5	98. 1 96. 2 105. 7 110. 3 108. 8 106. 7 111. 9 89. 0 73. 7 57. 4 61. 0 62. 4 70. 2 78. 2 85. 8	96. 9 96. 4 106. 4 113. 4 111. 8 107. 5 114. 0 59. 2 34. 6 35. 2 41. 5 63. 6 74. 3	96. 7 98. 8 104. 5 102. 7 90. 7 84. 6 64. 4 51. 1 35. 0 33. 2 35. 4 49. 3 55. 1	95, 6 99, 3 105, 1 103, 3 90, 5 86, 1 83, 5 61, 1 42, 0 21, 4 18, 7 22, 3 31, 6 43, 2 51, 9	103. 6 98. 8 97. 6 95. 5 86. 6 84. 4 87. 7 67. 6 41. 1 31. 7 39. 6 45. 0 46. 4 50. 2 51. 7	102. 5 99. 2 98. 3 96. 6 89. 0 87. 2 90. 7 67. 6 33. 6 18. 4 24. 4 30. 9 42. 6 47. 7	100. 4 98. 9 100. 7 103. 8 99. 9 95. 7 93. 8 80. 2 48. 7 49. 4 57. 6 64. 2 70. 0	98. 3 100. 5 101. 2 104. 2 100. 5 96. 2 93. 7 76. 9 30. 6 30. 8 39. 6 44. 2 65. 6
1937										
January February March April May June July August September October November December	65. 0 65. 8 69. 8 70. 6 71. 6 72. 9 73. 0 71. 8 69. 5 63. 5	54, 9 58, 2 64, 6 68, 3 68, 2 72, 3 67, 3 71, 4 68, 2 65, 3 55, 1 48, 4	85. 9 86. 1 87. 5 86. 9 87. 4 89. 1 87. 9 89. 2 89. 1 86. 8 79. 5 74. 5	71. 4 75. 0 76. 9 78. 5 76. 7 78. 7 73. 9 79. 2 76. 8 65. 8 60. 0	53. 8 55. 0 56. 7 57. 7 57. 3 57. 5 57. 3 57. 1 55. 6 54. 3 51. 2 47. 6	47. 1 50. 4 52. 6 55. 6 54. 9 57. 5 54. 8 56. 1 53. 2 51. 7 46. 3 42. 8	46. 8 47. 6 52. 3 53. 4 54. 7 55. 7 56. 3 56. 0 54. 7 47. 6 42. 8	37, 2 39, 7 48, 0 52, 0 52, 9 57, 4 52, 8 56, 3 52, 6 49, 4 40, 4 33, 9	62. 5 67. 2 70. 3 73. 0 74. 4 74. 0 71. 7 71. 9 72. 7 71. 4 68. 2 63. 2	52. 7 59. 8 66. 1 71. 1 72. 0 71. 4 66. 1 70. 5 69. 9 69. 6 63. 6 54. 5
			Stone	, clay, a	nd glass p	product	s-Contin	ued		
Month and year	Brick, ti	le, and otta	Cem	en t	Gla	ss	Marble, slate, and produ	d other	Potte	ery
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls
1923	98. 7 100. 7 102. 9 99. 0 92. 3 91. 5 72. 2 50. 2 31. 8 31. 3 34. 8 36. 3 45. 6	98. 1 101. 1 100. 8 101. 8 96. 7 87. 5 84. 7 62. 2 35. 2 15. 5 15. 0 20. 0 24. 2 35. 7 42. 9	95. 0 101. 0 104. 0 102. 1 98. 3 92. 6 90. 3 84. 6 65. 8 45. 8 45. 8 51. 7 52. 0 57. 4 65. 8	94. 6 102. 9 102. 5 100. 9 101. 1 96. 9 92. 9 29. 8 26. 4 37. 7 39. 7 51. 6 66. 6	105. 1 95. 5 99. 4 103. 8 94. 3 92. 6 96. 7 83. 8 71. 5 59. 6 71. 3 91. 6 96. 3 91. 6	103, 4 96, 9 99, 7 103, 9 93, 6 94, 5 100, 9 82, 9 66, 5 45, 5 52, 0 70, 7 81, 6 91, 1 111, 7	104. 5 100. 0 95. 5 (1) 105. 6 (1) 98. 7 (1) 72. 2 47. 9 43. 1 39. 6 34. 2 39. 7 42. 0	101, 7 100, 0 98, 3 (¹) 113, 0 (¹) 104, 0 (¹) 68, 8 35, 3 27, 7 26, 5 24, 5 32, 6 35, 9	98. 5 103. 8 97. 7 98. 0 98. 8 94. 7 82. 9 72. 3 58. 6 63. 6 72. 2 72. 6 73. 6 77. 7	97. 8 104. 3 97. 9 99. 3 94. 5 93. 9 91. 4 74. 1 56. 4 37. 4 46. 4 52. 1 58. 0 67. 9
January February March April May June July August September October November December	46. 6 49. 3 53. 3 55. 0 54. 5 53. 8 52. 3 50. 0 45. 5	36. 4 37. 9 42. 6 49. 2 49. 1 46. 2 46. 2 46. 4 44. 2 36. 4 30. 8	69. 9 69. 9 69. 2 66. 1	49. 9 52. 6 62. 5 68. 5 71. 4 75. 0 72. 4 77. 1 72. 8 72. 2 67. 3 58. 0	106.7	84, 6 107, 2 115, 1 120, 9 119, 4 108, 6 120, 3 118, 7 119, 2 111, 9 95, 8	44, 9 43, 4 42, 1	28. 5 29. 9 33. 5 38. 5 41. 3 37. 6 38. 4 39. 7 39. 8 37. 8 34. 6 30. 8	74. 8 77. 6 81. 1 82. 1 81. 7 80. 0 72. 8 75. 8 77. 0 78. 6 76. 9 74. 1	63. 2 67. 6 73. 9 72. 2 70. 3 59. 0 64. 7 66. 8 72. 9 70. 0 59. 7

¹ Not available.

TABLE 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

				Text	iles and th	neir pro	ducts							
Month and year	Group	index	Fab (subgr		Carpet: rug		Cotton	goods	Cotton war					
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay- rolls				
1923	105. 2 94. 9 99. 9 99. 9 104. 0 101. 3 104. 8 92. 9 87. 2 77. 9 90. 5 94. 4 100. 7 102. 7	105. 8 93. 8 100. 4 100. 2 106. 8 101. 7 105. 2 55. 6 75. 2 53. 6 61. 8 72. 4 81. 0 83. 6 89. 6	105. 4 94. 2 100. 4 99. 2 101. 3 96. 2 99. 2 86. 0 80. 3 71. 9 86. 4 89. 7 93. 2 94. 3 97. 4	106. 0 93. 4 100. 6 99. 4 103. 8 95. 8 95. 8 99. 4 70. 2 50. 4 70. 2 78. 2 81. 1 89. 1	103. 8 96. 2 100. 0 97. 8 96. 9 92. 8 96. 2 74. 2 67. 5 52. 9 62. 8 69. 1 82. 2 86. 3 96. 7	109. 2 93. 3 97. 5 93. 8 94. 5 85. 7 90. 1 59. 7 54. 3 31. 4 41. 0 48. 3 69. 7 75. 0 87. 2	106. 7 92. 5 100. 8 101. 9 105. 8 95. 5 96. 1 80. 7 74. 5 67. 1 85. 9 91. 22 87. 8 93. 1	110. 1 91. 6 98. 3 98. 5 105. 7 88. 4 90. 1 69. 4 61. 0 43. 9 60. 2 71. 0 72. 0 80. 8 95. 0	104, 4 92, 6 103, 0 (1) 95, 3 (1) 81, 7 72, 2 84, 3 90, 1 94, 4 96, 1 99, 2	105, 5 91, 8 102, 7 (1) 101, 3 (1) 102, 1 (1) 76, 8 56, 2 76, 5 85, 0 95, 2				
January February March April May June July August September October November December	109. 9 107. 3 103. 4 100. 0 102. 8 101. 6 98. 8 92. 0	94. 6 100. 1 103. 2 100. 2 96. 2 91. 3 85. 5 92. 1 87. 1 84. 2 71. 5 68. 7	102. 3 103. 6 103. 8 103. 7 102. 2 99. 7 98. 0 97. 3 94. 9 91. 9 87. 2 84. 0	96. 0 97. 6 97. 5 100. 3 98. 0 93. 8 89. 6 90. 0 85. 3 81. 0 71. 5 68. 9	98. 1 100. 0 102. 3 102. 9 102. 2 101. 6 99. 8 100. 8 99. 4 88. 7 85. 7 78. 3	95. 9 98. 3 102. 8 101. 5 100. 7 100. 2 97. 0 97. 6 84. 5 49. 7 54. 4	102. 7 104. 3 105. 1 105. 7 105. 6 103. 0 102. 0 100. 9 98. 4 93. 9 91. 1 89. 0	100. 1 100. 4 101. 4 107. 6 106. 5 101. 2 96. 7 97. 0 92. 5 85. 1 76. 8 74. 1	106. 7 107. 0 108. 6 107. 9 98. 2 97. 4 96. 0 96. 4 97. 8 98. 4 91. 2 84. 9	104, 3 105, 0 109, 3 108, 3 95, 7 91, 6 90, 4 90, 8 95, 9 96, 8 79, 0 74, 9				
			Tex	tiles an	d their pro	oducts-	ucts—Continued Silk and rayon Woolen and							
Month and year		Dyeing and nishing textiles Hats, fur			Knit g	good		worsted goods						
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls				
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937	108. 7 110. 8 113. 5 114. 9 121. 8 112. 0 103. 3 92. 8 101. 8 113. 6 114. 6	96. 1 92. 7 111. 2 114. 2 121. 5 121. 8 124. 8 108. 7 101. 2 73. 8 77. 5 88. 5 94. 4 97. 2 100. 5	106. 4 97. 1 96. 5 (1) 101. 2 (1) 105. 3 (1) 89. 6 72. 6 79. 8 82. 8 85. 8 86. 5	107. 4 90. 5 102. 5 102. 1 (1) 114. 1 (1) 82. 5 54. 5 59. 5 66. 8 74. 5 75. 3	104. 8 94. 5 100. 7 101. 3 102. 6 112. 6 112. 5 102. 9 96. 0 94. 1 102. 3 107. 7 112. 5 116. 0	103. 7 92. 3 104. 0 109. 1 116. 0 115. 4 129. 8 108. 6 92. 2 75. 5 81. 4 98. 6 108. 2 112. 9 118. 7	99. 7 94. 8 105. 5 102. 9 101. 5 101. 0 103. 8 95. 1 86. 9 74. 0 87. 8 88. 4 86. 5 77. 8	97. 4 93. 0 109. 6 107. 8 107. 6 107. 5 105. 6 87. 2 74. 8 48. 4 56. 9 66. 0 68. 8 61. 5 65. 1	109. 3 97. 9 92. 8 84. 1 86. 7 83. 1 82. 6 67. 2 67. 1 56. 0 71. 4 65. 7 86. 5 82. 6 79. 7	109. 1 97. 6 93. 3 84. 0 84. 7 79. 2 80. 1 60. 5 57. 3 38. 9 49. 7 47. 7 68. 5 65. 3 69. 2				
January. February March April May June July August September October November December	122,8 123, 1 123, 1 118, 8 109, 7 109, 1 109, 4 110, 5 112, 2 108, 8	112. 2 111. 9 112. 6 114. 6 106. 2 95. 8 94. 1 93. 8 94. 9 94. 6 89. 0 86. 5	88. 4 90. 1 90. 8 88. 0 82. 9 83. 9 83. 9 85. 5 83. 0 83. 0 83. 5	86. 4 93. 9 89. 5 65. 9 69. 3 73. 8 80. 8 87. 0 69. 2 62. 0 61. 0 64. 9	120. 4 122. 7 123. 7 123. 4 121. 7 118. 1 116. 3 116. 3 116. 3 111. 9 103. 3	120, 2 126, 6 127, 0 127, 5 125, 1 119, 0 112, 6 119, 4 116, 9 122, 8 112, 3 95, 1	83. 0 83. 7 82. 7 82. 2 78. 1 79. 7 80. 2 79. 9 75. 4 67. 6 63. 2	68. 5 71. 4 70. 7 71. 3 68. 4 67. 4 65. 7 68. 2 62. 4 50. 8 48. 1	92. 5 92. 3 90. 3 89. 0 87. 9 86. 0 80. 7 78. 3 70. 4 68. 4 59. 8 61. 1	83. 1 82. 2 79. 0 83. 3 81. 4 78. 5 71. 8 68. 5 57. 6 52. 8 42. 8 49. 6				

¹ Not available.

TABLE 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

	Textiles and their products—Continued											
Month and year	Wearing (subgr	apparel oup)	Clothing	, men's	Clothing	g, wom-	Corset allied ga		Men's fu			
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls		
1923		105. 6 94. 9 99. 5 99. 6 107. 6 107. 5 111. 0 93. 6 57. 2 60. 0 74. 0 83. 0 85. 2 86. 7	107. 0 97. 3 95. 7 97. 4 102. 5 101. 3 103. 2 91. 4 84. 9 79. 4 90. 5 95. 8 103. 7 106. 8	109. 3 96. 1 94. 8 99. 5 95. 5 95. 8 74. 7 62. 8 44. 8 52. 8 65. 4 79. 9 81. 7	104. 3 96. 6 99. 1 104. 2 121. 0 133. 7 146. 8 142. 2 135. 8 116. 9 125. 1 136. 0 142. 8 152. 0 147. 8	103. 2 94. 3 102. 5 104. 7 123. 6 132. 5 142. 6 127. 9 110. 5 76. 4 74. 5 94. 8 102. 7 105. 5 104. 5	105. 2 100. 0 94. 8 (1) 90. 0 (1) 89. 2 (1) 91. 3 89. 3 91. 6 93. 1 91. 3 87. 8 87. 8	103. 4 100. 0 96. 6 (1) 96. 7 (1) 97. 0 (1) 89. 6 74. 8 73. 2 84. 3 85. 0 85. 5 87. 0	94. 6 100. 1 105. 3 (1) 125. 7 (1) 132. 7 (1) 120. 1 103. 8 110. 7 113. 1 115. 4 127. 4 134. 6	93. 6 96. 1 110. 3 (1) 139. 5 (1) 145. 5 (1) 109. 5 75. 2 79. 1 92. 5 94. 5 100. 1 104. 6		
1937												
January February March April May June July August September October November December	115. 6 122. 6 125. 5 121. 8 116. 5 109. 3 102. 0 113. 0 114. 4 112. 1 101. 0 95. 6	88. 1 100. 9 110. 4 95. 7 88. 9 82. 5 73. 8 92. 4 87. 0 68. 6 65. 2	109. 8 114. 4 116. 2 114. 8 111. 5 106. 6 107. 4 111. 0 108. 7 103. 5 90. 7 84. 0	87. 8 98. 9 105. 7 95. 7 89. 9 86. 7 86. 4 91. 8 83. 9 80. 2 61. 1 55. 5	154. 9 165. 6 169. 9 161. 8 152. 6 137. 0 146. 2 152. 2 150. 4 134. 9 131. 0	107. 7 125. 0 138. 0 112. 6 105. 9 91. 6 71. 3 114. 7 106. 3 110. 1 84. 2 86. 0	89. 0 91. 6 93. 2 92. 4 91. 4 89. 6 88. 1 88. 9 89. 7 88. 1 87. 6	85. 2 92. 6 98. 2 96. 0 91. 8 85. 2 80. 2 81. 7 84. 2 87. 3 82. 1 79. 7	130. 0 142. 8 147. 6 146. 8 141. 9 136. 5 129. 7 127. 6 127. 7 135. 9 130. 4 118. 8	93. 3 113. 6 123. 1 115. 7 106. 0 103. 7 96. 6 102. 4 95. 4 111. 8 103. 8 89. 8		
	Textile	s and th	neir produ	cts—		Leath	er and its	manufa	ctures	<u> </u>		
Month and year	Millin		Shirts and collars		Group index		Boots and shoes		Leather			
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls		
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937	103. 2 94. 8 102. 0 98. 0 104. 8 105. 7 101. 3 91. 3 83. 7 73. 9 71. 0 64. 9 54. 7 54. 9 53. 4	100. 8 94. 5 104. 7 103. 6 113. 9 112. 3 104. 0 88. 6 79. 2 60. 9 49. 4 49. 0 42. 4 41. 7 40. 3	107. 9 93. 0 99. 1 101. 7 106. 3 109. 1 102. 7 104. 0 91. 0 103. 1 104. 4 108. 5 114. 0 119. 2	109. 7 91. 9 98. 4 101. 9 107. 1 109. 9 107. 1 109. 2 90. 3 82. 7 58. 0 68. 3 85. 2 95. 9 100. 7 104. 7	108. 6 96. 3 97. 1 96. 6 97. 7 95. 6 98. 5 91. 2 84. 3 81. 2 87. 2 92. 4 92. 5 91. 9	106. 9 95. 3 97. 8 98. 9 100. 3 95. 8 99. 0 82. 3 72. 1 57. 6 61. 2 71. 7 74. 1 72. 8 78. 2	106. 0 96. 7 97. 3 95. 6 95. 6 92. 7 96. 7 90. 2 85. 3 84. 5 89. 8 94. 1 93. 1 92. 1	107. 6 95. 3 97. 1 96. 1 96. 8 91. 3 95. 6 78. 3 61. 1 71. 2 70. 3 67. 3 72. 4	109. 1 95. 4 95. 5 96. 7 96. 6 94. 3 91. 1 84. 6 76. 9 68. 8 80. 7 90. 5 94. 9 95. 8	107. 9 95. 8 96. 3 99. 5 99. 3 95. 5 92. 8 83. 0 72. 6 54. 0 76. 1 89. 6 94. 2 100. 6		
January February March April May June July August September October November December	55. 4 61. 5 66. 8 61. 0 56. 0 51. 2 38. 8 52. 9 56. 7 52. 0 43. 8 44. 1	41. 4 50. 4 64. 7 48. 6 38. 6 37. 4 23. 8 40. 3 49. 0 35. 5 26. 7 27. 4	119. 2 126. 6 130. 1 126. 6 120. 2 118. 0 113. 4 116. 0 119. 2 120. 7 114. 6 106. 3	99. 6 111. 8 122. 4 114. 6 101. 6 101. 7 95. 9 102. 8 103. 0 112. 5 102. 6 87. 3	97. 5 99. 9 100. 8 98. 3 95. 1 93. 8 96. 3 96. 3 96. 3 98. 7 89. 5 80. 3 81. 8	86. 3 90. 9 92. 4 87. 7 81. 6 80. 6 84. 6 83. 7 71. 6 66. 3 53. 8	99. 0 101. 9 102. 7 99. 3 95. 3 94. 0 98. 0 98. 6 94. 0 90. 7 80. 8 83. 8	82. 4 87. 9 89. 0 81. 6 74. 1 73. 3 79. 8 78. 7 64. 5 58. 7 46. 0 53. 2	97. 0 97. 5 98. 8 100. 0 99. 1 98. 0 94. 7 93. 9 92. 5 89. 6 82. 9 78. 6	102. 5 104. 6 107. 3 111. 4 110. 4 104. 0 103. 8 98. 6 95. 0 82. 7 78. 5		

¹ Not available.

Table 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

		Food and kindred products												
Month and y	ear	Group	index	Ва	king	Ве	verage	s		Buti	ter		Cannin preser	
	- 1	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em ploy mer	/- <u>-</u>	ay olls	pl	m- oy- ent	Pa rol		Em- ploy- ment	Pay rolls
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1937 1937 1937 1937 1949 1957 1967 1979		101. 4 98. 3 100. 3 99. 7 100. 2 103. 8 111. 1 107. 8 95. 6 88. 6 100. 3 114. 5 109. 4 111. 1 115. 5	99. 8 99. 3 100. 9 102. 0 103. 0 106. 3 112. 9 108. 0 92. 0 75. 0 75. 7 94. 4 101. 3 115. 5	100. 1 101. 1 98. 8 101. 4 105. 9 112. 2 123. 6 106. 8 112. 5 124. 3 128. 5 134. 5	101. 7 100. 3 104. 1 107. 8 113. 3 125. 3 129. 2 109. 0 92. 3 89. 9 103. 6 105. 1 114. 3 129. 2	97 98 (1) 96 (1) 101 (1) 85 79 138 175 172 188 204	.0	4. 4 5. 8 9. 8 1) 0. 0 11) 1 1. 2 1. 9 3. 7 7. 6 9. 3 7. 8 9. 3 1. 0 0. 2	1 (((((((((((((((((((06. 7 00. 0 93. 3 1) 05. 6 1) 00. 3 1) 00. 3 1) 82. 0 88. 0 86. 7 91. 4 82. 3 83. 8 87. 3	(1 108 (1 102 (1 79 68 63 65 61 64 69 62 64 64 66	0.03	97. 7 86. 9 115. 4 (1) 112. 0 (1) 134. 6 138. 8 106. 1 112. 7 140. 8 148. 7 141. 3 149. 9 90. 4 92. 4 89. 6 110. 8	97. 8 86. 9 115. 3 (1) 108. 7 (1) 129. 4 126. 7 91. 2 65. 0 76. 8 101. 9 123. 1 123. 3 154. 2 86. 3 97. 1 89. 5 113. 3
May		107. 9 112. 6 124. 9 132. 5 137. 8 125. 0 114. 6 107. 3	111. 6 115. 8 128. 3 131. 2 133. 2 125. 0 115. 9 110. 4	134. 6 136. 7 135. 3 136. 7 138. 4 135. 2 131. 6	130. 3 133. 8 134. 9 132. 4 136. 1 137. 3	207 224 234 230 223 202 194 187	4 23 4 26 4 28 7 27 3 25 7 22 3 21	6. 9 0. 5 4. 8 3. 4 3. 0 2. 4 2. 7 2. 0		89. 0 95. 6 97. 3 94. 3 91. 6 86. 4 83. 7	71 76 78 77 73 70 67 65	.3 .6 .1 .8 .8 .3	99. 6 122. 7 209. 8 278. 0 311. 5 185. 9 118. 7 89. 1	108. 5 123. 5 245. 0 293. 9 307. 1 187. 7 111. 4 86. 6
			····	Food	and ki	ndred p	roduct	s—C	onti	nued				
Month and year		onfection- ery F		lour le		Ice cream		Slaughteri and mea packing		at Suga		beet		rein- cane
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment		ay olls	Em ploy men	7-]	Pay rolls	Em- ploy- ment	Pay rolls
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937	101. 7 96. 5 101. 8 105. 8 101. 1 98. 9 101. 7 92. 1 82. 0 74. 8 81. 0 81. 3 80. 8 78. 1 79. 6	100.9 97.7 101.4 106.8 104.7 101.0 103.7 93.3 77.5 60.6 60.7 71.4 70.3 78.3	104. 9 99. 7 95. 4 91. 8 89. 4 85. 5 80. 6 73. 9 68. 1 65. 7 69. 2 78. 2 76. 9 75. 1 75. 5	101. 9 101. 0 97. 1 94. 4 91. 8 89. 7 78. 7 66. 7 55. 2 64. 9 67. 4 70. 1 75. 4	99. 2 102. 0 98. 8 96. 3 94. 0 95. 5 96. 0 89. 0 76. 0 64. 6 61. 6 69. 7 69. 3 70. 4 74. 3	98. 7 99. 7 101. 6 103. 2 100. 6 103. 2 102. 7 93. 0 76. 9 56. 7 49. 1 57. 0 58. 5 62. 0 68. 6	104. 7 100. 3 95. 0 93. 2 94. 0 94. 8 96. 7 92. 1 80. 6 89. 3 105. 7 84. 3 88. 8	9 9 9 10 10 10 9 8 6 6 9 7	2.6 9.9 7.5 7.8 8.9 0.1 6.3 2.2 5.7 7.1 7.9	92. 100. 107. (¹) 90. (¹) 91. (¹) 75. 90. 130. 94. 100. 93.	0 9 0 2 8 4 0 9 8 5	91. 1 100. 0 108. 9 (¹) 87. 5 (¹) 90. 3 (¹) 68. 1 68. 5 98. 2 70. 6 89. 3 92. 5 95. 5	103.4 98.2 98.4 94.8 94.9 89.43 92.3 80.3 73.9 77.9 85.5 80.8 77.2 74.1	102. 6 100. 4 97. 0 91. 5 90. 6 87. 5 91. 4 89. 7 79. 6 66. 7 65. 0 65. 8 64. 9 70. 3

79. 9 79. 4 78. 8 74. 2 71. 2 68. 9 69. 2 73. 3 85. 4 95. 5 91. 8 87. 2 76. 2 75. 5 76. 2 70. 5 69. 2 68. 0 64. 3 75. 2 89. 0 98. 4

89. 8 86. 8 74. 5 74. 7 74. 2 74. 4 73. 8 77. 9 77. 5 76. 9 76. 0 75. 1 71. 4 70. 8 70. 4 72. 3 73. 4 74. 2 79. 6 80. 2 80. 7 80. 9 76. 7 74. 0 61. 1 61. 8 64. 6 69. 2 82. 0 90. 6 93. 2 89. 8 82. 2 68. 8 65. 1 63. 7 55. 8 56. 5 59. 4 64. 4 75. 8 81. 5 84. 2 74. 0 63. 9 61. 5 60. 4 96. 4 91. 3 90. 7 88. 4 89. 3 88. 9 86. 8 86. 8 90. 5 90. 9 95.8 88.4 91.5 98.7 99.0 99.2 99.9 96.6

98. 0 100. 1 102. 3 104. 7 38. 1 37. 3 38. 9 44. 0 46. 7 49. 3 52. 9 71. 3 91. 6 253. 0 252. 1

146. 1

41. 9 43. 6 44. 8 50. 3 51. 1 55. 2 56. 0 74. 6 100. 7 224. 3 267. 4 61. 6 75. 3 76. 2 83. 7 78. 3 74. 9 81. 0 76. 9 67. 2 68. 8 70. 4 75. 0 50. 9 66. 2 80. 7

80. 5 71. 6 68. 4 80. 9 81. 2

60. 1 64. 2

1937 January_____

February March April May

December

¹ Not available.

Table 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

	Tobacco manufactures Pappr								
Month and year	Group i	ndex	Chewing smoking t and sr	obacco	Cigars cigare		Group i	ndex	
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	
923	105. 7	104, 1	102. 7	101. 4	106. 2	104, 5	99, 2	96.	
924	98. 8 95. 5	99. 4 96. 5	102.7	101.6	98. 2	99. 2	99.7	99.	
925 926	90. 9	92. 1	94. 6 93. 1	97. 0 94. 0	95. 6 90. 4	96. 3 91. 8	101. 1 104. 1	104. 110.	
027	93.4	91.0	82.6	84.8	94.9	91, 8	104.1	111.	
)28	90. 7 83. 9	86. 1 81. 8	75. 6 68. 0	77. 4 71. 3	92. 8 86. 0	87. 2 83. 1	105. 0 111. 3	112 119	
930	78.3	72.7	69.8	71.3	79.4	72.9	108.0	114	
031 0	72.1	60. 1	71.9	69. 0	72. 1	58.9	96.3	97	
932	65. 6 63. 1	48. 2 44. 1	71.0	62. 4 56. 0	64.9	46. 4	85. 5	74	
933	66.2	48.8	64. 2 64. 6	59. 7	62. 9 66. 3	42.6 47.5	86. 7 95. 4	68 78	
935	61.3	47. 7	57. 9	59. 7 58. 7	61.6	46. 4	97. 6 100. 8	84	
936	61.0	50.0	56.0	5 9. 5	61.6	48.8	100.8	91	
937	60.8	54. 5	56. 5	66. 7	61. 2	53. 0	106.4	102	
1937						l			
anuary	57. 1	47.1	57. 2	63. 7	57. 0	45. 1	104. 3 105. 7 107. 1	98	
ebruary farch	60, 5 60, 8	52. 6 52. 4	58. 9 57. 0	67. 3 65. 5	60. 6 61. 2	50. 8 50. 8	100.7	100 104	
pril	60, 2	52. 3	56.0	65. 7	60.6	50.7	107. 2	104	
pril 1ay une	59. 9	53. 6	55.9	66.4	60.3	52, 0	107.7	105	
uneuly	60. 1 60. 6	55. 7 55. 8	56. 4 55. 4	69. 4	60. 5 61. 2	54. 0 54. 5	106. 9 106. 0	104 101	
nonst	61, 8	57. 2	55.7	66. 0 66. 3	62. 5	56. 1	106. 3	102	
ugusteptember	62. 1	56. 5	55, 8	70.0	62.8	54. 9	107. 7	103	
otober	62.6	57. 9	56.2	68, 2	63.3	56.6	107. 9	105	
Vovember	62.9 60.8	57. 2 55. 7	56, 7 56, 9	63. 8 67. 9	63. 6 61. 2	56. 4 54. 2	106. 4 104. 1	101 100	
			""	""	\	02.2			
			Paper a	nd prin	ting—Con	tinued			
Month and year	Boxes, paper		Paper and pulp		Printing and publishing, book and job		Printing and publishing, newspapers an periodicals		
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay roll;	
923	100. 0	97. 3	100. 0	98. 4	00.2	05.5		94	
924	99. 5	99. 7	97.3	97. 5	98.3	95. 5 100. 0	98, 9 101. 0	100	
925									
		103.0	102.7	104.1	101.0	104.5	100. 1		
926	102.1	106.9	102. 7 105. 8	104.1 109.1	104.9	112.5	101.7	110	
926 927 928	102. 1 99. 2 96. 3	106. 9 104. 0 102. 0	102. 7 105. 8 102. 2 100. 8	104. 1 109. 1 105. 3 105. 3	104. 9 106. 9 107. 4	112. 5 114. 1	100. 1 101. 7 102. 2 104. 5	110 111	
928 927 928	102. 1 99. 2 96. 3 97. 9	106. 9 104. 0 102. 0 102. 9	102. 7 105. 8 102. 2 100. 8 106. 1	104. 1 109. 1 105. 3 105. 3 112. 5	104. 9 106. 9 107. 4 113. 1	112. 5 114. 1 113. 6 118. 7	101. 7 102. 2 104. 5 111. 0	110 111 113 121	
926 927 928 929 930	102. 1 99. 2 96. 3 97. 9 90. 7	106. 9 104. 0 102. 0 102. 9 91. 6	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6	104. 9 106. 9 107. 4 113. 1 110. 9	112. 5 114. 1 113. 6 118. 7 115. 6	101, 7 102, 2 104, 5 111, 0 109, 9	110 111 113 121 119	
926 927 928 929 930	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8	110 111 113 121 119 108	
926 927 928 929 930 931 931	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 81. 9 89. 0	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 64. 4	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3	112. 5 114. 1 113. 6 118. 7 115. 6	101, 7 102, 2 104, 5 111, 0 109, 9 101, 8 92, 9 93, 4	110 111 113 121 119 108	
926 927 928 929 930 931 932 933	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 81. 9 89. 0 103. 8	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 64. 4 78. 6	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 7	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0	101, 7 102, 2 104, 5 111, 0 109, 9 101, 8 92, 9 93, 4 98, 6	110 111 113 121 119 108 88 78	
926 927 928 929 930 931 931 932 933 934	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 81. 9 89. 0 103. 8 107. 6	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 64. 4 78. 6 88. 0	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 7 86. 8	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0 75. 8	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3	110 111 113 121 119 108 88 78 88	
926 927 928 929 930 931 932 932 933 934	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4 96. 2	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 81. 9 89. 0 103. 8	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 64. 4 78. 6	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 7	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0	101, 7 102, 2 104, 5 111, 0 109, 9 101, 8 92, 9 93, 4 98, 6	110 111 113 121 119 108 88 78 85 88	
926 927 928 929 930 931 932 933 934 935 936 937	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4 96. 2	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 81. 9 89. 0 103. 8 107. 6 109. 4	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 78. 6 88. 0 97. 0	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 7 86. 8 91. 0	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0 75. 8 81. 7	101, 7 102, 2 104, 5 111, 0 1109, 9 101, 8 92, 9 93, 4 98, 6 99, 3 102, 9	110 111 113 121 119 108 88 78 85 88	
926 927 927 928 929 930 931 931 932 933 934 935 936 937	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4 96. 2 102. 4	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5 103. 1	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 89. 5 89. 0 103. 8 107. 6 109. 4 117. 1	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 64. 4 78. 6 88. 0 97. 0 115. 6	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 7 86. 8 91. 0 97. 3	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0 75. 8 81. 7 92. 5	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9 105. 3	110 111 113 121 119 108 88 78 85 88 90 103	
926 927 928 929 930 931 932 933 934 935 936 937 1987	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 83. 0 91. 5 93. 4 96. 2 102. 4	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5 103. 1	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 89. 0 103. 8 107. 6 109. 4 117. 1	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 64. 4 78. 6 88. 0 97. 0 115. 6	104. 9 100. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 8 91. 0 97. 3	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0 75. 8 81. 7 92. 5	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9 105. 3	110 111 113 121 108 88 78 85 88 96 103	
926 927 927 928 929 930 931 932 933 934 935 936 937 1937 anuary	102.1 99.2 96.3 97.9 90.7 81.8 83.0 91.5 93.4 96.2 102.4	106. 9 104. 0 102. 0 102. 0 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5 103. 1	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 89. 0 103. 8 107. 6 109. 4 117. 1	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 78. 6 88. 0 97. 0 115. 6	104.9 106.9 107.4 113.1 110.9 100.7 85.3 78.5 84.7 86.8 91.0 97.3	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0 75. 8 81. 7 92. 5	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9 105. 3	110 111 113 121 108 88 78 85 88 96 103	
926 927 927 928 929 930 931 932 933 934 935 936 937 1937 anuary	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4 100. 1 101. 5 103. 7 104. 0 103. 6	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5 103. 1 98. 0 103. 2 106. 7 107. 9	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 81. 9 89. 0 103. 8 107. 6 109. 4 117. 1 113. 7 116. 1 117. 6 119. 1	104. 1 109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 78. 6 88. 0 97. 0 115. 6	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 7 86. 8 91. 0 97. 3	112.5 114.1 113.6 118.7 115.6 99.1 72.4 60.6 70.0 75.8 81.7 92.5 91.4 91.1 94.2 93.4 94.6	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9 105. 3	110 111 113 121 108 88 788 88 96 103	
926 927 928 928 929 930 931 932 933 934 935 936 937 1957 [anuary	99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4 96. 2 102. 4	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5 103. 1 98. 0 103. 2 106. 7 107. 9 106. 2	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 89. 0 103. 8 107. 6 109. 4 117. 1 113. 7 116. 1 117. 0 119. 1 120. 2	104.1 109.1 105.3 105.3 112.5 104.6 82.1 61.4 64.4 78.6 88.0 97.0 115.6	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 7 86. 8 91. 0 97. 3 96. 2 97. 5 98. 0 96. 9 97. 3	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0 75. 8 81. 7 92. 5 91. 4 91. 1 94. 2 93. 4 94. 6 94. 3	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9 105. 3	110 111 113 121 119 108 88 78 88 96 103 103 103 104 105	
926 927 927 928 929 930 931 932 933 934 935 936 937 1937 fanuary february March April May une	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 83. 0 91. 5 93. 4 96. 2 102. 4	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5 103. 1 98. 0 103. 2 106. 2 106. 2 106. 4 100. 3	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 89. 5 89. 0 103. 8 107. 6 119. 1 111. 7 116. 1 117. 0 119. 1 120. 2 120. 5	104.1 109.1 105.3 105.3 112.5 104.6 82.1 61.4 64.4 78.6 88.0 97.0 115.6 109.9 113.5 116.5 119.6 121.8 124.3	104.9 106.9 107.9 1113.1 110.9 100.7 85.3 78.5 84.7 86.8 91.0 97.3 96.2 97.5 98.0 96.9 97.3	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 60. 6 70. 0 75. 8 81. 7 92. 5 91. 4 91. 1 94. 6 94. 6 94. 6 91. 3	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9 105. 3	110 111 113 119 119 103 88 88 96 103 103 103 104 104 104 104	
926 927 927 928 929 930 931 931 932 933 934 935 936 937 1937 anuary. *Rebruary. March April May. uine uiy. August	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4 96. 2 102. 4	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5 103. 1 98. 0 103. 2 106. 7 107. 9 106. 2	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 89. 5 89. 0 109. 4 117. 1 113. 7 116. 1 117. 6 119. 1 120. 2 120. 5 119. 1	104.1 109.1 105.3 105.3 112.5 104.6 82.1 61.4 64.4 78.6 88.0 97.0 115.6	104. 9 106. 9 107. 4 113. 1 110. 9 100. 7 85. 3 78. 5 84. 7 86. 8 91. 0 97. 3 96. 2 97. 5 98. 0 96. 9 97. 5 98. 6 97. 6	112.5 114.1 113.6 118.7 115.6 99.1 72.4 60.6 70.0 75.8 81.7 92.5 91.4 91.1 94.2 93.4 94.2 93.4 94.3 99.1 89.6	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9 105. 3 103. 4 103. 9 105. 6 106. 6 106. 1 103. 2	110 111 113 119 108 88 78 83 88 96 103 104 104 104 105 106 106 106 106 106 106 106 106 106 106	
926 927 928 928 929 930 931 932 933 934 935 936 937 1987 'anuary	102. 1 99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4 96. 2 102. 4	106. 9 104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5 103. 1 98. 0 103. 2 106. 7 107. 9 106. 2 104. 4 100. 3	102. 7 105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 89. 5 89. 0 103. 8 107. 6 119. 1 111. 7 116. 1 117. 0 119. 1 120. 2 120. 5	104.1 109.1 105.3 105.3 112.5 104.6 82.1 61.4 64.4 78.6 88.0 97.0 115.6 109.9 113.5 116.5 119.6 121.8 124.3	104.9 106.9 107.9 1113.1 110.9 100.7 85.3 78.5 84.7 86.8 91.0 97.3 96.2 97.5 98.0 96.9 97.3	112. 5 114. 1 113. 6 118. 7 115. 6 99. 1 60. 6 70. 0 75. 8 81. 7 92. 5 91. 4 91. 1 94. 6 94. 6 94. 6 91. 3	101. 7 102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9 105. 3	1040 1101 111 111 111 111 111 111 111 11	

TABLE 8.—Employment and Pay-Roll Indexes, Manufacturing Industries—Continued

	Chemicals and allied products											
Month and year	Group index		Other than petroleum refining (sub- group)		Chemicals		Cottonseed— oil, cake, and meal		Druggists' preparations			
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls		
1923	120. 9 96. 8 100. 3 106. 5 104. 5 103. 0 115. 7 109. 4 95. 4 85. 5 97. 5 110. 7 111. 9 114. 6 123. 8	102. 2 96. 4 101. 4 108. 7 107. 8 108. 0 120. 9 112. 2 92. 0 71. 7 76. 2 91. 6 98. 9 107. 8 132. 7	102, 9 96, 9 100, 2 105, 4 102, 8 102, 5 113, 6 105, 6 92, 7 82, 2 95, 4 108, 8 110, 7 113, 8 123, 8	102. 1 97. 0 100. 9 107. 4 106. 8 108. 0 118. 4 106. 6 87. 7 66. 9 72. 5 89. 0 96. 9 106. 4 131. 4	105. 7 98. 0 96. 3 (1) (1) 109. 2 99. 5 85. 1 76. 0 93. 3 114. 9 113. 7 121. 3 134. 1	101. 8 98. 1 100. 1 (1) (1) 120. 0 103. 5 84. 2 64. 6 75. 2 96. 1 101. 7 115. 5 145. 6	87. 8 100. 5 111. 7 (1) 127. 0 (1) 109. 0 (1) 84. 5 95. 2 98. 1 92. 0 78. 0 71. 1 80. 6	83. 9 94. 9 121. 2 (¹) 151. 3 (1) 118. 9 (¹) 88. 5 70. 5 57. 1 61. 6 57. 2 55. 7 72. 1	97. 7 96. 8 105. 5 108. 3 110. 4 106. 6 116. 4 108. 2 103. 2 92. 3 94. 7 105. 2 102. 9 102. 5	91. 8 97. 5 110. 7 113. 4 119. 2 113. 1 124. 4 116. 3 105. 3 85. 3 86. 7 98. 1 102. 0 105. 4		
January February March April May June July August September October November December	121. 9 124. 9 126. 6 124. 5 123. 9 124. 3	119. 4 123. 6 128. 1 136. 4 136. 7 137. 4 136. 8 140. 7 139. 0 137. 5 132. 1 124. 4	120. 4 122. 4 126. 0 127. 7 124. 6 123. 4 123. 5 124. 1 128. 9 126. 7 122. 4 115. 4	119. 4 123. 9 128. 8 136. 2 136. 2 135. 7 134. 9 137. 7 137. 7 136. 1 129. 6 120. 3	130. 8 131. 4 134. 0 135. 6 137. 5 138. 5 139. 5 137. 2 137. 4 135. 2 129. 8 122. 6	131. 8 135. 2 140. 2 150. 6 152. 5 153. 5 156. 1 150. 9 150. 6 141. 7 130. 4	91, 1 82, 1 68, 7 58, 7 47, 8 43, 9 41, 8 54, 3 120, 7 127, 1 121, 0 109, 9	76. 2 67. 3 58. 6 50. 3 42. 3 38. 6 35. 3 47. 9 112. 4 118. 9 113. 0 104. 8	106. 5 110. 0 112. 2 111. 5 108. 3 106. 2 111. 8 114. 1 114. 8 112. 5 110. 5	113. 1 119. 3 121. 2 119. 8 118. 0 121. 3 112. 0 123. 0 127. 3 128. 9 125. 8 124. 0		

		Chemicals and allied products—Continued										
Month and year	Expl	Explosives		Fertilizers		Paints and varnishes		Rayon and allied prod- ucts		Soap		leum ing
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936	108. 5 94. 8 96. 7 98. 7 98. 5 95. 4 95. 3 79. 7 80. 4 63. 6 70. 8 87. 6 81. 8 86. 3 94. 3	109. 5 97. 6 92. 9 92. 2 97. 6 92. 2 102. 0 74. 7 66. 9 43. 9 49. 6 68. 2 70. 6 85. 0 103. 1	100. 5 93. 1 106. 4 112. 8 100. 8 107. 6 113. 4 111. 0 78. 8 56. 5 70. 7 92. 4 88. 3 82. 1 93. 0	99. 1 93. 6 107. 3 118. 4 106. 9 109. 1 108. 3 104. 2 73. 4 43. 7 44. 0 64. 8 69. 1 72. 2 94. 6	95. 6 97. 6 106. 8 (1) 117. 5 (1) 122. 3 (1) 94. 4 87. 3 95. 9 112. 2 120. 0 125. 1 132. 8	91, 6 99, 8 108, 6 (1) 123, 3 (1) 129, 6 (1) 90, 3 71, 1 73, 0 89, 5 101, 9 114, 5 132, 6	87. 3 93. 1 119. 6 (1) 164. 8 (1) 244. 4 242. 2 241. 9 214. 3 276. 7 302. 3 337. 0 348. 7 381. 2	91. 3 95. 5 113. 2 (¹) 141. 2 (220. 2 220. 2 214. 1 188. 4 146. 2 190. 3 227. 3 265. 9 289. 4 367. 2	104. 9 100. 0 95. 1 (1) 82. 9 (1) 88. 6 (2) 87. 4 82. 7 88. 3 98. 6 99. 2 98. 5 103. 3	105. 7 100. 0 94. 3 (1) 100. 3 (1) 96. 7 (1) 90. 2 74. 4 71. 9 85. 5 93. 9 97. 0 117. 2	103. 0 96. 1 100. 9 110. 8 109. 9 104. 7 124. 4 116. 2 98. 7 106. 5 118. 3 116. 7 118. 3 123. 7	102.3 94.6 103.1 112.7 111.9 108.3 129.2 130.4 105.8 87.5 88.4 100.3 105.6 112.4
January February March April May June July August September October November December	94. 0 93. 2 90. 2 92. 4 90. 7 94. 8 95. 3 95. 8 97. 6 97. 3 95. 4 94. 7	97, 8 93, 0 97, 5 107, 6 103, 2 103, 0 103, 8 107, 1 106, 4 110, 5 106, 6 100, 3	87. 1 96. 1 135. 9 151. 6 104. 6 75. 7 69. 8 73. 2 84. 6 80. 5 75. 3 81. 6	77. 8 86. 9 127. 6 150. 9 116. 2 79. 2 77. 1 79. 0 97. 2 83. 2 77. 4 82. 3	128. 0 131. 2 134. 6 138. 2 140. 2 138. 9 136. 3 132. 8 132. 4 131. 6 128. 0 121. 1	120. 3 127. 2 133. 1 142. 1 145. 0 142. 7 138. 3 135. 4 131. 6 134. 1 124. 8 116. 1	367. 6 370. 4 373. 3 378. 1 384. 0 391. 4 401. 0 403. 4 407. 1 387. 5 374. 0 336. 8	338. 1 344. 5 349. 7 364. 8 382. 0 391. 8 392. 9 400. 7 393. 6 374. 9 360. 3 313. 5	100. 3 109. 8 111. 0 107. 6 103. 3 102. 5 102. 4 101. 9 103. 1 102. 8 100. 4 94. 6	107. 1 124. 5 123. 2 116. 4 113. 8 115. 1 116. 9 117. 7 122. 1 121. 1 116. 9 111. 2	119. 4 119. 6 120. 5 122. 0 124. 1 126. 0 127. 5 128. 2 127. 2 125. 7 123. 9 120. 2	119, 5 122, 7 125, 6 137, 0 138, 3 143, 0 143, 1 150, 5 143, 1 142, 3 140, 4 137, 9

¹ Not available.

TABLE 8.-Employment and Pay-Roll Indexes, Manufacturing Industries-Continued

	Rubber products									
Month and year	Group	Group index		boots noes	Rubber other t boots, s tires, and tub	han hoes, linner	Rubber tires and inner tubes			
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- men t	Pay rolls		
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937	102. 6 91. 8 105. 6 105. 1 105. 7 111. 1 111. 0 85. 9 67. 6 79. 1 88. 4 90. 8 97. 3	101. 0 92. 9 106. 1 107. 0 110. 0 117. 5 115. 1 84. 7 62. 5 47. 4 55. 0 68. 8 74. 2 87. 6 96. 8	117. 0 83. 6 99. 4 103. 0 106. 8 105. 0 102. 1 82. 0 72. 0 76. 8 67. 5 74. 0 74. 2	118, 7 82, 3 99, 0 101, 7 113, 2 107, 1 105, 6 42, 4 51, 0 55, 4 51, 2 59, 9 67, 1	103. 1 91. 6 105. 3 (1) 110. 3 (1) 120. 3 (1) 102. 3 91. 3 105. 3 114. 3 116. 6 124. 7	100. 1 92. 7 107. 2 (1) 115. 5 (1) 126. 4 (1) 89. 9 68. 1 75. 3 87. 7 98. 3 114. 4 137. 3	97. 7 94. 5 107. 8 105. 4 103. 3 109. 9 110. 0 79. 0 64. 9 59. 8 69. 9 80. 9 81. 5 87. 2	96. 8 95. 7 107. 5 107. 2 107. 0 116. 8 113. 2 79. 3 56. 2 41. 2 48. 8 65. 5 71. 4 85. 1 89. 9		
January February March April May June July August September October November December	101. 3 101. 6 96. 7 96. 7 103. 6 101. 2 96. 2 97. 9 98. 0 97. 7 90. 9 86. 0	99. 4 104. 4 99. 8 100. 3 109. 2 103. 8 96. 8 97. 0 97. 4 94. 3 82. 0 77. 1	77. 3 73. 3 80. 2 76. 0 76. 3 72. 5 61. 8 77. 1 78. 7 77. 5 71. 9 68. 0	66. 8 64. 9 72. 2 68. 2 72. 7 69. 7 73. 2 75. 9 70. 4 62. 1 54. 6	138. 7 141. 5 144. 2 147. 1 146. 6 142. 1 136. 7 135. 1 134. 7 137. 3 128. 2 120. 9	136. 3 141. 2 146. 0 150. 5 153. 5 144. 9 135. 8 134. 1 132. 6 139. 5 121. 7	92. 7 93. 4 81. 2 81. 4 93. 7 92. 7 89. 7 88. 4 88. 3 87. 0 80. 8 76. 6	94, 6 101, 3 90, 4 90, 5 102, 7 97, 9 93, 6 89, 8 90, 4 84, 3 72, 9 70, 8		

¹ Not available.

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in November and December 1937, is shown in table 9 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 89 manufacturing industries presented in table 4. The totals for all groups combined include all manufacturing industries, each of the nonmanufacturing industries presented in table 4 except building construction, and seasonal hotels.

Table 9.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1937 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]

		Tota	al—all g	roups			Ma	nufactu	ring	
Geographic division and State	Num- ber of estab- lish- ments	Number on pay roll Decem- ber 1937	Per- cent- age change from No- vem- ber 1937	Amount of pay roll (1 week) December 1937	Percent- age change from No- vem- ber 1937	Number of establishments	Number on pay roll Decem- ber 1937	Per- cent- age change from No- vem- ber 1937	Amount of pay roll (1 week) Decem- ber 1937	Per- cent- age change from No- vem- ber 1937
New England Maine New Hamp-	13, 403 810	843, 727 51, 159	-2.5 +1.1	Dollars 18, 726, 717 1, 022, 069	-2.8 +5.3	3, 552 291	557, 297 39, 658	-5.2 +.4	Dollars 11, 656, 259 747, 711	-5.1 +6.1
shire	620 475 1 8, 304 1, 257 1, 937 32, 627	35, 185 15, 526 461, 933 84, 554 195, 370 2, 170, 648	-2.9 -5.5 -1.9 -1.9 -4.7 -1.9	668, 520 335, 520 10, 516, 451 1, 788, 035 4, 396, 122 55, 919, 627	3 2 -2.9 +5.6 -7.5 -2.7	205 144 1,753 417 742 5,446	27, 532 9, 012 256, 257 64, 267 160, 571 1, 195, 159	— J. J	29, 091, 741	6 -2.6 -6.0 +6.7 -10.1 -6.5
New Jersey	20, 666 4, 281 7, 680 24, 467 7, 975 2, 564 5 6, 361	345, 682 859, 541 2, 276, 576 620, 449 262, 229 626, 782	+.1 -3.0 -3.6 -4.7 -2.1 -6.8 -2.5	4, 396, 122 55, 919, 627 26, 491, 014 8, 870, 062 20, 558, 551 57, 542, 749 15, 313, 027 6, 118, 095 16, 262, 266 13, 699, 356 6, 150, 005 10, 379, 848 2, 284, 911	3.2 -5.3 -10.1 -7.0 -11.6 -3.4	2, 266 3 840 2, 340 8, 324 2, 532 926 2, 455	438, 333 203, 326	-4.1 -4.6 -6.0 -8.1 -6.1 -10.2 -5.3	11, 312, 224 6, 220, 787 11, 558, 730 45, 697, 763 10, 840, 696 4, 746, 260 10, 710, 531	-3. 8 -4. 4 4-10. 5 -15. 6 -11. 7 -15. 4 -6. 7
Michigan Wisconsin West North Central Minnesota Iowa Missouri North Dakota	3, 833 6 3, 734	516, 626 250, 490 433, 160 87, 316 64, 327 172, 441 4, 982	-9.5 -3.5 7 -2.6 -1.0 +.5	13, 699, 356 6, 150, 005 10, 379, 848 2, 284, 911 1, 527, 953 3, 975, 168 126, 241	-20.0 -7.7 -2.4 -2.7 -2.0 -2.2 -1.9	971 7 1, 460 2, 412 414 403 878 54	419, 406 533, 152 171, 337 207, 156 38, 981 36, 304 91, 001 631	-11.6 4 -4.3 -3.7 -8.2 -2.0 -1.9 9	15, 166, 356 4, 253, 920 4, 882, 340 1, 037, 488 876, 377 1, 919, 530 18, 204	-24. 4 -7. 2 -5. 8 -6. 2 -4. 2 -6. 5 -4. 8
South Dakota Nebraska Kansas South Atlantic Delaware Maryland District of Co-	1, 524 1, 524 8 2, 347 11, 017 214 1, 576	7, 557 34, 979 61, 558 851, 141 15, 092 134, 204	-2.8 5 7	201, 005 820, 470 1, 444, 100 16, 454, 768 371, 678 9, 057, 795	-2.1 -2.9	36 164 463 2, 789 85 596	2, 084 11, 775 26, 380 547, 741 10, 953 87, 681	-9.3 -6.9 -3.3 -3.6 -5.6 4 -6.9	56, 577 290, 726 683, 438 9, 412, 765 268, 149 1, 927, 379	-4.4 -11.0 -2.9 -7.2
lumbia	1, 167 2, 131 1, 237 1, 412 781 1, 497 1, 062	45, 459 118, 032 146, 334 151, 053 78, 058 111, 974 50, 935	+7.9 1 -4.0 -2.8 -2.4 -1.3 +10.7	1, 167, 377 2, 263, 963 3, 605, 271 2, 233, 391 1, 080, 432 1, 766, 706 908, 155	+7.6 +.2 -5.9 -2.6 -7.3 -2.0 +8.4	35 465 266 571 212 369 196	3, 010 79, 088 56, 348 135, 017 69, 437 84, 341 21, 866	+. 2 -1. 3 -6. 8 -3. 4 -2. 7 -2. 5 +5. 6	103, 643 1, 464, 599 1, 270, 789 1, 959, 282 918, 129 1, 152, 308 348, 487	+1.6 9 -16.6 -3.0 -8.5 -4.5
East South Central Kentucky Tennessee Alabama Mississippi West South Central Arkansas	4, 645 1, 320 1, 434 1, 270 621 4, 893 10 788	295, 007 84, 597 100, 643 89, 323 20, 444 208, 372 28, 915	-1.7 -1.4 -2.9 +.3 -5.0 -1.9	5, 309, 623 1, 762, 018 1, 735, 059 1, 494, 829 317, 717 4, 741, 868 509, 326	-3. 1 -2. 2 -6. 1 6 -2. 8 -1. 7 -2. 4	1, 003 295 373 239 96 1, 142 248	179, 252 33, 933 71, 987 60, 757 12, 575 98, 375 18, 060	-4.3 -6.7 -5.3 6 -8.5 -5.8 -1.4	2, 950, 215 662, 289 1, 168, 531 948, 644 170, 751 2, 082, 877 296, 681	-6.1 -3.7 -9.8 -2.7 -6.9 -5.2 -2.1
Louisiana Oklahoma Texas Mountain Montana Idaho	1, 033 1, 392 11 1, 735 4, 259 684 463	48, 238 44, 893 86, 326 141, 990 20, 484 11, 689	-2.9 -1.8 -1.4 -4.4 -8.2 -11.6	936, 690 1, 121, 802 2, 174, 050 3, 789, 975 602, 514 295, 706	-2.5 8 -1.7 -5.8 -9.5 -14.1	226 142 526 547 78 51	23, 930 11, 851 44, 534 41, 220 5, 522 3, 652	-8.4 -4.9 -5.1 -12.6 -6.5 -25.5	396, 394 283, 163 1, 106, 639 1, 010, 269 141, 027 76, 008	-9.1 -3.7 -5.0 -16.6 -10.5 -36,4
W yoming	324 1, 229 314 468 588 189	10, 263 48, 359 7, 012 17, 781 23, 100 3, 302 428, 224	-2.3 -2.5 -1.4 +.2 -5.9	310, 507 1, 221, 296 158, 371 467, 322 583, 702 100, 547 11, 919, 824	(12) -3.6 5 -4.0 -7.5 -5.5 -2.2	39 183 31 40 101 24	2, 169 17, 564 728 2, 808 7, 891 886 216, 022	-10.6 -10.5 -12.8 -4.8 -17.3 -6.6 -9.5	66, 964 418, 219 13, 057 72, 216 196, 017 26, 761 5, 807, 596	-11.6 -16.1 -10.7 -5.1 -18.6 -6.8 -8.6
Pacific Washington Oregon California	9,577 2,949 1,375 13 5,263	92, 018 47, 636 288, 570	-5.6 -7.4	2, 370, 514 1, 188, 356 8, 360, 954	-6.6 -8.4	2,471 546 303 14 1,622	45, 962 25, 058 145, 002	-9. 5 -12. 4 -14. 9 -7. 5	1, 099, 827 561, 933	-14.0 -16.8 -5.8

¹ Includes banks and trust companies, construction, municipal, agricultural, and office employment, amusement and recreation, professional services, and trucking and handling.

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

3 Includes automobiles, and miscellaneous services, restaurants, and building and contracting.

4 Includes onstruction, but not public works.

5 Does not include logging.

6 Includes financial institutions, miscellaneous services, and restaurants.

8 Weighted percentage change including hired farm labor.

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

11 Includes business and personal service.

12 Less than 1/10 of 1 percent.

13 Includes banks, insurance, and office employment.

14 Includes crude-petroleum producing.

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in November and December 1937 is made in table 10 for 13 metropolitan areas which had a population of 500,000 or over in 1930. Cities within these areas, but having a population of 100,000 or over are not included as data concerning them are tabulated separately and are available on request. Footnotes in the table indicate which cities are excluded. ures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 4, with the exception of building construction, and include also miscellaneous industries.

Table 10.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1937 by Principal Metropolitan Areas

Metropolitan area	Number of estab- lishments	Number on pay roll December 1937	Percentage change from November 1937	Amount of pay roll (1 week) December 1937	Percentage change from November 1937
New York ¹ Chicago ² Philadelphia ³ Detroit Los Angeles ⁴ Cleveland St. Louis Baltimore Boston ⁵ Pittsburgh San Francisco ⁶ Buffalo. Milwaukee	4, 428 2, 303 1, 658 2, 868 1, 747 1, 571 1, 178 1, 543	646, 945 474, 787 205, 758 328, 409 154, 386 145, 381 130, 380 110, 522 108, 728 202, 217 87, 008 61, 522 106, 036	+0. 4 -2. 3 -2. 6 -10. 6 -1. 1 +. 6 -2. 5 7 9 -6. 5 +. 9 -6. 5 -3. 6	\$17, 184, 236 12, 928, 278 5, 507, 514 9, 277, 753 4, 297, 217 3, 667, 410 3, 052, 125 2, 623, 434 2, 925, 705 4, 867, 850 2, 616, 407 1, 619, 797 2, 776, 699	+0.8 -3.2 -2.6 -20.6 5 -4.3 -6.0 -4.4 +.2 -10.0 +1.5 -8.6 -7.4

Public Employment

Employment created by the Federal Government includes employment in the regular agencies of the Government, employment on the various construction programs wholly or partially financed by Federal funds, and employment on relief-work projects.

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 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. Public Works Administration was continued until July 1, 1939, by the Public Works Administration Extension Act of 1937.

Does not include Elizabeth, Jersey City, Newark, or Paterson, N. J.; nor Yonkers, N. Y.
 Does not include Gary, Ind.
 Does not include Camden, N. J.
 Does not include Long Beach, Calif.
 Figures relate only to city of Boston.
 Does not include Oakland, Calif.

By authority of Public Resolution No. 11, Seventy-fourth Congress, approved April 8, 1935, the President, in a series of Executive orders, inaugurated a broad program of work to be carried out by 61 units of the Federal Government. The Works Program was continued by title II of the First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, and was further continued by the Emergency Relief Appropriation Act of 1937. ployment created by this program includes employment on Federal projects and employment on projects operated by the Works Progress Administration. Federal projects are those conducted by Federal agencies which have received allotments from The Works Program Projects operated by the Works Progress Administration are those projects conducted under the supervision of the Works Progress Administration with the cooperation of States, cities, or counties.

The Civilian Conservation Corps, created in April 1933, was further extended under the authority of the Emergency Relief Appropriation Act of 1935. During the fiscal year 1937 the Civilian Conservation Corps was continued from appropriations authorized by the First Deficiency Appropriation Act of 1936. Beginning with July 1, 1937, the Civilian Conservation Corps was continued for 3 years by an act of Congress.

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in November and December 1937 are given in table 11.

TABLE 11.—Employment and Pay Rolls for the Executive Service of the United States Government, November and December 1937 1 [Subject to revision]

Employment Pay rolls Per-Per-Item centage centage Novemchange December November 2 change ber ber 2 Entire service: \$137, 217, 360 120, 397, 119 8, 605, 128 8, 215, 113 \$124, 664, 980 107, 340, 280 8, 935, 035 8, 389, 665 +10.07 +12.16 -3.69 -2.08821, 271 685, 022 66, 178 889, 550 +8.31+10.58 -3.91 -2.34 757, 529 63, 593 68, 428 Regular appropriation 70, 071 114, 120 93, 885 14, 501 5, 734 20, 191, 679 17, 144, 647 2, 157, 301 889, 731 112, 176 +1.73 +1.49 19, 614, 936 +2.72 +5.41 +1.3392, 507 13, 799 5, 870 16, 690, 302 2, 046, 553 Regular appropriation.... +5.09 -2.32Emergency appropriation..... 878, 081 Force-account. Outside the District of Columbia: 775, 430 663, 644 49, 092 62, 694 105, 050, 044 90, 649, 978 6, 888, 482 7, 511, 584 709, 095 117, 025, 681 103, 252, 472 6, 447, 827 Total 592, 515 52, 379 64, 201 +12.00 +13.90Regular appropriation. -6.28 -2.35-6.40 -2.48Emergency appropriation.... Force-account....

Inside the District of Columbia:

The monthly record of employment in the executive service of the United States Government from December 1936 to December 1937, inclusive, is shown in table 12.

¹ Data includes number of employees receiving pay during the last pay period of the month.

TABLE 12.—Employment in the Executive Service of the United States Government, by Months, December 1936 Through December 1937 1

Month	District of Columbia	Outside District of Columbia	Total	Month	District of Columbia	Outside District of Columbia	Total
1936 December. 1937 January February March	116, 345 116, 259 116, 259 116, 535	712, 962 713, 924 710, 462 713, 047	829, 307 830, 183 826, 721 829, 582	June	111, 981 110, 942 111, 301 111, 296 110, 808	758, 756 738, 121 731, 805 725, 339 717, 654	870, 737 849, 063 843, 106 836, 635 828, 462
April May	116, 755 116, 274	718, 884 724, 247	835, 639 840, 521	November 2 December	112, 176 114, 120	709, 095 775, 430	821, 27 889, 550

From June 1937 data include number of employees receiving pay during the last pay period of the month. 2 Revised.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

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

Table 13.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, December 1937 1

All projects 3 Building construction Naval vessels 3	Wage 6 kimum mber doyed 2 Fed 18, 587 3, 291 4, 893 (5) 2, 066	Weekly average leral projects 17, 150 2, 688 4, 782	\$1,904,304 379,571	Number of man-hours worked during mouth m N. I. R. A 2, 364, 456 335, 267	\$0.805	Value of material orders placed dur- ing month			
All projects 3 Building construction Naval vessels Public roads 4	Fed 18, 587 3, 291 4, 893 (5)	average leral projects	pay-roll disbursements financed fro \$1,904,304 379,571	worked during month m N. I. R. A 2,364,456	earnings per hour funds	orders placed dur- ing month			
All projects 3 Building construction Naval vessels Public roads 4	Fed 18, 587 3, 291 4, 893 (5)	average leral projects	disburse- ments financed fro \$1,904,304 379,571	during month m N. I. R. A 2, 364, 456	ings per hour . funds	placed dur- ing month			
All projects 3 Building construction Naval vessels Public roads 4	Fed 18, 587 3, 291 4, 893 (5)	average leral projects	ments financed fro \$1,904,304 379,571	month m N. I. R. A 2, 364, 456	per hour . funds	ing month			
All projects 3 Building construction Naval vessels Public roads 4	18, 587 3, 291 4, 893 (5)	17, 150 2, 688 4, 782	\$1,904,304 379,571	month m N. I. R. A 2, 364, 456	hour . funds \$0.805				
Building construction	3, 291 4, 893 (5)	2, 688 4, 782	\$1,904,304 379,571	m N. I. R. A	\$0.805	\$1, 439, 209			
Building construction	3, 291 4, 893 (5)	2, 688 4, 782	\$1,904,304 379,571	2, 364, 456	\$0.805	\$1, 439, 209			
Building construction	3, 291 4, 893 (5)	2, 688 4, 782	379, 571			\$1,439,209			
Naval vessels Public roads 4	4, 893 (5)	4, 782		335 267					
Naval vessels Public roads 4	4, 893 (5)	4, 782			1.132	539, 203			
Public roads 4			634, 030	727, 098	, 872	109, 704			
Declamation	2 066	5, 491	341, 638	639, 867	. 534	275,000			
reciamation		1, 934	237, 639	289, 521	. 821	420, 388			
River, harbor, and flood control	2, 583	2, 033	290, 141	350, 442	, 828	88, 215			
Miscellaneous	263	222	21, 285	22, 261	. 956	6,699			
	Non-Federal projects financed from N. I. R. A. funds								
All projects	15, 903	13, 083	\$1, 400, 323	1, 389, 384	\$1.008	\$2, 475, 905			
Building construction	6, 834	5, 670	648, 833	559, 977	1.159	1, 147, 030			
Railroad construction	64	64	224	445	. 503	0			
Streets and roads	1,240	998	59, 608	80, 635	. 739	110, 776			
Water and sewerage	6, 171	5, 016	593, 914	590, 777	1,005	1, 041, 123			
Miscellaneous	1,594	1, 335	97, 744	157, 550	. 620	176, 976			
I	Projects	financed from	m E. R. A. A	. 1935, 1936,	and 193	7 funds 6			
All projects 7	70, 228	57, 932	\$5, 685, 040	6, 734, 009	\$0.844	\$9, 538, 378			
Building construction 7	35, 411	29, 013	3, 046, 998	3, 162, 275	. 964	4, 579, 088			
Electrification.	604	501	39, 900	53, 212	. 750	107, 883			
Heavy engineering	5, 931	5, 052	527, 712	662, 881	. 796	915, 765			
Reclamation	698	641	79, 235	95, 427	.830	137, 561			
River, harbor, and flood control	129	93	2, 737	6, 128	. 447	5, 311			
Streets and roads	14,090	11, 410	839, 807	1, 371, 055	. 613	1, 420, 289			
	12,001	10,069	996, 711	1, 204, 047	. 828	2, 161, 093			
Miscellaneous	1, 364	1, 153	151, 940	178, 984	849_	211, 388			

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

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

agency doing force-account work.

§ Includes weekly average for public roads.

§ Under the jurisdiction of the Bureau of Public Roads.

§ Not available; weekly average included in total for all projects.

§ These data are also included in separate tables covering projects financed by The Works Program.

§ Includes a maximum of 8,331 and an average of 6,748 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds who were paid \$879,347 for 833,606 man-hours of labor. Material orders in the amount of \$725,399 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

Federal construction projects for which data are included in tables 13 and 14 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-cost housing program now under way, however, is financed by funds provided under the Emergency Relief Appropriation Act of 1935. 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, or the First Deficiency Appropriation Act of 1936. Most of the allotments have been made to the States and their political subdivisions, but occasionally allotments have been made to commercial firms. 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. When funds provided under the Emergency Relief Appropriation Act of 1935 or the First Deficiency Appropriation Act of 1936 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.

MONTHLY TREND

A summary of employment, pay rolls, and man-hours worked on projects financed from Public Works Administration funds from July 1933 to December 1937, inclusive, is given in table 14.

Table 14.—Employment and Pay Rolls, July 1933 to December 1937, Inclusive, on Projects Financed From Public Works Administration Funds 1

Year and month	Maximum number of wage earners 2	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
July 1933 to December 1937 3		\$1, 052, 471, 011	1, 537, 861, 240	\$0. 684	\$1, 833, 113, 302
July to December 1933. January to December 1934. January to December 1935 3. January to December 1936 3.		33, 244, 066 308, 393, 662 270, 548, 829 271, 331, 937	62, 209, 479 523, 484, 012 392, 127, 344 353, 259, 435	. 534 . 589 . 690 . 768	75, 587, 773 4 610, 009, 718 4 439, 244, 485 4 432, 513, 423
1937 3 January February March April May June	174, 990 173, 574 192, 201	15, 439, 981 13, 796, 390 13, 353, 904 15, 242, 390 15, 850, 554 16, 430, 649	18, 768, 676 16, 580, 393 16, 341, 250 19, 068, 352 19, 984, 975 20, 510, 465	. 823 . 832 . 817 . 799 . 793 . 801	26, 922, 308 19, 390, 733 20, 652, 435 26, 135, 173 32, 077, 717 26, 151, 770
July	187, 822 166, 958 149, 564 121, 102	16, 250, 846 15, 426, 466 14, 309, 249 12, 903, 311 10, 959, 110 8, 989, 667	20, 057, 290 19, 115, 326 17, 382, 805 15, 551, 087 12, 932, 502 10, 487, 849	. 810 . 807 . 823 . 830 . 847 . 857	24, 945, 172 25, 714, 152 23, 527, 633 20, 924, 319 15, 862, 999 13, 453, 492

THE WORKS PROGRAM

A detailed record of employment, pay rolls, and man-hours worked on projects financed by The Works Program in December is shown in table 15, by type or project.

Table 15.—Employment and Pay Rolls on Projects Financed by The Works Program December 1937 1

[Subject to revision]

	Wage e	earners		Number of		Walne of
Type of project	Maxi- mum number employed	Weekly average	Monthly pay-roll disburse- ments	man-hours worked during month	Average earnings per hour	Value of material orders placed dur- ing month
			Federa	l projects		
All projects	² 186, 133	168, 176	\$10, 173, 186	19, 720, 376	\$0.516	\$4, 845, 965
Building construction. Electrification. Forestry ³ . Grade-crossing elimination ⁴ . Hydroelectric power plants ⁵ .	52, 866 779 14, 338 10, 100 4, 264	48, 295 650 12, 078 8, 035 3, 838	3, 011, 317 51, 902 596, 481 585, 561 131, 789	5, 420, 321 86, 042 1, 445, 036 938, 814 590, 982	. 556 . 603 . 413 . 624 . 223,	831, 770 207, 638 111, 949 915, 08 31, 000
Plant, crop, and livestock conserva- tion 3. Professional, technical, and clerical. Public roads 4. Reclamation.	13, 723 7, 485 10, 523	13, 026 7, 133 8, 340	648, 984 510, 549 548, 626	1, 716, 498 948, 307 965, 952	. 378 . 538 . 568	135, 44 38, 70 933, 45
Retraination River, harbor, and flood control Streets and roads Water and sewerage Miscellaneous	5, 758	43, 517 15, 261 5, 007 1, 037 1, 959	2, 781, 334 938, 182 241, 522 34, 526 92, 413	5, 303, 963 1, 422, 206 541, 390 127, 023 213, 844	. 524, . 660 . 446 . 272 . 432	1, 211, 90 258, 39 85, 90 31, 74 52, 96

See footnotes at end of table.

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 projects.
 Includes employees working on non-Federal projects financed from E. R. A. A. 1935 and 1936 funds and low-cost housing projects financed from E. R. A. A. 1935 funds. These data are also included in separate tables covering projects financed by The Works Program.
 Includes orders placed by railroads for new equipment.
 Includes employees working on non-Federal projects financed from E. R. A. A. 1937 funds. These data are also included in separate tables covering projects financed by The Works Program.

Table 15.—Employment and Pay Rolls on Projects Financed by The Works Program December 1937 1-Continued

	Wage	arners	Monthly	Number of		Value of	
Type of project	Maxi- mum Weekly pay-roll disburse- durin		man-hours worked during month	Average earnings per hour	material orders placed dur- ing month		
	P. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds ⁶						
All projects	2 70, 228	57, 932	\$5, 685, 040	6, 734, 009	\$0.844	\$9, 538, 378	
Building construction Electrification Heavy engineering Reclamation River, harbor, and flood control Streets and roads Water and sewerage Miscellaneous	604 5,931	29, 013 501 5, 052 641 93 11, 410 10, 069 1, 153	3, 046, 998 39, 900 527, 712 79, 235 2, 737 839, 807 996, 711 151, 940	3, 162, 275 53, 212 662, 881 95, 427 6, 128 1, 371, 055 1, 204, 047 178, 984	. 964 . 750 . 796 . 830 . 447 . 613 . 828 . 849	4, 579, 084 107, 883 915, 761 137, 563 5, 311 1, 420, 284 2, 161, 093 211, 386	
	Projects operated by Works Progress Administration ?						
All projects	1, 668, 085		\$84,570, 148	162, 858, 030	\$0. 519	(8)	
Conservation Highway, road, and street Housing Professional, technical, and clerical Public buildings Publicial facilities Recreational facilities Sanitation and health Sewing, canning, gardening, etc. Transportation Not elsewhere classified	1, 578 195, 166 166, 899 155, 132 143, 455 51, 711 185, 157 30, 026		27, 485, 300 113, 324 13, 531, 223 9, 358, 532 8, 203, 304 7, 780, 454 2, 283, 394 8, 118, 734	6, 025, 747 58, 791, 749 162, 858 20, 357, 254 14, 168, 649 15, 308, 655 13, 191, 500 5, 211, 457 20, 357, 254 2, 768, 586 6, 514, 321	. 505 . 468 . 696 . 665 . 661 . 536 . 590 . 438 . 399 . 611		

Statistics on employment, pay rolls, and man-hours worked on National Youth Administration work projects and Student Aid in December are shown in table 16, by type of project.

i Unless otherwise noted 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.

The date for the Bureau of Entomology and Plant Quarantine, under plant, crop, and livestock conservation and the Bureau of Forest Service, under forestry, are for the calendar month.

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

These data are for projects under construction in Puerto Rico.

Includes data for 61,897 employees working on non-Federal projects and 8,331 employees working on low-cost housing projects. These data are included in separate tables covering projects under the jurisdiction of P. W. A.

Data are for the calendar month.

Data on a monthly basis are not available.

Exclusive of buildings.

Table 16.—Employment and Pay Rolls on National Youth Administration Projects Financed by The Works Program, December 1937 1

Type of program	Number of persons employed	Monthly pay-roll disburse- ments	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
Total	426, 060	\$4. 236, 665	13, 076, 042	\$0.324	
Work projectsStudent Aid	137, 929 288, 131	2, 397, 423 1, 839, 243	6, 376, 430 6, 699, 612	. 376 . 275	(2) (3)

These data are for the calendar month.

MONTHLY TREND

Employment, pay rolls, and man-hours worked on projects financed by The Works Program from the beginning of the program in July 1935 to December 1937, inclusive, are given in table 17.

Table 17.-Employment and Pay Rolls July 1935 to December 1937, Inclusive, on Projects Financed by The Works Program 1

Month and year	Maximum number employed ²	Pay-roll dis- bursements	Number of man-hours worked	Average earnings per hour	Value of ma- terial orders placed
		Fed	eral projects		
July 1935 to December 1937, inclusive 3		\$421, 757, 458	888, 294, 764	\$0.475	\$262, 841, 149
July to December 1935 January to December 1936		34, 813, 554 234, 065, 335	77, 558, 683 515, 733, 359	. 449	34, 358, 011 147, 745, 408
January. February. March. April. May. June. July. August. September. October. November. December.	267, 525 249, 690 254, 524 266, 686 284, 893 262, 487 207, 331 193, 114 192, 631	15, 652, 964 13, 024, 133 12, 504, 895 13, 432, 725 14, 154, 856 14, 794, 640 12, 799, 774 12, 004, 981 11, 500, 978 11, 452, 256 10, 857, 382 10, 173, 186	32, 064, 351 27, 260, 313 25, 666, 281 26, 680, 307 27, 170, 573 28, 754, 978 24, 371, 372 21, 623, 626 20, 583, 498 20, 335, 431 19, 511, 587 19, 720, 376	. 488 . 478 . 487 . 503 . 521 . 515 . 555 . 559 . 563 . 556 . 516	7, 595, 246 6, 874, 851 7, 356, 372 6, 901, 508 7, 563, 201 8, 608, 759 7, 041, 736 6, 929, 085 5, 566, 224 6, 261, 009 5, 193, 777 4, 845, 962

<sup>Data are not available on a monthly basis.
No expenditures for materials on this type of project.</sup>

¹ Unless otherwise noted data are for the month ending on the 15th.
² Maximum number employed during any 1 week of the month on Federal and P. W. A. projects by ach contractor and Government agency doing force-account work.
³ Since in November 1937, some reports were changed to a calendar-month basis, the total includes some data for the period October 16 through October 31, 1937, which are not shown in the monthly figures. These data consist of \$525,799 in pay-rolls and 1,260,029 man-hours.

Table 17.—Employment and Pay Rolls July 1935 to December 1937, Inclusive, on Projects Financed by The Works Program—Continued

				_		
Month and year	Maximum number employed ²	Pay-roll dis- bursements	Number of man-hours worked	Average earnings per hour	Value of ma- terial orders placed	
	P. W. A.	projects finance]	d from E. R. A 937 funds 4	. A. 1935	, 1936, and	
July 1935 to December 1937, inclusive		\$232, 533, 433	298, 388, 793	\$0.779	\$425, 552, 509	
July to December 1935		1, 132, 784 123, 396, 077	1, 718, 758 163, 682, 866	. 659 . 754	2, 095, 506 229, 999, 173	
January 1937 February March April May June	115, 214 113, 930 129, 887 139, 561	9, 346, 663 8, 428, 606 8, 254, 306 9, 618, 255 10, 339, 137 10, 960, 950	11, 390, 883 10, 212, 726 10, 147, 405 12, 027, 623 13, 049, 326 13, 655, 399	. 821 . 825 . 813 . 800 . 792 . 803	16, 361, 268 13, 543, 480 14, 486, 389 18, 563, 586 20, 996, 436 18, 813, 454	
July	131, 547 114, 803	10, 811, 528 10, 183, 970 9, 309, 180 8, 252, 933 6, 814, 004 5, 685, 040	13, 339, 272 12, 808, 735 11, 411, 949 10, 100, 289 8, 109, 553 6, 734, 009	. 811 . 795 . 816 . 817 . 840 . 844	18, 542, 402 19, 420, 304 16, 065, 674 15, 681, 287 11, 445, 172 9, 538, 378	
	Projects operated by Works Progress Administration 5					
July 1935 to December 1937, inclusive		\$3, 018, 622, 122	6, 299, 811, 920	\$0.479	6\$948, 201, 876	
July to December 1935		238, 018, 075 1, 592, 942, 964	570, 184, 607 3, 432, 621, 686	. 417 . 464		
January 1937 January February March April May June July August September October November December	2, 255, 067 2, 216, 499 2, 201, 404 2, 133, 472 2, 020, 218 1, 802, 659 1, 601, 054 1, 536, 029 1, 527, 604 1, 566, 697	115, 065, 444 116, 256, 506 117, 124, 860 114, 004, 768 112, 382, 869 106, 975, 172 92, 967, 642 82, 861, 644 81, 250, 907 81, 486, 784 82, 714, 339 84, 570, 148	223, 245, 896 233, 853, 339 230, 166, 494 225, 291, 463 217, 780, 857 205, 215, 318 177, 161, 345 159, 050, 326 153, 858, 375 153, 731, 640 157, 792, 544 162, 858, 030	. 504 . 509 . 506 . 516 . 521		

⁴ These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for December include 61,897 employees working on non-Federal projects and 8,331 employees working on low-cost housing projects.

⁶ These data are for a calendar month and exclude both work projects and Student Aid of the National

⁶ Data on a monthly basis are not available. Includes rentals and services and some sponsors' contributions.

Table 18 shows the employment, pay rolls, and man-hours worked on work projects of the National Youth Administration from January 1936 to December 1937, inclusive. Similar data for Student Aid are shown from September 1935 to December 1937, inclusive.

These data are for a calendar month and exclude both work projects and Student Aid of the National Youth Administration, which appear in a separate table.
6 Data on a monthly basis are not available. Includes rentals and services and some sponsors' contribu-

Table 18.—Employment and Pay Rolls From Beginning of Program Through December 1937 on National Youth Administration Projects Financed by The Works Program 1

Month and year	Number of persons employed	Pay-roll dis- bursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
		W	ork projects		
January 1936 to December 1937, inclusive.		\$61, 484, 949	162, 920, 150	\$0.377	2 \$5, 549, 074
January to December 1936		28, 883, 589	75, 827, 799	. 381	
January 1'37 February March April May June	189, 298 191, 583 192, 132	3, 087, 288 3, 244, 612 3, 225, 694 3, 190, 767 3, 106, 114 2, 920, 141	8, 220, 880 8, 745, 281 8, 727, 263 8, 679, 905 8, 361, 816 7, 794, 377	.376 .371 .370 .368 .371 .375	
July	133, 111 127, 219 122, 827	2, 491, 265 2, 347, 639 2, 192, 605 2, 165, 339 2, 232, 473 2, 397, 423	6, 567, 200 6, 109, 319 5, 832, 949 5, 723, 700 5, 953, 231 6, 376, 430	.379 .384 .376 .378 .375 .376	
		5	Student Aid		
September 1935 to December 1937, inclusive		\$56, 240, 623	187, 793, 604	\$0. 299	(4)
September to December 1935		6, 363, 503 25, 888, 559	19, 612, 976 85, 424, 616	. 324 . 303	
January. February. March April May June	427, 396 440, 382 440, 823 424, 117 249, 175	2, 967, 461 3, 227, 243 3, 315, 595 3, 339, 376 3, 641, 529 1, 992, 288	10, 214, 889 11, 136, 339 11, 452, 356 11, 574, 122 12, 453, 598 6, 441, 372	. 291 . 290 . 290 . 289 . 292 . 309	
July \$_August	35	141 139, 188 1, 549, 634 1, 976, 864 1, 839, 242	730 555, 283 5, 388, 717 6, 838, 994 6, 699, 612	.193 .251 .288 .289 .275	

CIVILIAN CONSERVATION CORPS

Statistics concerning employment and pay rolls in the Civilian Conservation Corps in November and December 1937 are presented in table 19. The Civilian Conservation Corps is usually regarded as a part of The Works Program, although it is now financed by a separate appropriation.

Data are for a calendar month.
 These data are not available on a monthly basis. Includes rentals and services and some sponsors' contributions.

⁴ No expenditures for materials on this type of project.
5 No students received aid during this period.

Table 19.—Employment and Pay Rolls in the Civilian Conservation Corps, November and December 1937 1

	Number of	employees	Amount of pay rolls		
Group	December	November		November	
All groups	338, 217	350, 714	\$16, 070, 030	\$16, 33 5, 123	
Enrolled personnel ¹ Reserve officers Nurses ³ Educational advisers ³ Supervisory and technical ³	291, 656 5, 501 281 1, 642 39, 137	302, 207 5, 751 278 1, 660 40, 818	9, 183, 358 1, 716, 426 29, 365 278, 048 4, 862, 833	9, 495, 196 1, 522, 980 28, 589 283, 454 5, 004, 904	

¹ Data on number of employees refer to employment on last day of month. Amounts of pay rolls are for the entire month.

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, the Department of Commerce, and the Department of the Interior. The monthly pay of the enrolled personnel is \$30 per month. Assistant leaders, not to exceed 10 percent of the total number of enrollees, may receive up to \$36 per month, and leaders, not to exceed 6 percent, may receive up to \$45 per month.

Monthly statistics of employment and pay rolls in the Civilian Conservation Corps from December 1936 to December 1937, inclusive, are given in table 20.

Table 20.—Employment and Pay Rolls in the Civilian Conservation Corps, by Months, December 1936 Through December 1937 1

Month	Number of employees	Monthly pay-roll dis- bursements	Month	Number of employees	Monthly pay-roll dis- bursements
1936 December	374, 791 407, 723 394, 521 2 307, 336 369, 309 348, 905	\$17, 738, 865 18, 650, 537 18, 314, 594 15, 770, 090 17, 502, 905 16, 719, 019	1937—Continued June July August September October November December	323, 626 348, 779 2 327, 360 289, 167 363, 256 350, 714 338, 217	\$16, 085, 832 16, 851, 511 16, 380, 024 14, 950, 554 15, 622, 911 16, 335, 299 16, 070, 030

¹ Data on number of employees refer to employment on last day of month. Amounts of pay rolls are for entire month.
Revised.

December data include 4,221 enrollees and pay roll of \$100,631; November, 3,984 enrollees and pay roll of \$88,197 outside continental United States.
 Included in executive service, tables 11 and 12.

CONSTRUCTION PROJECTS FINANCED BY RECONSTRUCTION FINANCE CORPORATION

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

Table 21.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, December 1937 1

[Subject	to revision]

Type of project	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 dur- ing month
All projects	4, 028	\$550, 135	634, 645	\$0.867	\$483,329
Building construction ³ Water and sewerage Miscellaneous	339 3,586 103	25, 227 516, 493 8, 415	28, 190 594, 432 12, 023	. 895 . 869 . 700	58, 215 423, 660 1, 454

A monthly summary of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation from December 1936 to December 1937, inclusive, is given in table 22.

Table 22.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, December 1936 Through December 1937 1

[Subject to revision]

Month	Number of wage earners 2	Monthly pay-roll disburse- ments	Number of man-hours worked dur- ing month	Average earnings per hour	Value of material orders placed dur- ing month
1936 December	9, 194 8, 873 8, 671 7, 346 5, 596 4, 880 4, 789 4, 056 4, 261	\$1, 237, 007 1, 117, 933 1, 071, 267 1, 060, 411 1, 106, 357 950, 924 766, 705 654, 167 660, 987 541, 264 558, 419 602, 221 550, 135	1, 697, 935 1, 521, 162 1, 441, 322 1, 371, 966 1, 385, 854 1, 174, 266 898, 038 759, 161 769, 238 6 634, 777 656, 890 702, 485 6 634, 645	\$0. 729 . 735 . 743 . 773 . 798 . 810 . 854 . 862 . 859 . 853 . 850 . 857 . 867	\$1, 488, 306 2, 538, 060 1, 238, 932 1, 707, 821 1, 071, 983 942, 696 927, 929 626, 968 1, 673, 752 789, 251 910, 473 3, 197, 856 483, 329

¹ Includes projects financed by the RFC Mortgage Co. Data are for month ending on the 15th.

² Maximum number employed during any 1 week of the month.

3 Revised.

Data are for the month ending on the 15th.
 Maximum number employed during any 1 week of the month by each contractor.
 Includes 116 employees; pay-roll disbursements of \$9,760; 8,268 man-hours worked, and material orders placed during the month of \$58,215 on projects financed by RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

Whenever 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 Bureau, 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, and 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.

The following tables present data concerning construction projects for which contracts have been awarded since July 1, 1934. Bureau does not have statistics covering projects financed from regular Federal appropriations for which contracts were awarded previous to that date.

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during December are given in table 23, by type of project.

Table 23.—Employment on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, December 1937 1 [Subject to revision]

Number of wage Number Value of earners Monthly of manmaterial A verage pay-roll disbursehours orders earnings Type of project Maximum placed worked Weekly per hour number ments during average employed 2 month month All projects..... 3 180, 594 168,609 \$17, 162, 379 23, 964, 127 \$0.716 \$23, 897, 187 Building construction: 1, 785, 744 6, 310 Nonresidential..... 20,570 16,767 1, 902, 146 7, 354 . 939 2, 678, 581 16, 846 Residential.... . 858 Electrification: Rural Electrification Admin-807, 467 13, 171 21, 574 1, 951, 789 7, 663 2, 764 6,888 444, 469 7, 819 8, 070 5,813 . 550 127 . 594 94 Forestry Grade-crossing elimination: 219 . 374 1, 049 Underpass construction..... 13 10 1,060 . 990 10,617 53, 216 158, 353 6, 545, 080 2, 855, 373 5, 666 3, 927, 048 5, 215 6, 737, 329 Heavy engineering..... 1.086 Public roads 5..... . 583 (6) 12, 182 11, 341 Reclamation.

River, harbor, and flood control:

Dredging, dikes, revetments, 1, 378, 646 1, 731, 875 . 796 29, 974 10, 251 26, 204 9, 096 2, 606, 252 1, 034, 814 4, 246, 287 1, 455, 282 2, 425, 071 2, 069, 064 Locks and dams_. . 711 Ship construction and repair: 40, 779 Naval vessels.... Other than naval vessels.... 40, 152 5, 580, 085 6, 414, 814 . 870 4, 591, 017 253, 225 68, 657 263, 087 7, 262 225, 579 20, 683 6, 352 415, 071 23, 031 176, 099 53 3, 556 216 1. 143 . 543 Streets and roads 3, 852 270

Water and sewerage

Miscellaneous....

1,748

122,883

2,034

. 898

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.

3 Includes weekly average for public roads.

4 Financed by Rural Electrification Administration loans.

<sup>Under the jurisdiction of the Bureau of Public Roads.
Not available; weekly average included in total for all projects.</sup>

Employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations from December 1936 to December 1937, inclusive, are shown by months in table 24.

Table 24.—Employment on Construction Projects Financed From Regular Federal Appropriations, December 1936 Through December 1937 1

[Sub	lact	tο	revision]
(dud)	wi	w	Lea istoll

Month	Number of wage earners ?	Monthly pay-roll disburse- ments	Number of man-hours worked dur- ing month	Average earnings per hour	Value of ma- terial orders placed dur- ing month
1936 December	152, 499	\$14, 290, 708	20, 311, 195	\$0. 704	\$14, 321, 80 2
January February March April May June	112, 770 120, 175 132, 639	11, 857, 007 10, 904, 648 11, 847, 783 13, 855, 633 15, 278, 529 16, 980, 060	16, 506, 278 14, 735, 028 16, 280, 905 19, 545, 518 21, 858, 124 24, 532, 459	.718 .740 .728 .709 .699 .692	11, 729, 532 13, 613, 251 12, 820, 438 15, 572, 168 18, 508, 278 19, 574, 535
July	206, 663 218, 347	19, 599, 384 19, 571, 849 21, 667, 700 20, 911, 266 20, 303, 903 17, 162, 379	29, 236, 412 28, 396, 014 31, 476, 926 29, 940, 767 28, 858, 259 23, 964, 127	. 670 . 689 . 688 . 698 . 704 . 716	24, 485, 499 29, 665, 521 31, 993, 137 24, 400, 381 23, 858, 860 23, 897, 187

STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of State roads from December 1936 to December 1937, inclusive, is presented in table 25.

TABLE 25.—Employment on Construction and Maintenance of State Roads, December 1936 Through December 1937 1

	Number of	Total pay		
Month	New roads	Maintenance	Total	roll
1936 December	21, 394	138, 540	159, 934	\$10,000,371
January	13, 164	117, 576 120, 786 119, 046 124, 761 159, 167 148, 392	133, 198 132, 492 130, 848 137, 925 176, 408 167, 774	8, 387, 864 8, 560, 561 8, 333, 600 9, 108, 030 10, 850, 394 11, 069, 510
July August September October November December	28, 379 26, 632 27, 280	149, 907 160, 143 167, 028 160, 045 163, 182 146, 340	175, 047 188, 522 193, 660 187, 325 192, 673 170, 165	11, 998, 370 12, 815, 790 12, 843, 370 12, 134, 860 12, 776, 701 10, 377, 340

Excluding employment furnished by projects financed from Public Works Administration and Works Progress Administration funds. Data are for the month ending on the 15th.
 Monthly average.

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.

MATERIAL ORDERS PLACED 1

The value of material orders placed on construction projects financed by Federal funds in the fourth quarter of 1937 is presented in table 26.

In the fourth quarter of 1937 on the Public Works Administration program, orders were placed for materials valued at approximately \$50,241,000. Of this amount \$14,393,000 was expended for iron and steel products, \$3,748,000 for cement, \$3,666,000 for forest products, and \$7,694,000 for machinery. On projects operated by the Works Progress Administration, material orders placed in the fourth quarter of 1937 amounted to \$61,981,000.

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.

It is estimated that in fabricating the materials used on the various programs (table 3) approximately 562,000 man-months of labor have been, or will be created. This includes 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 it 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 funds. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased directly by contractors the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the Census of Manufacturers for 1935.

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

Table 26.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter, 1937 ¹

	[= 45]5	ct to revisio	**]			
				Projects		
Type of material	Total	Public Works Adminis- tration ²	Recon- struction Finance Corpora- tion 3	Regular Federal 4	Federal construc- tion under The Works Program	Operated by W. P. A.
All materials	\$205,072,495	\$50,240,810	\$4,591,658	\$72,156,428	\$16,103,046	\$61, 980, 553
Textiles and their products	6 4, 311, 584	225, 283	1, 942	63, 732	12, 207	6 4, 008, 420
Awnings, tents, canvas, etc	29, 116 7, 622 21, 696 5, 576	13, 840 5, 657 6, 053	1, 854 88	9, 454 111 13, 981 3, 783	5, 822 1, 574 198	
Cotton goods Felt goods Jute goods Linoleum Sacks and bags	8, 800 4, 424 219, 631 1, 187	1, 595 7, 531 3, 375 185, 657 190		843 384 32, 783 543	426 665 1, 191 454	
Upholstering materials, n. e. c. Waste	152 4, 960	1, 385		1,850	152 1, 725	
Forest products	⁶ 15, 497, 427	3, 666, 261	51, 774	3, 777, 522	1, 359, 400	6 6, 642, 470
Cork products. Lumber and timber products.	39, 305	21,736	9	13, 301	4, 259	
n. e. c. Planing mill products. Window and door screens and weatherstrip.	7, 166, 529 1, 587, 645	2, 662, 672 941, 202	28, 848 22, 582	3, 352, 580 391, 278	1, 122, 429 232, 583	
weatherstrip	61, 478	40, 651	3 35	20, 363	129	
Chemicals and allied products	6 3, 377, 870	592, 547	34, 089	489, 789	282, 849	6 1, 978, 596
Ammunition and related prod- ucts	7, 668 45, 573 63, 970 662, 166 1, 821, 857	7, 668 23, 898 16, 365 233, 704 310, 912	8, 719 23, 835 1, 535	9, 078 19, 435 290, 778 170, 498	12, 597 19, 451 113, 849 136, 952	1, 201, 960
Stone, clay, and glass products		13, 481, 683	415, 822	18, 372, 937	4, 349, 805	621, 206, 033
Asbestos products, n. e. c. Brick, hollow tile, and other clay	22, 917	15, 613		5, 396	1,908	
products	5, 372, 898 19, 001, 879 6, 859, 219 7, 518, 786 335, 043 19, 970	2, 234, 246 3, 748, 123 2, 811, 823 664, 990 235, 462 14, 614	11, 574 300, 707 2, 459 479 2, 262 8	512, 548 7, 951, 544 474, 827 3, 016, 824 86, 830 4, 390	229, 387 1, 753, 011 723, 822 374, 007 10, 489 958	2, 385, 143 5, 248, 494 2, 846, 288 3, 462, 486
stone products	2, 637, 052	1, 127, 277	1, 323	1, 364, 459	143, 993	
otherwise treated Sand and gravel Tiling, floor and wall, and ter-	6, 065 11, 964, 795	1, 753, 057	92, 673	5, 201 4, 681, 006	1, 026, 930	4, 411, 129
Wall plaster, wall board, and	613, 004	426, 480	1,389	148, 474	36, 661	
insulating board	622, 159	449, 194	2, 948	121, 438	48, 579	
not including machinery	6 44, 709, 708	14, 392, 606	2, 824, 398	12, 148, 680	4, 658, 498	6 10, 685, 526
Bolts, nuts, washers, etc	411, 163 5, 145, 776	136, 113 1, 775, 659	2, 523 1, 204	194, 287 306, 066	78, 240 136, 192	2, 926, 655
trim (metal) Firearms	1, 849, 343	1, 132, 783	1, 213	688, 652	26, 695	
Forgings, fron and steel	740, 822 1, 459, 746	126, 424 761, 635	1, 556 71, 689	559, 299 388, 803	53, 543 237, 619	
ment	3, 590, 319 182, 235 24, 435 198, 668 520	1, 959, 038 75, 103 22, 388 157, 550	7, 724 101	771, 026 51, 873 1, 487 40, 278	78, 363 55, 158 560 840 520	774, 168

Table 26.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter, 1937—Continued

				Projects		
Type of material	Total	Public Works Adminis- tration	Reconstruction Finance Corporation	Regular Federal	Federal construc- tion under The Works Program	Operated by W. P. A.
Iron and steel and their products, not including machinery—Con. Steel works and rolling mill products. n. e. c. Stoves and ranges, other than	\$7, 549, 691	\$1, 991, 724	\$2,641,304	\$2, 302, 778	\$613, 88 5	
stoves and ranges, other than electricStructural and reinforcing steel	6, 914 17, 286, 739 4, 548 1, 126, 551	6, 447 5, 695, 053	93, 212	5, 502, 080	467 3, 086, 834	\$2, 909, 560
Switches, railway Tools, other than machine tools. Wire products, n. e. c. Wrought pipe	4, 548 1, 126, 551 1, 484, 079 313, 699	4, 548 29, 046 301, 743 217, 352	2, 424 1, 448	236, 082 1, 025, 798 80, 171	118, 316 155, 090 16, 176	740, 683
Nonferrous metals and their products	6 1, 382, 595	699, 099	5, 447	269, 602	97, 956	4 310, 49
Aluminum manufactures Copper products Lead products	82, 932 162, 322 27, 604	58, 343 93, 752 17, 779	882	24, 459 64, 777 9, 454	130 2, 911 371	
Nonferrous-metal alloys and their products, n. e. c. Sheet-metal work. Zine products.	284, 797 513, 513 936	182, 347 346, 733 145	3, 370 1, 184 11	97, 881 72, 499 532	1, 199 93, 097 248	
Machinery, not including transportation equipment	837,163,555	7, 694, 449	1, 022, 917	23, 830, 360	1, 692, 108	6 2, 923, 72
Electrical machinery, appara- tus, and supplies Elevators and elevator equip-	13, 715, 723	2, 821, 945	233, 745	8, 598, 270	551, 005	1, 510, 758
ment Engines, turbines, tractors, and water wheels	1, 237, 661 4, 696, 982	459, 348 403, 073	2, 960	776, 167 3, 968, 893	2, 146 322, 056	
Foundry and machine shop products, n. e. c	15, 309, 463 241, 933	3, 431, 955 41, 390	786. 069 143	9, 086, 905 178, 673	637, 278 21, 727,	1, 367, 25
gas generatorsPumps and pumping equip-	31, 376	28, 220		2, 983	173	
ment Refrigerators and refrigerating and ice-making apparatus	1, 740, 693 144, 017	422, 665 85, 853		1, 160, 633 57, 836	157, 395 328	
Transportation equipment, air, land, and water	424, 896	51, 404		73, 864	51, 356	248, 27
Aircraft (new)						
Boats, steel and wooden (small) Carriages and wagons Locomotives, other than steam Locomotives, steam	28, 749 2, 800 23, 000	1, 100 23, 000		28, 680 193	1, 507	
Motorcycles and parts Motor vehicles, passenger Motor vehicles, trucks Railway cars, freight	21, 546 348, 801	27, 304		9, 317 35, 674	12, 229 37, 551	248, 27
Railways cars, mail and express Railway cars, passenger						
Miscellaneous	40, 419, 759	9, 437, 478	235, 269	13, 129, 942	3, 640, 046	13, 977, 02
Belting, miscellaneous Coal Creosote Placetic griding and fatures	5, 958 421, 817 3, 797 6, 343, 422	654 30, 562 2, 232, 416	51 23, 291	124, 146 2, 068 3, 728, 832	5, 304 11, 036 1, 729 358, 883	256, 02
Electric wiring and fixtures Furniture, including store and office fixtures Instruments, professional and	2, 265, 888	2, 232, 416 1, 409, 510	8,929	42,394	5, 509	799, 54
scientific	8, 998 2, 157 2, 546	6, 400 2, 157 2, 546		2, 124 3, 425	474	

See footnotes at end of table.

Table 26.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter, 1937—Continued

Projects						
Type of material	Total	Public Works Adminis- tration	Reconstruction Finance Corporation	Regular Federal	Federal construc- tion under The Works Program	Operated by W. P. A.
No. 11. Continued				l		
Miscellaneous—Continued. Paving materials and mixtures.		ł	1	l		
n. e. C	\$8, 165, 154	\$799, 072	\$38	\$1, 273, 154	\$447, 144	\$5, 645, 746
Petroleum products	7, 856, 582	1, 179, 073	82, 449	3, 652, 496	1, 154, 215	1, 788, 349
Photographic apparatus and	1,000,002	1, 1, 0, 0, 0	02,110	0, 502, 100	-, 101, 210	_,,,,,,,,
materials	18, 172	8, 595	1, 491	7, 545	541	
Plumbing supplies, n. e. c	2, 700, 776	1, 309, 099	11, 488	498, 039	173, 683	708, 467
Radio apparatus and supplies	6, 085	6,067		18		
Roofing materials, n. e. c	648, 867	379, 812	4, 997	163, 676	100, 382	
Rubber goods	267, 168	58, 153	18, 509	26,919	42,640	120, 947
Steam and other packing, pipe		İ	Ì		1	
and boiler covering, and	275, 271	204, 769	501	48,790	21, 211	i
Theatrical scenery and stage	210, 211	204, 109	901	40,790	21, 211	
equipment	40, 696	40, 509	187	1		
Window shades and fixtures	46, 246	43, 541	1	1, 519	1, 186	
Other materials	11, 317, 134	1, 705, 739	83, 261	3, 554, 797	1, 315, 390	4, 657, 94

¹ This table includes certain items which are not actually construction materials, i. e., fuel, transpor-

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the fourth quarter of 1937, the third quarter of 1937, and the fourth quarter of 1936 is shown in table 27.

Table 27.—Value of Material Orders Placed on Federal Professional, Technical, and Clerical Projects Financed by The Works Program [Subject to revision]

Fourth Third Fourth Type of material quarter quarter quarter of 1937 of 1937 of 1936 All materials \$156, 523 \$161, 265 \$347,609 1, 310 7, 749 18, 297 5, 519 307 Computing machines..... 5, 499 Furniture______Office supplies______ 2, 825 35, 529 13, 074 25, 632 12, 139 6, 502 Stationery Typewriters 1, 203 270 Other office machines..... 3, 916 866 72, 763 42, 158 Rental of machinery and equipment..... 42, 727 42, 936

tation equipment, tools, furniture, etc.

² Includes material orders placed on P. W. A. projects financed by the Emergency Relief Appropriation

Acts of 1935, 1936, and 1937.

3 Does not include material orders placed on projects for which contracts were awarded before Mar. 15, 1934. Includes projects financed by RFC Mortgage Co.

4 Does not include material orders placed on projects for which contracts were awarded before July 1, 1934.

5 Includes material orders placed to Dec. 31, 1937. Includes National Youth Administration projects.

6 Includes material orders placed for projects operated by W. P. A. which are not classified in detail.

Rentals and services on projects operated by the Works Progress Administration for the first, second, third, and fourth quarters of 1937, are shown in table 28, by type of rental and service.

Table 28.—Rentals and Services on Projects Operated by the Works Progress Administration

[Subject to revision]

Type of rental and service	First	Second	Third	Fourth
	quarter of	quarter of	quarter of	quarter of
	1937 1	1937 2	1937 ⁸	1937 ⁴
All rentals and services	\$46, 150, 914	\$39, 128, 795	\$41, 632, 998	\$44, 151, 43 4
Busses and autos. Teams and wagons. Trucks and vans. Paving, road-building, and construction equip-	742, 342	565, 237	487, 329	580, 647
	2, 202, 463	1, 313, 122	1, 005, 987	1, 149, 911
	22, 734, 107	18, 160, 926	19, 856, 660	19, 419, 123
ment. Other equipment (including office equipment). Space rentals and services. Other services (including utilities).	13, 532, 815	11, 723, 627	13, 820, 540	15, 649, 200
	685, 243	836, 416	695, 192	764, 806
	2, 043, 446	2, 359, 897	2, 074, 500	2, 658, 342
	4, 210, 498	4, 169, 570	3, 692, 790	3, 929, 405

Table 29 shows rentals and services on work projects of the National Youth Administration for the third and fourth quarters of 1937.

Table 29.—Rentals and Services on Work Projects of National Youth Administration [Subject to revision]

Type of rental and service	Third quar- ter of 1937 1	Fourth quarter of 1937
All rentals and services Buses and autos	39, 974	\$683, 127 3, 779 5, 104 80, 567 56, 201 91, 934
Space rentals and services Other services (including utilities)	174, 049 55, 725	330, 510 115, 032

¹ Quarterly period ending Sept. 30, 1937.
2 Quarterly period ending Dec. 31, 1937.

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.

Table 30 shows the value of public contracts awarded under the act for materials during the first, second, third, and fourth quarters of 1937.

The first public contracts were awarded under the act in September 1936.

Quarterly period ending Mar. 31, 1937.
 Quarterly period ending June 30, 1937.
 Quarterly period ending Sept. 30, 1937.
 Quarterly period ending Dec. 31, 1937.

Table 30.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply with the Public Contracts Act, by Type of Material

Isoplect to ter				
İ	Value of contracts awarded during 1937			
Type of materials	First quarter ¹	Second quarter 2	Third quarter ³	Fourth quarter
All materials	\$78, 905, 478	\$97, 057, 708	\$57, 920, 986	\$45, 530, 8
Food and kindred products	4, 066, 107	3, 187, 996	2, 621, 496	2, 284, 3
Canned fruits and vegetables	265, 654	425, 974	1, 266, 861 88, 251	281, 4
Canned sea foods	26, 826 633, 803	11,682	88, 251 12, 741 185, 984	78, 8 24, 7 633, 8
Condensed and evaporated milk	1 329, 639	383, 056 619, 898	39, 559	84,
Feeds, prepared, for animals and fowlsFlour and other grain mill products	392, 322 197, 533 367, 443	219, 420 291, 746 189, 648	218, 793 241, 740 162, 620	255, 90.
Meat-packing products Shortening and vegetable cooking oil	367, 443	189, 648	162, 620	90, 339,
Shortening and vegetable cooking oil	98, 855 426, 790	385, 122	208. 205	31, 175,
Sugar Miscellaneous subsistence stores and supplies	426, 790 1, 327, 242	385, 122 661, 450	208, 205 196, 742	288,
Textiles and their products	34, 127, 602	10, 953, 105	8, 001. 485	10, 922,
Canvas bags and covers	286, 697	195, 576 304, 547	18, 975 332, 138	205, 69,
Clothing manufacture only 5	32, 099 1, 578, 643	1 278, 935	332, 138	578,
Clothing, manufacture only 5	1 182 853	504, 925	26, 102	73.
Cotton gloves Cotton goods (drills, prints, sheeting, etc.)	243, 516 4, 503, 608 10, 253	504, 925 267, 403 3 982, 293	21, 910 2, 207, 275	111, 2, 036,
	10, 253		17, 540	l
Furnishing goods, men's, n. e. c. Housefurnishing goods (pillow cases, sheets, etc.) Knit goods (hosiery, underwear, etc.)	1 367, 584	404, 297	1, 125, 423 66, 633	210,
Knit goods (hosiery, underwear, etc.)	1, 031, 418 1, 942, 308 21, 208, 221	250, 822 2, 698, 227	1 570, 922	405, 532,
Woolen goods (flannels, suiting, etc.)	21, 208, 221 1, 960, 082	756, 302 733, 165	3,094,815	5,768,9
Work clothing Miscellaneous textile products	780, 320	576, 613	137, 830 375, 922	282, 648,
Forest products	822, 271	2, 526, 955	477, 191	853,
Cork and cork products Furniture Lumber and timber products, n. e. e.	47, 378 462, 912	30.658 1,236,910	52, 559 173, 213	88, 4 378, 4
Planing-min products	165, 638	701, 962 161, 226 242, 561		29,
Treated lumber and timber	130, 297 16, 046	242, 561 153, 638	251, 419	142, 215,
Chemicals and allied products	1, 133, 495	5, 904, 144	3, 097, 764	569,
Ammunition and related products	37, 044	4, 177, 458	1, 034, 660	60,
Ammunition and related products Compressed and liquefied gases Explosives	32, 080 114, 105	l 234, 503	1, 416, 936	361.
Linseed oil	59, 557	448, 529 62, 577	65, 036	301,
Paints and varnishes	205, 427	1 298.364	26 282	57,
Paints and varnishes. Soap and soap chips. Miscellaneous chemicals.	327, 215 358, 067	60, 441 622, 272	171, 520 383, 330	79. 11,
Products of aspbalt, coal, and petroleum	5, 096, 152	23, 260, 749	5, 928, 095	8, 436,
Asphalt, oil, tar, and mixturesCoal	517, 909 24, 659	3, 837, 954 635, 690	456, 871 526, 304	615, 323,
Coke Fuel oil	1, 701, 792	8, 856, 247	16, 136 971, 748	5, 922,
Gasoline	2, 816, 825 13, 967	7, 773, 695	3, 604, 984	1, 366,
Lubricating oils and greases	13, 967 21, 000	7, 773, 695 1, 735, 211 421, 952	60, 425 291, 627	99,
Leather and its manufactures.	3, 105, 231	1, 614, 883	2, 176, 170	227,
Boots and shoes	2, 939, 380	1, 267, 538	1, 767, 361	63,
Boots and shoes, out stock	15 077		103 479	
Gloves	38, 319 112, 455	185, 798	29, 380 257, 275 18, 675	47,
		161, 547	18, 675	116,
Stone, clay, and glass products	2, 284, 895	4, 550, 804	2, 868, 924	2, 518,
BrickCement	45, 500 1, 034, 984	101, 189 2, 260, 425	1, 682, 376	1. 678.

Table 30.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply with the Public Contracts Act, by Type of Material—Con.

	, J. J.			
	Value of contracts awarded during 1937			
Type of materials	First	Second	Third	Fourth
	quarter	quarter	quarter	quarter
Stone, clay, and glass products—Continued.				
Concrete pipe. Concrete, ready mixed. Crushed stone.	\$231, 921 240, 093	\$169, 384 324, 530 518, 384	\$14, 360	
Concrete, ready mixed	240, 093	324, 530	64, 695 150, 161	\$181, 584
Class	149, 628 16, 397	518, 384 51, 557	10, 161	31, 414 11, 090
Glass. Granite and marble	15, 119	164, 640	10, 800	11,090
Riprap stone Sand and gravel Soil, black earth	59, 480 124, 731	164, 640 17, 250 567, 384	133, 578 527, 896	75,700
Sand and gravel	124, 731	567, 384	527, 896	72, 696 258, 638
Soil, black earth	63, 384	85, 840 16, 866	34, 630	258, 638
Tile clay, including drain	78, 906	10, 801		36, 227
Vitrified clay and terra cotta pipe	78, 906 85, 366 139, 386	10, 801 22, 778 239, 776	45, 622	
Terra cotta Tile, clay, including drain Vitrified clay and terra cotta pipe Miscellaneous stone, clay, and glass products	139, 386	239, 776	204, 806	172, 853
fron and steel and their products, not including ma-	6, 221, 987	5, 433, 533	7, 494, 234	4, 804, 489
Bolts, nuts, rivets, washers, etc	15, 995 220, 453	47, 168 65, 720 38, 382 69, 740	75, 345 200, 701 69, 032 3, 567, 341	25, 964 116, 676
Fencing materials	10, 472	38, 382	69, 032	37, 690
Forgings, iron and steel	809, 125	69, 740	3, 567, 341	37, 690 393, 142
Hardware, miscellaneous Metal doors, sash, and frames	72, 769 44, 559		36,076	
Metal doors, sash, and frames	44, 559	23, 494 677, 208 91, 816	107 000	13, 364 79, 774
Matal shingles and roofing	110, 100	017,208	127, 226 42, 081	19,774
Pipe and fittings		76, 639	1 97.635	
Plumbing fixtures and supplies		76, 639 77, 748	10, 338 79, 348	45, 182 17, 248
Rails, Steel		10, 320	79, 348	17, 248
Metal doors, sasn, and frames. Metal shingles and roofing. Pipe and fittings. Plumbing fixtures and supplies. Rails, steel. Railway tie plates. Reinforcing steel. Safes. Steel.	98, 823	654.065	665, 778	271, 251
Steel nine and fittings	35 670	96, 124 269, 239 170, 519	139 737	258, 309
Steel sheets, plates, shapes, and strips	35, 670 1, 089, 124	170, 519	132, 737 619, 083	1, 720, 900
Steel pipe and fittings. Steel sheets, plates, shapes, and strips. Stoves and ranges, other than electric. Structural steel, fabricated, and sheet-steel piling. Tools, other than machine tools.		14,920	1 26.791	
Structural steel, fabricated, and sheet-steel piling	761, 455	I 593.413	829, 563	433, 567
Wire rope.	42, 986 339, 978	26,868	145, 964 44, 750	12, 929
Miscellaneous iron and steel products	2, 565, 422	26, 868 201, 307 2, 228, 838	724, 445	12, 929 128, 808 1, 249, 685
Nonferrous metals and their alloys	2, 076, 603	1, 657, 448	2, 198, 352	1, 534, 682
Aluminum manufactures	87, 700	611, 983	278, 237 659, 351 43, 750 33, 386	59,085
Brass products	191, 887	1 240.062	659, 351	163, 669
Bronze products	15, 270 577, 239	72, 747 211, 215	43,750	122, 250 240, 835
Fixtures, gas and electric	356, 306	12, 417	40, 143	1 116.859
Lead products.	12,874			63, 993
Magnesium	23, 892		54, 367 53, 750	11, 926 117, 615
	28 120	122, 650	12, 420	117, 015
Sheet-metal work	54, 978	119, 151	23, 738	14, 745 15, 348
Plated ware. Sheet-metal work. Tin	311, 558	122, 650 28, 047 119, 151 94, 204	482, 947	15, 348 289, 170
Zinc Miscellaneous nonferrous metals and alloys	28, 130 54, 978 311, 558 12, 348 404, 421	144, 972	482, 947 72, 573 443, 690	319, 187
Machinery, not including transportation equipment and			=	
electrical equipment	6, 285, 570	7, 598, 749	8, 567, 356	2, 839, 417
Air-conditioning equipment Elevators and elevator equipment	57, 500		108, 228	05.510
Engines, turbines, tractor equipment. Figines, turbines, tractors, and parts. Filter and purification equipment. Laundry machinery and equipment.	792, 741	1, 989, 610	3, 577, 476	35, 518 538, 158
Filter and purification equipment	1	1 92 402	ì	1 116 309
Laundry machinery and equipment	61, 265	35, 643 360, 151	12,750	13, 500
Machine toolsOffice equipment	61, 265 472, 348 13, 900	45, 837	12, 750 247, 481 296, 092	371, 982
Phonographs and accessories	16,000	- -	43,300	
Power shovels and draglines	489, 545	362, 760	46, 596	99, 386
Printing and publishing machinery	69, 081 849, 662		78, 025 606, 959	99, 386 16, 354 50, 968
Printing and publishing machinery Pumps and pumping equipment Refrigerators and refrigerating and ice-making ma-	849,662	304, 847	606,959	50, 968
	35, 355	190, 336	1	12,810
Road machinery	57, 324	197.927		10, 400
Road machinery. Windlasses, hawsers, etc. Miscellaneous machinery and parts.	35, 355 57, 324 43, 708 3, 327, 141	197, 927 219, 685 3, 868, 461	53, 745	84,950
Miscellaneous machinery and parts	3, 327, 141	3, 868, 461	3, 496, 704	1, 489, 083
	(1		

See footnotes at end of table.

Table 30.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply with the Public Contracts Act, by Type of Material-Con.

Type of materials	Value of contracts awarded during 1937			
	First quarter	Second quarter	Third quarter	Fourth quarter
Electrical machinery, apparatus, and supplies	\$5, 121, 273	\$6,051,051	\$7, 314, 981	\$5, 020, 162
Batteries Circuit preakers and switches Electric cable, wire, and other conductors Generators and spare parts Heaters and ranges Lamps, incandescent, and X-ray tubes Motors Radio equipment and supplies Spark plugs Starters Switchboards, relay and control equipment Telephone and telegraph apparatus Transformers Welding equipment	274, 590 1, 885, 982 299, 684 108, 021 11, 694 868, 007 99, 336	199, 084 1, 358, 895 304, 024 65, 705 57, 829 57, 813 1, 146, 152 165, 639 187, 907 78, 080 131, 827 35, 594	317, 748 822, 067 1, 281, 851 518, 266 30, 914 10, 628 1, 593, 680 422, 263 129, 235 1, 499, 711	145, 329 223, 814 475, 877 1, 026, 311 15, 660 1, 767, 493 47, 503 57, 188 211, 253 95, 783
Miscellaneous electrical machinery, apparatus and supplies		2, 206, 222	688, 618 2, 201, 331	953, 951 2, 120, 241
Aircraft. Aircraft parts and equipment. Boats and boat equipment. Motor vehicles, passenger. Motor vehicles, trucks Miscellaneous transportation equipment.	88, 018 3, 457, 059 39, 359 575, 673 1, 779, 139	5, 018, 570 3, 335, 384 627, 642 1, 729, 793 67, 329	83, 785 840, 463 76, 208 236, 741 905, 269 58, 865	525, 810 365, 736 50, 461 275, 621 681, 343 221, 270
Miscellaneous	2, 625, 044	13, 539, 573	4, 973, 607	3, 399, 324
Brooms, brushes, bristles, etc. Dental goods and equipment Instruments, professional and scientific. Linoleum	52, 082 417, 893	102, 919 39, 214 1, 737, 032 67, 236	159, 740 1, 608, 543	187, 797 65, 014 593, 528 87, 935
Oyster shell Paper and allied products Photographic apparatus and materials Printing, publishing, and subscriptions Rubber products.	195, 967 273, 741	24, 165 5, 705, 514 368, 520 200, 000 348, 894	557, 681 314, 899 455, 148 190, 903	204, 083 26, 050 18, 908 190, 006
Slag Steam and other packing, pipe and boiler covering Surgical and orthopedic supplies and appliances Tobacco manufactures. Other materials Rentals, services, etc. 6.	27, 017 455, 287	22, 623 415, 358 571, 967 264, 260 1, 301, 977 2, 369, 894	38, 624 212, 310 38, 471 1, 093, 113 304, 175	13, 626 85, 742 89, 413 1, 235, 787 601, 435

¹ For period ending Mar. 31, 1937. Revised. ² For period ending June 30, 1937. Revised. ³ For period ending Sept. 36, 1937. Revised. ⁴ For period ending Dec. 31, 1937. ⁴ Labor nearly. Materials (periods by Mariana)

Includes equipment rental, repairs, aerial surveys, etc.

The value of public contracts awarded for materials by Federal agencies totaled \$45,531,000 during the fourth quarter of 1937. the contracts awarded in the fourth quarter of 1937, \$10,923,000 was for textiles and textile products; \$2,839,000, for machinery, not including transportation and electrical equipment; \$4,804,000, for iron and steel and their products, not including machinery; and \$5,020,000, for electrical machinery, apparatus, and supplies.

Labor only. Materials furnished by United States Government.