UNITED STATES DEPARTMENT OF LABOR

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Employment and Pay Rolls

December 1936

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EMPLOYMENT AND PAY ROLLS

Summary of Reports for December 1936

THE upswing in employment, which had been evidenced each month since February in the combined manufacturing and non-manufacturing industries surveyed by the Bureau of Labor Statistics, continued through December, when more than 492,000 additional workers were given jobs. Aggregate weekly pay rolls in these industries rose between November and December by approximately \$15,000,000.

The gain in employment between December 1935 and December 1936 amounted to more than 1,362,000 workers and the increase in weekly pay rolls was nearly \$53,600,000.

In contrast with the continued increase in the number of workers employed by these industries, class I steam railroads had fewer employees on their pay rolls in December than in November. The decrease was 11,061, exclusive of executives and officials, according to a preliminary report by the Interstate Commerce Commission.

Public employment in December showed decreases on construction projects financed by the Reconstruction Finance Corporation, by regular governmental appropriations, and by the Public Works Administration funds. Decreases in employment were also reported on projects financed by The Works Program and in emergency conservation work.

Industrial and Business Employment

More than 103,000 factory wage earners were returned to jobs in December. This represented a gain of 1.2 percent from November and was particularly noteworthy, not only because it was the eleventh consecutive monthly gain but also because it was contraseasonal, decreases having been shown in this month in 13 of the preceding 17 years for which data are available. Weekly factory pay rolls advanced 4.9 percent over the month interval, a gain of over \$9,000,000. Although factory pay rolls have risen in December in 9 of the preceding 17 years, the current gain has been exceeded in only 2 of these years—1919 and 1934. Wage-rate increases affecting more than 797,000 of the 4,700,000 workers covered in the survey accounted in part for the pay-roll rise.

The estimated number of factory wage earners in December (8,220,000) exceeded that of any month since December 1929, and the estimated weekly pay roll (\$193,400,000) was the maximum recorded since May 1930. Comparing the 12-month average for 1936

with the corresponding average for 1935, we find that factory employment rose 6.9 percent and factory pay rolls 15.6 percent.

Of the 89 manufacturing industries included in the monthly survey, 52 showed more employees in December than in the preceding month and 60 reported larger pay rolls. Gift or bonus payments were not included in the pay rolls reported. Among the industries showing substantial seasonal gains in employment were fertilizers, 15.2 percent; automobiles, 8.1 percent; and agricultural implements, 10.5 percent. Other industries showing large gains were woolen and worsted goods, 9.3 percent; locomotives, 8.2 percent; aircraft, 6.9 percent; boots and shoes, 7.1 percent; and iron and steel forgings, 6.0 percent.

Gains in employment ranging from 3.8 percent to 4.5 percent were reported for carpets and rugs, dveing and finishing textiles, hardware, stamped and enameled ware, and lighting equipment. Industries of major importance in which smaller increases were reported were slaughtering and meat packing (2.5 percent), blast furnaces, steel works, and rolling mills (1.5 percent), foundries and machine shops (2.4 percent), electrical machinery (2.7 percent), book and job printing (1.9 percent), silk and rayon goods (1.8 percent), cotton goods (1.9 percent), and millwork (1.2 percent). A further gain in employment of 2.3 percent was shown in the machine-tool industry, continuing the succession of increases which have been reported in this industry each month with but one exception for more than 2 years. Employment in this industry in December was above the level of any month since June 1930 and was nearly three times greater than the low point of April 1933.

Among the 37 industries in which declines in employment were shown, seasonal slackening of activities resulted in decreases of 36.9 percent in beet sugar, 14.4 percent in canning and preserving, 7.8 percent in jewelry, 6.0 percent in millinery, 5.3 percent in marble-slate-granite, 5.4 percent in cottonseed oil-cake-meal, 4.3 percent in cigars and cigarettes, 6.0 percent in stoves, 3.7 percent in radios and phonographs, 3.5 percent in cement, and 1.3 percent in confectionery. Other substantial declines were shown in shipbuilding (7.7 percent), structural metalwork (4.2 percent), and soap (3.5 percent).

Eight of the 16 nonmanufacturing industries surveyed also reported gains in employment between November and December. The largest gain (approximately 388,000 or 11.0 percent) was a seasonal expansion in retail trade, due primarily to the employment of extra workers to handle the holiday trade. In the general merchandising group under retail trade, which is composed of department, variety, and general merchandising stores and mail-order houses, employment increased 33.2 percent or by 295,000 workers. The level of employment in this group in December 1936 exceeded the December 1929 level by 10.5 percent. In "other retail trade" establishments employment

increased 3.6 percent over the month interval or by more than 93,000 workers. Reports received from wholesale trade firms indicated a net gain in employment of 1.5 percent or approximately 21,000 workers. The increase was shared by most of the branches of wholesale distribution. Seasonal demands resulted in the hiring of more than 12,000 additional workers in the anthracite and bituminous-coal mining industries. The gain in employment in anthracite mining was accompanied by a rise of 37.7 percent in weekly pay rolls. Laundries, metal mines, insurance, and brokerage offices also reported larger numbers of workers in December than in the preceding month, the gain in metal mines being partly due to the resumption of operations in several mines which had been affected by labor disputes.

Seasonal recessions in employment were shown in private building construction (7.9 percent), quarrying and nonmetallic mining (6.1 percent), dyeing and cleaning (4.5 percent), and year-round hotels (0.7 percent). The remaining four nonmanufacturing industries (telephone and telegraph, electric light and power and manufactured gas, electric-railroad and motorbus operation and maintenance, and crude-petroleum producing) showed decreases ranging from 0.1 to 1.1 percent. Total employment in the 16 nonmanufacturing industries combined showed a net gain of approximately 389,000 workers between November and December, and an increase of over \$5,900,000 in weekly pay rolls.

Employment by class I railroads declined, the loss amounting to 1 percent, or 11,061 workers exclusive of executives and officials. The total number of such workers in December, according to a preliminary report of the Interstate Commerce Commission, was 1,068,869. Corresponding pay-roll information for this month was not available at the time this report was prepared. In November, however, the total compensation of all employees except executives and officials was \$149,749,940, a decline of 6.2 percent compared with the October figure. The Commission's preliminary indexes of employment, based on the 3-year average 1923–25 as 100 and covering all employees, were 60.5 for December and 61.1 for November. The final October index was 62.1.

Hours and earnings.—Average hours worked per week in December in manufacturing industries were 41.1 and average hourly earnings were 59.4 cents according to reports from cooperating firms. These averages were 1.3 percent and 2.6 percent, respectively, higher than the November figures and 6.0 percent and 4.0 percent higher than the December 1935 averages. Average weekly earnings of factory wage-earners were \$24.83 in December, or 3.5 percent higher than in November and 10.2 percent higher than in December of the preceding year.

Of the 14 nonmanufacturing industries for which man-hour data are compiled, 9 reported longer hours worked per week in December than in November and the same number showed higher rates of pay. Eleven of the 16 nonmanufacturing industries covered reported gains in average weekly earnings.

Table 1 presents a summary of employment and pay-roll indexes and average weekly earnings in December 1936 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 certain items cannot be computed. The indexes of employment and pay rolls for the manufacturing industries are based on the 3-year average 1923-25 as 100, and for the nonmanufacturing industries on the 12-month average of 1929 as 100. The information for the manufacturing industries. mining, laundries, dyeing and cleaning, and building construction covers wage earners only. For crude-petroleum producing it covers wage earners and clerical field force. The figures for public utilities, trade, hotels, brokerage, and insurance cover all employees including executives.

As explained in the preceding issue of this publication the indexes of factory employment and pay rolls have been revised and adjusted to the 1933 Census of Manufactures.

Table 1.—Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, December 1936

	E	mployme	ent		Pay roll		Averag	e weekly	earnings
Industry	Index, Decem-	Perce change	ntage from—	Index,	Perce change	ntage from—	Aver- age in	Perce change	
	ber 1936	Novem- ber 1936	Decem- ber 1935	ber 1936	Novem- ber 1936	Decem- ber 1935	Decem- ber 1936	Novem- ber 1936	Decem- ber 1935
All manufacturing indus- tries combined 1	(1923–25 =100) 98. 1	+1.2	+11.1	(1923-25 = 100) 95. 1	+4.9	+22.6	\$24.83	+3.5	+10. 2
Class I steam railroads 2	60. 5	-1.0	+10.0	(3)	(3)	(8)	(3)	(3)	(3)
Coal mining:	(1929 = 100) 54.8	+6.5	-4.4	(1929 = 100) 55, 4	+37.7	+(4)	29, 41	+29.3	+4, 6
Bituminous. Metalliferous mining. Quarrying and nonmetallic	83. 9 64. 4	$+1.8 \\ +2.4$	$+6.1 \\ +20.3$	85. 0 57. 7	+5.4 +5.7	+22. 4 +33. 6	25. 74 25. 52 28. 52	+3.5 +3.2	+15.4 $+11.0$
miningCrude-petroleum producing_ Public utilities:	49. 4 72. 4	-6.1 -1.1	+14.6 +.7	39. 4 61. 3	-9.4 +1.9	+32.6 +2.3	20. 14 31. 31	-3.5 +3.1	+15.7 +1.6
Telephone and telegraph	73. 6	1	+5.9	82. 4	+.9	+8.9	29.86	+1.0	+3.0
Electric light and power and manufactured gas Electric-railroad and	93. 2	3	+7.4	93.8	+2.2	+9.1	32, 45	+2.5	+1.5
motorbus operation and maintenance Trade:	72.5	7	+2.8	69.3	5	+4.9	30. 87	+.2	+1.9
Wholesale Retail General merchan-	91. 0 100. 0	+1.5 +11.0	+4.9 +7.6	72. 8 76. 0	4 +8.3	+6.0 +9.7	28. 37 20. 45	-1.8 -2.4	+1.1 +1.7
disingOther than general	145. 5	+33.2	+10.6	116.8	+27.7	+11.8	17. 50	-4.1	+1.1
merchandising Hotels (year-round) b Laundries Dyeing and cleaning Brokerage	87.6	+3.6 7 +.7 -4.5 +.8	+6.5 +3.9 +8.0 +5.8 +11.1	67. 5 69. 8 76. 1 57. 3	+2.7 +.3 +2.2 -4.8 +1.6	+8.8 +8.8 +12.9 +8.3	23. 56 13. 92 16. 28 18. 17 37. 80	8 +1.0 +1.5 3	+2. 2 +4. 7 +4. 4 +2. 4 +4. 9
InsuranceBuilding construction	(3) (3)	$\begin{array}{c} +.8 \\ +.1 \\ -7.9 \end{array}$	+11.1 +1.1 +30.7	(3)	$\begin{array}{ c c c } +1.6 \\ +.2 \\ -9.1 \end{array}$	$\begin{vmatrix} +16.5 \\ +3.9 \\ +52.6 \end{vmatrix}$	37. 80 38. 25 28. 60	+.8 +.2 -1.2	$\begin{array}{c c} +4.9 \\ +2.7 \\ +16.9 \end{array}$

Revised and adjusted to Census of Manufactures totals for 1933.
 Preliminary—Source: Interstate Commerce Commission.
 Not available.
 Less than Yo of 1 percent.
 Cash payments only; the additional value of board, room, and tips cannot be computed.

Public Employment

In December 243,000 workers were employed on construction projects financed from funds provided by the Public Works Administration. This was a decrease of 9.8 percent compared with the number employed in November. Losses in employment occurred on Federal and non-Federal projects financed from funds provided by the National Industrial Recovery Act and on non-Federal projects financed from funds released under the Emergency Relief Appropriation Act of 1935. Total pay-roll disbursements during the month amounted to \$18,576,000, a decrease of 10.9 percent compared with November.

Over 144,000 workers were employed on construction projects financed from regular governmental appropriations. This was a decrease of 7.4 percent compared with November. Increases in employment occurring on building construction, electrification, naval vessel, reclamation, and street and road projects were offset by decreases on forestry, public roads, river, harbor, and flood control, water and sewerage, and miscellaneous projects. December pay-roll disbursements amounted to \$13,491,000, a decrease of \$816,000 compared with the previous month.

The number of wage earners employed on construction projects financed by the Reconstruction Finance Corporation in December totaled 9,200, a decrease of 400 compared with the preceding month. Decreases in employment occurred on all types of projects with the exception of building construction. Total pay-roll disbursements amounted to \$1,107,000 in December.

Employment on projects financed by The Works Program totaled 2,964,000 in December. This was a decrease of 167,000 compared with November. Over 370,000 workers were employed on Federal projects, a decrease of 8.3 percent. On projects operated by the Works Progress Administration employment totaled 2,594,000, a decrease of 4.9 percent. Total pay-roll disbursements amounted to \$154,731,000.

In the regular agencies of the Federal Government small decreases in employment occurred in the executive, judicial, and legislative branches; a slight increase, however, was reported for the Military Service. Although employment in the executive service dropped 1 percent in December, it was 2 percent higher than a year ago. Of the 831,000 employees in the executive service in December, 116,000 were working in the District of Columbia and 715,000 outside the District. The most marked increases in employment in the executive departments of the Federal Government occurred in the Social Security Board, the Post Office Department, and Panama Canal. Pronounced decreases in the number of workers, on the other hand, were reported for the War Department, the Works Progress Administration, and the Tennessee Valley Authority.

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In December 377,000 workers were employed on emergency conservation work. Compared with November this was a decrease of 14,000. Decreases were shown in all groups of workers with the exception of educational advisers. Employment in this group remained virtually the same. December pay-roll disbursements totaled \$18,112,000, a drop of \$493,000 compared with the previous month.

Over 159,000 employees were working on the construction and maintenance of State roads in December. This was a decrease of 22,000 compared with November. Of the total number engaged on the program 86.6 percent were working on maintenance and 13.4 percent on new construction. Pay-roll disbursements for the month totaled \$10,000,000.

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 1936 1 [Proliminary figures]

[1 tommasy ngaros]														
	Emplo	yment	Per-	Pa	y roll	Per-								
Class	Decem- ber	Novem- ber	cent- age change	December	November	cent- age change								
Federal service: Executive ³ Judicial	³ 831, 486 1, 970	839, 446 1, 985	-0.9 8	\$138, 694, 501 511, 213	\$130,218,059 501,392	+6.5 +2.0								
Legislative	5, 274 308, 972	5, 381 305, 75 7	-2.0 +1.1	1, 234, 689 23, 574, 147	1, 231, 814 4 23, 558, 487	+.2 +.1								
Financed by P. W. A Financed by R. F. C. ⁷ Financed by regular governmental	⁸ 242, 818 9, 189	6 269, 167 9, 611	-9.8 -4.4	5 18, 575, 619 1, 106, 816	6 20, 854, 480 1, 108, 258	-10. 9 1								
appropriations The Works Program: Federal projects	144, 274 370, 911	155, 839 404, 671	-7. 4 -8. 3	13, 491, 223 18, 595, 253	14, 307, 158 20, 074, 062	-5.7 -7.4								
Projects operated by W. P. A Relief work: Emergency conservation work	2, 593, 569 376, 953	2, 726, 361 391, 296	-4.9 -3.7	136, 135, 774	138, 543, 440 18, 604, 821	$ \begin{array}{c c} -7.4 \\ -1.7 \\ -2.6 \end{array} $								
7744	1 3.5,500	302, 200	"	1 20, 112, 110	20, 301, 021									

Includes data on projects financed wholly or partially from Federal funds.
 Includes employees of Columbia Institution for the Deaf and Howard University.
 Includes 387 employees by transfer, previously reported as separations by transfer, not actual additions

Includes 387 employees by transfer, previously reported as separations by transfer, not actual additions for December.

Revised.

Includes 154,845 wage earners and \$11,144,602 pay roll covering P. W. A. projects financed from E. R. A. A. 1935 funds, and 149 wage earners and \$7,714 pay roll financed from First Deficiency Appropriation Act of 1936.

Includes 166,178 wage earners and \$12,135,818 pay roll covering P. W. A. projects financed from E. R.

Inclines 160,178 wage earners and \$12,163,010 pay roll covering r. w. A. projects managed now 2. A.
 A. 1935 funds.
 Includes 61 employees and pay-roll disbursements of \$3,533 for December and 81 employees and pay-roll disbursements of \$4,145 for November on projects financed by RFC Mortgage Co.
 Data covering P. W. A. projects financed from E. R. A. A. 1935 funds are not included in The Works Program and shown only under P. W. A.
 Includes 40,121 employees and pay roll of \$5,691,819 for December and 40,348 employees and pay roll of \$5,751,433 for November also included in executive service.

Detailed Reports for December 1936

Industrial and Business Employment

MONTHLY reports on employment and pay rolls in industrial and business industries are now available for the following groups: 89 manufacturing industries; 16 nonmanufacturing industries, including 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 in December 1936

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 1936 are shown in table 3. Percentage changes from November 1936 and December 1935 are also given. The indexes for the manufacturing industries have been revised and adjusted to the Census of Manufactures for 1933 as explained in the preceding issue of this publication.

Table 3.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1936

Manufacturing (indexes are based on 3-year average 1923-25=100)

	E	mployme	ent		Pay rolls			erage wee			e hours er week			erage hor earnings	
Industry	Index De- cember	Perce change	entage from—	Index De- cember	Perce change	ntage from—	De-		entage from—	De-	Perce change	ntage from—	De-	Perce change	
	1936 (re- vised series) ²	No- vember 1936	De- cember 1935	1936 (re- vised series) ²	No- vember 1936	De- cember 1935	cember 1936	No- vember 1936	De- cember 1935	cember 1936	No- vember 1936	De- cember 1935	cember 1936	No- vember 1936	De- cember 1935
All manufacturing industries	98. 1	+1.2	+11.1	95, 1	+4.9	+22, 6	\$24.83	+3.5	+10.2	41, 1	+1.3	+6.0	Cents 59. 4	+2.6	+4.0
Durable goodsNondurable goods	92. 7 104. 0	+1.9 +.7	+15.9 +7.0	93. 1 97. 6	+4.7 +5.1	$+30.2 \\ +14.4$	27. 94 21. 43	$+2.8 \\ +4.3$	+12.3 +6.8	42. 8 39. 4	-(3) + 2.6	+6.7 +4.9	64. 4 54. 3	+2.8 +2.1	+4.8 +2.1
Durable goods							=			-					
Iron and steel and their products, not includ-	100.4	+1.1	+17.8	100 0	102	+37.3	29, 01	+5,3	140 5	42.0		+8.2	00.7		. ~ .
ing machinery. Blast furnaces, steel works, and rolling mills	109.3	+1.5	+18.4	102.0 115.4	+6.5 +9.9	+42.4	31.59	+8.3	+16.5 +20.1	43.2 43.5	5 0	+10.0	66.7 73.0	+5.6 $+8.3$	+7.0 +9.6
Bolts, nuts, washers, and rivets	83.8 66.9	$+4.0 \\ +2.0$	+17.9 +18.8	98. 4 52. 5	$+11.1 \\ +10.0$	$+36.3 \\ +40.8$	27. 24 21. 39	+6.9 +7.8	+15.6 +18.4	45. 4 41. 1	+2.5 +5.2	+11.0 +13.0	60. 2 51. 6	$\begin{array}{c c} +4.4 \\ +2.7 \end{array}$	+4.1
Cast-iron pipe Cutlery (not including silver and plated cut-		l '		32.0					1 ') 1		1	51.0]	+4.5
lery) and edge tools Forgings, iron and steel	87.1	+1.6	+8.5	85.4	+3.6	+17.7	24. 18	+1.9	+8.4	45.8	+.4	+9.3	53.6	+1.2	-1.3
Hardware	68. 2 95. 7	+6.0 +4.5	+19.7 +17.5	67. 5 93. 5	+15.8 -12.0	$+38.1 \\ +11.2$	30. 79 22. 08	+9.3 -15.7	+15.5 -5.5	47.3 39.2	+6.0 -12.6	+7.7 -6.5	65. 2 56. 7	+3.0 -4.3	$+7.1 \\ +1.2$
Plumbers' supplies	87.4	+1.8	+3.9	69.6	+10.0	+17.6	24. 74	+8.1	+13.4	42.9	+8.3	+9.9	57. 6	1	+3.0
Steam and hot-water heating apparatus and	73. 2	7	+23.2	67. 4	+2.3	+44.6	26, 85	+3.1	+17.2	44.1	+1.2	+13.3	61.0	+1.9	+3.7
steam fittingsStoves		-6.0	+14.7	96.0	-6.8	+27.6	25. 73	8	+11.1	43.7	-1.3	+10.1	59.3	+.7	+.8
Structural and ornamental metalwork	70.1	-4.2	+31.3	65.7	+.2	+57.6	26.37	+4.7	+19.9	43.4	+.8	+15.2	60.8	+4.0	+4.1
Tin cans and other tinware Tools (not including edge tools, machine tools,	94.4	-1.4	+3.5	93. 5	+1.4	+6.3	21.88	+2.8	+2.8	39.9	+1.7	+1.5	55, 4	+1.4	+1.4
files, and saws)	96.2	+2.9	+21.5	104.5	+7.1	+29.8	25.40	+4.1	+6.9	46.1	+1.7	+4.6	55.1	+1.7	+1.9
Wirework	187.6	+7.4	+26.7	182. 5	+5.5	+33.0	24.62	-1.8	+6.5	42, 3	-6.4	+1.3	58. 2	+4.9	+5.1
Machinery, not including transporation equipment	114, 1	+2,4	+19.0	113, 6	+7.6	+33.5	27, 43	+5.1	+12.3	43, 5	+2.7	+8.5	63, 0	+2.1	+4,0
Agricultural implements	102.9	+10.5	-14.0	121.5	+19.1	-6.4	26.46	+7.8	+8.9	40.9	+1.9	+2.1	64.8	+6.1	+6.5
Cash registers, adding machines, and calculating machines		'	1	ĺ				1	1	"					·
lating machines.	120. 7 105. 8	+1.0	+10.0	122, 9 103, 1	+10.2	+21.5 +38.7	31. 43 26. 86	$+9.0 \\ +3.6$	+10.4 +10.1	42.9 42.1	$+7.2 \\ +1.9$	+3.1 +7.6	74. 0 63. 4	+1.7	$^{+6.9}_{+2.8}$
Electrical machinery, apparatus, and supplies. Engines, turbines, tractors, and water wheels.	123.5	$+2.7 \\ +4.5$	+26.0 +13.4		+6.4 +10.9	+25.0	29.73	+6.2	+10.1	42.1	+1.9	+4.6	72.6	+1.8 +4.2	+2.8 +6.1

Foundry and machine-shop products. Machine tools. Radios and phonographs. Textile machinery and parts. Typewriters and parts. Transportation equipment. Aircraft. Automobiles. Cars, electric and steam-railroad. Locomotives. Shipbuilding. Railroad repair shops. Electric railroad. Steam railroad. Nonferrous metals and their products.	99. 4 130. 7 202. 7 76. 9 143. 6 122. 1 690. 9 138. 7 56. 8 43. 8 89. 9 61. 2 63. 4 61. 0	+2.4 +2.3 +3.9 +6.2 +6.9 +1.1 +8.1 +7.7 +1.0 +1.5	+21.6 +21.7 +6.6 +13.9 +24.6 +17.4 +61.8 +15.9 +32.8 +81.9 +6.1 +13.8 +3.4 +14.7 +14.7	100. 2 135. 5 167. 5 78. 8 137. 6 120. 9 619. 9 135. 7 59. 3 31. 4 90. 6 65. 5 67. 6 105. 5	+7.4 +9.0 -1.2 +17.0 +2.4 +6.6 +12.1 +7.9 +1.4 -6.9 +3.0 +3.4	+38.9 +34.3 +21.9 +26.9 +39.7 +31.3 +71.1 +30.7 +50.1 +118.3 +9.9 +18.7 +9.1 +19.7 +27.1	27. 96 31. 16 21. 67 27. 55 25. 59 31. 46 28. 25 32. 22 25. 83 28. 10 28. 02 30. 74 29. 95 30. 87 25. 36	+4.8 +6.5 +2.7 +12.7 9 +.4 +4.9 2 +5.2 +2.9 6 +1.9	+14. 2 +10. 3 +14. 3 +11. 5 +12. 1 +11. 7 -2. 1 +12. 9 +13. 8 +20. 5 +4. 3 +5. 6 +4. 3 +11. 8	45. 1 47. 5 38. 9 44. 5 40. 2 45. 4 40. 4 40. 0 43. 6 35. 0 44. 7 45. 6 45. 8	+3.1 +4.3 +.95 -1.2 +2.0 +5.5 -2.8 +2.1 -2.1 2.1 2.1	+9.7 +6.1 +10.1 +8.9 +14.0 +5.7 +4.1 +5.6 +8.2 +14.5 +1.4 +3.8 +.5 +4.2 +5.9	61. 8 65. 6 55. 7 62. 0 57. 4 78. 4 62. 8 79. 9 64. 4 79. 4 69. 2 65. 3 69. 5 57. 7	+1.6 +2.2 +1.8 +2.7 +2.5 -2.6 +2.0 +1.3 +2.7 -2.7 +2.7 -2.7 +2.7	+4.5 +4.0 +3.9 +1.3 +5.5 +7.1 +4.3 +5.2 +1.3 +5.6
Aluminum manufacturesBrass, bronze, and copper products	117. 7 116. 2	9	+17.0 +15.4	114.7 111.6	2 + 7.5	+28.2 +32.8	24. 59 27. 31	+.7 +4.4	+9.4 +15.0	42.8 44.0	-1.4 + 2.2	$\begin{array}{c c} +2.6 \\ +6.2 \end{array}$	57. 5 62. 1	$^{+1.9}_{+2.2}$	+7.2 +8.2
Clocks and watches and time-recording									l		•				•
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.	121. 3 92. 8 101. 4 73. 5 81. 1 162. 4 67. 1 87. 8	+.7 -7.8 +4.3 5 +2.1 +4.1 -1.0 6 +1.2 -1.9	+13.6 +14.4 +27.2 +5.6 +4.1 +12.6 +10.4 +18.6 +19.9 +3.6	117. 9 74. 6 104. 2 71. 3 70. 1 164. 2 60. 5 78. 3	-3.3 -4.3 +7.5 4 +5.9 5 +.9 +2.2 -2.6	+18.3 +19.7 +44.8 +24.5 +12.7 +23.5 +35.4 +35.5 +11.3	22. 78 24. 17 25. 91 26. 80 25. 51 23. 28 20. 28 21. 24 21. 64 19. 01	-4.0 +3.8 +3.0 +.1 -1.8 +1.7 +.6 +1.5	+4. 2 +4. 7 +13. 5 +18. 0 +8. 2 +12. 6 +11. 9 +14. 2 +13. 0 +7. 5	44. 8 41. 9 44. 2 47. 3 42. 4 43. 8 45. 1 45. 7 42. 1	-3.9 3 -2.4 +1.6 -2.6 +1.1 +.1 +.7 1	+1.0 +3.2 +6.0 +26.9 +1.3 +8.2 +6.8 +9.6 +11.8 +5.3	51. 0 57. 3 58. 7 57. 8 60. 2 53. 3 46. 5 47. 2 47. 4 45. 8	+1.0 +4.9 +5.5 +1.1 +.9 +.5 1 +1.0 +.4	+3.9 +1.3 +7.0 -3.9 +6.9 +4.8 +1.6 +1.0 +1.2
Stone, clay, and glass products Brick, tile, and terra cotta Cement Glass	67. 1 48. 8 62. 0 100. 6	3 -1.6 -3.5 +3.1	+11.6 +22.8 +31.3 +.9	59. 1 40. 9 58. 8 95. 1	-3.3 5 -6.8 -4.2	+19.9 +40.1 +53.0 +2.6	22, 32 20, 31 23, 42 22, 74	-3.0 +1.1 -3.5 -7.1	$ \begin{array}{r} +7.4 \\ +14.2 \\ +16.3 \\ +1.5 \end{array} $	40. 1 43. 2 39. 7 37. 7	-3.4 -1.8 -4.6 -6.6	+5.2 +9.9 +13.3 5	56. 3 4 7. 6 59. 1 60. 4	+1.0 +3.6 +1.1 7	+1.8 +4.9 +3.0 +1.9
Marble, granite, slate, and other products	41. 0 76. 5	-5.3	+17.4 +5.7	33. 2 65. 2	-2.7 -2.7	+31.4 +12.2	23. 91 22. 71	+2.8 -2.1	$\begin{array}{ c c c c c } +12.2 & \\ +6.2 & \\ \end{array}$	38. 4 41. 8	+2. 2 ·	+11.7 +5.1	62. 5 55. 4	+1.3 + .8	2
•	70.5	7	73.7	00. 2	-2.1	712.2	22, 71	-2.1	70.2	41.0	9	75.1	JJ. 4	7.0	71.0
Nondurable goods									J	İ				. 1	
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 See footnotes at end of table,	106. 4 101. 7 97. 9 101. 4 105. 8 122. 8 85. 5 121. 8 81. 4 91. 6 114. 8 107. 8 154. 0	+1.5 +2.9 +3.8 +1.9 +2.2 +4.3 +3.3 +.7 +1.8 +9.3 -1.0 +1.2 -2.6	+6.4 +5.8 +14.9 +12.1 +6.6 +3.4 -1.1 +5.7 -6.2 +8.0 +5.2 +9.2	94. 6 96. 8 96. 5 98. 2 106. 2 116. 4 82. 5 126. 2 68. 4 84. 3 86. 3 84. 9 103. 6	+8.5 +11.6 +7.7 +11.7 +91.2 +15.7 +21.2 +1.6 +7.6 +2.0 +7.1 +.9	+14.0 +15.4 +36.1 +24.3 +11.5 +7.9 +11.7 -2.7 +10.1 +11.1 +11.9 +10.5	17. 98 18. 00 23. 34 15. 35 18. 83 22. 92 26. 18 18. 01 16. 42 21. 18 17. 91 18. 95 18. 60	+6.9 +8.4 +3.7 +9.6 +6.9 +11.0 +17.3 +.8 +5.5 +16.8 +3.2 +5.9 +3.7	+7.1 +9.0 +18.5 +11.1 +4.3 +14.6 +9.1 +5.7 +3.7 +11.5 +2.9 +6.3 +1.2	37. 9 39. 8 40. 7 39. 8 41. 4 42. 8 38. 2 38. 8 38. 7 40. 0 33. 9 33. 6 32. 8	+3.8 +4.3 +4.1 +5.0 +17.5 +1.2 +3.8 +2.2 +4.0 +3.0	+6.4 +15.3 +5.8 +4.7 +12.9 +4.7 +7.6 +5.3 +4.1 +7.3 +11.7 +4.3	47.1 45.1 57.5 38.6 53.3 68.0 47.5 42.3 53.0 51.4 55.7 54.6	+2.9 +4.0 +2.6 +5.3 +2.0 +5.2 +.4 -(3) +1.9 +7.1 +1.5 +1.3 +3.0	+.3 +2.4 +2.6 +5.1 +.8 +1.8 5 -2.2 +7.3 -2.7 -2.5

Table 3.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, December 1936—Continued

Manufacturing (indexes are based on 3-year average 1923-25=100)—Continued

	Eı	mployme	nt		Pay rolls			erage wee			ge hours v			erage hou	
Industry	Index De- cember		ntage from—	Index De- cember	Perce change		De-	Perce change	ntage from—	De-		ntage from—	De-	Perce change	
	1936 (re- vised series)	No- vember 1936	De- cember 1935	1936 (re- vised series)	No- vember 1936	De- cember 1935	cember 1936	No- vember 1936	De- cember 1935	cember 1936	No- vember 1936	De- cember 1935	cember 1936	No- vember 1936	De- cember 1935
Nondurable goods—Continued															
Textiles and their products—Continued. Corsets and allied garments Men's furnishings. Millinery.	89. 3 140. 6 44. 9	-1. 2 -1. 7 -6. 0	+3.8 +18.8 -1.1	88. 0 115. 1 29. 2	-0.1 -8.2 -6.6	+9.6 +15.0 7	\$16. 24 14. 94 18. 15	+1. 1 -6. 7 6	+5.6 -3.3 +.5	36. 2 38. 5	+3.3 2	+10.8 +1.0	Cents 44. 1 34. 8	-1.9 -5.6	-5.8 -7.0
Shirts and collars Leather and its manufactures Boots and shoes Leather Food and kindred products Baking Beverages	122. 8 94. 0 94. 1 98. 4 110. 6 132. 2 181. 0	$ \begin{array}{r} -1.6 \\ +5.6 \\ +7.1 \\ +(3) \\ -3.1 \\6 \\ -1.1 \end{array} $	+11.1 +3.6 +5.0 -1.3 +7.3 +6.1 +12.0	112. 1 78. 3 71. 4 105. 0 105. 7 119. 8 187. 6	-3.8 +16.3 +22.7 +4.2 -2.4 5 -1.9	+13.9 +7.4 +7.8 +6.7 +13.3 +11.1 +14.5	13. 79 19. 40 18. 23 23. 72 22. 82 23. 36 30. 40	-2.3 +10.2 +14.4 +4.1 +.7 +.2 8	+2.3 +3.6 +2.5 +8.2 +5.6 +4.8 +2.3	36.8 39.0 38.4 41.3 42.0 42.4 38.8	-2.8 +10.5 +13.2 +3.1 5 8 -1.1	+3.4 +3.8 +3.4 +5.4 +2.9 +5.6 +.6	37. 4 51. 6 50. 0 57. 6 54. 2 55. 3 78. 7	+.6 +.4 +.4 +1.3 +1.8 +1.1 +.2	-2. 2 9 -1. 9 +2. 6 +3. 9 +2. 0 +. 9
Butter Canning and preserving Confectionery Flour Ice cream Slaughtering and meat packing Sugar, beet Sugar refining, cane Tobacco manufactures Chewing and smoking tobacco and snuff Cigars and cigarettes Paper and printing Boxes, paper Paper and pulp	81. 6 96. 8 90. 6 74. 3 61. 2 99. 4 172. 5 69. 0 63. 3 56. 4 106. 0 106. 3 112. 8	-1.1 -1.3 -1.3 -1.5 -1.6 +2.5 -36.9 +1.4 -3.9 -1.2 -4.3 +1.0 +.2 +.8	+12.0 +4.9 +3.0 -7 +4.8 +15.8 +6.0 -10.2 +2.8 -1.2 +5.7 +9.2 +3.9	62.9 90.8 86.3 69.7 55.1 101.5 151.8 59.3 55.4 64.8 102.6 108.3 108.6	-3.3 -7.5 +2.1 -1.1 +1.7 -43.5 +1.2 +1.1 +4.2 +4.1 -3.9	+4.9 +14.3 +4.3 +5.5 +6.6 +7.6 -9.4 +7.6 +8.7 +7.5 +13.2 +14.9 +15.9	21. 49 15. 25 17. 30 23. 67 27. 45 20. 15 23. 08 16. 10 17. 28 15. 86 28. 03 20. 63 24. 25	-2.8 +8.0 +3.5 6 59 -10.4 2 +5.2 +5.2 +5.1 6 +3.1	+.5 +9.0 +1.3 +6.3 +1.7 +8.5 +1.5 +1.5 +1.5 +1.5 +2.2 +1.6	36. 7 42. 4 43. 9 46. 7 44. 1 44. 9 41. 1 37. 5 37. 7 41. 7 44. 0 44. 1	+2.9 +1.9 -1.2 -1.4 +(3) -15.3 6 +2.0 +4.9 -1.3 +1.3	+3.5 +2.4 +8.4 +5.0 -1.1 +.6 +1.4 +4.7 +5.8 +6.2 +7.8	42. 4 40. 7 53. 5 57. 8 58. 1 45. 1 54. 3 42. 6 46. 0 42. 3 70. 5 47. 4 55. 0	+4.7 +.7 +.7 +.9 -4.6 +2.0 +3.4 +.38 +1.0 +1.9	+6.5 -2.3 -1.8 -3.8 +2.2 +2.8 +5.4 +2.6 -7 +3.3
Printing and publishing: Book and job Newspapers and periodicals	97. 4 106. 0	+1.9 +.7	+8.0 +3.4	93. 2 105. 4	+6.4 +3.5	+13. 2 +10. 7	30. 32 37. 33	+4.4 +2.8	+4.7 +7.1	41. 4 38. 3	+4.5 +2.0	+5.4 +3.8	74. 2 94. 9	1 +1. 3	6 +1.3

Chemicals and allied products, and petroleum refining. Other than petroleum refining Cottonseed—oil, cake, and meal Druggists' preparations. Explosives. Fertilizers. Paints and varnishes Rayon and allied products. Soap Petroleum refining Rubber products. Rubber boots and shoes.	119. 3 119. 3 129. 1 98. 0 106. 6 93. 2 80. 4 127. 5 362. 4 98. 8 119. 5 101. 9	3 1 5.4 +.7 -2.3 +1.8 4 -3.5 -1.3 +3.3	+5.4 +6.2 +11.7 -1.8 +3.7 +14.9 +9.6 +5.6 +3.0 +3.4 +17.9 +14.5	118. 3 118. 0 132. 5 82. 1 112. 5 98. 0 71. 6 121. 6 321. 3 104. 3 1194. 8 76. 9	+3.1 +4.1 +3.9 -1.2 2 +13.4 +4.1 +7.7 +2.6 +3.6 +11.1	+14.5 +16.7 +24.7 +3.5 +8.7 +34.8 +16.5 +14.5 +12.3 +8.0 +28.0	25. 76 23. 73 28. 48 11. 63 22. 93 28. 96 14. 53 26. 24 21. 90 25. 86 30. 95 27. 67 23. 19	+3.5 +4.2 +4.6 +4.3 -1.5 +2.0 -1.5 +8.2 +6.4 +1.6 +7.6	+8.7 +9.9 +11.8 +5.2 +4.9 +17.4 +6.1 +8.4 +10.1 +8.9 +5.4 +11.4	40. 0 41. 2 41. 3 54. 3 40. 1 39. 9 39. 2 42. 3 38. 4 40. 1 36. 5 39. 7	+.6 +.8 6 +2.0 7 -3.3 1 +.5 +4.0 +.1.2 +1.2	+2.6 +3.3 +3.3 +7.1 +4.1 +9.4 +8.4 +4.3 -1.1 +2.5 -1.1 +3.9	65. 6 58. 7 68. 8 21. 5 54. 1 72. 6 37. 0 62. 3 57. 0 64. 7 85. 7 72. 5 55. 6	+3.0 +3.6 +5.1 +2.6 +(3) +5.5 -1.5 +1.8 +4.1 +5.7 +2.1 +5.4	+6.5 +7.3 +7.9 -1.3 4 +7.4 -1.2 +3.8 +10.7 +6.3 +5.8 +4.6
Rubber goods and shoes. Rubber goods, other than boots, shoes, tires, and inner tubes. Rubber tires and inner tubes.	137. 8 92. 5	+1.6 +1.7	+14.5 $+13.2$ $+22.3$	139. 2 99. 7	+6.7 +8	+27.7 $+28.2$ $+28.0$	23. 41 31. 56	+5.0 9	+11.4 +13.1 +4.5	42. 9 35. 8	+2. 2 +3. 5 9	+10.6 1	55. 3 88. 7	+1.7 +.1	+3.1 +3.9

Nonmanufacturing (indexes are based on 12-month average 1929=100)

]							
54.8	+6.5	4.4	55, 4	+37.7	+(3)	\$29.41	+29.3	+4.6	34.7	+26.0	+3.7	84. 0	+1.3	+1.1
1 83.9														3
64.4		-1-20 a												+8.0
49 4														+1.6
79 4													1.5	-2.5
12.3		, , , ,	01.0	1 1.0	7 2.0	01.01	10.1	1 11.0	10.0	1 2.2	[10.1	10.0	1,.0	2.0
73.6	1	450	89.4	ا ا	⊥ஓவ	20.86	410	120	38 6	_ 1	1 1 5	80.4	±11	+2.8
10.0		T 0. 0	02. 4	7.5	70.0	20.00	71.0	70.0	J 0. 0	1	T.0	30. 4	7-1.1	7-2.0
02.2	. 2	1274	02.0	1.99	101	22.45	.195	1115	40.7	197	116	80.0	_(3)	+.9
90. Z	5	71.4	90.0	T2.2	Ta. 1	32.40	T2.0	T1.0	40.7	T2.1	T1.0	80. 2	-(5)	7.8
79.5	7	100	60.9		140	20.07	ا ا	امدا	40.0	1 (3)	اه	010	10	+3.3
12.0	I '	74.0	09. 3	5	7-4.9	30.81	1 +.2	71.9	40.9	+(9)	0	04. 8	1 7.0	73.3
01.0	112	140	700		100	00 07	١ , .		49.0		اما	65.0	10	
100.0														+.7
100.0										1 3:5				+.7
145.5														9
88.1	+3.6										+.9	54.3		+1.4
84.0	7.7													+2.8
1 87 6	+.7						+1.5							+.9
77.7	-4.5								41.9		+1.3		+(3)	+1.9
.] (°)	+.8	+11.1	(5)	+1.6					(5)		(5)	(4)	(5)	(8)
. (5)	+.1	+i.1	(5)	+.2					(5)		(5)	(8)	(6)	(5)
.1 (5)	-7.9	+30.7	(5)	-9.1	1 +52.6	28.69	-1.2	+16.9	33.1	-2.2	+8.6	86.0	+1.0	十7.7
	83. 9 64. 4 49. 4 72. 4 73. 6 93. 2 72. 5 91. 0 100. 0 145. 5 88. 1 84. 0 87. 6 77. 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$												

¹ Average weekly earnings are computed from figures furnished by all reporting establishments. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments as all reporting firms do not furnish man-hours. Percentage changes over year are computed from indexes. Percentage changes over month in average weekly earnings for the manufacturing groups, for all manufacturing industries combined, and for retail trade are also computed from indexes.

² Comparable indexes for earlier years are available in mimeographed form and will be furnished by the Bureau of Labor Statistics on request.

² Less than 1/10 of 1 percent.

⁴ Cash payments only; the additional value of board, room, and tips cannot be computed.

⁴ Not available.

Indexes of Employment and Pay Rolls

General indexes of factory employment and pay rolls, adjusted to the 1933 Census of Manufactures, are given in table 4 for the months January 1919 to December 1936. The accompanying chart indicates the trend of factory employment and pay rolls as shown by the adjusted indexes. Indexes for 13 nonmanufacturing industries including 2 subgroups under retail trade, by months, January 1935 to December 1936, inclusive, are presented in table 5.

The indexes of factory employment and pay rolls are computed from returns supplied by representative establishments in 89 manufacturing industries and cover only wage earners. The base used in computing these indexes is the 3-year average 1923–25 as 100. In December 1936 reports were received from 25,086 manufacturing establishments employing 4,716,875 workers whose weekly earnings were \$117,943,756. 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.

The indexes for nonmanufacturing industries are also computed from data supplied by reporting establishments, but the base is 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 crude-petroleum 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 4.—General Indexes of Factory Employment and Pay Rolls, by Months, January 1919 to December 1936, adjusted to 1933 Census of Manufactures [1]

[1923-25=100]

[1220 20100]															
Month and year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Aver- age		
	·	·		'				·	<u>'</u>	<u>'</u>		`	_		
	Employment														
1919	104. 8 114. 3 80. 9 82. 5 100. 8 100. 7 98. 2 94. 8 100. 6 97. 1 79. 5 69. 1 62. 6 76. 5 82. 2 86. 8	101. 6 113. 3 82. 4 84. 5 102. 6 101. 5 98. 2 101. 7 99. 7 96. 4 102. 9 97. 1 80. 1 70. 3 63. 7 81. 1 85. 1 86. 9	101. 9 115. 5 83. 0 85. 7 104. 7 101. 7 99. 1 102. 2 100. 3 97. 4 104. 1 96. 5 69. 3 61. 5 84. 4 86. 2 87. 9	102. 0 114. 0 82. 0 85. 5 105. 2 100. 0 98. 9 101. 5 99. 6 97. 0 105. 3 96. 1 80. 4 67. 1 62. 9 86. 0 86. 3 89. 1	102. 6 111. 5 81. 8 87. 8 105. 3 96. 7 98. 2 100. 4 99. 0 105. 2 94. 5 79. 8 64. 6 65. 8 86. 2 84. 8 89. 8	103, 8 110, 6 80, 9 89, 5 106, 0 93, 8 98, 1 100, 4 99, 1 97, 6 105, 4 92, 6 78, 0 62, 5 70, 2 84, 9 83, 2 90, 1	106. 5 108. 1 79. 7 87. 8 104. 9 90. 8 98. 0 97. 5 105. 9 89. 3 76. 9 82. 5 96. 4 74. 9 82. 5 83. 5	109. 1 108. 4 81. 3 91. 0 105. 2 92. 1 99. 7 101. 4 99. 3 100. 1 107. 7 88. 6 77. 0 61. 8 79. 6 83. 6 86. 3 93. 5	111. 2 107. 1 83. 3 94. 0 105. 6 94. 3 101. 6 103. 5 100. 4 102. 1 108. 7 89. 5 77. 3 65. 1 83. 2 80. 1 88. 1 95. 5	110. 8 103. 4 84. 1 96. 7 104. 4 95. 1 102. 2 103. 1 99. 5 102. 4 107. 5 87. 6 74. 6 66. 3 82. 8 82. 2 89. 7	112. 0 97. 2 84. 2 98. 4 103. 1 94. 7 101. 9 101. 3 97. 3 101. 5 103. 3 84. 4 72. 0 65. 5 79. 5 80. 4 88. 8 96. 9	113. 8 89. 6 83. 2 99. 7 101. 3 96. 1 101. 6 100. 0 99. 6 82. 1 71. 2 64. 3 77. 6 81. 5 88. 3 2 98. 1	106. 7 107. 8 82. 2 90. 3 104. 1 99. 5 101. 3 98. 9 98. 7 104. 7 91. 3 77. 3 65. 5 72. 0 82. 5 86. 0 91. 9		
	1936 86.8 86.9 87.9 89.1 89.8 90.1 91.2 93.5 95.5 96.7 96.9 2 98.1 91.4 Pay rolls														
1919 1920 1921 1922 1923 1923 1924 1925 1926 1927 1938 1931 1931 1932 1933 1934 1935 1936	96. 2 118. 3 83. 7 70. 3 94. 8 98. 7 100. 9 98. 2 95. 9 102. 4 95. 6 69. 9 53. 6 40. 1 54. 6 65. 0 73. 8	90. 4 116. 7 82. 1 73. 1 98. 1 104. 1 100. 9 105. 1 104. 3 101. 1 109. 3 98. 6 74. 1 54. 8 41. 0 61. 3 70. 0 73. 7	91. 0 124. 8 82. 4 75. 3 102. 8 104. 1 102. 6 106. 6 105. 7 102. 6 111. 6 98. 6 75. 1 37. 9 65. 6 71. 7 77. 6	90. 0 122. 0 79. 7 74. 2 104. 1 101. 9 100. 1 104. 3 104. 3 104. 3 100. 5 112. 7 97. 5 74. 2 49. 4 39. 8 68. 1 71. 7	90. 9 123. 5 78. 1 77. 6 107. 5 97. 5 100. 8 103. 0 104. 1 1101. 3 112. 9 95. 1 73. 1 46. 8 43. 7 68. 1 69. 4 80. 8	92. 9 125. 3 76. 2 80. 9 107. 7 92. 2 98. 8 103. 2 102. 4 101. 7 111. 2 92. 0 69. 5 43. 5 48. 1 66. 0 67. 4 81. 1	95. 6 120. 4 72. 4 78. 6 103. 4 85. 4 96. 9 98. 9 98. 1 107. 1 84. 1 66. 1 40. 2 51. 7 61. 4 66. 5 80. 2	100. 9 122. 7 74. 6 83. 2 103. 8 89. 2 99. 5 103. 3 101. 7 103. 2 112. 0 83. 1 65. 8 41. 0 57. 7 63. 2 71. 0 83. 5	105. 7 120. 9 74. 2 87. 1 104. 2 92. 3 98. 8 104. 3 101. 2 104. 6 112. 8 83. 8 63. 3 60. 6 59. 1 73. 7 83. 6	103. 2 116. 9 73. 4 89. 6 106. 5 94. 9 104. 7 107. 4 102. 0 108. 0 112. 3 82. 0 61. 4 45. 3 60. 4 62. 2 76. 4 89. 0	107. 7 108. 1 72. 5 93. 4 104. 4 93. 4 104. 0 98. 4 105. 0 104. 1 76. 6 58. 1 43. 5 56. 4 60. 7 75. 6 90. 7	115. 0 99. 0 74. 0 95. 7 102. 8 97. 7 105. 1 103. 3 99. 4 105. 7 100. 5 75. 0 57. 5 57. 5 57. 5 64. 2 2 95. 1	98. 3 118. 2 76. 9 81. 6 103. 3 96. 0 100. 7 101. 7 102. 4 109. 1 88. 5 67. 4 46. 4 49. 4 62. 9 71. 3 82. 4		

¹ Comparable revised indexes for each of 89 manufacturing industries, for the durable- and nondurable-goods groups, for 14 divisions under these groups, and for 2 subgroups under textiles are available in mimeographed form and will be supplied on request.

² The December 1936 employment index without the adjustment would be 93.8 and the corresponding pay-roll index 92.7.

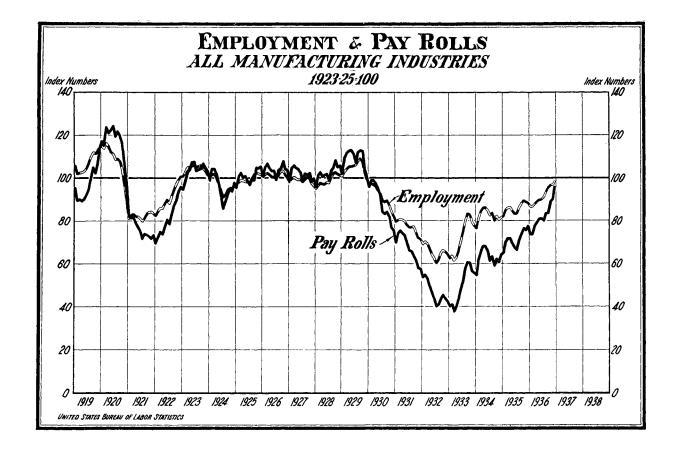


Table 5.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1935 to December 1936 1

[12-month average 1929=100]

	Ant	hraci	te mir	ing	Bi	tumin min		oal	Meta	allifer	ous m	ining			and mini	
Month	Emp		Pay	rolls	Emp me		Pay	rolls	Emp		Pay	rolls	Emp	oloy- ent	Pay	rolls
	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936
January February March April May June	62. 9 64. 4 51. 4 52. 6 53. 5 56. 8	59. 1 61. 2 52. 5 49. 8 54. 9 51. 2	49. 5	54. 4 76. 7 42. 6 28. 6 56. 3 42. 0	80. 0 81. 1 81. 6 74. 3 75. 3 77. 9	79. 8 80. 2 80. 4 77. 5 76. 2 75. 7	59. 6 66. 1 67. 5 45. 0 49. 1 64. 7	70. 6 78. 4 70. 2 62. 6 62. 2 61. 5	44. 3 44. 3 45. 0 46. 0 44. 4 46. 0	54. 2 55. 5 55. 9 57. 5 60. 8 61. 9	29. 9 30. 9	45. 5 47. 7	49.5	39. 4 36. 9 42. 2 48. 4 52. 0 53. 5	20. 8 22. 2 24. 9 28. 9 32. 8 33. 8	36. 1 42. 1
July	49. 4 38. 7 46. 0 58. 8 46. 6 57. 3	48. 4 41. 1 47. 6 49. 9 51. 5 54. 8	37. 5 28. 3 38. 2 55. 9 28. 4 55. 4	37. 2 31. 4 34. 9 48. 5 40. 3 55. 4	70. 0 73. 4 77. 1 74. 3 76. 1 79. 1	75. 5 76. 9 78. 2 81. 1 82. 3 83. 9	35. 9 45. 8 60. 1 69. 8 65. 5 69. 5	62. 6 65. 4 71. 0 79. 2 80. 7 85. 0	45. 2 46. 3 48. 9 51. 6 52. 6 53. 5	61. 3 61. 6 63. 1 64. 2 62. 9 64. 4	35. 4 38. 7 39. 6	48. 2 50. 0 53. 7 54. 6	50. 0 50. 0 46. 7	54.9 54.6	36. 3 35. 4 36. 5 32. 1	44. 8 46. 2 43. 5
Average	53. 2	51.8	47. 5	45.7	76.7	79. 0	58. 2	70.8	47. 3	60. 3	33. 9	48.4	46.0	49. 5	30. 7	38. 9
11101450	Cr	ude-pe prodi	etrole: icing	ım	Т	elepho teleg		ıd	po	tric l wer a ctured	nd m		m tic	otor	ilroad bus o	pera-
Month	Emp		Pay	rolls	Emp		Pay	rolls	Emi		Pay	rolls	Emp		Pay	rolls
	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936
January February March April May June	74. 9 74. 2 74. 0 74. 9 76. 0 76. 7	70. 8 70. 9 71. 3	55. 5 54. 9 56. 0 56. 7 57. 8 59. 2	55. 7 55. 7 56. 0 57. 1 58. 0 58. 9	70. 5 70. 0 69. 8 69. 7 70. 0 70. 2	70. 1 69. 9 70. 2 70. 8 71. 6 72. 1	73. 9 72. 9 75. 3 73. 1 73. 7 74. 4	75. 0 76. 2 77. 2 76. 0 78. 5 77. 4	82. 7 82. 2 82. 3 82. 6 83. 3 83. 9	86. 1 86. 8 86. 8 88. 0 89. 0 90. 4	79.0	84. 8 84. 7 85. 9 86. 2 87. 0 88. 1	71.4	70. 7 71. 7 71. 2 71. 3 71. 5 71. 7	62. 9 63. 1 63. 4 63. 3 63. 6 63. 9	65. 0 68. 3 67. 8 65. 9 66. 1 66. 8
July	77. 4 76. 3 75. 1 74. 7 73. 0 71. 9	75. 4 75. 0 74. 5 73. 6 73. 2 72. 4	60.9	60. 4 59. 7 60. 4 59. 6 60. 1 61. 3	70. 3 70. 5 70. 4 70. 0 69. 8 69. 6	73. 1 73. 5 73. 7 73. 8 73. 7 73. 6	75. 7 75. 5 73. 8 74. 9 74. 9 75. 6	79. 9 81. 2 78. 8 83. 1 81. 6 82. 4	84. 8 86. 8 86. 9 87. 4 87. 6 86. 8		84.4	89. 8 89. 8 91. 4 92. 7 91. 8 93. 8	71. 5 71. 2 71. 0 71. 1 71. 1 70. 5	72. 4 72. 4 72. 8 73. 1 73. 0 72. 5	63. 4 63. 3 64. 0 64. 1 63. 8 66. 1	66. 5 66. 4 67. 7 69. 7 69. 3
Average	74. 9	72. 9	57. 9	58. 6	70. 1	72. 2	74. 5	78. 9	84.8	90. 5	81.4	88.8	71. 2	72. 0	63. 7	67. 2

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.

Table 5.—Indexes of Employment and Pay-Rolls in Selected Nonmanufacturing Industries, January 1935 to December 1936—Continued

	w	holesa	ıle tra	de	Tot	tal ret	ail tra	ıde	er		de –g nerch				ade- neral ng	
Month	Emp me		Pay	rolls	Emp		Pay	rolls	Emp		Pay	rolls	Emp		Pay	rolls
	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936
JanuaryFebruaryMarchAprilMayJune	84. 2 84. 6 84. 0 83. 2 82. 5 82. 1	85. 6 85. 6 85. 6 85. 7 84. 6 84. 6	64. 6 65. 2 64. 8	69. 0 67. 9	79. 2 80. 2 83. 5 82. 2	79. 7 81. 9 85. 2 85. 0	59. 7 59. 3 60. 4 62. 5 62. 0 62. 5	62. 1 61. 6 63. 5 65. 3 65. 8 66. 4	88. 6 94. 4 91. 3	88. 2 85. 1 90. 9 97. 4 95. 5 96. 4	77. 5	76. 4 73. 9 77. 3 81. 0 80. 8 81. 3	77. 4 77. 3 78. 0 80. 7 79. 8 79. 8	78. 4 78. 3 79. 5 82. 0 82. 3 82. 6	56. 9 56. 6 57. 6 59. 4 59. 0 59. 5	59. 1 59. 1 60. 7 62. 1 62. 7 63. 3
July	82. 1 82. 7 83. 7 85. 7 86. 4 86. 8	85. 4 86. 3 88. 0 89. 0 89. 7 91. 0	67. 2 66. 8 66. 9	69. 7 ³ 70. 5 ³ 71. 5 ³ 73. 1	81.8 83.8 84.6	86.6	60. 5 59. 3 62. 5 63. 2 63. 4 69. 3	66. 6 68. 3 70. 1		103, 9 3109 3	77. 2 79. 8 82. 0	91.4	77. 7 76. 7 79. 1 80. 3 80. 1 82. 7		58. 1 57. 2 59. 4 59. 8 59. 6 62. 0	62. 6 61. 9 63. 3 64. 4 65. 7 67. 5
Average	84.0	86. 7	65. 6	69. 4	82. 3	85. 7	62. 1	66. 3	94. 2	99. 2	78.0	83. 6	79. 1	82. 2	58.8	62.7
					Yea	ar-rou	nd ho	tels		Laur	dries		Dyei	ing an	d clea	ning
	Mon	th				oloy- ent	Pay	rolls		oloy- ent	Pay	rolls		oloy- ent	Pay	rolls
					1935	1936	1935	1936	1935	1936	1935	1936	1935	1936	1935	1936
February March April May	anuary Pebruary March April Way une						62. 2 63. 5 63. 9 63. 6 63. 7 63. 5	66. 5 66. 0 66. 3 67. 0	79. 6 79. 7 80. 0 81. 1	81. 2 82. 1 83. 2 85. 5	64. 1 64. 6 65. 5 66. 6	67. 8 69. 9 70. 9 75. 6	70. 3 69. 6 72. 5 79. 9 80. 9 83. 6	70.3 74.7 81.8 87.3	49. 8 53. 5 61. 9 61. 7	49. 0 56. 4
August September October November	fuly				80. 3 80. 7 81. 1 81. 6 81. 5 80. 8	83. 2 84. 2 85. 4 84. 6	62. 0 63. 1 64. 3 64. 8	67. 5 69. 6 69. 6	84. 2 83. 0 81. 9 81. 3	89. 6 89. 6 87. 6 87. 0	69. 2 67. 9 67. 1 66. 7	79. 0 76. 7 76. 6 75. 3 74. 5 76. 1	79. 4 82. 1	83. 5 86. 7 86. 5 81. 3	58. 2 63. 1 61. 1 55. 4	66.7 60.2
A verage_					81.0	83. 6	63. 4	67. 2	81.5	86. 1	66.9	73. 9	77. 5	81. 2	57.9	61. 7

³ Revised.

In table 6 are presented general indexes of factory employment and pay rolls by yearly averages, 1923 to 1936, inclusive, and by months January to December 1936, 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 over the period 1923-33 have been adjusted to conform with the annual averages and totals shown in published reports of the Census of Manufactures. Indexes for subsequent months are subject to revision as adjustments will be made to bring them into conformity with later census data when they become available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries

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

			I	ron and	steel an	d their	product	s, not	includi	ng mae	chinery	
Month and year	Genera	al index		able- group		ırable- group	Group	index	naces works	t fur- , steel s, and g mills	wasi	nuts, hers, rivets
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay	Em- ploy- ment	Pay	Em- ploy- ment	Pay rolls
1923 1924 1925 1927 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936	104. 1 96. 4 99. 5 101. 3 98. 9 98. 7 104. 7 91. 3 77. 3 65. 5 72. 0 82. 5 86. 0 91. 9	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	104. 6 96. 4 99. 0 101. 7 95. 6 98. 1 103. 7 86. 1 67. 3 52. 8 56. 7 69. 7 75. 5 84. 7	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	103. 5 96. 4 100. 1 100. 9 102. 4 101. 6 105. 8 96. 9 79. 2 88. 4 96. 1 97. 3 99. 5	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	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	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. 1	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	104. 5 96. 5 99. 0 103. 0 96. 7 100. 6 109. 6 87. 7 53. 6 27. 4 40. 5 55. 4 93. 6	112. 5 89. 5 98. 0 (1) 96. 0 (1) 114. 0 (1) 74. 2 55. 2 59. 8 66. 4 67. 6	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
January February March April May June July August September October November December	86. 8 86. 9 87. 9 89. 1 89. 8 90. 1 91. 2 93. 5 95. 5 96. 7 96. 9 98. 1	73. 8 73. 7 77. 6 79. 3 80. 8 81. 1 80. 2 83. 5 83. 6 89. 0 90. 7 95. 1	78. 7 78. 6 80. 2 82. 3 84. 0 84. 7 84. 6 84. 7 85. 7 89. 2 91. 0 92. 7	66. 9 66. 6 71. 8 76. 0 78. 5 79. 0 75. 9 77. 0 77. 2 85. 3 88. 9 93. 1	95. 4 95. 8 96. 1 96. 3 96. 0 95. 9 98. 2 102. 8 105. 9 104. 7 103. 3 104. 0	82. 5 82. 7 84. 9 83. 5 83. 8 83. 9 85. 6 91. 8 91. 6 93. 7 92. 9 97. 6	84. 4 84. 4 85. 6 87. 8 90. 1 91. 4 93. 0 95. 3 97. 2 98. 9 99. 3	69. 6 70. 3 75. 4 79. 7 83. 0 84. 6 81. 8 86. 1 93. 2 95. 8 102. 0	92. 4 91. 8 92. 8 95. 5 98. 5 99. 7 102. 8 105. 7 107. 2 107. 9 107. 7	76. 6 76. 8 83. 1 89. 1 92. 9 94. 5 92. 5 98. 1 97. 7 101. 8 105. 0 115. 4	72. 1 71. 1 70. 5 73. 6 74. 1 74. 5 75. 5 76. 1 76. 7 78. 5 80. 6 83. 8	71. 3 68. 0 69. 1 78. 2 77. 5 74. 7 74. 3 77. 8 77. 4 86. 6 88. 6 98. 4
Month_and year	Cast	-iron and	Cutler cept and p	ry (ex- silver blated y) and tools	Forgi	ngs—	includir Hard		Plum	-Cont		าศ คท-
	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay rolls	Em- ploy- ment	Pay	Em- ploy- ment	Pay rolls
1923	96. 0 101. 6 102. 4 110. 1 101. 8 92. 4 87. 8 80. 4 71. 5 46. 3 42. 1 54. 5 53. 6 63. 1	94. 6 101. 7 103. 7 110. 5 98. 2 85. 3 85. 2 75. 3 55. 1 22. 1 30. 5 31. 1 44. 3	99. 6 102. 4 98. 0 (1) 94. 6 (1) 74. 2 67. 4 64. 5 77. 0 77. 3 79. 3	97. 9 101. 8 100. 3 (1) 93. 7 (1) 87. 5 (2) 60. 4 47. 2 43. 8 56. 5 62. 1 69. 9	116. 5 97. 4 86. 1 (1) 65. 5 (1) 87. 8 (1) 41. 9 32. 1 33. 4 46. 4 51. 9 59. 5	113. 9 97. 4 88. 7 (1) 97. 8 (1) 97. 8 (1) 32. 5 17. 9 20. 9 34. 7 42. 0 50. 5	101. 6 96. 6 101. 8 100. 8 93. 0 92. 8 101. 7 88. 6 70. 3 58. 9 63. 4 77. 8 80. 4	100. 1 96. 3 103. 6 96. 1 96. 0 106. 9 81. 6 58. 9 42. 6 59. 6 68. 6 79. 8	89. 9 100. 1 110. 0 (1) 96. 7 (1) 92. 5 (1) 65. 1 48. 3 52. 6 52. 2 75. 4 85. 0	89. 5 100. 0 110. 5 (1) 94. 6 (1) 87. 2 (1) 48. 0 27. 3 30. 3 31. 6 51. 1 61. 3	102. 2 97. 7 100. 1 102. 6 99. 3 92. 4 91. 6 78. 3 67. 1 47. 4 51. 6 49. 6 54. 8 66. 5	101, 7 98, 0 100, 3 105, 5 101, 6 94, 4 92, 4 69, 0 46, 3 26, 8 30, 6 34, 3 41, 4 55, 8
January February March April May June July August September October November December	56. 8 57. 8 58. 9 60. 5 62. 0 64. 2 65. 6 66. 4 65. 9 66. 3 65. 6 66. 9	35. 9 37. 4 38. 1 40. 6 44. 5 45. 9 46. 2 47. 8 44. 8 49. 6 47. 8 52. 5	78. 9 79. 4 78. 5 77. 3 75. 9 76. 2 73. 4 76. 4 79. 4 83. 0 85. 8 87. 1	66. 2 66. 5 64. 7 66. 0 63. 7 67. 0 61. 2 68. 2 69. 6 78. 3 82. 5 85. 4	57. 2 56. 3 56. 6 56. 9 58. 3 58. 6 58. 5 58. 5 59. 2 60. 7 64. 4 68. 2	45. 9 46. 4 48. 3 48. 6 49. 4 48. 2 45. 7 48. 0 47. 3 51. 8 58. 3 67. 5	81. 2 79. 6 77. 8 78. 1 77. 5 77. 2 77. 1 69. 1 74. 6 84. 8 91 6 95. 7	77. 1 72. 8 74. 0 76. 8 78. 7 77. 8 71. 7 64. 8 71. 4 92. 9 106 2 93. 5	82. 4 83. 9 84. 7 84. 8 85. 3 85. 4 86. 2 83. 9 85. 6 85. 8 87. 4	53. 8 59. 0 61. 8 58. 2 62. 7 63. 2 56. 1 62. 0 59. 6 66. 0 63. 3 69. 6	57. 5 60. 0 60. 8 62. 7 64. 5 65. 2 65. 8 68. 9 72. 1 73. 0 73. 7 73. 2	44. 8 47. 3 48. 9 50. 2 53. 2 55. 2 55. 6 58. 4 65. 5 67. 4

¹ Data not available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

	Ir	on and	steel and t	heir pro	oducts, no	t includ	ing machi	nery—(Continued	l
Month and year	Stov	⁄es	Structur ornam metaly	ental	Tin car other ti		Tools, recluding tools, me tools, and se	edge achine files,	Wirew	vork
	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 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936	106. 0 95. 0 99. 0 104. 2 96. 2 94. 0 99. 3 83. 1 69. 4 55. 0 64. 3 82. 0 92. 7	103. 5 96. 0 100. 5 105. 8 97. 5 93. 5 98. 8 74. 3 53. 4 40. 8 56. 0 70. 9 85. 8	104. 4 97. 7 97. 9 107. 5 106. 1 106. 5 111. 2 98. 9 76. 0 49. 7 43. 3 53. 6 53. 4 66. 6	104. 0 96. 6 99. 4 109. 9 108. 8 111. 0 112. 8 94. 2 61. 5 29. 9 23. 9 36. 0 57. 5	101. 0 100. 0 99. 0 (1) 98. 4 (1) 104. 3 (1) 83. 7 73. 3 77. 3 89. 2 92. 5 98. 3	97. 7 100. 0 102. 3 (1) 104. 2 (1) 113. 6 (1) 83. 3 65. 8 67. 6 81. 1 87. 9 95. 6	105. 7 102. 2 92. 1 (1) 91. 7 (1) 107. 6 (1) 60. 4 48. 8 53. 5 64. 7 70. 6 83. 4	103. 1 101. 8 95. 1 (¹) 95. 6 (¹) 117. 8 (¹) 51. 1 33. 2 37. 2 52. 9 65. 4 83. 9	93. 1 100. 0 106. 9 (1) 120. 4 (1) 124. 2 (1) 95. 6 87. 6 87. 9 118. 4 127. 1 154. 0	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
January February March April May June July August September October November December	82. 5 90. 0 94. 1 98. 6 99. 9 104. 2 100. 5 108. 2 112. 2 117. 0 114. 6 107. 7	60. 2 73. 4 78. 6 79. 7 81. 5 87. 0 76. 6 90. 0 94. 5 108. 8 102. 9 96. 0	54. 1 54. 4 57. 4 60. 8 65. 1 68. 4 71. 0 74. 8 75. 3 74. 9 73. 2 70. 1	42. 0 41. 6 46. 3 50. 7 56. 3 60. 4 61. 3 65. 5 66. 0 68. 5 65. 5	90. 0 89. 8 92. 3 94. 1 96. 9 100. 9 102. 4 109. 1 111. 6 102. 7 95. 8 94. 4	87. 4 82. 7 90. 8 90. 6 94. 8 98. 1 98. 4 108. 8 112. 5 97. 2 92. 2 93. 5	79. 2 78. 1 79. 4 78. 6 78. 4 79. 8 80. 5 82. 6 85. 1 89. 7 93. 5 96. 2	77. 8 77. 0 78. 8 79. 1 78. 3 79. 9 76. 0 81. 5 82. 1 94. 1 97. 6 104. 5	149. 4 142. 3 145. 5 147. 7 151. 0 147. 6 145. 7 143. 2 149. 3 164. 0 174. 6 187. 6	121. 9 116. 1 131. 1 137. 3 139. 7 134. 2 121. 7 116. 5 114. 7 151. 5 173. 0
		Machinery, not including transportation equipment								
Month and year	Group	index	Agricultural implements		Cash res adding chines calcula mach	ma- , and ating	Electron machine apparatu supp	nery, is, and	Engines bines, tr and w	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	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	104. 1 94. 9 101. 0 111. 1 106. 2 111. 3 134. 3 102. 7 64. 2 37. 3 40. 5 60. 4 94. 8	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. 4 160. 0 106. 9 51. 9 26. 9 26. 7 62. 8 103. 0 121. 2	107. 4 97. 2 95. 4 (1) 103. 1 (1) 120. 8 (1) 87. 3 74. 9 78. 2 100. 5 103. 0	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	103. 0 97. 9 99. 1 (1) (1) (1) (1) 127. 3 107. 1 80. 9 60. 6 58. 8 72. 5 80. 6 91. 4	100. 0 99. 2 100. 7 (1) (1) (1) 134. 4 109. 3 68. 7 39. 7 38. 9 54. 4 67. 2 83. 1	99. 1 96. 0 104. 9 115. 4 111. 3 113. 2 125. 3 106. 1 43. 5 47. 0 72. 4 101. 2	99. 5 96. 7 103. 8 119. 2 119. 3 125. 5 138. 9 107. 2 54. 0 27. 4 32. 5 54. 5 54. 5 84. 3 104. 6
January February March April May June July August September October November December	95, 3 95, 5 96, 9 99, 6 102, 4 103, 6 104, 0 107, 5 109, 6 111, 4 114, 1	82. 5 83. 5 86. 8 91. 2 94. 7 95. 8 92. 8 93. 9 94. 7 102. 7 105. 6 113. 6	124. 6 126. 4 128. 8 131. 1 129. 1 123. 6 110. 1 95. 7 93. 9 97. 5 93. 2 102. 9	136. 0 138. 5 143. 9 145. 9 142. 4 131. 4 108. 3 91. 5 87. 1 105. 9 102. 0 121. 5	112. 1 113. 9 115. 6 117. 6 119. 4 111. 6 114. 2 100. 3 116. 3 118. 8 119. 5 120. 7	105. 3 106. 0 106. 4 110. 6 113. 5 107. 4 106. 3 89. 8 104. 6 116. 5 111. 6 122. 9	81. 8 81. 1 82. 1 85. 5 87. 5 89. 7 91. 8 92. 4 96. 5 99. 6 103. 0 105. 8	69. 9 69. 6 72. 7 78. 3 81. 1 83. 3 82. 9 82. 6 84. 3 92. 7 96. 8 103. 1	111. 9 116. 7 121. 0 126. 0 126. 9 120. 0 114. 7 113. 5 113. 1 118. 2 123. 5	96. 7 100. 8 106. 8 110. 3 111. 5 112. 1 102. 5 98. 7 92. 1 99. 9 106. 0 117. 6

¹ Data not available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

		Machi	nery, not	incluđi	ng transpo	rtation	equipmen	ıt—Con	tinued	
Month and year	machine	Foundry and machine-shop products		fachine tools Radios and phonographs			Textile chinery par	and	Typewriters and parts	
	Employ-	Pay	Employ-	Pay	Employ-	Pay	Employ-	Pay	Employ-	Pay
	ment	rolls	ment	rolls	ment	rolls	ment	rolls	ment	rolls
1923 1924 1925 1926 1927 1928 1929 1930 1931 1931 1932	108. 4 93. 9 97. 7 103. 3 97. 7 98. 8 111. 3 94. 2 69. 7 51. 1 54. 6	106. 7 93. 6 99. 7 107. 4 99. 9 102. 6 117. 9 89. 0 55. 4 31. 9	108. 1 92. 0 99. 9 119. 3 114. 3 127. 9 167. 2 126. 0 74. 7 42. 1 44. 9	105. 3 90. 8 103. 9 125. 3 116. 3 139. 8 187. 6 121. 9 61. 5 28. 6 30. 9	89. 5 105. 9 104. 6 (1) (1) 204. 5 141. 0 124. 4 80. 4	88. 1 107. 5 104. 4 (1) (1) 202. 9 139. 8 96. 5 60. 5 81. 4	116. 4 92. 7 90. 9 90. 1 85. 3 78. 5 88. 1 71. 2 61. 3 48. 4 60. 5	117. 5 86. 8 95. 7 95. 7 93. 2 84. 2 96. 7 66. 0 54. 3 35. 1 47. 9	100. 0 100. 0 100. 0 (¹) 111. 5 (¹) 121. 1 (¹) 77. 8 61. 6 68. 5	98. 4 100. 0 101. 6 (¹) 113. 0 (¹) 130. 1 (¹) 60. 0 35. 8
1934	70. 4	52. 3	73. 0	56. 1	167. 6	114. 0	68. 5	55. 3	101. 1	83. 2
1935	76. 9	62. 7	93. 2	80. 1	173. 6	124. 4	64. 0	53. 8	107. 0	87. 5
1936	90. 4	83. 1	117. 6	111. 0	189. 9	143. 5	71. 6	65. 6	116. 2	104. 3
January February Merch April May June July August September October November December	81. 8	70. 2	108. 2	99. 6	176. I	120. 6	69. 0	63. 2	111. 6	90. 2
	82. 8	71. 9	109. 5	101. 3	162. 0	109. 0	70. 1	64. 4	110. 7	92. 5
	84. 4	75. 4	110. 5	102. 4	153. 8	104. 9	70. 5	65. 6	112. 2	93. 5
	86. 7	79. 4	112. 0	102. 5	155. 8	112. 8	70. 2	63. 5	113. 3	93. 9
	89. 1	82. 5	113. 9	106. 9	178. 0	135. 6	69. 9	64. 6	114. 2	99. 7
	90. 0	83. 7	116. 1	109. 6	200. 4	154. 9	70. 3	62. 4	84. 3	72. 5
	91. 2	81. 4	118. 4	108. 4	193. 5	143. 3	70. 6	62. 6	99. 3	90. 4
	92. 5	83. 9	114. 2	108. 1	210. 7	164. 7	71. 4	64. 8	111. 5	102. 1
	94. 3	85. 0	124. 1	111. 2	216. 3	160. 9	72. 8	63. 3	121. 2	112. 4
	95. 6	90. 2	126. 1	122. 4	218. 3	177. 9	73. 3	66. 3	133. 1	128. 9
	97. 0	93. 3	127. 8	124. 4	210. 6	169. 4	74. 0	67. 4	139. 0	134. 4
	99. 4	100. 2	130. 7	135. 5	202. 7	167. 5	76. 9	78. 8	143. 6	137. 6

	Transportation equipment											
Month and year	Group	index	Aire	eraft	Auton	Automobiles		Cars, electric and steam railroad		Locomo- tives		ouild-
	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	107. 6 93. 1 99. 3 99. 1 87. 9 96. 2 103. 5 80. 2 66. 3 55. 5 54. 5 95. 7 103. 4	107. 7 90. 8 101. 5 99. 8 89. 8 101. 6 105. 4 70. 2 52. 3 37. 8 35. 6 61. 8 79. 2 94. 2	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	103. 4 100. 0 96. 6 (1) 156. 8 (2) 501. 5 (1) 354. 8 234. 3 236. 2 265. 0 301. 0 482. 4	100. 6 93. 6 105. 8 104. 8 91. 9 108. 1 111. 3 80. 3 71. 0 60. 5 60. 5 60. 6 94. 5 110. 4	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	126. 9 93. 8 79. 3 75. 0 59. 9 48. 4 63. 1 54. 7 29. 6 24. 9 22. 5 39. 1 39. 3 53. 8	128. 7 94. 3 77. 0 70. 9 60. 4 48. 2 63. 1 53. 2 25. 4 20. 5 14. 6 31. 3 34. 1 51. 3	157. 7 76. 4 65. 9 86. 2 45. 4 56. 8 52. 3 28. 0 17. 7 12. 2 25. 7 23. 9 33. 7	168. 1 72. 9 59. 0 80. 6 57. 2 39. 6 58. 3 51. 5 18. 1 9. 0 6. 0 14. 0 13. 2 21. 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	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
January. February March April May June July Acquist September October November December	102. 6 99. 8 100. 9 104. 9 106. 3 105. 3 101. 9 93. 0 87. 3 102. 1 115. 0	85. 7 77. 1 87. 0 99. 9 101. 6 98. 7 92. 6 81. 0 76. 3 95. 8 113. 4 120. 9	440. 0 474. 7 513. 6 544. 0 582. 1 592. 7 620. 7 612. 7 606. 2 619. 0 646. 4 690. 9	370. 9 388. 3 420. 1 441. 8 491. 3 508. 7 496. 0 479. 5 491. 5 527. 7 552. 9 619. 9	117. 9 113. 6 112. 6 115. 6 117. 2 115. 8 111. 1 98. 3 90. 3 110. 0 128. 3 138. 7	95. 7 83. 9 94. 4 109. 1 111. 1 107. 1 99. 5 83. 4 77. 3 101. 5 125. 8 135. 7	41. 0 43. 9 49. 7 55. 0 55. 2 57. 1 54. 2 59. 0 57. 3 58. 7 57. 5 56. 8	36. 8 39. 7 46. 0 52. 4 51. 6 54. 0 50. 5 55. 3 52. 6 59. 7 57. 6 59. 9	22. 2 24. 0 26. 6 29. 0 32. 6 35. 2 37. 2 36. 1 37. 6 39. 5 40. 5 43. 8	11. 5 13. 7 15. 7 18. 0 20. 7 22. 4 24. 3 24. 6 25. 8 27. 0 28. 2 31. 4	85. 8 83. 9 92. 7 102. 1 100. 9 98. 0 98. 9 99. 4 102. 7 97. 4 89. 9	82. 5 80. 5 90. 9 102. 2 102. 3 98. 1 99. 0 97. 8 99. 4 103. 2 97. 3 90. 6

¹ Data not available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

rable 6.—Emp	ployment and Fay-Roll Indexes, Manufacturing Industries—Con							Con.				
		Ra	ilroad re	pair sh	ops		Nonfe	rrous n	netals a	and the	ir prod	ucts
Month and year	Group	index		ic rail- ad		n rail- ad	Gre ind		ma	inum nu- ures	Bronz bronz 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 1930 1931 1932 1933 1934 1935 1936		109. 6 95. 6 94. 8 96. 1 92. 0 87. 2 90. 4 76. 1 42. 0 40. 3 46. 5 48. 5 99. 4	104. 0 99. 1 96. 9 96. 5 94. 1 89. 6 87. 8 85. 8 85. 8 79. 3 70. 0 62. 9 62. 4 61. 8 62. 5	101. 5 98. 8 99. 7 100. 4 99. 8 97. 9 97. 2 93. 0 64. 3 55. 1 58. 0 62. 9	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 58. 0	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	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	103. 7 95. 9 100. 4 (1) 100. 5 (1) 116. 4 (1) 63. 1 40. 3 43. 8 59. 8 70. 9 85. 2	106. 3 100. 0 93. 7 (1) 96. 6 (1) 138. 4 (1) 90. 2 73. 0 89. 1 91. 8 95. 8 108. 7	(1)	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	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
January February March April May June July August September October November December	54. 0 56. 1 58. 0 57. 8 58. 0 58. 5 56. 9 58. 4 59. 3 60. 4 60. 6	50. 5 55. 9 60. 9 58. 6 59. 5 60. 1 56. 0 57. 7 59. 2 63. 9 65. 2 65. 5	61. 5 61. 9 62. 2 62. 5 62. 3 62. 0 62. 2 62. 4 62. 4 63. 4 63. 3 63. 4	60. 8 62. 5 63. 6 62. 7 61. 9 61. 7 61. 3 61. 3 63. 5 65. 5	53. 4 55. 7 57. 7 57. 7 58. 2 56. 5 58. 1 59. 1 60. 2 60. 4 61. 0	49. 8 55. 5 60. 8 58. 4 59. 4 60. 1 55. 7 57. 5 59. 1 64. 0 65. 4 65. 6	95. 0 94. 9 94. 6 94. 4 94. 7 95. 5 94. 5 98. 4 102. 9 108. 3 110. 0 111. 6	76. 1 76. 0 77. 6 77. 8 79. 0 79. 9 77. 4 82. 9 88. 0 99. 7 102. 0 105. 5	99. 5 100. 3 104. 3 103. 2 103. 6 107. 2 110. 5 111. 0 111. 5 117. 2 118. 8 117. 7	86. 9 89. 4 93. 2 91. 8 91. 8 94. 3 96. 1 100. 4 98. 9 110. 6 114. 9 114. 7	99. 6 99. 1 98. 8 98. 7 99. 7 99. 9 100. 1 102. 7 107. 1 111. 3 112. 9 116. 2	81. 6 80. 5 80. 0 81. 1 83. 9 83. 8 82. 8 89. 4 95. 2 102. 9 103. 8 111. 6
		<u>' </u>	Non	errous i	netals a	nd their	r produ	cts—Co	ontinue	ed.		<u> </u>
M onth and year	watche tin recor	cks, es, and ne- ding ices	Jew	elry	Ligh equip		Silver an plated	d	and ing—e lead.	lting refin- opper, and ne	Stan ar enan 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 1924 1925 1927 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936	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	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	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	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	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	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	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	98. 1 100. 0 101. 9 (1) 102. 3 (1) 96. 5 (1) 54. 3 36. 8 35. 1 49. 0 53. 0 53. 6	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	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	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	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
January February March April May June July August September October November December	103. 1 104. 3 104. 9 103. 1 103. 4 103. 8 102. 8 108. 6 112. 9 117. 7 120. 5 121. 3	\$3. 9 90. 1 91. 1 88. 3 89. 6 91. 7 94. 0 95. 4 104. 5 116. 1 121. 9 117. 9	74. 3 76. 4 74. 6 72. 8 72. 3 73. 4 75. 5 85. 0 95. 3 101. 9 100. 7 92. 8	50. 9 50. 2 50. 6 49. 5 50. 5 51. 8 50. 6 61. 8 72. 2 84. 1 78. 0 74. 6	76. 1 75. 4 72. 6 71. 5 75. 5 75. 8 72. 8 77. 0 84. 9 90. 9 97. 2 101. 4	66. 6 62. 6 61. 7 63. 6 68. 4 68. 8 63. 2 65. 6 74. 8 82. 8 97. 0 104. 2	65. 1 64. 8 65. 0 63. 9 63. 5 62. 4 53. 5 64. 6 67. 1 71. 8 73. 8 73. 5	48. 1 47. 6 50. 9 47. 5 47. 7 46. 1 38. 7 49. 8 55. 0 68. 4 71. 6 71. 3	78. 4 78. 2 77. 6 76. 8 76. 3 77. 5 77. 6 76. 9 78. 0 79. 1 79. 4 81. 1	62. 0 59. 9 61. 3 63. 1 62. 0 62. 2 64. 0	136. 3 134. 8 134. 6 139. 1 136. 8 138. 6 135. 0 138. 4 143. 4 154. 3 156. 0 162. 4	114. 4 114. 4 121. 5 127. 4 122. 6 124. 6 115. 9 123. 5 123. 0 154. 4 155. 0 164. 2

¹ Data not available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

				Stone, clay, and glass products						
Month and year	Group	index	Furniture		Lumber, mill- work		Lumber, saw- mills		Group index	
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls
1924 1924 1925 1926 1927 1927 1929 1930 1930 1931 1931 1932 1933 1934 1934 1935	92.1 95.2	100. 0 98. 5 101. 5 102. 4 96. 6 94. 1 97. 3 72. 5 46. 2 26. 6 30. 3 36. 9 44. 6 55. 3	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	96. 9 96. 4 106. 7 113. 4 111. 8 107. 5 114. 0 80. 7 59. 2 34. 6 35. 9 41. 5 52. 0 63. 6	96. 7 98. 8 104. 5 102. 7 90. 7 86. 7 84. 6 64. 4 51. 1 35. 0 33. 2 41. 8 49. 3	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	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	102. 5 99. 2 98. 3 96. 6 89. 0 87. 2 90. 7 67. 6 33. 6 18. 4 24. 4 24. 9 30. 9 34. 9 42. 6	100, 4 98, 9 100, 7 103, 8 99, 9 95, 7 93, 8 80, 2 63, 7 49, 4 57, 6 64, 2	98. 3 100. 5 101. 2 104. 2 100. 5 96. 2 93. 9 30. 6 30. 6 30. 5 44. 2 54. 2
January February March April May June July August September October November December	59, 2 61, 3 62, 8 64, 1 64, 8 65, 6 66, 6	45. 9 45. 8 50. 3 52. 3 54. 4 55. 8 54. 5 60. 3 60. 5	70. 9 71. 8 71. 6 71. 3 72. 2 73. 6 76. 9 81. 7 85. 9 86. 9 88. 3 87. 8	51. 3 53. 8 55. 1 55. 6 56. 1 58. 7 59. 9 68. 4 71. 1 76. 9 77. 6 78. 3	43. 7 43. 9 45. 2 46. 6 47. 8 49. 7 49. 5 52. 2 52. 2 53. 4 53. 4	34. 6 34. 4 37. 6 39. 5 42. 0 44. 0 42. 3 46. 9 46. 5 49. 6 50. 7	46. 5 46. 2 48. 8 50. 6 51. 9 52. 0 51. 9 51. 9 52. 4 49. 9	36. 4 35. 2 40. 4 42. 9 45. 1 45. 4 43. 3 44. 8 47. 1 42. 7 41. 6	55, 2 55, 3 58, 9 63, 0 65, 4 67, 0 68, 0 68, 2 69, 1 67, 3 67, 1	41, 9 42, 4 48, 2 55, 6 55, 8 55, 3 58, 2 62, 5 61, 1

	Stone, clay, and glass products—Continued									
Month and year			Cement		Glass		Marble, granite, slate, and other products		Pottery	
	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 1931 1932 1933 1934 1935	100. 6 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	95. 0 101. 0 104. 0 102. 1 98. 3 92. 6 90. 3 84. 6 65. 8 45. 8 42. 8 51. 7 52. 0 57. 4	94. 6 102. 9 102. 5 100. 5 101. 1 96. 9 92. 9 83. 4 56. 9 29. 8 26. 4 37. 7 39. 7 51. 6	105. 1 96. 5 99. 4 103. 8 94. 3 92. 6 96. 7 83. 8 71. 5 59. 6 71. 3 91. 6 96. 3 98. 6	103. 4 96. 9 99. 7 103. 9 93. 6 94. 5 100. 9 82. 9 66. 5 45. 5 45. 5 70. 7 81. 6 91. 1	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	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	98. 5 103. 8 97. 7 99. 7 98. 0 98. 8 94. 7 82. 9 72. 3 58. 6 63. 2 72. 2 72. 6 73. 6	97. 8 104. 3 97. 9 99. 3 94. 5 93. 9 91. 1 56. 4 35. 9 37. 4 46. 4 51. 1 58. 0
January February March April May June July August September October November December	36. 3 35. 1 38. 0 43. 0 46. 7 49. 4 50. 3 50. 7 50. 2 49. 6 49. 6 48. 8	25. 0 24. 2 28. 0 32. 3 36. 9 39. 3 39. 1 40. 3 39. 4 41. 3 41. 1 40. 9	39. 9 39. 9 46. 6 54. 9 61. 3 61. 8 63. 0 64. 1 65. 1 65. 5 64. 2 62. 0	29. 0 29. 4 39. 3 47. 3 54. 5 56. 3 58. 0 60. 2 61. 0 62. 0 63. 1 58. 8	93. 8 95. 6 96. 8 99. 0 99. 2 99. 2 98. 9 99. 8 99. 3 103. 6 97. 6 100. 6	81, 0 82, 5 87, 7 90, 7 91, 6 90, 5 87, 7 92, 8 91, 2 103, 0 99, 4 95, 1	28. 7 28. 0 34. 0 38. 0 39. 9 42. 6 44. 6 46. 5 45. 4 44. 3 44. 3 41. 0	19. 7 18. 6 25. 9 31. 8 37. 4 36. 5 37. 4 40. 3 37. 8 38. 1 34. 2 33. 2	69. 4 70. 9 74. 5 74. 9 73. 5 71. 4 70. 1 71. 5 75. 8 77. 1 77. 0 76. 5	50. 7 55. 1 59. 8 59. 1 54. 9 51. 9 50. 0 54. 6 61. 5 66. 1 67. 1

 $^{^{\}rm 1}\,\mathrm{D}\,\mathrm{ata}$ not available.

¹²⁴⁴⁰²⁻³⁷⁻⁴

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

	Textiles and their products									
Month and year	Group	index	Fab (subgr		Carpets and rugs		Cotton goods		Cotton small wares	
	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	99. 9 99. 9 104. 0 101. 3 104. 8 92. 9 87. 2 77. 9 90. 5	105, 8 93, 8 100, 4 100, 2 106, 8 101, 7 105, 2 85, 6 75, 2 53, 6 61, 8 72, 4 81, 0 83, 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	106. 0 93. 4 100. 6 99. 4 103. 8 95. 8 99. 4 70. 2 50. 4 61. 4 70. 2 78. 2 81. 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	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	106. 7 92. 5 100. 8 101. 9 105. 8 95. 5 96. 1 80. 7 74. 5 67. 1 85. 9 91. 2 87. 8	110. 1 91. 6 93. 8 98. 5 105. 7 88. 4 90. 1 69. 4 61. 0 43. 9 60. 2 71. 0 80. 8	104. 4 92. 6 103. 0 (1) 95. 3 (1) 97. 4 (1) 81. 7 72. 2 84. 3 90. 1 94. 4 96. 1	105. 5 91. 8 102. 7 (1) 101. 3 (1) 102. 1 (1) 76. 8 56. 2 66. 5 76. 5 85. 0 89. 6
January February March April May June July August September October November December	99, 2 100, 5 99, 5 97, 4 96, 3 101, 8 103, 4 104, 3 104, 8	80, 2 82, 3 85, 3 81, 3 78, 2 76, 8 77, 3 87, 4 83, 9 88, 5 87, 2 94, 6	93. 8 93. 1 93. 0 91. 7 90. 4 90. 3 91. 7 94. 7 95. 8 97. 1 98. 8 101. 7	78. 7 78. 5 78. 7 77. 2 75. 2 75. 2 77. 1 83. 0 80. 5 85. 1 86. 7 96. 5	79. 9 79. 5 83. 7 82. 3 82. 7 83. 2 82. 6 85. 4 90. 3 93. 4 94. 3 97. 9	63. 8 67. 3 67. 9 66. 8 66. 4 65. 8 67. 9 75. 3 82. 9 89. 8 89. 6	90. 1 89. 8 89. 9 88. 8 88. 8 89. 1 91. 7 94. 5 96. 0 97. 6 99. 5 101. 4	76. 3 76. 5 75. 7 75. 0 75. 2 75. 8 78. 5 82. 4 81. 5 86. 5 87. 9 98. 2	96. 8 92. 3 93. 0 95. 4 92. 7 90. 8 90. 6 94. 2 96. 5 101. 6 103. 6 105. 8	88. 6 83. 3 85. 4 89. 2 84. 0 81. 9 82. 6 88. 3 99. 8 97. 8 106. 8

	Textiles and their products—Continued									
Month and year	Dyeing finishing		Hats, ft	ır-felt	Knit g	oods	Silk and		Wooler worsted	
	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 1931 1932 1933 1934 1935	97. 4 93. 9 108. 7 110. 8 113. 5 114. 9 121. 8 112. 0 103. 3 92. 8 101. 8 113. 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	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. 1 (¹) 114. 1 (¹) 112. 3 (¹) 82. 5 54. 5 59. 5 66. 8 70. 5 74. 5	104. 8 94. 5 100. 7 101. 3 102. 6 102. 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	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. 6 107. 6 107. 5 105. 6 87. 2 74. 8 48. 4 56. 9 66. 0 68. 8 61. 5	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	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
1958 January February March April May June July August September October November December	117. 8 119. 7 119. 3 114. 5 111. 4 109. 3 111. 1 111. 3	97. 1 96. 3 100. 5 100. 9 92. 1 87. 8 89. 3 94. 8 93. 1 97. 7 100. 6 116. 4	87. 6 86. 7 86. 9 86. 8 86. 8 88. 2 90. 2 87. 5 83. 3 82. 7 85. 5	74. 7 78. 1 76. 5 64. 2 70. 1 75. 0 78. 8 89. 3 76. 2 60. 9 68. 0 82. 5	111. 1 113. 2 115. 0 114. 9 113. 4 111. 8 116. 1 120. 1 121. 3 121. 0 121. 8	102. 0 107. 1 112. 5 110. 5 105. 4 104. 1 104. 0 117. 5 117. 1 124. 2 124. 2 126. 2	82. 5 76. 5 75. 9 76. 0 71. 0 72. 1 75. 0 79. 6 81. 5 80. 0 81. 4	63. 2 56. 5 58. 9 58. 9 54. 4 56. 1 59. 7 66. 0 64. 5 67. 0 63. 8 68. 4	88. 7 88. 3 84. 4 79. 6 78. 6 78. 9 79. 8 81. 6 77. 9 78. 5 83. 8 91. 6	71. 2 70. 1 65. 0 61. 1 61. 0 61. 5 62. 6 64. 6 55. 4 60. 4 66. 1 84. 3

¹ Data not available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

			Tex	tiles an	d their pro	oducts-	-Continue	d		
Month and year	Wearing (subgr	apparel oup)	Clothing	, men's	Clothin mer	g, wo-	Corsets allied gas	s and rments	Men's fu	
	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	105. 4 96. 1 98. 5 99. 8 105. 8 108. 3 113. 3 105. 0 99. 7 89. 1 97. 7 102. 9 107. 8 112. 8	105. 6 94. 0 99. 5 99. 6 107. 6 107. 5 111. 0 93. 6 57. 2 60. 0 74. 0 83. 0 85. 2	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. 5 95. 8 44. 8 52. 8 65. 8 77. 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	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	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	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	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	93. 6 96. 1 110. 3 (1) 139. 5 (1) 145. 5 (1) 109. 5 75. 2 79. 1 92. 5 94. 5
January February March April May June July August September October November December	118.3	79. 9 86. 5 96. 0 86. 2 80. 9 76. 6 74. 3 92. 4 87. 0 91. 5 84. 6 86. 3	104. 1 108. 4 109. 6 106. 2 100. 8 104. 4 106. 9 109. 5 109. 2 108. 0 106. 5	79. 6 86. 9 91. 3 76. 7 71. 6 79. 4 80. 6 87. 1 80. 5 82. 1 79. 3 84. 9	141. 7 147. 5 156. 6 159. 5 155. 2 140. 0 128. 5 157. 0 162. 9 163. 3 158. 1 154. 0	99. 3 105. 5 121. 4 112. 9 106. 3 86. 0 81. 0 118. 7 109. 5 119. 1 102. 7 103. 6	86. 1 87. 4 88. 8 90. 0 87. 4 86. 3 84. 8 85. 6 88. 1 89. 6 90. 4 89. 3	79. 3 88. 6 91. 8 90. 1 85. 1 81. 9 77. 3 80. 4 84. 5 90. 5 88. 1 88. 0	108. 8 116. 7 121. 5 124. 4 127. 0 126. 2 123. 8 127. 0 131. 5 138. 3 143. 0 140. 6	81. 7 92. 2 98. 2 93. 0 95. 7 96. 6 91. 2 97. 5 97. 4 117. 6 125. 5
	Textile	s and th	neir produ	ets-						
		Cont	inued			Leath	er and its	manufa	ctures	
Month and year	Millin		Shirts colls	and	Group		Boots an		Leat	her
Month and year	Millin Employ- ment		Shirts	and	Group Employ- ment		!		· 	Pay rolls
Month and year 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935	Employ- ment 103. 2 94. 8 102. 0 98. 0 104. 8 105. 7 101. 3 91. 3 83. 7 73. 9	nery Pay	Shirts colls	and ars	Employ-	index Pay	Boots an	d shoes	Leat	Pay
1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934	Employment 103. 2 94. 8 102. 0 98. 0 104. 8 105. 7 101. 3 91. 3 91. 3 83. 7 73. 9 71. 0 64. 9 54. 7	Pay rolls 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	Shirts colls Employment 107. 9 93. 0 99. 1 100. 7 105. 1 106. 3 109. 1 102. 7 104. 0 91. 0 103. 1 104. 4 108. 5	and rs Pay rolls 109. 7 91. 9 98. 4 101. 9 107. 1 109. 2 90. 3 82. 7 58. 0 68. 3 85. 2 95. 9	Employment 106.6 96.3 97.1 96.6 97.7 95.6 98.5 91.2 84.3 81.2 87.2 92.4	Pay rolls 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	Boots an Employment 106. 0 96. 7 97. 3 95. 6 92. 7 96. 7 90. 2 85. 3 84. 5 89. 8 94. 1 93. 1	Pay rolls 107. 6 95. 3 97. 1 96. 8 91. 3 95. 6 78. 3 70. 2 58. 3 61. 1 71. 2 70. 3	Leat Employment 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	Pay rolls 107. 9 95. 8 96. 3 99. 5 92. 8 83. 0 72. 5 54. 0 63. 0 76. 1 89. 6

¹ Data not available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

				Food	and kind	red proc	lucts			
Month and year	Group	index	Baki	ng	Bever	ages	But	ter	Cannin	
	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	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	99. 8 99. 3 100. 9 102. 0 106. 3 112. 9 108. 0 92. 0 75. 0 75. 1 94. 4 101. 3	124.3	98. 0 101. 7 100. 3 104. 1 107. 8 113. 3 125. 3 123. 7 109. 0 92. 3 89. 9 103. 6 105. 1 114. 3	104. 4 97. 0 98. 1 (1) 96. 6 (1) 101. 3 (1) 85. 5 79. 1 138. 2 175. 8 172. 7 188. 2	104. 4 95. 8 99. 8 (1) 100. 0 (1) 106. 1 (1) 83. 1 71. 2 131. 9 173. 7 177. 6 202. 8	106. 7 100. 0 93. 3 (1) 105. 6 (1) 100. 3 (1) 82. 0 80. 6 86. 7 91. 4 82. 3 83. 8	105. 7 100. 0 94. 3 (1) 108. 2 (1) 102. 5 (1) 79. 1 68. 3 63. 8 65. 8 61. 5 64. 9	97. 7 86. 9 115. 4 (1) 112. 0 (1) 134. 6 138. 8 106. 1 112. 7 140. 8 148. 7 141. 3	97. 8 86. 9 115. 3 (1) 108. 7 (1) 129. 4 126. 7 91. 8 65. 6 76. 8 101. 6 123. 3
January February March April May June July August September October November	98. 4 96. 7 97. 7 100. 3 102. 7 107. 9 116. 9 127. 9 124. 2 114. 1 110. 6	89. 8 87. 4 90. 2 90. 3 95. 7 98. 9 107. 0 114. 0 116. 5 111. 5	123. 8 125. 1 125. 8 127. 3 128. 4 129. 2 130. 1 131. 3 132. 6 133. 0	107. 5 108. 4 109. 5 108. 9 112. 9 115. 1 116. 1 116. 2 117. 9 119. 0 120. 4 119. 8	161. 3 159. 5 170. 8 176. 5 192. 7 199. 1 220. 0 214. 5 209. 6 190. 7 183. 0 181. 0	163. 4 159. 3 180. 5 186. 7 214. 3 220. 7 266. 4 237. 1 227. 1 198. 9 191. 3 187. 6	77. 1 76. 7 77. 8 81. 2 85. 7 91. 1 92. 4 90. 5 86. 4 82. 7 82. 0 81. 6	57. 5 58. 0 60. 8 61. 7 66. 6 71. 0 71. 7 70. 5 67. 1 65. 1 62. 9	85. 0 78. 3 78. 3 94. 2 94. 2 126. 3 174. 0 252. 5 305. 4 197. 3 113. 1 96. 8	72. 67. 72. 80. 87. 102. 138. 231. 258. 90.
	Food and kindred products—Continued									
Month and year	Confect		Flour	1	ce cream	and	htering meat cking	Sugar, l		r refin

	Food and kindred products—Continued											
Month and year	Confection- ery Em-	Flo	our	Ice cream		Slaughtering and meat packing		Sugar, beet		Sugar refin- ing, cane		
	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	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	100. 9 97. 7 101. 4 106. 8 104. 7 101. 0 103. 7 93. 3 77. 5 60. 6 60. 7 69. 7 71. 4 70. 3	104. 9 99. 7 95. 4 91. 8 89. 4 85. 5 80. 6 73. 9 68. 1 65. 2 76. 9 75. 1	101. 9 101. 0 97. 1 94. 4 91. 8 89. 7 85. 7 78. 7 66. 7 55. 2 64. 9 67. 4 70. 1	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	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	104. 7 100. 3 95. 0 93. 2 94. 0 94. 8 96. 7 92. 1 84. 1 80. 6 89. 3 105. 7 84. 3 88. 8	102. 6 99. 9 97. 5 97. 8 98. 9 100. 1 101. 5 96. 3 82. 2 65. 7 68. 7 91. 7 77. 1 84. 7	92. 1 100. 0 107. 9 (1) 90. 0 (1) 91. 2 (1) 75. 8 90. 4 130. 0 94. 9 100. 8 99. 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	103. 4 98. 2 98. 4 94. 9 89. 4 94. 3 92. 3 80. 3 73. 9 85. 5 80. 8 77. 2	102. 6 100. 4 97. 0 91. 5 90. 6 87. 5 91. 4 89. 7 79. 6 66. 5 62. 7 65. 0 65. 8
January February March April May June July August September October November December	70. 2 68. 6 66. 8 73. 5	67. 0 65. 5 67. 9 61. 6 61. 1 59. 7 56. 1 81. 4 86. 3 84. 6 86. 3	75. 2 75. 5 75. 3 73. 9 72. 0 72. 3 77. 7 77. 1 76. 9 76. 8 74. 7	68. 7 69. 8 69. 3 65. 3 66. 7 67. 0 75. 5 74. 6 70. 9 72. 9 70. 4 69. 7	57. 1 56. 7 60. 4 67. 2 80. 1 84. 4 88. 3 83. 9 77. 4 65. 8 62. 2 61. 2	49. 6 49. 2 53. 8 58. 3 70. 2 72. 5 80. 2 73. 6 67. 9 57. 8 56. 3 55. 1	86. 4 83. 2 81. 9 82. 2 84. 3 85. 8 90. 8 91. 5 90. 9 91. 8 96. 9	82. 6 74. 8 75. 0 74. 6 78. 6 81. 2 86. 7 87. 5 85. 1 88. 7 99. 8 101. 5	42. 1 31. 8 35. 3 40. 3 43. 9 48. 6 53. 1 86. 8 94. 2 271. 7 273. 6 172. 5	42. 8 36. 6 41. 5 42. 2 45. 6 50. 1 53. 2 80. 4 94. 9 201. 9 268. 8 151. 8	75. 6 77. 9 78. 8 80. 9 80. 9 80. 0 79. 8 80. 7 78. 3 75. 9 68. 0 69. 0	63. 4 62. 2 70. 2 68. 5 68. 5 66. 6 69. 3 66. 6 64. 1 61. 4 58. 6 59. 3

¹ Data not available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

		T	obacco ma	nufactu	res		Paper print	and ing
Month and year	Group	index	Chewin smoking and s	tobacco	Cigars cigare	and ttes	Group	index
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls
1923 1924 1925 1926 1927 1927 1928 1929 1930 1931 1931 1932 1932 1933 1934 1934	105. 7 98. 8 95. 5 90. 9 93. 4 90. 7 83. 9 78. 3 72. 1 65. 6 63. 1 66. 2 61. 3	104. 1 99. 4 96. 5 92. 1 91. 0 86. 1 81. 8 72. 7 60. 1 48. 2 44. 1 48. 8 47. 7 50. 0	102. 7 102. 7 94. 6 93. 1 82. 6 68. 0 69. 8 71. 9 71. 0 64. 2 64. 6 57. 9 56. 0	101. 4 101. 6 97. 0 94. 0 84. 8 77. 4 71. 3 71. 3 69. 0 62. 4 56. 0 59. 7 58. 7 59. 5	106. 2 98. 2 95. 6 90. 4 94. 9 92. 8 86. 0 79. 4 72. 1 64. 9 66. 3 61. 6	104. 5 99. 2 96. 3 91. 8 91. 8 87. 2 83. 1 72. 9 58. 9 46. 4 42. 6 47. 5 46. 4 48. 8	99. 2 99. 7 101. 1 104. 1 105. 0 111. 3 108. 0 96. 3 85. 5 86. 7 95. 4 97. 6 100. 8	96. 2 99. 5 104. 3 110. 8 111. 0 112. 3 119. 5 114. 6 97. 3 74. 8 68. 5 84. 2 91. 6
January February March April May June July August September October November December	54, 9 58, 7 59, 2 58, 6 60, 0 60, 2 60, 6 63, 6 64, 5 65, 9 63, 3	43. 0 41. 9 46. 5 44. 0 48. 5 50. 1 51. 0 53. 5 53. 3 54. 7 54. 8	57. 5 57. 4 56. 4 55. 8 55. 2 55. 0 54. 7 55. 2 56. 6 57. 1 56. 4	59. 9 57. 6 58. 6 57. 1 59. 7 56. 0 57. 6 62. 1 60. 9 62. 1 64. 8	54. 5 58. 8 59. 4 58. 8 60. 5 60. 8 61. 2 63. 9 64. 6 65. 4 66. 9 64. 1	40. 9 43. 4 45. 0 42. 4 47. 1 49. 4 50. 2 53. 0 52. 2 53. 9 54. 3	98. 0 98. 8 98. 7 99. 1 99. 5 98. 8 98. 5 100. 1 102. 6 104. 0 105. 0	86, 9 87, 7 89, 3 89, 8 90, 7 89, 2 86, 6 89, 4 92, 0 96, 5 98, 6
			Paper an	d print	ing—Cont	inued		
Month and year	Boxes, paper		Paper and pulp		Printing and publishing, book and job		Printing publish newspap period	ning, ers and
	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls	Employ- ment	Pay rolls
1923 1924 1925	100. 0 99. 5 100. 5 102. 1	97. 3 99. 7 103. 0 106. 9	100. 0 97. 3 102. 7	98. 4 97. 5 104. 1	98. 3 100. 7 101. 0	95, 5 100, 0 104, 5 112, 5	98. 9 101. 0 100. 1 101. 7	94. 7 100. 6 104. 7 110. 3
1926 1927 1928 1929 1930 1931 1931 1932 1933 1934	99. 2 96. 3 97. 9 90. 7 81. 8 73. 5 83. 0 91. 5 93. 4 96. 2	104. 0 102. 0 102. 9 91. 6 79. 0 62. 4 67. 7 81. 1 86. 6 92. 5	105. 8 102. 2 100. 8 106. 1 102. 5 89. 5 81. 9 89. 0 103. 8 107. 6 109. 4	109. 1 105. 3 105. 3 112. 5 104. 6 82. 1 61. 4 64. 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	114. 1 113. 6 118. 7 115. 6 99. 1 72. 4 60. 6 70. 0 75. 8 81. 7	102. 2 104. 5 111. 0 109. 9 101. 8 92. 9 93. 4 98. 6 99. 3 102. 9	111. 1 113. 6 121. 8 119. 4 108. 0 88. 6 78. 6 85. 9 88. 6 96. 8

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

	Chemicals and allied products												
Month and year	Group index		petrol refining	Other than petroleum refining (sub- group)		Chemicals		seed— e, and	Druggists' preparations				
	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	102. 9 96. 8 100. 3 106. 5 104. 2 103. 0 115. 7 109. 4 95. 4 85. 5 97. 5 110. 7 111. 9	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	102. 8 96. 9 100. 2 105. 4 102. 8 102. 8 102. 5 113. 6 105. 6 92. 7 82. 2 95. 4 108. 8 110. 7 113. 8	102. 1 97. 0 100. 9 107. 4 106. 6 87. 7 66. 9 72. 5 89. 0 96. 9 106. 4	105. 7 98. 0 96. 3 (¹) (¹) (¹) 109. 2 99. 5 85 1 76. 0 93. 3 114. 9 113. 7 121. 3	101. 8 98. 1 100. 1 (¹) (¹) (¹) 120. 0 103. 5 84. 2 64. 6 75. 2 96. 1 101. 7 115. 5	87. 8 100. 5 111. 7 (1) 127. 0 (1) 109. 0 (1) 84. 5 98. 1 92. 0 78. 0 71. 1	83. 9 94. 9 121. 2 (¹) 151. 3 (¹) 118. 9 (¹) 88. 5 70. 5 57. 5 57. 8 55. 7	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	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	111. 8 110. 8 113. 8 112. 3 111. 8 110. 3 112. 7 113. 4 119. 7 119. 7	100. 4 99. 9 104. 5 103. 8 105. 4 105. 4 106. 4 112. 0 114. 4 114. 7 118. 3	110. 8 109. 8 113. 6 111. 3 110. 7 108. 5 110. 5 112. 2 118. 8 120. 2 119. 4 119. 3	98. 8 98. 5 103. 1 102. 5 104. 0 103. 3 103. 8 106. 8 110. 6 113. 9 113. 3 118. 0	114. 1 113. 8 114. 9 115. 8 117. 2 118. 6 122. 5 123. 0 127. 1 129. 9 130. 0 129. 1	103. 7 103. 9 107. 1 109. 1 111. 3 113. 3 114. 9 117. 7 120. 1 124. 7 127. 5 132. 5	81. 0 74. 2 75. 0 51. 8 44. 1 37. 9 41. 2 45. 7 96. 9 103. 5 103. 6 98. 0	61. 1 55. 4 56. 0 36. 8 32. 3 28. 5 32. 9 37. 5 78. 4 84. 5 83. 1 82. 1	101. 5 101. 6 103. 0 102. 3 100. 7 100. 4 100. 1 100. 3 103. 1 104. 4 105. 9 106. 6	101, 5 100, 3 106, 5 104, 3 102, 1 99, 4 100, 8 105, 2 107, 2 112, 6 112, 7 112, 5			

		Chemicals and allied products—Continued										
Month and year	Explosives		Ferti	lizers		s and ishes	Rayon and allied prod- ucts		Soap		Petroleum refining	
	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	108. 5 94. 8 96. 7 98. 7 98. 5 95. 4 95. 3 79. 7 80. 4 63. 6 63. 6 87. 6 81. 8 86. 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	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	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	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	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	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	91. 3 95. 5 113. 2 (1) 141. 2 (20. 2 214. 1 188. 4 146. 2 190. 3 227. 3 265. 9 289. 4	104. 9 100. 0 95. 1 (1) 82. 9 (1) 88. 6 (1) 87. 4 82. 7 88. 3 98. 6 99. 2 98. 5	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	103. 0 96. 1 100. 9 110. 8 109. 9 104. 7 124. 4 124. 9 106. 2 98. 7 106. 5 118. 3 116. 7 118. 3	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
1936 January February March April May June July August September October November December	81.3 82.9 83.7 79.8 77.7 82.7 86.2 88.3 91.4 93.2 95.4	72. 2 77. 1 82. 0 74. 0 76. 7 83. 5 84. 2 88. 3 89. 3 96. 2 98. 3	80. 6 81. 8 122. 8 119. 8 96. 2 59. 1 58. 6 60. 8 77. 9 76. 9 69. 8 80. 4	65. 0 62. 8 101. 0 101. 3 93. 1 54. 9 52. 4 55. 4 76. 1 69. 7 63. 1 71. 6	119. 8 119. 9 120. 8 125. 0 128. 9 126. 2 124. 4 126. 7 128. 6 125. 3 127. 5	104. 1 106. 0 108. 7 114. 2 120. 2 120. 9 113. 8 113. 5 114. 0 119. 6 116. 8 121. 6	347. 6 341. 3 346. 0 325. 4 335. 6 336. 2 347. 3 356. 7 360. 1 361. 5 364. 0 362. 4	279. 0 275. 1 282. 0 269. 0 273. 3 276. 8 287. 8 300. 1 302. 4 307. 6 298. 2 321. 3	95. 5 94. 7 94. 7 95. 1 95. 8 96. 3 93. 0 101. 7 106. 8 107. 1 102. 5 98. 8	93. 1 92. 7 93. 2 91. 8 93. 9 94. 9 91. 7 100. 6 100. 9 105. 3 101. 6 104. 3	115. 8 115. 0 114. 5 116. 5 116. 5 117. 8 121. 5 118. 3 122. 3 120. 6 121. 1 119. 5	105. 9 104. 8 109. 6 108. 2 110. 0 112. 3 114. 7 112. 2 116. 3 115. 9 119. 5

¹ Data not available.

Table 6.—Employment and Pay-Roll Indexes, Manufacturing Industries—Con.

	Rubber products										
Month and year	Group index		Rubber boots and shoes		Rubber goods, other than boots, shoes, tires, and inner tubes		Rubber tires and inner tubes				
	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	102. 6 91. 8 105. 6 105. 1 105. 7 111. 1 111. 0 85. 9 67. 6 79. 1 88. 4 85. 6 90. 8	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	117. 0 83. 6 99. 4 103. 0 106. 8 105. 0 102. 1 82. 0 63. 2 59. 6 72. 0 76. 8 67. 5 74. 0	118. 7 82. 3 99. 0 101. 7 113. 2 107. 1 105. 6 77. 4 48. 6 42. 4 51. 0 55. 4 51. 2 59. 9	103. 1 91. 6 105. 3 (¹) 110. 3 (¹) 120. 3 (¹) 105. 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	97. 7 94. 5 107. 8 105. 4 103. 3 109. 9 110. 0 79. 0 64. 9 59. 8 69. 9 80. 9 77. 9 81. 5	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			
1936	85. 6 85. 1 75. 4 87. 9 88. 9 89. 8 90. 8 92. 2 94. 3 97. 9 100. 0 101. 9	78, 0 74, 9 66, 7 82, 8 86, 4 89, 0 87, 1 90, 8 92, 2 96, 8 101, 2 104, 8	71. 0 69. 3 70. 7 71. 8 70. 7 68. 9 72. 0 75. 2 77. 3 78. 4 79. 9 82. 5	56. 6 52. 9 55. 7 55. 4 54. 2 56. 6 54. 8 60. 5 61. 5 64. 8	118. 4 119. 3 120. 1 123. 3 123. 2 121. 5 120. 6 119. 2 124. 6 132. 9 135. 6 137. 8	102. 8 102. 6 105. 7 111. 0 110. 4 110. 5 110. 3 114. 9 128. 1 130. 5 139. 2	75. 9 75. 3 57. 2 77. 7 79. 8 82. 8 83. 9 86. 0 86. 6 89. 0 90. 9 92. 5	74. 6 70. 6 55. 6 79. 8 86. 1 89. 5 81. 6 91. 9 93. 8 98. 9 99. 7			

¹ Data 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 1936, is shown in table 7 for all groups combined, and for all manufacturing industries combined, based on data supplied by reporting establishments. The percentage changes shown, unless otherwise noted, are unweighted—that is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

The totals for all manufacturing industries combined include figures for miscellaneous manufacturing industries in addition to the 89 manufacturing industries presented in table 3. The totals for all groups combined include all manufacturing industries and each of the nonmanufacturing industries presented in table 3 except building construction.

Table 7.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1936, 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	ıl—All g	roups			Ma	nufactu	ıring	
Geographic divi- sion and State	Number of establishments	Number on pay roll Decem- ber 1936	Per- cent age change from No- vem- ber 1936	Amount of pay roll (1 week) Decem- ber 1936	Per- cent- age change from No- vem- ber 1936	Number of establishments	Number on pay roll Decem- ber 1936	Per- cent- age change from No- vem- ber 1936	Amount of pay roll (1 week) Decem- ber 1936	Per- cent- age change from No- vem- ber 1936
New England Maine New Hamp-	14, 089 823	944, 762 59, 621		Dollars 21, 739, 976 1, 237, 631	+8.1 +20.4	3, 525 287	650, 183 48, 485	+3.0 +8.0	Dollars 14, 745, 636 984, 852	+11.0 +27.1
shire Vermont Massachusetts_		18, 469 513, 394	+1.6 +3.1	410, 443 11, 850, 916	+8.4 +5.9	209 149 1, 694	31, 084 11, 835 303, 475	+4.3 +2.5 +2.5	263, 082 6, 839, 256	+19.6 +13.1 +8.6
Rhode Island Connecticut Middle Atlantic New York	21,930	101, 434 213, 402 2, 266, 009 1, 029, 517	+2.5 +3.4 +4.3	2, 249, 530 5, 189, 070 59, 437, 046 27, 740, 242	+18.8 +5.6 + 6.4 +5.6	762 5,075 2 2,002	79, 703 175, 601 1, 218, 363 449, 269	+.9	4, 300, 262 31, 334, 597 12, 056, 552	+24. 1 +6. 1 +5. 4 +5. 4
New Jersey Pennsylvania East North Cen- tral	4, 026 8, 254 20, 109	335, 567 900, 925 2, 346, 392	+2.8	8, 525, 303 23, 171, 501 63, 367, 362	+5. 2 +7. 8 +5. 0	3 777 2, 296 7, 532	250, 364 518, 730 1, 790, 009	4+.8	6, 308, 332 12, 969, 713 50, 109, 65 8	+5.6 $+4.8$ $+5.0$
Ohio Indiana Illinois Michigan	8, 080 2, 263 4, 981 3, 801	666, 030 255, 069 619, 422 617, 586	$\left \begin{array}{c} +3.7 \\ +2.6 \\ +2.2 \\ +7.1 \end{array} \right $	17, 812, 860 6, 718, 465 15, 729, 387 18, 434, 966	+5. 0. +6. 1 +3. 7 +6. 5	2, 592 865 2, 394 950	486, 636 214, 675 413, 957 524, 878	$+1.6 \\ +1.9 \\ +1.4 \\ +5.0$	13, 590, 000 5, 779, 287 10, 548, 009 16, 380, 797	+4. 2 +6. 2 +3. 7 +6. 8
Wisconsin West North Cen- tral	6 984 11,412	188, 285 444, 129	+2, 2	4, 671, 684 10, 209, 189		2, 473	149, 863 219, 934	+1.1		+1.0
Minnesota Iowa Missouri North Dakota South Dakota	2, 167 1, 755 3, 133 491	92, 840 66, 744 179, 497 5, 295	+2.4 +4.4 +.8	4, 069, 248 120, 580	$\begin{array}{ c c c c } +4.5 \\ +4.9 \\ -2.6 \end{array}$	440 420 902 42	683	$ \begin{array}{r} -3.1 \\ +2.5 \\ +4.2 \\ +.9 \end{array} $	901, 208 2, 147, 434 18, 653	$ \begin{array}{r} -2.5 \\ +7.9 \\ +7.4 \\ +4.2 \\ -2.4 \end{array} $
Nebraska Kansas South Atlantic Delaware	438 1, 541 1, 887 11, 194 209	7, 755 35, 533 56, 465 850, 621 15, 876	4 +1.4 +2.7	797, 653 1, 270, 989 16, 948, 806	$ \begin{array}{c c} -1.6 \\ -3.6 \\ +3.8 \\ +5.3 \\ +2.3 \end{array} $	166 464		-10.9 -7.2 +.5 +.5	310, 149 592, 776 10, 160, 248	-10. 0 +6. 6 +5. 4 +2. 4
Maryland District of Co- lumbia	1, 443 1, 087	124, 979 47, 727	+3.2 +8.5	2, 894, 153	+5.8 +4.8		80, 554 3, 951	5 4 4 + 6		+1.3
Virginia	2, 277 1, 248 1, 479 791 1, 536	110, 136 152, 461 160, 887 73, 240 115, 137	+1.8 +.9 +1.9 +1.5 +1.4	2, 171, 166 3, 907, 836 2, 527, 477 1, 119, 740 1, 899, 852	+4.9 +3.1 +6.0 +9.5 +4.2	474 251 580 226 356	72, 497 59, 312 146, 078 65, 322 87, 602	$\begin{array}{c} +.6 \\ +.2 \\ -1.3 \\ +1.5 \\ +1.4 \end{array}$	1, 519, 947 2, 274, 591 974, 769 1, 328, 774	+5.0 +1.9 +6.4 +10.8 +5.0
Florida. East South Central. Kentucky	1, 124 4, 550 1, 387	50, 178 302, 142 93, 446	+1.5	5. 710. 240	+4.2 +4.3	1, 020	22, 227 185, 015 39, 696	+10.5 2 3	360, 023 3, 340, 171	+9.2 +3.8 +4.2
TennesseeAlabamaMississippiWest South Cen-	1, 350 1, 267 546	93, 446 103, 591 90, 490 14, 615	+1.1 +1.3	1, 866, 305 1, 589, 924	+2.6 +6.6 +1.1	383	76, 129 61, 373	3 2 +.2 -2.4	1, 346, 907 1, 032, 770 121, 245	+2.4 +5.9 +.5
Arkansas 10 Louisiana	4, 409 462 928		$+.8 \\ +4.0$	372, 880 897, 116	+1.9 +2.9 +1.3	238	14,688 24,311	+.2 -1.2 +1.5	394, 997	+1.3 +2.2 4
Oklahoma Texas ¹¹	1, 380 1, 639	41, 211 87, 994	+.4	953, 253 2, 041, 050	<u>+</u> .7	140		-1.1	264, 253 1, 106, 288	+.8 +1.8

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, water, light, and power.

³ Includes laundries.

⁴ Weighted percentage change.

⁵ Includes automobile and miscellaneous services, restaurants, and building and contracting.

⁶ Includes construction but not hotels and restaurants, or public works.

⁷ Does not include logging.

⁷ Does not include logging.

Boss than 1/10 of 1 percent.
 Less than 1/10 of 1 percent.
 Includes financial institutions, miscellaneous services, and restaurants.
 Includes automobile dealers and garages, and sand, gravel, and building stone.
 Includes business and personal service and real estate.

Table 7.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1936, by Geographic Divisions and by States—Con.

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

		Tota	l—All g	roups		Manufacturing					
Geographic divi- sion and State	Num- ber of estab- lish- ments	Number on pay roll Decem- ber 1936	Per- cent age change from No- vem- ber 1936	Amount of pay roll (1 week) Decem- ber 1936	Percentage change from November 1936	Num- ber of estab- lish- ments	Number on pay roll Decem- ber 1936	Per- cent- age change from No- vem- ber 1936	Amount of pay roll (1 week) Decem- ber 1936	Per- cent- age change from No- vem- ber 1936	
				Dollars					Dollars		
Mountain	4, 409				+0.2			-7.1	1, 073, 569		
Montana	669			573, 875		86	5, 582				
Idaho	477		-9.2		-8.9		3, 524				
Wyoming	327			280, 328	-3.4		2,056		58, 349		
Colorado	1, 254			1, 213, 380				-2.1	501, 684		
New Mexico	324						700			+2.1	
Arizona	511			442, 455			3, 145				
Utah	631			500, 182		117				-14.4	
Nevada	216		2	92, 629		30	1, 196		34, 336		
Pacific	8, 932			11, 353, 511		2, 315					
Washington	3, 058										
Oregon	1, 283				-1.2	295				-3.1	
California 12	4, 591	278, 820	+2.1	7, 757, 371	+2.3	1,455	155, 867	-1.1	4, 499, 891	+2.0	

Industrial and Business Employment and Pay Rolls in Principal Cities

A COMPARISON of December employment and pay rolls with the November totals in 13 cities of the United States having a population of 500,000 or over is made in table 8. The changes are computed from reports received from identical establishments in both months.

In addition to reports included in the several industrial groups regularly covered in the survey by the Bureau, reports have also been secured from establishments in other industries for inclusion in these city totals. As information concerning employment in building construction is not available for all cities at this time, figures for this industry have not been included in these city totals.

Table 8.—Comparison of Employment and Pay Rolls in Identical Establishments in November and December 1936, by Principal Cities

City	Number of estab- lishments	Number on pay roll December 1936	Percentage change from November 1936	Amount of pay roll (1 week) December 1936	Percentage change from November 1936
New York, N. Y Chicago, Ill Philadelphia, Pa Detroit, Mich Los Angeles, Calif.	4, 487 2, 577 1, 616	724, 749 479, 140 240, 783 407, 088 149, 946	+4. 1 +2. 5 +2. 4 +8. 4 +8. 2	\$19, 364, 230 12, 912, 078 6, 205, 710 12, 546, 421 3, 916, 159	+5. 1 +4. 5 +3. 5 +5. 2 +4. 5
Cleveland, Ohio	1, 621	150, 505 138, 005 100, 624 112, 615	+5. 2 +5. 2 +4. 5 +3. 0	4, 067, 784 3, 282, 490 2, 386, 899 2, 892, 758	+5.6 +6.6 +5.2 +4.2
Pittsburgh, Pa San Francisco, Calif. Buffalo, N. Y Milwaukee. Wis	1, 682 954	218, 284 87, 226 78, 614 84, 745	+3. 2 -, 4 +2. 5 +3. 2	6, 113, 686 2, 425, 639 2, 122, 823 2, 233, 621	$+8.1 \\ +.5 \\ +6.2 \\ +5.7$

¹ Data relate to "industrial area."

Less than ½0 of 1 percent.
 Includes banks, insurance, and office employment.

¹²⁴⁴⁰²⁻³⁷⁻⁵

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 has been extended to June 30, 1937, by the Emergency Relief Appropriation Act of 1935 and title II of the First Deficiency Appropriation Act of 1936.

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 works to be carried out by 61 units of the Federal Government. The Works Program has been continued by title II of the First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936. Employment 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 fund. Projects operated by the Works Progress Administration are those projects conducted under the supervision of the Works Progress Administration through State, city, or county agencies.

The emergency conservation program (Civilian Conservation Corps) created in April 1933 was further extended under authority of the Emergency Relief Appropriation Act of 1935. Since July 1, 1936, emergency conservation work has been continued from appropriations authorized by the First Deficiency Appropriation Act of 1936.

With the following exceptions, statistics on public employment refer to the month ending on the 15th.

Employment statistics for the Federal service and for emergency conservation work refer to the number employed on the last day of the month; pay-roll data are for the entire month. The value of material orders placed for projects operated by the Works Progress Administration are for the calendar month. All statistics on National Youth Administration projects are for the calendar month.

Executive Service of the Federal Government

STATISTICS of employment in the executive service of the Federal Government in November and December 1936 and December 1935 are given in table 9.

Table 9.—Employees in the Executive Service of the U. S. Government, November and December 1936 and December 1935 1

[Subject to revision]

¥4	District of Columbia ²				ide Distr Columbi		Entire service ²			
Item	Perma- nent	Tem- porary	Total	Perma- nent	Tem- porary 3	Total	Perma- nent	Tem- porary ³	Total	
Number of employees:		ĺ				i				
December 1936	107, 898	8, 457	116, 355	618, 663	96, 468	715, 131	726, 561	104, 925	4831, 486	
November 1936	107, 898	7, 408	115, 185	621, 364	102, 897	724, 261	720, 361	110, 305	839, 446	
	104, 285	7, 806	112, 091	607, 060	97. 075	704, 135	711. 345	104, 881	816, 226	
Percentage change:	101, 200	1,000	112,001	001, 000	31,010	101, 100	711, 040	101,001	310, 220	
November to December						ŀ	{		Ì	
1936	+0.11	+14.16	+1.02	-0.43	-6.25	-1.26	-0.35	-4.88	-0.95	
December 1935 to De-	,	,	,	0. 10	00			2.00	""	
cember 1936	+3.46	+8.34	+3.80	+1.91	-0.63	+1.56	+2.14	+0.04	+1.87	
Labor turn-over December	,							,	,	
1936:						l				
Number of separations 5.	1,010	668	1,678	11, 809	16, 200	28, 009	12, 819	16, 868	29, 687	
Number of accessions 5	1,052	1, 837	2, 889	7, 959	10, 492	18, 451	9,011	12, 329	21, 340	
Turn-over rate per 100:				1						
Separation rate	. 94	8. 42	1.45	1.90	16. 25	3.89	1.76	15. 67	3. 55	
Accession rate	. 98	23. 16	2. 50	1. 28	10. 53	2. 56	1.24	11.46	2.35	

The monthly record of employment in the executive service of the United States Government from December 1935 to December 1936, inclusive, is shown in table 10.

Table 10.—Employment in the Executive Service of the U. S. Government, by Months, December 1935 to December 1936

[Subject to revision]

Month	District of Co- lumbia	Outside District of Co- lumbia	Total	Month	District of Co- lumbia	Outside District of Co- lumbia	Total
1935				1936—Continued			
December	112, 091	704, 135	816, 226	JuneJuly	117, 470 116, 261	707, 156 714, 600	824, 626 830, 861
January February March April May	111, 800 112, 708 112, 739 115, 422 117, 229	689, 499 687, 626 693, 665 695, 345 700, 999	801, 299 800, 334 806, 404 810, 767 818, 228	August September October November December	115, 807 115, 061 114, 794 115, 185 116, 355	718, 697 721, 093 726, 507 724, 261 715, 131	834, 504 836, 154 841, 301 839, 446 831, 4 36

¹ Data on number of employees refer to employment on last day of month.

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 11, by type of project.

Data on number of employees refer to employment on last day of month.
 Includes employees of Columbia Institution for the Deaf and Howard University.
 Not including field employees of Post Office Department or 22,346 employees hired under letters of authorization by the Department of Agriculture, with a pay roll of \$1,027,198.
 Includes 387 employees by transfer previously reported as separations, not actual additions for December.
 Not including employees transferred within the Government service, as such transfers should not be recorded alchority mayor.

regarded as labor turn-over.

Table 11.—Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, December 1936 1

[Subject to revision]

	Wage e	arners	Monthly	Number of man-hours	Aver-	Value of material
Type of project	Maximum number em- ployed ²	Weekly average	pay-roll disburse- ments	worked during month	earn- ings per hour	orders placed during month
	Fe	ede ra l proj	ects financed	from N. I. I	R. A. fun	ds
All projects 3	4 62, 671	57, 073	\$5, 869, 353	7, 415, 869	\$ 0. 791	\$6, 571, 205
Building construction 3 Naval vessels	13, 503	20, 018 13, 104	2, 173, 785 1, 741, 555	2, 395, 712 2, 184, 364	. 907	2, 880, 963 800, 441
Public roads 5	(6)	11,037	488, 508	1,003,800	. 487	860,000
Reclamation	1,508	1,389	171, 898	229, 898	.748	707, 439
Streets and roads	10, 825 1, 383	9, 555 1, 121	1, 154, 221 58, 472	1, 350, 275 130, 845	. 855 . 447	1, 211, 383 67, 019
Water and sewerage	384	316	20, 575	40, 058	.514	12, 571
Miscellaneous	569	533	60, 339	80, 917	.746	31, 389
	Non	n-Federal I	orojects finan	ced from N.	I. R. A.	funds
All projects	39, 853	33, 321	\$2,994,125	3, 388, 535	\$0.884	\$6, 284, 140
Building construction	20, 159	16, 676	1, 486, 102	1, 592, 576	. 933	3, 513, 475
Streets and roads		2, 529	205, 632	230, 207	. 893	326, 741
Water and sewerage	13, 648	11,708	1, 153, 334	1, 275, 684	.904	1,855,992
Miscellaneous	2, 801	2, 408	149, 057	290,068	.514	587, 932
	Non-Fe	ederal "tra	nsportation l N. I. R.	oan'' project A. funds	s finance	d from
All projects	1, 226	(7)	\$66, 441	108, 721	\$0.611	(7)
Railroad construction	120	101	5, 535	10, 505	. 527	0
Railroad car and locomotive shops	1, 106	(7)	60,906	98, 216	. 620	(7)
Operated by railroads	1,067	971	57, 218	91, 681	. 624	0
Operated by commercial firms.	39	(7)	3, 688	6, 535	. 564	(7)
	Non-Fee	deral proje	cts financed	from E. R. A	A. A. 193	funds *
All projects	139, 068	115, 574	\$9, 645, 700	12, 201, 105	\$0. 791	\$17, 897, 642
Building construction		67, 965	5, 821, 416	6, 741, 737	. 863	9, 772, 167
Electrification	698	571	44,063	59, 733	. 738	494, 283
Heavy engineering		1,827	200, 613	236, 726	.847	767, 827
Reclamation	2, 895	2, 701 921	266, 293	368, 459	.723	292, 083
River, harbor, and flood control Streets and roads	1, 140 17, 166	13, 779	73, 549 759, 369	111, 173 1, 436, 668	. 662	74, 485 1, 649, 909
Water and sewerage		27, 105	2, 419, 651	3, 179, 079	761	4, 735, 961
Miscellaneous		705	60,746	67, 530	. 900	110, 927
	1	1		1	l	1

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

Data are for the month ending on the 15th.
 Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.
 Includes a maximum of 15,777 and an average of 13,738 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds, who were paid \$1,498,902 for 1,680,430 man-hours of labor. Material orders in the amount of \$2,010,136 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.
 Includes weekly average for public roads.
 Estimated by the Bureau of Public Roads.
 Not available; average included in total.
 Data not available.

⁷ Data not available.

⁸ These data, excluding figures for projects financed from F. D. A. 1936 funds, are also included in separate tables covering projects financed by The Works Program. These data include a maximum of 149 and an average of 117 employees working on non-Federal projects financed from F. D. A. 1936 funds, who were paid \$7,714 for 8,453 man-hours of labor. Material orders in the amount of \$32,504 were placed for these projects.

Federal construction projects 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 or the Emergency Relief Appropriation Act of 1935. 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 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 1936 is given in table 12.

Table 12.—Employment and Pay Rolls, July 1933 to December 1936, Inclusive, on Projects Financed from Public Works Administration Funds ¹

Year and month	Maxi- mum number of wage earners 2	Monthly pay-roll dis- bursements	Number of man-hours worked dur- ing month	Average earnings per hour	Value of material orders placed dur- ing month
July 1933 to December 1936, inclusive 3 4		\$854, 519, 921	1, 294, 017, 130	\$0.660	\$1, 526, 070, 852
July to December 1933, inclusive 4 January to December 1934, inclusive January to December 1935, inclusive 3		33, 244, 066 308, 311, 143 270, 195, 762	62, 209, 479 523, 561, 666 391, 579, 803	. 534 . 589 . 690	75, 524, 702 5 610, 051, 090 6 439, 152, 426
January 1936 8 February March April May June	176, 764 202, 236 264, 427 315, 393	14, 399, 381 12, 220, 479 13, 981, 176 18, 915, 663 22, 590, 878 25, 840, 926	19, 195, 535 16, 404, 771 18, 519, 649 25, 203, 010 30, 377, 869 34, 418, 037	. 750 . 745 . 755 . 751 . 744 . 751	22, 796, 818 23, 460, 743 29, 068, 402 32, 459, 393 \$ 39, 778, 571 37, 803, 419
July	311, 361 284, 903	24, 841, 359 24, 676, 121 23, 582, 444 22, 290, 424 20, 854, 480 18, 575, 619	32, 749, 131 32, 235, 040 30, 254, 704 28, 140, 040 26, 054, 166 23, 114, 230	. 759 . 766 . 779 . 792 . 800 . 804	40, 589, 226 38, 088, 931 38, 152, 624 34, 144, 905 4 34, 246, 615 30, 752, 987

Revised. Includes orders placed by railroads for new equipment.

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 13, by type of project.

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. Includes weekly average for public-road projects.

³ Includes employees working on non-Federal projects 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.

Table 13.- Employment and Pay Rolls on Projects Financed by The Works Program, December 1936 1

	Wage ea	rners	Monthly	Number of man-hours	Aver- age	Value of material
Type of project	Maximum number employed ²	Week- ly aver- age	pay-roll disburse- ments	worked during month	earn- ings per hour	orders placed during month
	Federal projects					
All projects	370, 911	331, 838	\$18, 595, 253	37, 894, 672	\$0. 491	\$9, 966, 206
Building construction Electrification Forestry Grade-crossing elimination Heavy engineering Hydroelectric power plants 3	30, 380 33, 219	44, 574 3, 781 27, 669 26, 338 137 1, 627	2, 943, 644 131, 714 1, 435, 698 1, 853, 582 10, 114 21, 957	5, 120, 066 301, 433 3, 210, 154 3, 030, 032 11, 480 87, 922	. 575 . 437 . 447 . 612 . 881 . 250	1, 461, 343 758, 243 327, 877 2, 427, 614 4, 526 12, 716
Plant, crop, and livestock conserva- tion	80, 852	31, 237 18, 124 56, 111 78, 138 15, 992 12, 143 1, 676 14, 291	1, 399, 148 1, 322, 395 2, 840, 448 4, 028, 468 1, 510, 657 299, 776 73, 693 723, 959	4, 174, 722 2, 234, 214 6, 317, 373 8, 878, 786 2, 116, 916 923, 787 157, 473 1, 330, 314	. 335 . 592 . 450 . 454 . 714 . 325 . 468 . 544	29, 890 66, 784 2, 047, 041 1, 215, 035 1, 263, 173 37, 555 28, 973 285, 436
	P. W. A. p	rojects fin	anced from	E. R. A. A. 1	935 and	1936 funds 4
All projects	154, 696	129, 195	\$11, 136, 888	13, 873, 082	\$0.803	\$19, 875, 274
Building construction Electrification Heavy engineering Reclamation River, harbor, and flood control Streets and roads Water and sewerage Miscellaneous	698 2, 114 2, 895 1, 140 17, 141	81, 626 571 1, 827 2, 701 921 13, 760 27, 084 705	7, 313, 546 44, 063 200, 613 266, 293 73, 549 758, 748 2, 419, 332 60, 746	8, 415, 551 59, 733 236, 726 368, 459 111, 173 1, 435, 462 3, 178, 448 67, 530	. 869 . 738 . 847 . 723 . 662 . 529 . 761 . 900	11, 751, 151 494, 283 767, 827 292, 083 74, 485 1, 648, 609 4, 735, 909 110, 927
	Proje	ects opera	ted by Work	s Progress A	dministr	ation
All projects	2, 593, 569		\$136,135,774	273, 022, 576	\$0.499	(5)
Conservation Highway, road, and street Housing National Youth Administration 6 Professional, technical, and clerical Public building	129, 665 933, 528 4, 882 167, 567 249, 249 209, 829		6, 325, 633 45, 927, 969 334, 317 2, 925, 952 19, 137, 018 13, 269, 536	13, 800, 310 102, 745, 869 517, 926 7, 800, 338 28, 398, 052 21, 282, 068	. 458 . 447 . 645 . 375 . 674 . 624	
Publicly owned or operated utilities_ Recreational facilities ⁷	200, 777 214, 792 66, 646 288, 789 53, 085 74, 760		10, 742, 408 12, 988, 959 3, 119, 089 13, 975, 397 3, 062, 455 4, 327, 041	20, 618, 583 22, 173, 390 7, 199, 914 34, 193, 539 5, 754, 233 8, 538, 354	. 521 . 586 . 433 . 409 . 532 . 507	

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 1936 are given in table 14.

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.
 These data are for projects under construction in Puerto Rico.
 Includes data for 138,919 employees working on non-Federal projects and 15,777 employees working on low-cost housing projects. These data are included in tables covering projects under the jurisdiction of P.W.A.
 Data on a monthly basis are not available.
 These data are for the month ending Nov. 30, 1936, and exclude student-aid projects.
 Exclusive of buildings.

⁷ Exclusive of buildings.

Table 14.—Employment and Pay Rolls July 1935 to December 1936, Inclusive, on Projects Financed by The Works Program ¹

							
Month and year	Maximum number employed 2	Monthly pay- roll disburse- ments	Number of man-hours worked dur- ing month	Average earnings per hour	Value of material or- ders placed during month		
	Federal projects						
July 1935 to December 1936, inclusive.		\$262, 008, 806	576, 810, 180	\$0.454	\$176, 703, 349		
July to December 1935		36, 951, 974	80, 745, 958	. 458	34, 763, 337		
1936							
January February	298, 589	11, 179, 541 12, 529, 207 14, 431, 789	25, 955, 820 29, 173, 914	. 431 . 429	8, 988, 622 9, 684, 578		
March	1 225 505	14, 431, 789	1 25 2/12 226	.409	1 8, 028, 299		
Mov	1 375,865	16, 563, 885 19, 160, 510	38, 563, 300 43, 267, 437	. 430 . 443	12, 903, 903 12, 668, 052		
April May June	375, 865 401, 298 453, 012	19, 160, 510 22, 657, 507	38, 563, 300 43, 267, 437 50, 680, 511	.447	14, 431, 802		
July	451, 570 451, 960	22, 699, 760 22, 794, 588	48, 849, 680	. 465	16, 198, 583		
August	451, 960	22, 794, 588	48, 849, 680 48, 559, 862 47, 786, 683	.469	16, 198, 583 13, 191, 899 13, 095, 741 12, 270, 703		
September October	439, 897 437, 839	22, 585, 121 21, 785, 609	47, 786, 683	. 473 . 462	13,095,741		
November	404, 671	20, 074, 062	42, 946, 903	. 467	10,511,624		
December	370, 911	18, 595, 253	37, 894, 672	. 491	9, 966, 206		
	P. W. A. pr	ojects financed	from E. R. A.	A. 1935 and	1 1936 funds ³		
September 1935 to December 1936,							
inclusive		\$107, 317, 327	143, 400, 319	\$0.748	\$214, 882, 697		
September to December 1935		883, 741	1, 326, 721	. 666	2, 061, 700		
1936							
JanuaryFebruary	23, 740 39, 848	1, 128, 635 1, 794, 866	1, 621, 349 2, 609, 270	. 696	3, 632, 378		
March	39, 848 64, 223	1, 794, 866 3, 032, 280	2, 609, 270 4, 525, 546	.688 .670	8, 611, 717 10, 548, 343		
April	112, 345	6, 346, 433	9, 211, 679 13, 011, 674	. 689	14, 725, 726		
June	149, 334	9, 101, 702 11, 435, 825	13, 011, 674 15, 843, 765	.700 .722	20, 112, 332 20, 454, 214		
June	176, 184		1 ' '				
July	188, 076 191, 433 184, 518	12, 277, 476 12, 892, 537 12, 794, 471	16, 574, 227 17, 159, 189 16, 597, 561	.741 .751 .771	23, 404, 501 24, 067, 345 23, 150, 164		
August September October	191, 433	12, 892, 557	17, 159, 189	.751	24, 067, 345		
October	171, 203	12, 356, 655	15, 818, 125	.781	21, 396, 051		
November	166, 178 154, 696	12, 135, 818 11, 136, 888	15, 228, 131 13, 873, 082	.797 .803	22, 842, 952 19, 875, 274		
December	104,000	11, 130, 608	10,070,002	. 000	10,010,214		
	Projec	ts operated by	Works Progress	s Administ	ration		
August 1935 to December 1936, inclusive.		\$1,767,465,844	3, 846, 253, 479	\$0.460	4 \$521,309, 408		
August to December 1935		170, 911, 331	367, 589, 041	. 465			
1936							
January	2, 812, 391 2, 950, 481 3, 095, 261	128, 383, 000 137, 182, 000	314, 664, 210	.408			
FebruaryMarch	3, 095, 261	137, 182, 000	332, 966, 010 341, 539, 000	. 412 . 423			
April	9 975 900	144, 988, 000	333, 305, 740	.435			
May June	2, 579, 937 2, 395, 423	132, 820, 000 126, 253, 000	297, 136, 460 275, 661, 570	.447			
	l						
August	2,412,462	122, 774, 427 124, 731, 158	265, 669, 182 247, 539, 090	.462			
AugustSeptember	2, 560, 701	124, 731, 158 127, 380, 456	247, 539, 090 253, 720, 345	. 502			
October	2, 637, 742	132, 892, 258 138, 543, 440	264, 853, 832 278, 586, 423	. 502			
October November December	2, 412, 462 2, 462, 590 2, 560, 701 2, 637, 742 2, 726, 361 2, 593, 569	138, 543, 440 136, 135, 774	278, 586, 423 273, 022, 576	.497 .499			
	_, 550, 550]	2.5, 522, 5.0				

¹ Data are for the month ending on the 15th with exceptions noted in the preceding table.

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

³ These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for December include 138,919 employees working on non-Federal projects and 15,777 employees working on low-cost housing projects.

⁴ Data on a monthly basis are not available.

Emergency Conservation Work

Statistics concerning employment and pay rolls in emergency conservation work in November and December 1936 are presented in table 15.

Table 15.—Employment and Pay Rolls in Emergency Conservation Work, November and December 1936 1

[Subject to revision]

	Number of	employees	Amount of pay rolls		
Group	December	November	December	November	
All groups	376, 953	391, 296	\$18, 112, 149	\$18, 604, 821	
Enrolled personnel ² . Reserve officers. Educational advisers ³ . Supervisory and technical ⁴ .	327, 056 8, 079 2, 179 4 39, 639	341, 097 8, 159 2, 174 6 39, 866	10, 183, 844 2, 055, 177 373, 184 5 5, 499, 944	10, 620, 628 2, 063, 459 372, 430 5, 548, 304	

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

Employment and pay-roll data for emergency conservation workers are collected by the Bureau of Labor Statistics from the War Department, the Department of Agriculture, the Department of Commerce, the Treasury Department, and the Department of the Interior. monthly pay of the enrolled personnel is distributed as follows: 5.0 percent are paid \$45; 8.0 percent, \$36; and the remaining 87.0 percent, The enrolled men, in addition to their pay, are provided with board, clothing, and medical services.

Monthly statistics of employment and pay rolls on the emergency conservation program from December 1935 to December 1936, inclusive, are given in table 16.

Table 16.—Employment and Pay Rolls in Emergency Conservation Work, by Months, December 1935 to December 1936 1

Month	Number of employees	Monthly pay-roll disburse- ments	Month	Number of employees	Monthly pay-roll disburse- ments
1935			1936—Continued		
December	509, 126 478, 751 454, 231 356, 273 391, 002 407, 621	\$21, 958, 301 21, 429, 044 20, 484, 493 17, 249, 609 18, 063, 534 18, 598, 026	June. July August September October November December	383, 279 404, 422 383, 554 320, 821 404, 826 391, 296 376, 953	\$17, 973, 962 18, 417, 372 17, 840, 653 16, 367, 897 17, 662, 545 18, 604, 821 18, 112, 149

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

entire month.

2 December data include 2,976 enrollees and pay roll of \$62,828 outside continental United States; November, 2,819 enrollees and pay roll of \$56,206.

3 Included in executive service, tables 9 and 10.

4 Includes carpenters, electricians, and laborers.

8 37,942 employees and pay roll of \$5,318,635 also included in executive service, tables 9 and 10.

6 38,174 employees and pay roll of \$5,379,003 also included in executive service, tables 9 and 10.

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 17, by type of project.

Table 17.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, December 1936 ¹

[Subject to revision]									
Type of project	Number of wage earners	Monthly pay-roll disburse- ments	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month				
All projects	9, 189	\$1, 106, 816	1, 514, 355	\$0.731	\$1, 433, 075				
Bridges Building construction ³ Reclamation Water and sewerage Miscellaneous	149 1, 026 42 7, 615 357	16, 104 77, 541 3, 820 968, 788 40, 563	15, 972 157, 537 6, 606 1, 278, 102 56, 138	1,008 .492 .578 .758 .723	8, 436 157, 148 5, 792 1, 250, 060 11, 639				

¹ Data are for the month ending on the 15th. ² Includes 61 employees; pay-roll disbursements of \$3,533; 3,659 man-hours worked; and material orders placed during the month amounting to \$13,082 on projects financed by RFC Mortgage Co.

A monthly summary of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation from December 1935 to December 1936, inclusive, is given in table 18.

Table 18.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, December 1935 to December 1936 ¹

[Subject to revision]									
Month	Number of wage earners	Monthly pay-roll dis- bursements	Number of man-hours worked dur- ing month	A verage earnings per hour	Value of ma- terial orders placed dur- ing month				
December	7, 792	\$870, 129	1, 161, 473	\$0. 749	\$1,383,330				
January	7,961	850, 271 905, 455 916, 059 1, 133, 880 962, 280 941, 680	1, 093, 350 1, 179, 431 1, 193, 145 1, 479, 182 1, 244, 097 1, 252, 193	. 778 . 768 . 768 . 767 . 773 . 752	1, 355, 520 1, 436, 119 1, 385, 640 1, 292, 063 1, 441, 248 2, 527, 262				
July	9, 658 10, 290 8, 864	1, 063, 728 1, 065, 744 1, 085, 642 1, 002, 648 1, 108, 258 1, 106, 816	1, 436, 201 1, 441, 791 1, 510, 109 1, 347, 317 1, 502, 460 1, 514, 355	. 741 . 739 . 719 . 744 . 738 . 731	2, 050, 370 1, 314, 692 1, 420, 444 1, 298, 643 3, 008, 077 1, 433, 075				

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

Construction Projects Financed from Regular Governmental 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, 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. The Bureau does not have statistics covering projects financed from regular governmental 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 governmental appropriations during December are given in table 19, by type of project.

Table 19.- Employment on Construction Projects Financed From Regular Governmental Appropriations, by Type of Project, December 1936 1

[Subject to revision]									
	Number of wage earners		Monthly pay-roll	Number of man-hours	Average	Value of material orders			
Type of project	Maximum number employed ²	Weekly average	disburse- ments	worked during month	earnings per hour	placed during month			
All projects	3 144, 274	135, 984	\$13, 491, 223	19, 164, 694	\$0.704	\$16,009,255			
Building construction	28, 269	25, 283	2, 455, 924	3, 288, 411	. 747	3, 586, 501			
Electrification	146	87	4, 881	9,062	. 539	28,068			
Forestry	46	43	3, 572	7, 459	. 479	1, 239			
Public roads 4	37,002	36,088	4, 734, 422	5, 391, 645	.878	4,080,005			
rubile roads	(8)	41, 103	2, 970, 373	5, 143, 068	. 578	5, 229, 230			
Reclamation.	894	864	141, 317	176, 798	. 799				
River, harbor, and flood control	31, 403	27, 739	2, 874, 746	4, 587, 579	.627	2, 698, 022			
Streets and roads	2, 689	2, 448	133, 181	285, 251	.467	135, 347			
Water and sewerage	279	164	12, 462	19, 675	.633	49, 455			
Miscellaneous	2,443	2, 165	160, 345	255, 746	. 627	201,388			
			<u> </u>	·					

Employment, pay rolls, and man-hours worked on construction projects financed from regular governmental appropriations from December 1935 to December 1936 are shown, by months, in table 20.

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.
 Estimated by the Bureau of Public Roads.
 Not average for public roads.

Not available; average number included in total.

Table 20.—Employment on Construction Projects Financed from Regular Governmental Appropriations, December 1935 to December 1936 ¹

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
December 1935 January 1936 January February March April May June June	47, 538	\$3, 707, 963 3, 990, 725 3, 619, 025 3, 674, 896 5, 205, 353 6, 242, 763 8, 631, 104	5, 980, 118 6, 246, 418 5, 545, 115 5, 814, 569 8, 375, 190 10, 262, 637 13, 692, 884	\$0.620 .639 .653 .632 .622 .608	\$6, 155, 840 5, 584, 611 6, 669, 016 7, 185, 019 9, 861, 378 12, 559, 367 12, 347, 453
July	158, 939 167, 745 168, 657	13, 552, 299 14, 663, 201 15, 272, 860 16, 370, 857 14, 307, 158 13, 491, 223	20, 552, 261 22, 023, 669 23, 044, 847 24, 708, 818 21, 061, 396 19, 164, 694	. 659 . 666 . 663 . 663 . 679 . 704	25, 670, 217 18, 787, 905 21, 301, 074 19, 998, 984 16, 844, 360 16, 009, 255

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

State-Roads Projects

A RECORD of employment and pay-roll disbursements in the construction and maintenance of State roads from December 1935 to December 1936 is presented in table 21.

Table 21.—Employment on Construction and Maintenance of State Roads,

December 1935 to December 1936 ¹

[Subject to revision]

	Number of	m . 1		
Month	New roads	Mainte- nance	Total	Total pay roll
1935 December	27, 046	121, 690	148, 736	\$6, 139, 581
January	10, 256 8, 150 11, 339 16, 566 20, 773 21, 744 26, 810 34, 459 34, 136 27, 988	105, 795 119, 777 133, 386 143, 305 164, 356 165, 363 164, 956 158, 882 151, 772 149, 717 153, 688 138, 540	120, 153 130, 033 141, 536 154, 644 180, 922 186, 136 186, 700 185, 692 186, 231 183, 853 181, 676 159, 934	7, 481, 502 7, 572, 614 7, 689, 770 8, 918, 024 10, 560, 866 11, 488, 253 11, 839, 215 11, 937, 585 11, 806, 481 11, 566, 892 11, 330, 509 10, 000, 371

¹ Excluding employment furnished by projects financed from Public Works Administration funds and Works Progress Administration funds. Data are for the month ending on the 15th.

Material Orders Placed

THE value of material orders placed on construction projects financed by Federal funds in the fourth quarter of 1936, is presented in table 22.

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

In the fourth quarter of 1936 on the Public Works Administration program, orders have been placed for materials valued at approximately \$99,145,000. Of this amount, \$30,317,000 has been expended for iron and steel products, \$7,683,000 for cement, \$7,760,000 for forest products, and \$11,243,000 for machinery.

On The Works Program, material orders placed in the fourth quarter of 1936 amounted to \$123,297,000. 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 listed in table 22 approximately 961,000 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 material 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.

Table 22.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1936

[Subject to revision]									
				Projects					
Type of material	Total	Public	Recon- struction	Regular	The Works	Program 4			
		Works Ad- ministra- tion 1	Finance Corpora- tion 2	Govern- mental 3	Federal construc- tion	Operated by W. P. A.			
All materials	\$280, 686, 062	\$99, 144, 507	\$5, 739, 795	\$52, 852, 599	\$32, 400, 924	\$90, 548, 237			
Textiles and their products	6 17, 635, 431	134, 064	333	46, 426	43, 192	617, 411, 416			
Awnings, tents, canvas, etc	36, 448		333	5, 101	11, 626				
Carpets and rugs Cordage and twine Cotton goods	11, 183 29, 854 4, 182	4,429		16, 139 287	9, 286				
Felt goods Jute goods	12, 812 3, 330	7, 374 3, 280		4, 300	1, 138				
Linoleum Sacks and bags	115, 249 6, 206	83,922		14, 009 3, 186	17, 318				
Upholstering materials, n. e. c. Waste	175 4, 576	380		3, 404	175				
Forest products	⁵ 21, 704, 494					6 7, 880, 255			
Cork products	61, 050			7,001					
Lumber and timber products, n. e. c	10, 546, 727	5, 387, 087	213, 382	2, 285, 354	2, 660, 904	ä			
Planing-mill products Window and door screens and	3, 164, 043	, ,		424, 716	i i				
weatherstrip	52, 419	47, 785		3, 745	889				

See footnotes at end of table.

Table 22.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1936—Continued

(Subject to revision)								
				Projects				
Type of material	Total	Public	Recon- struction	Regular	The Work	s Program		
		Works Ad- ministra- tion	Finance Corpora- tion	Govern- mental	Federal construc- tion	Operated by W. P. A.		
Chemicals and allied products	6 \$4, 368, 771	\$890, 403	\$160,349	\$398, 041	\$ 689, 416	⁵ \$2, 230, 562		
Ammunition and related								
products	17, 631 146, 748	17, 631 13, 229		39, 094	94, 425			
Compressed and liquefiedgases	146, 748 89, 850	24, 649 266, 050	15, 685	12, 980 222, 909	36, 536			
Explosives Paints and varnishes	925, 857 2, 236, 067	568, 844	143, 466 1, 198	123, 058	293, 432 265, 023	1, 277, 944		
Stone, clay, and glass products	6 83, 313, 178	30, 435, 175	1, 536, 904	14, 900, 612	9, 436, 666	\$ 27, 003, 821		
***						- 27, 000, 021		
Asbestos, products, n. e. c Brick, hollow tile, and other clay products	107, 665 9, 760, 538	73, 970 5, 522, 163	30, 905 6, 379	2, 598 550, 282	192 364, 853	3, 316, 861		
Cement	26, 276, 648 10, 649, 673	5, 522, 163 7, 682, 747 5, 486, 862	1, 281, 691	550, 282 6, 317, 830 367, 712	3, 453, 692	7, 540, 688		
Concrete products	9, 463, 315	5, 486, 862 1, 636, 204	7,846 511	2, 594, 348	1, 276, 986 941, 573	3, 510, 267 4, 290, 679		
Glass	606, 876 81, 318	469 086	3, 048	85,673	49, 069			
Lime		54, 513	60	8, 175	18, 570	· ·		
Marble, granite, slate, and other stone products	3, 709, 415	2, 241, 499	238	1, 125, 356	342, 322			
Minerals and earth, ground or otherwise treated Sand and gravel	46, 098 17, 072, 443	33, 918 4, 988, 257	203, 937	9, 696 3 , 637, 956	2, 484 2, 775, 153	5, 467, 140		
Tiling, floor and wall, and terrazzo	1, 016, 308	850, 491	130	81, 716	83, 971			
lating board, and floor com- position	1, 644, 695	1, 395, 465	2 , 159	119, 270	127,801			
Iron and steel and their prod-								
ucts, not including ma- chinery	6 62, 493, 932	30, 316, 502	1, 157, 987	9, 869, 273	7 , 827, 912	6 13, 322, 258		
Bolts, nuts, washers, etc	625, 220	287, 087	7, 797	186, 689	143, 647			
Cast-iron pipe and fittings Doors, shutters, and window sash and frames, molding	8, 329, 422	287, 087 3, 843, 189	36, 643	394, 780	259, 742			
and trim (metal)	2, 545, 582	1, 796, 051	4, 344	621, 316	123, 871			
Forgings, iron and steel Hardware, miscellaneous Heating and ventilating	2, 545, 582 875, 266 2, 199, 990	207, 944 1, 342, 470	1	505, 046 389, 672	1			
equipment	7, 143, 813	5, 601, 320 183, 154	30, 731	447, 944 44, 279	203,842	859, 976		
Nails and spikes	325, 834							
Rails, steel	51, 984 202, 484		1, 335 16, 802	22, 264 10, 102				
Steel-works and rolling-mill products, n. e. c.	5, 837, 243	3, 297, 843	127, 053	1, 463, 792	948, 555			
Stoves and ranges, other than electricStructural and reinforcing	8, 790	7, 155		1, 496	139			
steelSwitches, railway	25, 015, 833 535	10, 722, 618	775, 686	4, 650, 489	4, 896, 243 535	3, 970, 797		
Tools, other than machine tools	1, 575, 936	86,003	30, 680	283, 530	248, 206	927, 511		
Wire products, n. e. c.	1, 464, 828 2, 522, 272	475, 579 2, 263, 720	32, 926	635, 473 212, 401	320, 850) _		
Wrought pipe	2, 522, 272	2, 263, 720	1, 218	212, 401	44, 933			
Nonferrous metals and their products	6 2, 145, 885	1, 072, 559	5, 049	238, 457	497, 972	8 331, 848		
Aluminum manufactures	92, 135	56, 539	342	34, 760	494			
Copper products Lead products	92, 135 240, 508 48, 605	56, 539 139, 615 44, 525	1, 366	20, 112 930	79, 415 3, 150	5		
Nonferrous-metal alloys and products, n. e. c	263, 496	123, 364		131, 262	8,870)		
Sheet-metal work Zinc products	263, 496 1, 167, 094 2, 199	706, 824 1, 692	3, 341	51, 176 217	5 4 05, 75;	3		
				\ 	======	1 		

See footnotes at end of table.

Table 22.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the Fourth Quarter of 1936—Continued

		Projects							
Type of material	Total	Public	Recon- struction	Regular	The Works Program				
		Works Ad- ministra- tion	Finance Corpora- tion	Govern- mental	Federal construc- tion	Operated by W. P. A.			
Machinery, not including transportation equipment	\$ \$35, 978, 657	\$11, 242, 643	\$1, 736, 911	\$16, 359, 187	\$3, 359, 102	6 \$3, 280, 81¢			
Electrical machinery, apparatus, and suppliesElevators and elevator equip-	9, 466, 041	2, 373, 501	174, 975	4, 365, 976	1, 012, 279	1, 539, 310			
ment	1, 068, 042	889, 245	5, 358	167, 961	5, 478				
Engines, turbines, tractors, and waterwheels	5, 423, 328	1, 108, 627	189, 913	3, 571, 573	553, 215				
Foundry and machine shop products, n. e. c	16, 804, 80 5 397, 875	5, 398, 936 161, 842		6, 837, 425 194, 657	1, 628, 005 31, 300				
gas generators	112, 474	111, 456			1, 018				
Pumps and pumping equip- ment	2, 375, 288	1,071,062	20, 687	1, 157, 419	126, 120				
and ice-making apparatus.	193, 837	127, 974		64, 176	1, 687				
Transportation equipment—air, land, and water	1, 544, 896	178, 165	64, 383	62, 158	209, 700	1, 030, 490			
Boats, steel and wooden									
(small) Carriages and wagons	18, 856 13, 264	410 12, 721		17, 918 63	480				
Locomotives, steam	1,000				i 1,000				
Motor vehicles, passenger Motor vehicles, trucks	34, 446 1, 476, 328	11, 975 1 52, 057	13, 409 50, 974	594 43, 583	8, 468 199, 224	1, 030, 49			
Railway cars, freight	1, 002	1, 002							
Miscellaneous	51, 500, 818	17, 114, 835	863, 170	8, 257, 629	7, 208, 411	18, 056, 77			
Belting, miscellaneous Coal	11, 273 596, 876	124 35, 205	225 213	9, 964 142, 081	960 83, 524	335, 85			
Creosote Electric wiring and fixtures	7, 783 5, 531, 151	338 3, 810, 313		982, 332	7, 283				
Furniture, including store and office fixtures Instruments, professional and	2, 716, 365	1, 715, 009	2, 026	54, 2 55	54, 166	890, 90			
scientific	123, 506	37, 892		28, 259	57, 355				
Mattresses and bed springs Models and patterns	19, 452 3, 804	18, 494 3, 514		562 246	396 44				
Paper products	19, 906	17, 778		1, 194	934				
Paving materials and mix- tures, n. e. c.	11, 135, 929	1, 482, 775	14,964	1,060,967	1, 224, 263	7, 352, 960			
Petroleum products	9, 134, 640	1, 883, 698	292, 830	2, 901, 520	2, 234, 531	1, 822, 06			
Photographic apparatus and materials	7, 747	4, 533		1,870	1,344				
Plumbing supplies, n. e. c	4,797,373	3, 369, 486	20, 334	364, 399	325, 885	717, 269			
Radio apparatus and supplies_ Roofing materials, n. e. c	7, 868 1, 344, 851	4, 287 983, 303	4, 434	2, 961 127, 431	620 229, 683				
Rubber goods	436, 659	59, 766	75, 139	21, 389	106, 677	173, 68			
gaskets	272, 709	240, 887	87	28, 271	3, 464				
Theatrical scenery and stage equipment	40,042	40,042							
Window shades and fixtures	53, 677	48, 339		135	5, 203				
Other materials	15, 239, 207	3, 359, 052	348, 840	2, 529, 631	2, 237, 651	6, 764, 033			

¹ Includes material orders placed on P. W. A. projects financed by the Emergency Relief Appropriation

¹ Includes material orders placed on 1. W. M. Projects for which contracts were awarded before Mar. 15, 2 Does not include material orders placed on projects for which contracts were awarded before Mar. 15, 1934. Includes projects financed by RFC Mortgage Co.

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

4 Material orders placed on P. W. A. projects, financed by E. R. A. A. 1935, included under P. W. A.

5 For quarterly period ending Dec. 31, 1936. Includes National Youth Administration projects for quarterly period ending Nov. 30, 1936.

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

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 Manufactures for 1933.

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the year 1935 and for the first, second, third, and fourth quarters of 1936 is shown in table 23.

Table 23.—Value of Material Orders Placed on Federal Professional, Technical, and Clerical Projects Financed by The Works Program

[Subject to revision]								
		Year 1936						
Type of material	Year 1935	Total	First quarter	Second quarter	Third quarter	Fourth quarter		
Total	\$329, 212	\$1, 376, 250	\$202, 211	\$419, 501	\$406, 929	\$347, 609		
Computing machines Furniture. Office supplies Stationery Typewriters Other office machines Other materials Rental of machinery and equipment	41,460	50, 571 80, 699 189, 782 33, 289 21, 323 46, 856 657, 897 295, 833	13, 073 12, 605 40, 602 6, 645 9, 354 9, 334 77, 218 33, 380	14, 219 20, 035 51, 364 8, 580 6, 260 6, 090 201, 134 111, 819	17, 780 34, 985 72, 184 5, 925 4, 506 30, 484 133, 367 107, 698	5, 499 13, 074 25, 632 12, 139 1, 203 948 246, 178 42, 936		

A cumulative total for rentals and services supplied to work projects operated by the Works Progress Administration from July 1935 to December 1936, inclusive, is shown below, by type of service.

Table 24.—Rentals and Services Supplied to Work Projects Operated by the Works Progress Administration July 1935 to December 1936, Inclusive 1

[Subject to Levision]								
Type of service	Total	Type of service	Total					
All services Busses and autos Teams and wagons Trucks and vans Other transportation and travel	\$212, 105, 768 2, 660, 632 15, 660, 403 115, 957, 483 4, 651, 823	Paving, road building, and other construction equipment. Other equipment (including office equipment). Space rentals and services. Other services (including utilities).	\$54, 855, 178 5, 844, 836 5, 812, 968 6, 662, 445					

¹ Data are cumulative to Dec. 31, 1936.

The value of material orders placed on the various programs financed by Federal funds for the year 1935 and for the first, second, third, and fourth quarters of 1936 is given in table 25.

Table 25.—Value of Material Orders Placed on Projects Financed by Federal Funds

		Year 1936							
Program	Year 1935	Total	First quarter	Second quarter	Third quarter	Fourth quarter			
Total	\$595,760,067	\$1,015,469,234	\$180,993,443	\$254,395,694	\$299,046,426	\$281,033,671			
P. W. A., including E. R. A. A. R. F. C.! R. G. A. ² The Works Program: Federal construction Professional, technical, and clerical Operated by W. P. A.	439, 152, 426 26, 371, 035 49, 430, 966 34, 434, 125 329, 212 46, 042, 303	19, 963, 153 172, 818, 639 140, 563, 762 1, 376, 250	4, 177, 279 19, 438, 646 26, 499, 288 202, 211	5, 260, 573 34, 768, 198 39, 584, 256 419, 501	4, 785, 506 65, 759, 196 42, 079, 294 406, 929	52, 852, 599 32, 400, 924 347, 609			

¹ Includes RFC Mortgage Co. Does not include orders placed on projects for which contracts were awarded before Mar. 15, 1934.

² Does not include orders placed on projects for which contracts were awarded before July 1, 1934.

A summary of the man-months of employment created in the final fabrication of the materials used on the various programs, for the year 1935 and for the first, second, third, and fourth quarters of 1936 is presented in table 26.

Table 26.—Number of Man-Months of Labor Created in Final Fabrication of Materials Purchased from Federal Funds

		Year 1936					
Program	Year 1935	Total	First quarter	Second quarter	Third quarter	Fourth quarter	
Total	1, 840, 033	3, 486, 249	634, 069	889, 095	1,001,654	961, 431	
P. W. A., including E. R. A. A. R. F. C.! R. G. A.2 The Works Program: Federal construction Professional, technical, and clerical Operated by W. P. A.	1, 329, 546 79, 913 154, 472 109, 252 1, 289 165, 561	1, 398, 039 65, 392 538, 193 449, 972 5, 225 1, 029, 428	259, 602 12, 034 59, 528 88, 068 795 214, 042	393, 169 15, 872 108, 972 126, 208 1, 727 243, 147	402, 310 20, 452 202, 025 133, 417 1, 427 242, 023	342, 958 17, 034 167, 668 102, 279 1, 276 330, 216	

¹ Includes RFC Mortgage Co. Does not include projects for which contracts were awarded before Mar. 15, 1934.

² Does not include projects for which contracts were awarded before July 1, 1934.

