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EMPLOYMENT AND PAY ROLLS

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Employment and Pay Rolls

SUMMARY OF REPORTS FOR MARCH 1938

NONAGRICULTURAL employment showed a further slight decline in March with approximately 40,000 fewer workers employed. Ordinarily between 200,000 and 300,000 workers go back into industry at this season. Compared with March 1937, it is estimated that there were about 2,440,000 fewer people at work on nonagricultural jobs, excluding W. P. A. and other Federal and State emergency projects.

Employment in manufacturing industries decreased contraseasonally in March, as about 50,000 wage earners were laid off. Weekly factory pay rolls showed a gain of \$200,000, indicating some improvement in plant operating schedules. Factory employment was about 19 percent below the level of March of last year and factory pay rolls were down by about 28 percent.

Other basic industries in which working forces were reduced, in contrast to a normal employment increase in March, were class I railroads, which laid off 11,700 men; bituminous-coal mines, which laid off 10,600 workers; and metal mines. Anthracite mines had fewer workers than in February, but their pay rolls were larger. Public utilities reported small seasonal reductions in employment, and wholesale firms cut their staffs by 1.4 percent, or about 20,800 workers. Brokerage houses again reduced the number of their employees. Retail stores and dyeing and cleaning firms reported increases in employment somewhat smaller than is usual for this time of the year, while in the other service industries there were small declines. Private building contractors, instead of taking on more men in March, reduced their forces by slightly less than 1 percent.

In the executive and judicial services of the Federal Government employment showed small increases over the preceding month, while decreases occurred in the legislative and military services. As employment in industry declined during the month of March, the number of persons engaged in most of the programs financed wholly or partially from Federal funds increased substantially. The most marked increases occurred on projects operated by the W. P. A. and on construction projects financed from regular Federal appropriations. There was a decrease in the number of workers in the Civilian Conservation Corps.

Industrial and Business Employment

Employment declines between February and March were shown by 12 of the 16 nonmanufacturing industries and by 53 of the 89 manufacturing industries covered. Decreased pay rolls were reported for 8 of the nonmanufacturing and 39 of the manufacturing industries.

For manufacturing as a whole there was a falling off in employment of 0.7 percent or 50,000 wage earners, and an increase of 0.1 percent or \$200,000 in weekly wages. The decline in number of workers was contraseasonal and the gain in wage disbursements was less than is usual for this time of year. The expected March gains are about 1 percent in employment and 2 percent in pay rolls. During the past 19 years for which data are available, employment increases have been shown in March for 16 years and pay-roll gains for 15 years.

As a result of continued declines since August, the Bureau's index of factory employment for March was 81.7 on the basis of 100 for the 3-year period 1923-25 and was 19.2 percent lower than a year ago. The index of factory pay rolls, at 73.3, was 27.5 percent below the level of March 1937.

The largest reductions in number of factory workers were reported by the following industries: Woolen and worsted goods (13,800 or 13.1 percent), automobiles (12,000 or 3.7 percent), electrical machinery, apparatus, and supplies (7,700 or 3.8 percent), foundries and machine shops (7,500 or 2.2 percent), blast furnaces, steel works, and rolling mills (6,900 or 2.0 percent), slaughtering and meat packing (4,700 or 4.1 percent), book and job printing (3,200 or 2.6 percent), and canning (3,100 or 4.7 percent).

Most of the increases in manufacturing employment were seasonal in character. The industries taking on the largest number of workers were sawmills (10,500 or 5.5 percent), shirts and collars (4,000 or 6.8 percent), cotton goods (3,100 or 0.8 percent), men's clothing (2,900 or 1.7 percent), women's clothing (2,700 or 1.4 percent), and boots and shoes (2,600 or 1.3 percent). Among other industries showing increases were cement (8.5 percent), millinery (6.0 percent), men's furnishings (5.2 percent), stamped and enameled ware (4.3 percent), stoves (3.6 percent), brick (2.0 percent), and knit goods (0.9 percent).

Four of the sixteen nonmanufacturing industries covered showed employment gains in March. In three of these industries, quarrying and nonmetallic mining, retail trade, and dyeing and cleaning, the increases were somewhat lower than seasonal. Insurance firms reported a gain of 0.2 percent in employment. The employment changes in the more important lines of retail trade were increases of 4.7 percent in wearing apparel, 1.4 percent in general merchandising, and 0.7 percent in lumber and building materials, and decreases of 0.4 percent in

food, 0.3 percent in furniture and household furnishings, and 0.8 percent in the automotive group.

Although gains were reported by wholesale dealers in dry goods and apparel, food, and building materials, there was a net decline of 1.4 percent for wholesale trade which represented an estimated loss of 20,800 in number of workers.

There were employment declines of 2.5 percent in bituminous-coal mining, 2.4 percent in metalliferous mining, 2.7 percent in brokerage, 1.2 percent in anthracite mining, 1.2 percent in telephone and telegraph offices, 1.0 percent in year-round hotels, and 1.0 percent in crude-petroleum producing. The decreases in the remaining three industries ranged from 0.4 percent to 0.9 percent.

According to a preliminary tabulation by the Interstate Commerce Commission, class I railroads employed 915,110 workers in March, exclusive of executives, officials, and staff assistants. This figure was 11,706 or 1.3 percent lower than the number reported for February. March pay rolls were not available when this report was prepared. Pay rolls for February amounted to \$130,886,631 as against \$142,328,575 for January, a decrease of 8.0 percent.

Hours and earnings.—Factory wage earners worked, on an average, 34.5 hours per week in March, a gain of 0.9 percent since February. Average hourly earnings fell 0.3 percent to 65.5 cents, while average weekly earnings climbed 0.9 percent to \$22.46.

Of the 14 nonmanufacturing industries for which man-hour data are available, 10 showed increases in average hours worked per week and 4 reported higher average hourly earnings. Higher average weekly earnings were reported by 9 of the 16 nonmanufacturing industries surveyed.

Previous to January 1938, the wording of the definition on the schedules for public utilities, wholesale and retail trade, hotels, and brokerage and insurance firms called for the inclusion of higher-salaried employees such as corporation officers, executives, and others whose duties are mainly supervisory. These employees have, for the most part, always been excluded from employment reports for other industries, and beginning with January it was requested that they be omitted also for the industries named above. For this reason, the average hours worked per week, average hourly earnings, and average weekly earnings for these industries are not comparable with the figures appearing in issues of this pamphlet dated earlier than January 1938.

Employment and pay-roll indexes and average weekly earnings in March 1938 for all manufacturing industries combined, for selected nonmanufacturing industries, and for class I railroads, with percentage changes over the month and year intervals except in the few industries for which data are not available, are presented in table 1.

TABLE 1.—Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, March 1938

Industry	Employment			Pay roll			Average weekly earnings		
	Index, March 1938	Percentage change from—		Index, March 1938	Percentage change from—		Average in March 1938	Percentage change from—	
		February 1938	March 1937		February 1938	March 1937		February 1938	March 1937
All manufacturing industries combined ¹	(1923-25=100) 81.7	-0.7	-19.2	(1923-25=100) 73.3	+0.1	-27.5	\$22.46	+0.9	-10.3
Class I steam railroads ²	51.9	-1.3	-15.7	(³)	(³)	(³)	(³)	(³)	(³)
Coal mining:	(1929=100)			(1929=100)					
Anthracite ⁴	59.3	-1.2	+5	47.3	+2.7	+15.2	26.01	+3.9	+14.6
Bituminous ⁴	93.1	-2.5	-12.2	68.5	-7.4	-33.8	19.57	-5.0	-24.6
Metalliferous mining.....	61.9	-2.4	-15.4	56.2	+4	-20.4	28.42	+2.9	-5.9
Quarrying and nonmetallic mining.....	38.8	+2.7	-20.9	30.2	+5.7	-26.9	19.80	+2.9	-7.6
Crude-petroleum producing.....	73.6	-9	-8	68.0	-2.3	+6.4	34.32	-1.5	+7.2
Public utilities:									
Telephone and telegraph.....	74.8	-1.2	-7	92.3	+3.1	+5.8	\$ 31.65	+4.3	+6.5
Electric light and power and manufactured gas.....	92.2	-6	-2	98.6	+1	+4.0	\$ 33.79	+7	+4.2
Electric-railroad and motor-bus operation and maintenance.....	70.8	-4	-2.6	69.9	-4	+1.0	\$ 32.29	0	+3.7
Trade:									
Wholesale.....	89.1	-1.4	-3.2	74.7	-8	-4	\$ 29.09	+6	+2.9
Retail.....	83.0	+7	-6.2	68.6	+3	-2.7	\$ 21.46	-4	+3.8
General merchandising.....	90.5	+2.0	-9.7	82.2	+9	-6.1	\$ 18.11	-1.0	+4.1
Other than general merchandising.....	81.0	+4	-5.1	65.8	(⁵)	-1.9	\$ 24.13	-3	+3.4
Hotels (year round) ⁴	93.4	-1.0	-1.1	81.0	-3.0	+2.9	\$ 14.88	-2.0	+4.1
Laundries ⁴	94.8	-9	-3.8	78.5	-7	-1.1	17.00	+2	+2.8
Dyeing and cleaning ⁴	98.2	+3.0	-5.8	67.8	+4.4	-5.6	19.27	+1.4	+3
Brokerage.....	(⁶)	-2.7	-17.7	(⁶)	-4.0	-21.6	\$ 35.15	-1.3	-4.8
Insurance.....	(⁶)	+2	+2.2	(⁶)	-3	-1.0	\$ 36.12	-5	-3.1
Building construction.....	(⁶)	-9	-22.3	(⁶)	+2	-17.8	28.44	+1.1	+5.9

¹ Revised indexes—adjusted to 1933 Census of Manufactures.

² Preliminary—source: Interstate Commerce Commission.

³ Not available.

⁴ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.

⁵ Average weekly earnings not strictly comparable with figures published in issues of this pamphlet dated earlier than January 1938, as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁶ Less than 1/10 of 1 percent.

⁷ Cash payments only; the additional value of board, room, and tips cannot be computed.

Public Employment

From mid-February to mid-March 94,000 men were at work on construction projects financed from funds provided by the Public Works Administration. Compared with the preceding month this was an increase of 2,000. Of the total number 23,000 were working on Federal and non-Federal projects financed from N. I. R. A. funds and 71,000 on projects financed from E. R. A. A. 1935, 1936, and 1937 funds. Pay rolls for the P. W. A. projects were \$6,988,000 for the month.

During the period ending in mid-March 157,000 employees were at work on construction projects financed from regular Federal appro-

priations, an increase of 8.0 percent compared with February. Increases in employment occurred on all types of projects with the exception of forestry, heavy engineering, and locks and dams. Monthly pay-roll disbursements for all types of projects exceeded \$15,167,000.

Projects financed by the Reconstruction Finance Corporation had 3,500 men working during the period from mid-February to mid-March. Increases in the number working were reported on water and sewerage and miscellaneous projects, and a decrease occurred on building construction projects. Pay-roll disbursements for the month exceeded \$496,000.

In March there was an increase of 14 percent in the number of employees working on projects of The Works Program exclusive of Student Aid, bringing the total to 2,701,000. Employment on projects operated by the Works Progress Administration reached the highest level (2,392,000) since December 1936. More than 154,000 were at work on Federal projects under The Works Program and 155,000 on work projects of the National Youth Administration. March data for Student Aid projects will not be available until next month. In February 319,000 were working on Student Aid projects. Exclusive of Student Aid, pay rolls for The Works Program in March totaled \$129,606,000.

Employment in the regular services of the Federal Government decreased in the legislative and military services, and increased in the executive and judicial services. Of the 815,000 employees in the executive service in March, 112,000 were working in the District of Columbia and 703,000 outside the District. Force-account employees (employees who are on the Federal pay roll and are engaged on construction projects) were 7 percent of the total number of employees in the executive service. The most marked increases in employment occurred in the Department of Agriculture, the War Department, and the Works Progress Administration. The Navy Department was among those reporting decreases.

In addition to employment in the regular services of the Federal Government, Government and Government-owned corporations with pay rolls for the 6-month period ending December 31, 1937, totaling \$20,800,000, employed 25,000 workers as of the last day of the period (see table 12). Employees of these agencies are not paid directly by and in some cases are not hired by the Federal Government. For a similar period employment in the executive service of the Federal Government was 891,000 and pay rolls totaled \$767,000,000.

Due to the end of an enlistment period the force of the Civilian Conservation Corps dropped to 315,000 in March, a decrease of 4 percent compared with February. All groups of workers with the

exception of nurses showed decreases in the number working. Of the total number in camps 272,000 were enrolled personnel, 5,000 reserve officers, 300 nurses, 1,500 educational advisers, and 36,000 supervisory and technical employees. Monthly pay rolls for all groups of workers totaled \$14,480,000.

Virtually the same number of employees (128,000) were working on the construction and maintenance of State roads in March as during the preceding month. Of the total number working on State roads, 91 percent were engaged on maintenance and repair of existing roads and 9 percent on new road construction. Pay-roll disbursements for both types of work amounted to \$8,500,000.

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

TABLE 2.—*Summary of Federal Employment and Pay Rolls, March 1938*¹

[Preliminary figures]

Class	Employment		Percent- age change	Pay rolls		Percent- age change
	March	February		March	February	
Federal services:						
Executive ²	815, 445	809, 580	+0.7	\$123, 765, 927	\$120, 832, 841	+2.4
Judicial.....	2, 172	2, 156	+7	520, 414	520, 473	(³)
Legislative.....	5, 140	5, 154	-3	1, 200, 002	1, 194, 905	+4
Military.....	331, 873	333, 624	-5	25, 122, 027	24, 996, 798	+5
Construction projects:						
Financed by F. W. A. ⁴	93, 703	91, 581	+2.3	6, 987, 705	7, 281, 549	-4.0
Financed by R. F. C. ⁵	3, 525	3, 481	+1.3	496, 349	513, 923	-3.4
Financed by regular Federal appropriations.....	156, 649	144, 776	+8.2	15, 167, 424	14, 016, 649	+8.2
Federal projects under The Works Program.....	154, 229	147, 182	+4.8	7, 227, 913	7, 325, 807	-1.3
Projects operated by W. P. A.....	2, 392, 347	2, 073, 759	+15.4	119, 626, 230	102, 096, 059	+17.2
National Youth Administration:						
Work projects.....	154, 567	151, 406	+2.1	2, 751, 797	2, 667, 226	+3.2
Student Aid.....	(⁶)	319, 142	-----	(⁷)	2, 157, 458	-----
Civilian Conservation Corps.....	315, 086	328, 044	-4.0	14, 479, 801	15, 062, 322	-3.9

¹ Includes data on projects financed wholly or partially from Federal funds.

² Includes force-account and supervisory and technical employees shown under other classifications to the extent of 98,832 employees and pay-roll disbursements of \$12,377,247 for March and 97,769 employees and pay-roll disbursements of \$11,868,278 for February.

³ Revised.

⁴ Less than 1/10 of 1 percent.

⁵ Data covering F. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds are included. These data are not shown under The Works Program. Includes 70,731 wage earners and \$4,980,926 pay roll for March; 67,949 wage earners and \$5,064,059 pay roll for February, covering F. W. A. projects financed from E. R. A. A. 1935, 1936, and 1937 funds.

⁶ Includes 100 employees and pay-roll disbursements of \$9,484 for March and 107 employees and pay-roll disbursements of \$12,984 for February on projects financed by the RFC Mortgage Co.

⁷ Not available.

The value of material orders placed on projects financed by the Public Works Administration, the Reconstruction Finance Corporation, and regular Federal appropriations, and on Federal projects under The Works Program during the first quarter of 1938 amounted to \$117,489,000. It is estimated that approximately 303,000 man-months of labor were created in the final fabrication of these materials. In the corresponding quarter of 1937 the value of material orders placed on these programs amounted to \$139,857,000 and 387,000 man-

months of labor were created in final fabrication. During the fourth quarter of 1937 material orders placed were valued at \$143,346,000 and 377,000 man-months of labor were created in final fabrication.

The value of material orders placed on the various programs financed by Federal funds during the first quarter of 1938, the fourth quarter of 1937, and the first quarter of 1937, and the man-months of employment created in the final fabrication of the materials used are shown in table 3. Data on the value of material orders placed and rentals and services for the first quarter of 1938 on projects operated by W. P. A. and on work projects of the National Youth Administration will be available at a later date.

TABLE 3.—Value of Material Orders Placed on Projects Financed Wholly or Partially From Federal Funds and Number of Man-Months of Labor Created ¹

[Subject to revision]

Program	Value of material orders placed			Man-months of labor created in final fabrication		
	First quarter of 1938	Fourth quarter of 1937	First quarter of 1937	First quarter of 1938	Fourth quarter of 1937	First quarter of 1937
Total.....	\$117, 670, 038	\$143, 345, 678	\$139, 856, 988	302, 946	377, 297	336, 742
Public Works Administration ²	41, 728, 099	50, 240, 810	74, 379, 314	118, 234	139, 643	214, 626
Reconstruction Finance Corporation ³	2, 590, 301	4, 688, 871	5, 487, 984	6, 097	10, 731	12, 560
Regular Federal appropriations ⁴	62, 827, 761	72, 156, 428	38, 163, 221	152, 364	184, 584	99, 024
Federal projects under The Works Program:						
Construction.....	10, 343, 751	16, 103, 046	21, 535, 585	25, 652	41, 851	59, 639
Professional, technical, and clerical.....	180, 126	156, 523	290, 884	599	488	893

¹ Data for the first quarter of 1938 are not available for projects operated by W. P. A., rentals and services on projects operated by W. P. A., and National Youth Administration projects.

² Data covering projects financed from F. R. A. A. 1935, 1936, and 1937 funds are included. These data are not shown under The Works Program.

³ Includes RFC Mortgage Co. Does not include projects for which contracts were awarded before March 15, 1934.

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



DETAILED REPORTS FOR MARCH 1938

Industrial and Business Employment

MONTHLY reports on employment and pay rolls are available for the following groups: 89 manufacturing industries; 16 nonmanufacturing industries, including private building construction; and class I steam railroads. The reports for the first two of these groups—manufacturing and nonmanufacturing—are based on sample surveys by the Bureau of Labor Statistics, and in virtually all industries the samples are large enough to be entirely representative. The figures on class I steam railroads are compiled by the Interstate Commerce Commission and are presented in the foregoing summary.

EMPLOYMENT, PAY ROLLS, HOURS, AND EARNINGS

The indexes of employment and pay rolls, average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in March 1938 are shown in table 4. Percentage changes from February 1938 and March 1937 are also given.

Indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings for January, February, and March 1938, are presented in table 5. The January and February figures may differ in some instances from those previously published because of revisions necessitated by the inclusion of late reports and other causes.

Average weekly earnings shown in tables 4 and 5 are computed by dividing the total weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As all reporting establishments do not supply man-hour data, average hours worked per week and average hourly earnings are necessarily based on data supplied by a smaller number of reporting firms. The size and composition of the reporting sample varies slightly from month to month and therefore the average hours per week, average hourly earnings, and average weekly earnings shown in tables 4 and 5 are not strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movements of earnings and hours over the period shown. The changes from the preceding month, expressed as percents, are based on identical lists of firms for the 2 months.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, March 1938*

MANUFACTURING

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

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index March 1938	Percentage change from—		Index March 1938	Percentage change from—		March 1938	Percentage change from—		March 1938	Percentage change from—		March 1938	Percentage change from—	
		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937
All manufacturing industries.....	81.7	-0.7	-19.2	73.3	+0.1	-27.5	\$22.46	+0.9	-10.3	34.5	+0.9	-15.9	Cents 65.5	-0.3	+6.8
Durable goods.....	72.4	-1.2	-24.9	68.8	+2	-36.2	24.06	+1.4	-15.0	33.6	+1.4	-20.9	72.4	-(4)	+8.0
Non-durable goods.....	91.7	-4	-13.6	85.3	+2	-16.9	20.92	+6	-3.8	35.3	+5	-10.8	59.3	-4	+7.1
Durable goods															
Iron and steel and their products, not including machinery.....	78.9	-1.4	-26.1	62.1	+1.3	-44.8	\$2.12	+2.7	-25.3	29.6	+2.5	-31.4	75.9	-1	+10.7
Blast furnaces, steel works, and rolling mills.....	87.0	-2.0	-25.7	65.5	+1.1	-48.5	22.28	+3.2	-30.6	27.1	+2.7	-37.4	82.6	0	+10.9
Bolts, nuts, washers, and rivets.....	61.7	-2.4	-31.6	52.7	-5	-51.3	19.34	+2.0	-28.8	27.3	+1.1	-37.8	70.7	+7	+14.3
Cast-iron pipe.....	55.6	+1.6	-19.5	39.0	+10.8	-29.7	18.80	+9.0	-12.3	31.9	+7.9	-23.4	57.9	+1.1	+14.0
Cutlery (not including silver and plated cutlery) and edge tools.....	75.3	-2.9	-15.7	63.1	-6	-24.9	20.96	+2.4	-11.0	35.2	+2.7	-18.3	61.6	+(2)	9.6
Forgings, iron and steel.....	46.5	-4.0	-36.0	34.4	+3	-52.3	22.59	+4.5	-25.4	30.7	+5.1	-30.9	73.8	-4	+8.3
Hardware.....	66.4	-1.7	-33.7	57.1	-5.0	-51.0	19.47	-3.3	-26.2	29.9	-1.0	-31.7	65.1	-2.3	+7.9
Plumbers' supplies.....	78.4	-9	-18.0	52.3	+1.6	-35.0	21.06	+2.6	-20.6	31.3	+2.1	-28.1	67.1	+3	+10.5
Steam and hot-water heating apparatus and steam fittings.....	56.7	+1.6	-28.8	42.7	+7	-45.7	21.76	-9	-23.6	30.5	-1.3	-32.4	79.0	+5	+11.6
Stoves.....	76.5	+3.6	-32.3	60.5	+6.7	-41.0	23.21	+3.1	-12.9	34.8	+1.1	-18.6	67.1	+1.6	+7.4
Structural and ornamental metalwork.....	59.7	-2.8	-19.5	54.6	-2.8	-24.4	25.63	0	-6.0	35.9	+6	-16.6	71.5	-5	+12.6
Tin cans and other tinware.....	87.0	+1.8	-13.2	92.3	+4.2	-11.5	23.54	+2.3	+2.0	37.8	+3.4	-7.0	62.7	-1.2	+10.3
Tools (not including edge tools, machine tools, files, and saws).....	79.3	-2	-22.2	76.3	+4.7	-31.2	22.36	+4.9	-11.7	36.0	+4.4	-20.4	61.8	+4	+10.2
Wirework.....	120.7	-2.5	-35.3	105.4	+3.9	-41.5	21.70	+6.5	-10.7	32.2	+5.6	-20.5	67.6	+9	+13.5
Machinery, not including transportation equipment.....	96.8	-2.9	-20.1	88.7	-3.4	-29.3	25.34	-5	-11.5	34.5	-6	-20.7	73.0	+(3)	+10.7
Agricultural implements.....	136.9	-5	+4.1	178.3	+1.4	+10.0	28.99	+1.9	+5.6	38.8	+1.6	-6.5	74.9	+3	+14.2
Cash registers, adding machines, and calculating machines.....	126.5	-9	-3.1	124.1	+5	-11.6	29.54	+1.4	-8.8	36.8	+1.2	-13.3	80.7	+3	+4.8

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, March 1938—Continued*

MANUFACTURING—Continued

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

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index March 1938	Percentage change from—		Index March 1938	Percentage change from—		March 1938	Percentage change from—		March 1938	Percentage change from—		March 1938	Percentage change from—	
		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937
<i>Durable goods—Continued</i>															
Machinery--Continued.															<i>Cents</i>
Electrical machinery, apparatus, and supplies	86.4	-3.8	-22.3	78.1	-4.3	-30.3	\$24.73	-0.5	-10.3	32.9	-1.0	-21.3	74.9	+0.4	+12.2
Engines, turbines, tractors, and water wheels	121.3	-2.6	-13.2	118.7	-1.1	-14.8	30.04	+1.5	-1.8	36.3	+1.9	-12.0	82.9	-1.6	+11.0
Foundry and machine-shop products	85.2	-2.2	-20.2	75.2	-3.0	-32.5	24.72	-1.8	-16.3	34.7	-1.6	-23.5	71.2	-1	+10.2
Machine tools	127.7	-4.5	-10.6	112.3	-6.7	-26.4	27.01	-2.2	-17.7	37.0	-2.7	-21.0	73.1	-1.4	+4.3
Radios and phonographs	86.0	-9.8	-47.2	60.7	-15.2	-52.2	18.78	-6.0	-9.4	30.7	-3.8	-15.0	61.6	-1.4	+8.0
Textile machinery and parts	63.5	-3.7	-25.2	50.1	-3.0	-44.1	21.76	+7	-25.3	32.7	+1.1	-27.5	66.6	-1.4	+3.2
Typewriters and parts	112.8	-1.2	-26.2	80.6	-8.0	-47.4	19.58	-6.9	-28.7	29.6	-7.5	-31.5	66.0	+1.6	+8.6
Transportation equipment	77.8	-3.5	-35.7	66.0	-1.5	-46.6	27.06	+2.0	-16.9	30.6	+2.1	-22.7	88.6	+1.2	+7.0
Aircraft	780.6	+1.6	-1.3	700.3	+2	-4	28.49	-3	+9	40.3	-4	-11.6	71.4	-(?)	+14.9
Automobiles	79.8	-3.7	-39.4	61.9	-7	-53.2	26.13	+3.1	-22.8	28.4	+2.7	-28.0	91.9	+1.4	+7.2
Cars, electric and steam-railroad	39.1	-7.4	-44.4	43.7	-8.7	-44.8	26.78	-1.4	-1.6	35.5	-1.2	-12.5	75.4	-2	+13.5
Locomotives	43.7	-8.9	-19.5	32.6	-11.9	-20.1	20.09	-3.3	-1.8	37.6	-2.1	-13.1	77.5	-1.3	+14.1
Shipbuilding	94.6	-7	-11.5	109.3	-1	-5.8	31.22	+5	+6.4	37.4	+2.2	-2.2	83.2	-7	+6.3
Railroad repair shops	44.4	-1.1	-28.6	45.5	-2	-30.9	29.63	+9	-3.1	40.9	+1.2	-7.4	71.9	-1.4	+4.3
Electric railroad	61.8	-4	-3.5	68.4	-2	+2.0	31.20	+3	+5.7	44.1	-4	-1.1	69.5	+2	+7.2
Steam railroad	43.1	-1.1	-30.6	43.9	-4	-33.4	29.30	+8	-4.0	40.6	+1.4	-8.1	72.2	-5	+1.2
Nonferrous metals and their products	87.1	-2	-23.7	74.2	+1.1	-33.6	22.97	+1.3	-13.0	34.2	+1.3	-19.8	67.2	+1	+9.0
Aluminum manufactures	100.5	-1.1	-19.1	100.5	+3.4	-23.0	24.77	+4.5	-4.7	35.7	+3.6	-15.7	69.3	+9	+13.1
Brass, bronze, and copper products	86.6	-1.8	-30.2	71.8	+2.2	-43.8	23.44	+3.1	-19.5	31.3	+2.2	-29.2	74.9	+7	+13.5
Clocks and watches and time-recording devices	98.8	-2.5	-19.1	83.6	-6.2	-30.5	19.41	-3.8	-14.2	32.0	-4.7	-24.5	60.6	+1.0	+13.8
Jewelry	84.8	+9	-4.2	60.4	-1.7	-12.8	21.85	-2.5	-9.0	37.0	+6	-8.0	59.5	-2.5	-2.1
Lighting equipment	67.0	-3.0	-35.4	54.5	-1.2	-50.1	21.03	+1.9	-22.7	31.1	+2.3	-27.2	67.6	-2	+6.1
Silverware and plated ware	71.5	+6	-3.1	59.6	+4.6	-12.3	22.68	+3.9	-9.5	36.1	+4.5	-11.2	63.1	-2	+2.4
Smelting and refining—copper, lead, and zinc	75.2	-2.1	-7.3	66.2	-4.3	-11.9	25.91	-2.3	-5.1	37.8	-2.3	-11.7	68.5	0	+7.5
Stamped and enameled ware	110.0	+4.3	-33.4	101.1	+8.8	-38.1	22.45	+4.3	-7.0	35.5	+4.3	-14.1	63.4	+1	+8.5

Lumber and allied products.....	55.8	+3.0	-20.1	48.7	+7.5	-24.6	19.35	+4.4	-5.7	37.3	+2.1	-13.3	52.7	+2.9	+8.8
Furniture.....	68.0	-2	-22.3	53.9	+1.0	-30.0	18.91	+1.2	-9.9	35.2	+9	-19.3	53.9	+6	+10.0
Lumber:															
Millwork.....	46.1	+4	-18.7	41.7	+4.2	-20.8	20.56	+3.8	-2.6	37.8	+2.8	-15.4	54.3	+1.0	+14.5
Sawmills.....	42.3	+5.5	-19.1	37.4	+13.2	-22.1	19.33	+7.3	-3.8	38.4	+2.5	-9.3	51.6	+5.1	+6.6
Stone, clay, and glass products.....	55.5	+9	-21.1	48.1	+3.2	-27.2	21.95	+2.4	-7.8	34.1	+2.8	-15.9	64.4	-7	+8.4
Brick, tile, and terra cotta.....	36.1	+2.0	-26.9	26.0	+2.0	-39.0	17.24	+1	-16.5	32.9	+2.0	-23.9	52.4	-1.9	+9.3
Cement.....	53.5	+8.5	-15.8	50.2	+12.3	-19.7	23.79	+3.6	-4.7	34.9	+3.8	-12.7	68.2	-2	+8.6
Glass.....	83.7	-2.1	-23.9	80.8	+8	-29.8	23.31	+3.0	-7.8	33.6	+3.8	-12.1	69.7	-6	+5.1
Marble, granite, slate, and other products.....	35.4	+2.4	-12.4	30.1	+4.2	-10.1	25.16	+1.8	+2.7	37.0	+2.2	-1.9	69.2	+4	+5.6
Pottery.....	70.7	+6	-12.9	59.8	+2.0	-19.1	22.31	+1.4	-7.2	34.8	+8	-20.2	64.5	-1	+16.1
<i>Nondurable goods</i>															
Textiles and their products.....	89.5	+3	-19.5	74.6	+1	-27.7	16.39	-1	-10.1	32.6	+8	-14.8	50.6	-1.1	+5.1
Fabrics:	81.0	-9	-22.0	68.4	-1.6	-29.8	15.68	-8	-10.1	32.8	+2	-15.5	48.2	-7	+6.4
Carpets and rugs.....	72.6	+1	-29.1	57.3	+4.9	-44.3	18.68	+4.8	-21.5	29.1	+6.8	-29.6	64.3	-1.9	+11.4
Cotton goods.....	86.5	+8	-17.7	72.7	+2.1	-28.3	13.16	+1.3	-12.9	31.8	+1.3	-13.0	41.2	-2	+6.5
Cotton small wares.....	80.3	-4	-26.1	77.4	+2.2	-29.2	17.89	+2.6	-4.2	37.4	+2.4	-8.8	48.1	+3	+4.6
Dyeing and finishing textiles.....	104.9	+1	-14.8	89.0	-7	-21.0	20.40	-8	-7.3	37.2	+2	-8.0	54.6	-1.1	+1.5
Hats, fur-felt.....	83.5	-3	-8.0	67.0	-7.8	-25.2	21.95	-7.5	-18.6	29.2	-13.4	-26.1	73.3	+2.0	+6.4
Knit goods.....	104.5	+9	-15.5	106.9	+2.8	-15.8	17.82	+1.8	-4	34.5	+1.9	-11.1	52.6	-3	+12.0
Silk and rayon goods.....	60.3	+1.4	-27.1	47.0	+3.0	-33.5	15.32	+1.5	-8.9	34.3	+2.2	-11.1	44.5	-3	+2.9
Woolen and worsted goods.....	52.0	-13.1	-42.4	39.4	-21.7	-50.1	17.41	-9.8	-13.4	29.8	-9.5	-20.6	58.3	-4	+9.0
Wearing apparel:	106.9	+2.6	-14.8	83.8	+2.9	-24.1	18.12	+4	-10.9	32.3	+2.0	-13.3	54.9	-1.8	+1.9
Clothing, men's.....	97.5	+1.7	-16.1	75.7	+2.2	-28.4	18.24	+4	-14.7	30.0	+2.1	-21.2	59.6	-2.1	+4.1
Clothing, women's.....	146.1	+1.4	-14.0	109.6	+1.2	-20.6	20.86	-2	-7.7	33.4	+1.3	-6.1	57.5	-2.0	+7
Corsets and allied garments.....	87.2	+8	-6.3	88.7	+5.7	-9.6	16.95	+4.9	-3.2	36.7	+2.9	-6.7	46.0	+1.5	+4.5
Men's furnishings.....	121.1	+5.2	-17.9	93.8	+6.2	-23.8	13.44	+1.0	-6.9	34.6	+8.0	-14.4	35.9	-4.5	+6.9
Millinery.....	59.2	-6.0	-11.5	50.8	+16.6	-21.5	25.46	+10.0	-11.5	38.5	+4.9	-6.4	68.1	+5.4	-9.1
Shirts and collars.....	110.3	+6.8	-15.2	90.7	+8.0	-25.9	12.23	+1.2	-12.4	32.0	+2	-14.6	38.9	-9	+3.8
Leather and its manufactures.....	90.1	+8	-10.6	72.7	-7	-21.3	18.90	-1.5	-12.0	35.4	-1.8	-13.0	52.3	-6	+7
Boots and shoes.....	94.9	+1.3	-7.6	71.9	-1	-19.2	18.04	-1.4	-12.7	35.2	-1.8	-13.0	50.0	-7	-5
Leather.....	76.4	-1.5	-22.7	78.2	-2.5	-27.1	22.91	-1.0	-5.7	36.1	-1.4	-12.5	63.8	+5	+7.6
Food and kindred products.....	100.4	-1.3	-5.0	103.5	-8	-6	24.80	+5	+4.7	40.1	+1	-3.9	62.1	+6	+8.4
Baking.....	129.8	-2	-2.0	126.5	+3	+1.9	25.48	+4	+4.9	42.1	+1	-3	60.9	+5	+5.1
Beverages.....	194.3	+2.3	+9	217.3	+3.9	+3.0	32.63	+1.5	+2.1	38.9	+7	-3.5	84.5	+8	+5.2
Butter.....	81.5	+1.0	-9	66.1	-4	+2.7	22.27	-1.4	+3.6	46.2	-6	-3.7	48.5	-7	+7.8
Canning and preserving.....	75.7	-4.7	-15.5	74.5	-4.5	-16.8	16.32	+2	-1.6	34.5	+2	-12.0	48.9	+3	+11.8
Confectionery.....	74.5	-1.7	-5.4	72.8	-1.8	-4.5	17.80	-2	+1.0	37.1	+1	-5.8	48.0	-3	+7.9
Flour.....	73.2	-6	-1.4	72.3	-1.1	+2.7	25.67	-5	+4.2	42.9	-4	-2.9	58.9	+2	+7.0
Ice cream.....	63.4	+2.3	-1.7	60.9	+4.0	+2.4	29.20	+1.6	+1.3	46.3	+9	+1.4	61.7	+9	+4.2
Slaughtering and meat packing.....	84.3	-4.1	-7.0	92.0	-1.1	+5	27.26	0	+8.0	39.4	-6	-3.4	69.3	+8	+13.0
Sugar, beet.....	34.0	+10.0	-12.5	42.4	+2.9	-5.5	29.36	-6.4	+8.1	41.3	-7	+1.4	74.4	+6	+7.9
Sugar refining, cane.....	68.4	-4.1	-10.2	60.2	-6.2	-25.4	22.06	-2.2	-16.9	36.7	-2.9	-25.2	61.9	+7	+8.1
Tobacco manufactures.....	59.3	+9	-2.5	50.8	+3.7	-3.4	15.89	+2.8	-1.0	34.1	+2.9	-7.6	46.4	+1	+7.6
Chewing and smoking tobacco and snuff.....	56.5	-3.8	-8	65.3	-4.2	-3	17.31	-5	+4	34.5	-2.6	-7.4	50.5	+2.3	+8.8
Cigars and cigarettes.....	59.6	+1.5	-2.7	48.8	+5.1	-3.8	15.60	+3.6	-1.0	34.1	+3.7	-7.6	45.9	-1	-2.7
Paper and printing.....	100.3	-8	-6.3	96.6	+2	-7.2	27.71	+9	-9	37.5	+3	-8.7	76.4	+7	+7.6
Boxes, paper.....	90.8	+1.1	-12.5	89.4	+2.0	-16.2	20.37	+9	-4.3	37.5	+7	-14.1	54.7	+2	+11.0

See footnotes at end of table.

TABLE 4.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, March 1938—Continued*

MANUFACTURING—Continued

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

	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
Industry	Index March 1938	Percentage change from—		Index March 1938	Percentage change from—		March 1938	Percentage change from—		March 1938	Percentage change from—		March 1938	Percentage change from—	
		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937		Febru- ary 1938	March 1937
Nondurable goods—Continued															
Paper and printing—Continued.															
Paper and pulp.....	108.1	-0.6	-8.1	103.4	+0.4	-11.2	\$23.73	+1.0	-3.4	38.2	+1.3	-11.4	Cents 62.2	-0.3	+9.2
Printing and publishing:															
Book and job.....	92.8	-2.6	-5.3	87.6	-1.7	-7.1	29.93	+ .9	-1.9	37.8	- .8	-6.8	80.3	+2.1	+5.4
Newspapers and periodicals.....	103.4	+ .2	-2.1	101.8	+1.2	-1.4	36.90	+1.0	+ .6	36.7	+ .2	-4.1	96.8	+ .4	+5.3
Chemicals and allied products, and petroleum refining															
Other than petroleum refining.....	113.1	0	-9.4	119.7	+ .4	-6.6	27.40	+ .4	+3.1	37.5	+ .9	-8.9	73.7	- .8	+10.3
Chemicals.....	111.9	+1.1	-11.2	114.6	+ .9	-11.0	24.35	+ .8	+ .2	38.0	+1.3	-8.7	65.4	-1.0	+8.9
Cottonseed—oil, cake, and meal.....	110.5	-4.1	-17.5	117.6	-4.1	-16.1	29.47	- .1	+1.6	37.3	-(2)	-8.7	79.0	- .1	+11.3
Druggists' preparations.....	87.1	-13.1	+26.7	77.5	-14.0	+32.3	12.67	-1.1	+4.5	50.1	-5.0	-1.0	25.4	+3.7	+4.7
Explosives.....	104.7	-1.2	-6.6	115.3	- .5	-4.0	24.01	+ .7	+1.8	38.0	-1.7	-5.9	59.9	+1.5	+7.1
Fertilizers.....	87.2	- .2	-3.3	90.9	-1.6	-6.8	29.13	-1.4	-3.5	36.2	-2.7	-11.7	80.5	+1.4	+9.3
Paints and varnishes.....	116.7	+24.4	-14.2	110.7	+25.5	-13.3	15.70	+ .9	+ .9	41.3	+7.6	-6.3	38.2	-6.0	-8.7
Rayon and allied products.....	117.3	+1.2	-12.8	113.3	+2.0	-14.8	26.70	+1.4	+2.2	38.3	+1.8	-10.0	69.7	- .4	+8.4
Soap.....	334.6	+1.7	-10.4	301.3	+6.3	-13.8	22.22	+4.6	-3.9	34.2	+5.6	-13.3	64.9	+1.0	+11.3
Petroleum refining.....	96.0	- .3	-13.5	111.8	+ .5	-9.3	28.65	+ .8	+4.6	39.0	+ .7	-5.5	74.4	+(2)	+10.9
Rubber products.....	117.7	- .4	-2.3	136.0	- .8	-9.3	34.88	- .4	+10.9	36.2	- .2	- .1	97.0	- .3	+10.6
Rubber boots and shoes.....	72.8	-2.2	-24.7	60.8	+2.7	-39.1	21.83	+4.9	-19.1	29.7	+5.1	-22.0	76.1	- .8	+4.3
Rubber goods, other than boots, shoes, tires, and inner tubes.....	54.7	-2.0	-31.8	40.3	+1.4	-44.1	18.47	+3.4	-18.0	30.6	+3.7	-22.7	60.3	- .3	+7.1
Rubber tires and inner tubes.....	107.9	- .9	-25.2	98.3	+1.2	-32.7	20.88	+2.2	-10.0	34.8	+1.9	-16.2	59.6	- .8	+4.7
	63.4	-3.3	-21.9	52.7	+4.2	-41.6	23.71	+7.7	-25.3	25.5	+8.6	-26.4	93.0	- .5	+2.2

See footnote at end of table.

NONMANUFACTURING

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

Coal mining:															
Anthracite ¹	59.3	-1.2	+0.5	47.3	+2.7	+15.2	\$26.01	+3.9	+14.6	28.0	+5.6	-1.6	92.2	-1.0	+17.0
Bituminous ²	93.1	-2.5	-12.2	68.5	-7.4	-33.8	19.57	-5.0	-24.6	22.4	-5.4	-33.9	86.8	-.2	+10.9
Metalliferous mining.....	61.9	-2.4	-15.4	56.2	-.4	-20.4	28.42	+2.9	-5.9	42.2	+3.0	-4.8	67.3	-(³)	-1.1
Quarrying and nonmetallic mining.....	38.8	+2.7	-20.9	30.2	+5.7	-26.9	19.80	+2.9	-7.6	36.5	+3.3	-14.3	54.0	-.4	+7.3
Crude-petroleum producing.....	73.6	-.9	-.8	68.0	-2.3	+6.4	34.32	+1.5	+7.2	40.2	+.5	+.9	84.0	-1.5	+6.7
Public utilities:															
Telephone and telegraph ⁴	74.8	-1.2	-.7	92.3	+3.1	+6.1	31.65	+4.3	+6.5	39.0	+2.5	-.9	85.7	+1.4	+6.9
Electric light and power and manufactured gas ⁴	92.2	-.6	-.2	98.6	+1	+4.0	33.79	+.7	+4.2	40.3	+1.1	-2.2	84.1	-.6	+7.2
Electric-railroad and motorbus operation and maintenance ⁴	70.8	-.4	-2.6	69.9	-.4	+1.0	32.29	0	+3.7	45.3	-.4	-2.7	70.5	+1	+7.3
Trade:															
Wholesale ⁴	89.1	-1.4	-3.2	74.7	-.8	-.4	29.09	+.6	+2.9	42.4	+.3	-2.7	68.3	-.1	+4.9
Retail ⁴	83.0	+.7	-6.2	68.6	+.3	-2.7	21.46	-.4	+3.8	42.8	-.4	-1.5	54.5	-.2	+6.0
General merchandising ⁴	90.5	+2.0	-9.7	82.2	+.9	-6.1	18.11	-1.0	+4.1	39.1	-.8	-1.4	48.7	+2	+4.6
Other than general merchandising ⁴	81.0	+.4	-5.1	65.8	+(²)	-1.9	24.13	-.3	+3.4	43.8	-.3	-1.0	50.2	-.2	+6.1
Hotels (year-round) ^{3 4 5}	93.4	-1.0	-1.1	81.0	-3.0	+2.9	14.88	-2.0	+4.1	47.4	-.4	-3.8	31.0	-1.7	+6.1
Laundries ³	94.8	-.9	-3.8	78.5	-.7	-1.1	17.00	+.2	+2.8	41.9	+.1	-3.0	40.8	+.4	+6.4
Dyeing and cleaning ³	98.2	+3.0	-5.8	67.8	+4.4	-5.6	19.27	+1.4	+.3	40.3	+1.0	-7.4	48.0	-.3	+6.9
Brokerage ⁴	(⁶)	-2.7	-17.7	(⁶)	-4.0	-21.6	35.15	-1.3	-4.8	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Insurance ⁴	(⁶)	+.2	+2.2	(⁶)	-.3	-1.0	36.12	-.5	-3.1	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Building construction.....	(⁶)	-.9	-22.3	(⁶)	+.2	-17.8	28.44	+1.1	+5.9	30.7	+.8	-4.1	92.1	+.3	+10.9

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 Less than 1/10 of 1 percent.

³ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.

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

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

⁶ Not available.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, March, February, and January 1938*

MANUFACTURING

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

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	March 1938	February 1938	January 1938	March 1938	February 1938	January 1938	March 1938	February 1938	January 1938	March 1938	February 1938	January 1938	March 1938	February 1938	January 1938
All manufacturing industries.....	81.7	82.3	82.2	73.3	73.2	71.7	\$22.46	\$22.30	\$21.89	34.5	34.3	33.2	Cents 65.5	Cents 65.6	Cents 66.3
Durable goods.....	72.4	73.3	75.1	63.8	63.7	63.9	24.06	23.80	23.28	33.6	33.2	32.3	72.4	72.4	72.7
Nondurable goods.....	91.7	92.1	89.9	85.3	85.1	81.6	20.92	20.88	20.49	35.3	35.3	34.0	59.3	59.4	60.2
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	78.9	80.0	81.1	62.1	61.3	59.1	22.12	21.54	20.42	29.6	28.9	27.7	75.9	76.0	75.5
Blast furnaces, steel works, and rolling mills.....	87.0	88.7	90.5	65.5	64.7	61.7	22.28	21.60	20.17	27.1	26.4	24.9	82.6	82.6	81.8
Bolts, nuts, washers, and rivets.....	61.7	63.3	63.2	52.7	53.0	49.1	19.34	18.94	17.62	27.3	27.0	25.3	70.7	70.2	69.7
Cast-iron pipe.....	55.6	54.7	55.5	39.0	35.2	36.0	18.80	17.24	17.37	31.9	29.5	29.3	57.9	57.3	58.5
Cutlery (not including silver and plated cutlery) and edge tools.....	75.3	77.6	77.5	63.1	63.5	62.8	20.96	20.38	20.27	35.2	34.2	33.6	61.6	61.5	62.5
Forgings, iron and steel.....	46.5	48.4	52.3	34.4	34.3	36.3	22.59	21.58	21.22	30.7	29.2	28.6	73.8	74.2	74.7
Hardware.....	66.4	67.6	70.8	57.1	60.1	56.3	19.47	20.07	17.94	29.9	30.1	27.4	65.1	66.6	65.1
Plumbers' supplies.....	78.4	79.2	78.3	52.3	51.5	53.1	21.06	20.61	21.45	31.3	30.8	32.3	67.1	67.0	66.5
Steam- and hot-water heating apparatus and steam fittings.....	56.7	55.9	56.6	42.7	42.4	43.4	21.76	21.94	22.21	30.5	30.9	31.1	70.9	70.6	70.9
Stoves.....	76.5	73.9	63.8	60.5	56.6	43.9	23.21	22.56	20.21	34.8	34.5	31.8	67.1	66.5	65.0
Structural and ornamental metalwork.....	59.7	61.4	63.8	54.6	56.2	58.5	25.63	25.74	25.74	35.9	35.8	35.8	71.5	72.0	72.1
Tin cans and other tinware.....	87.0	85.5	85.7	92.3	88.6	88.1	23.54	22.89	22.93	37.8	36.6	36.7	62.7	63.1	63.2
Tools (not including edge tools, machine tools, files, and saws).....	79.3	79.5	81.5	76.3	72.9	75.9	22.36	21.32	21.60	36.0	34.4	34.7	61.8	61.4	62.0
Wirework.....	120.7	123.8	132.7	105.4	101.5	107.8	21.70	20.38	20.17	32.2	30.4	30.2	67.6	67.1	66.8
Machinery, not including transportation equipment.....	96.8	99.7	104.0	88.7	91.8	95.9	25.34	25.48	25.61	34.5	34.6	34.5	73.0	73.0	73.2
Agricultural implements.....	136.9	137.6	138.4	178.3	175.9	172.1	28.99	28.46	27.73	38.8	38.2	37.1	74.9	74.6	74.8
Cash registers, adding machines, and calculating machines.....	126.5	127.6	126.8	124.1	123.4	128.5	29.54	29.30	30.71	36.8	36.3	37.8	80.7	81.1	81.6
Electrical machinery, apparatus, and supplies.....	86.4	89.9	95.9	78.1	81.7	88.1	24.73	24.88	25.17	32.9	33.3	33.5	74.9	74.5	74.9
Engines, turbines, tractors, and water wheels.....	121.3	124.5	130.4	118.7	120.0	128.2	30.04	29.59	30.15	36.3	35.7	36.3	82.9	83.4	83.2
Foundry and machine-shop products.....	85.2	87.1	90.3	75.2	77.6	79.9	24.72	24.85	24.70	34.7	34.8	34.4	71.2	71.2	71.4
Machine tools.....	127.7	133.7	139.2	112.3	120.4	131.5	27.01	27.64	29.01	37.0	38.0	39.7	73.1	72.8	73.2
Radios and phonographs.....	86.0	95.4	97.1	60.7	71.6	76.2	18.78	19.99	20.81	30.7	31.7	32.7	61.6	62.8	63.8

Textile machinery and parts.....	63.5	65.9	68.6	50.1	51.6	53.4	21.76	21.61	21.27	32.7	32.4	32.8	66.6	66.9	65.0
Typewriters and parts.....	112.8	114.1	117.7	80.6	87.6	76.8	19.58	20.50	17.41	29.6	31.2	27.1	66.0	65.6	64.1
Transportation equipment.....	77.8	80.6	84.3	68.0	67.0	68.6	27.08	26.86	26.23	30.6	30.4	29.7	88.6	88.6	88.7
Aircraft.....	780.6	776.2	771.5	700.3	698.9	674.9	28.49	28.64	27.79	40.3	40.4	39.4	71.4	71.6	71.3
Automobiles.....	79.8	82.8	86.8	61.9	62.3	63.8	26.13	25.85	25.15	28.4	28.2	27.4	91.9	91.7	91.9
Cars, electric- and steam-railroad.....	39.1	42.2	44.5	43.7	47.9	48.9	20.78	27.25	26.41	35.5	36.1	35.4	75.4	75.6	74.6
Locomotives.....	43.7	47.9	52.2	32.6	37.0	37.7	29.09	29.63	28.11	37.6	38.3	36.4	77.5	77.3	77.2
Shipbuilding.....	94.6	95.2	99.2	109.3	109.5	114.2	31.22	31.15	31.21	37.1	36.2	36.4	83.2	84.3	84.2
Railroad repair shops.....	44.4	44.9	47.6	45.5	45.6	47.3	29.63	29.44	28.87	40.9	40.3	39.4	71.9	72.3	72.8
Electric railroad.....	61.8	62.1	63.1	68.4	68.5	68.4	31.20	31.19	30.61	44.1	44.1	43.5	69.5	69.6	69.4
Steam railroad.....	43.1	43.6	46.4	43.9	44.0	45.9	29.30	29.07	28.52	40.6	39.9	39.0	72.2	72.6	73.1
Nonferrous metals and their products.....	87.4	87.8	88.1	74.2	73.4	73.2	22.97	22.64	22.49	34.2	33.8	33.1	67.2	67.0	67.6
Aluminum manufactures.....	100.5	101.6	103.9	100.5	97.2	96.9	24.77	23.69	23.11	35.7	34.6	33.5	69.3	68.5	69.1
Brass, bronze, and copper products.....	86.6	87.3	89.1	71.8	70.2	71.4	23.44	22.77	22.73	31.3	30.6	30.8	74.9	74.3	73.8
Clocks and watches and time-recording devices.....	98.8	101.3	97.2	83.6	89.1	86.7	19.41	20.19	20.48	32.0	33.6	33.8	60.6	60.0	60.5
Jewelry.....	84.8	84.1	82.2	60.4	61.4	60.5	21.85	22.26	22.52	37.0	36.9	36.3	59.5	60.3	61.9
Lighting equipment.....	67.0	69.1	69.2	54.5	55.2	52.7	21.03	20.61	19.54	31.1	30.5	28.8	67.6	67.5	67.9
Silverware and plated ware.....	71.5	71.1	69.3	59.6	57.0	54.0	22.68	21.80	21.11	36.1	34.6	33.2	63.1	63.2	63.6
Smelting and refining—copper, lead, and zinc.....	75.2	76.8	81.1	66.2	69.2	74.0	25.91	26.52	26.92	37.8	38.7	39.1	68.5	68.5	68.9
Stamped and enameled ware.....	110.0	105.5	105.2	101.1	92.9	88.6	22.45	21.54	20.64	35.5	34.2	31.8	63.4	63.0	64.6
Lumber and allied products.....	55.8	54.2	53.7	48.7	45.3	42.5	19.35	18.69	17.68	37.3	36.5	34.6	52.7	51.5	51.6
Furniture.....	68.0	68.2	68.5	53.9	53.3	49.3	18.91	18.56	17.16	35.2	34.8	31.7	53.9	53.4	53.9
Lumber:															
Millwork.....	46.1	45.9	43.9	41.7	40.0	36.5	20.56	19.89	18.98	37.8	36.9	34.1	54.3	53.8	55.6
Sawmills.....	42.3	40.1	39.7	37.4	33.0	31.5	19.33	18.40	17.70	38.4	37.5	36.5	51.6	49.7	49.3
Stone, clay, and glass products.....	55.5	55.0	55.1	48.1	46.6	43.6	21.95	21.47	20.03	34.1	33.1	31.2	64.4	64.9	65.0
Brick, tile, and terra cotta.....	36.1	35.4	35.3	26.0	25.5	24.3	17.24	17.26	16.53	32.9	32.1	31.2	52.4	53.5	54.1
Cement.....	53.5	49.3	50.2	50.2	44.7	44.4	23.79	22.99	22.45	34.9	33.7	32.8	68.2	68.3	68.4
Glass.....	83.7	85.6	87.8	80.8	80.1	77.1	23.31	22.56	21.10	33.6	32.4	30.1	69.7	69.9	70.5
Marble, granite, slate, and other products.....	35.4	34.6	31.5	30.1	28.9	23.7	25.16	24.91	22.13	37.0	36.0	32.8	69.2	69.7	67.8
Pottery.....	70.7	70.2	69.6	59.8	58.6	51.0	22.31	21.94	19.27	34.8	34.4	31.8	64.5	64.6	63.8
<i>Nondurable goods</i>															
Textiles and their products.....	89.5	89.2	84.7	74.6	74.5	65.5	16.39	16.41	15.34	32.6	32.4	30.2	50.6	51.0	51.0
Fabrics.....	81.0	81.7	80.7	68.4	69.5	65.0	15.68	15.82	15.08	32.8	32.8	30.8	48.2	48.5	49.0
Carpets and rugs.....	72.6	72.5	66.9	57.3	54.6	45.6	18.68	17.92	16.24	29.1	27.3	24.6	64.3	65.6	65.9
Cotton goods.....	86.5	85.8	86.6	72.7	71.2	70.3	13.16	12.99	12.73	31.8	31.4	30.2	41.2	41.3	42.0
Cotton small wares.....	80.3	80.6	78.8	77.4	75.8	67.9	17.89	17.44	15.96	37.4	36.4	33.1	48.1	48.1	48.7
Dyeing and finishing textiles.....	104.9	104.9	103.6	89.0	89.6	84.0	20.40	20.63	19.57	37.2	37.3	34.3	54.6	55.1	56.6
Hats, fur-felt.....	83.5	83.7	82.7	67.0	72.6	65.2	21.95	23.58	21.40	29.2	33.6	31.2	73.3	71.9	72.0
Knit goods.....	104.5	103.5	99.2	106.9	104.0	90.6	17.82	17.40	15.86	34.5	33.8	31.0	52.6	52.7	52.3
Silk and rayon goods.....	60.3	59.4	57.8	47.0	45.7	40.4	15.32	14.87	13.55	34.3	33.3	29.5	44.5	44.2	45.5
Woolen and worsted goods.....	52.0	59.8	59.1	39.4	50.3	48.9	17.41	19.32	18.97	29.8	33.0	32.0	58.3	58.6	59.4
Wearing apparel.....	106.9	104.2	91.7	83.8	81.4	63.8	18.12	17.94	16.09	32.3	31.8	28.9	54.9	55.7	55.3
Clothing, men's.....	97.5	95.9	83.5	75.7	74.1	58.4	18.24	18.19	16.44	30.0	29.4	26.7	50.6	60.6	61.8
Clothing, women's.....	146.1	144.0	128.3	109.6	108.3	82.8	20.72	20.72	17.87	33.4	33.2	29.8	57.5	58.6	56.0
Corsets and allied garments.....	87.2	86.6	84.6	88.7	84.0	74.5	16.95	15.99	14.64	36.7	35.6	31.7	46.0	45.2	46.5
Men's furnishings.....	121.1	115.2	97.6	93.8	88.3	66.5	13.44	13.41	12.05	34.6	32.1	29.2	35.9	37.6	37.8
Millinery.....	59.2	55.8	50.1	50.8	43.6	34.4	25.46	22.53	20.02						
Shirts and collars.....	110.3	103.3	89.0	90.7	84.0	70.5	12.23	12.14	11.82	32.0	32.0	30.4	38.9	39.7	41.3

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, March, February, and January 1938—Continued*

MANUFACTURING—Continued

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

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	March 1938	February 1938	January 1938	March 1938	February 1938	January 1938	March 1938	February 1938	January 1938	March 1938	February 1938	January 1938	March 1938	February 1938	January 1938
<i>Nondurable goods—Continued</i>															
Leather and its manufactures.....	90.1	88.4	85.8	72.7	73.2	65.6	\$18.90	\$19.09	\$17.96	35.4	36.0	33.4	<i>Cents</i> 52.3	<i>Cents</i> 52.6	<i>Cents</i> 53.6
Boots and shoes.....	94.9	93.7	89.3	71.9	71.9	63.1	18.04	18.21	16.94	35.2	35.9	32.9	50.0	50.3	51.4
Leather.....	76.4	77.6	76.6	78.2	80.2	76.9	22.91	23.11	22.43	36.1	36.6	35.4	63.8	63.4	63.8
Food and kindred products.....	100.4	101.7	102.9	103.5	104.3	106.5	24.80	24.74	25.24	40.1	40.7	40.4	62.1	60.9	61.8
Baking.....	129.8	130.1	129.9	126.5	126.1	125.2	25.48	25.30	25.26	42.1	43.6	41.6	60.9	58.4	61.3
Beverages.....	194.3	189.9	186.2	217.3	209.3	199.8	32.63	32.26	31.38	38.9	38.6	37.7	84.5	84.1	84.0
Butter.....	81.5	80.7	80.5	66.1	66.4	65.7	22.27	22.83	22.54						
Canning and preserving.....	75.7	79.4	82.1	74.5	78.0	79.6	16.32	16.30	16.11	34.5	34.4	34.5	48.9	48.8	48.0
Confectionery.....	74.5	75.8	76.4	72.8	74.1	73.8	17.80	17.67	17.58	37.1	37.0	36.8	48.0	47.7	48.0
Flour.....	73.2	73.6	73.7	72.3	73.1	73.3	25.67	25.87	25.86	42.9	43.1	43.4	58.9	58.9	58.6
Ice cream.....	63.4	62.0	61.7	60.9	58.5	58.6	29.20	28.89	29.39	46.3	45.5	45.4	61.7	61.9	62.7
Slaughtering and meat packing.....	84.3	88.0	92.8	92.0	95.9	108.3	27.26	27.32	29.30	39.4	39.7	42.7	69.3	68.9	68.8
Sugar, beet.....	34.0	30.9	33.3	42.4	41.2	40.1	29.36	31.38	28.38	41.3	42.0	38.9	74.4	75.6	75.9
Sugar refining, cane.....	68.4	71.3	65.6	60.2	64.1	58.9	22.66	23.75	23.72	36.7	38.4	38.1	61.9	61.9	59.6
Tobacco manufactures.....	59.3	58.8	51.9	50.6	48.8	44.6	15.89	15.92	15.85	34.1	33.1	33.3	46.4	46.0	47.6
Chewing and smoking tobacco and snuff.....	56.5	58.8	57.2	65.3	68.2	66.6	17.31	17.27	17.31	34.5	35.4	34.7	50.5	49.1	50.3
Cigars and cigarettes.....	59.6	58.7	51.1	48.8	46.4	41.9	15.60	14.89	15.48	34.1	32.8	33.1	45.9	45.5	47.2
Paper and printing.....	100.3	101.1	101.0	98.6	96.4	95.4	27.71	27.40	26.90	37.5	37.4	36.7	76.4	75.9	76.3
Boxes, paper.....	90.8	89.8	89.3	89.4	87.6	83.1	20.37	20.16	19.18	37.5	36.9	35.2	54.7	55.1	54.9
Paper and pulp.....	108.1	108.7	108.1	103.4	102.9	97.7	23.73	23.51	22.36	38.2	37.7	35.7	62.2	62.4	62.7
Printing and publishing:															
Book and job.....	92.8	95.2	95.8	87.6	89.1	91.0	29.93	29.59	29.95	37.8	38.0	38.4	80.3	78.5	79.3
Newspapers and periodicals.....	103.4	103.2	103.0	101.8	100.6	100.7	36.90	36.63	36.76	36.7	36.6	36.7	96.8	96.6	97.0
Chemicals and allied products, and petroleum refining.....	113.1	113.1	112.7	119.7	119.2	117.5	27.40	27.51	27.20	37.5	37.3	36.7	73.7	74.2	75.0
Other than petroleum refining.....	111.9	111.8	111.0	114.6	113.6	112.2	24.35	24.17	24.19	38.0	37.6	37.2	65.4	65.9	66.7
Chemicals.....	110.5	115.2	118.1	117.6	122.0	124.3	29.47	29.45	29.18	37.3	37.3	36.8	79.0	79.0	79.3
Cottonseed—oil, cake, and meal.....	87.1	100.2	104.4	77.5	96.2	96.8	12.67	12.89	13.18	50.1	53.6	53.2	25.4	24.1	25.0
Druggists' preparations.....	104.7	106.0	105.9	115.3	115.9	118.4	24.01	23.79	24.37	38.0	38.7	38.9	59.9	59.1	60.7
Explosives.....	87.2	87.4	90.2	90.9	92.4	82.3	29.13	36.25	26.11	36.2	37.5	33.0	80.5	80.7	79.0
Fertilizers.....	116.7	93.8	83.0	110.7	88.2	79.8	15.70	15.62	15.99	41.3	38.5	37.6	38.2	40.6	42.5
Paints and varnishes.....	117.3	116.0	116.3	113.3	110.5	106.4	26.70	26.26	25.16	38.3	37.6	35.9	69.7	69.7	70.1

Rayon and allied products.....	334.6	329.2	315.2	301.3	283.4	275.5	22.22	21.20	21.58	34.2	32.6	32.9	64.9	65.3	65.7
Soap.....	96.0	96.3	94.0	111.8	111.2	109.2	28.65	28.58	28.65	39.0	38.6	38.4	74.4	74.3	74.8
Petroleum refining.....	117.7	118.2	119.3	136.0	137.1	134.7	34.88	35.23	34.28	36.2	36.4	35.3	97.0	97.0	97.8
Rubber products.....	72.8	74.4	78.4	60.8	59.2	66.1	21.83	21.07	22.42	29.7	28.3	29.1	76.1	77.3	78.9
Rubber boots and shoes.....	54.7	55.8	59.2	40.3	39.8	44.3	18.47	17.86	18.76	30.6	29.5	30.7	60.3	60.5	61.1
Rubber goods, other than boots, shoes, tires, and inner tubes.....	107.9	108.8	108.5	98.3	97.1	94.8	20.88	20.43	20.00	34.8	34.1	32.8	59.6	60.1	61.1
Rubber tires and inner tubes.....	63.4	65.5	71.5	52.7	50.6	61.4	23.71	22.53	25.02	25.5	23.8	26.2	93.0	94.6	95.7

NONMANUFACTURING

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

Coal mining:															
Anthracite ¹	59.3	60.0	59.6	47.3	46.1	46.5	\$26.01	\$24.86	\$25.27	28.0	26.5	27.0	92.2	93.1	92.3
Bituminous ²	93.1	95.4	96.8	68.5	74.0	70.2	19.57	20.59	19.26	22.4	23.7	21.6	86.8	87.1	87.1
Metalliferous mining.....	61.9	63.4	67.4	56.2	55.9	58.9	28.42	27.48	27.24	42.2	40.9	40.6	67.3	67.3	67.4
Quarrying and nonmetallic mining.....	38.8	37.8	38.2	30.2	28.6	27.7	19.80	19.29	18.56	36.5	35.0	33.3	54.0	55.0	55.6
Crude-petroleum producing.....	73.6	74.2	75.3	68.0	69.6	68.2	34.32	34.88	33.80	40.2	40.1	39.5	84.0	85.4	84.3
Public utilities:															
Telephone and telegraph ³	74.8	75.7	77.8	92.3	89.5	93.7	31.65	30.19	30.76	39.0	37.9	39.5	85.7	84.4	82.6
Electric light and power and manufactured gas ⁴	92.2	92.9	94.0	98.6	98.5	98.9	33.70	33.60	33.47	40.3	40.0	39.3	84.1	84.4	85.5
Electric-railroad and motorbus operation and maintenance ⁵	70.8	71.1	72.2	69.9	70.2	70.6	32.29	32.08	31.98	45.3	45.4	45.0	70.5	69.9	70.0
Trade:															
Wholesale ³	89.1	90.4	91.0	74.7	75.3	75.4	29.09	29.08	28.96	42.4	42.2	42.1	68.3	68.6	68.6
Retail ³	83.0	82.4	84.1	68.6	68.4	70.1	21.46	21.45	21.43	42.8	42.9	43.1	54.5	54.2	54.5
General merchandising ³	90.5	88.8	91.5	82.2	81.5	84.6	18.11	18.16	18.37	39.1	39.3	39.9	48.7	48.6	48.9
Other than general merchandising ³	81.0	80.7	82.1	65.8	65.7	67.1	24.13	24.07	23.92	43.8	43.9	44.0	56.2	55.8	56.1
Hotels (year-round) ^{2,3,5}	93.4	94.4	94.3	81.0	83.5	81.5	14.88	15.16	14.90	47.4	47.2	46.6	31.0	31.7	31.1
Laundries ²	94.8	95.7	96.7	78.5	79.1	80.1	17.00	16.96	17.04	41.9	41.8	41.8	40.8	40.8	41.0
Dyeing and cleaning ²	98.2	95.4	96.7	67.8	65.0	65.3	19.27	18.98	18.66	40.3	39.4	39.0	48.0	49.3	49.2
Brokerage ^{3,6}	-2.7	-2.3	-1.9	-4.0	-2.3	-3.4	35.15	36.11	36.23	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Insurance ^{3,6}	+1.2	-1.1	+1.9	-3	-1.9	+8	36.12	36.39	37.17	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Building construction ⁶	-1.9	-4.8	-14.2	+1.2	-4.7	-15.2	28.44	28.56	28.36	30.7	30.4	30.5	92.1	93.8	92.5

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

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

³ Average weekly earnings, hourly earnings, and hours not strictly comparable with

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

⁴ Not available.

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

⁶ Indexes of employment and pay rolls not available; percentage changes from preceding month substituted.

INDEXES OF EMPLOYMENT AND PAY ROLLS

Indexes of employment and pay rolls are given in tables 6 and 7 for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for 13 non-manufacturing industries, including 2 subgroups under retail trade, by months, from January 1937 to March 1938, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to March 1938.

The indexes of factory employment and pay rolls are computed from returns supplied by representative establishments in 89 manufacturing industries and cover wage earners only. The base used in computing these indexes is the 3-year average 1923-25 as 100. In March 1938 reports were received from 25,571 manufacturing establishments employing 3,987,890 workers, whose weekly earnings were \$89,578,553. 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 the nonmanufacturing industries are based on the 12-month average for 1929 as 100. Figures for mining, laundries, dyeing and cleaning, and building construction cover wage earners only, but the figures for public utilities, trade, hotels, brokerage, and insurance relate to all employees, except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum producing they cover wage earners and clerical field force.

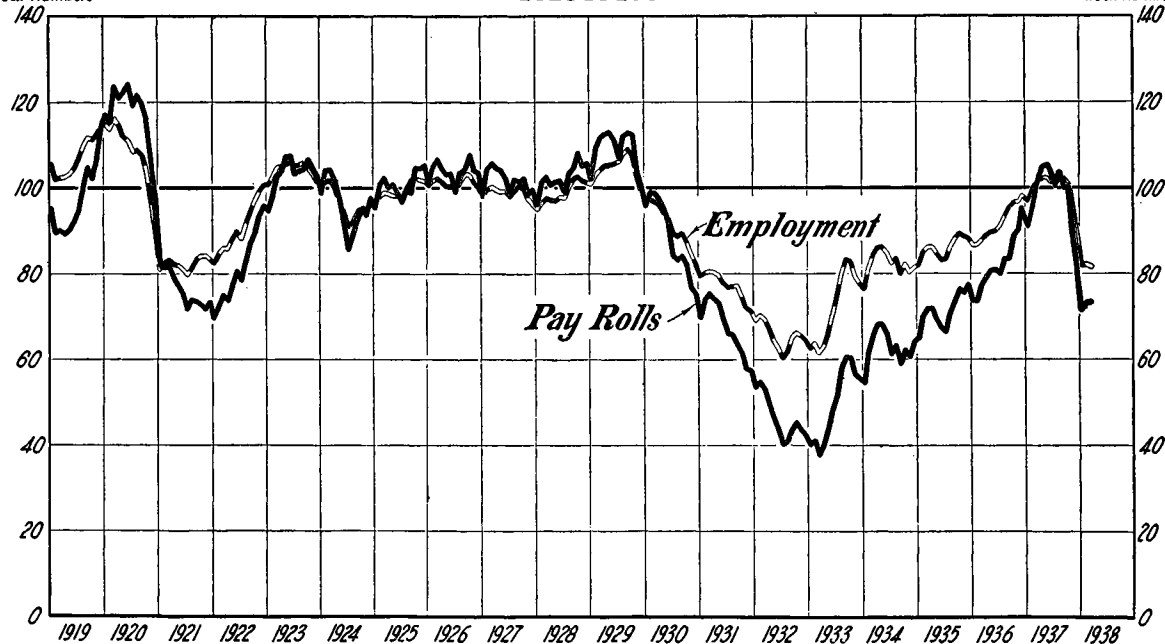
Data for both manufacturing and nonmanufacturing industries are based on reports of the number of employees and amount of pay rolls for the pay period ending nearest the 15th of the month.

EMPLOYMENT & PAY ROLLS ALL MANUFACTURING INDUSTRIES

1923=25=100

Index Numbers

Index Numbers



UNITED STATES BUREAU OF LABOR STATISTICS

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

[Adjusted to 1933 Census of Manufactures—3-year average 1923-25=100]

Month	Manufacturing											
	Total				Durable goods ²				Nondurable goods ³			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	96.5	82.2	90.7	71.7	90.4	75.1	86.6	63.9	103.0	80.9	96.0	81.6
February.....	99.0	82.3	95.8	73.2	93.2	73.3	92.5	63.7	105.2	92.1	99.9	85.1
March.....	101.1	81.7	101.1	73.3	96.4	72.4	100.0	63.8	106.1	91.7	102.6	85.3
April.....	102.1	—	104.9	—	98.6	—	106.4	—	105.9	—	102.9	—
May.....	102.3	—	105.2	—	99.9	—	107.5	—	104.8	—	102.3	—
June.....	101.1	—	102.9	—	98.8	—	104.6	—	103.5	—	100.8	—
July.....	101.4	—	100.4	—	98.9	—	100.7	—	104.1	—	100.0	—
August.....	102.3	—	103.8	—	98.1	—	104.0	—	106.9	—	103.5	—
September.....	102.1	—	100.1	—	97.3	—	99.4	—	107.3	—	100.9	—
October.....	100.5	—	100.1	—	97.6	—	101.7	—	103.6	—	98.2	—
November.....	94.7	—	89.5	—	92.4	—	89.9	—	97.3	—	89.0	—
December.....	88.6	—	80.9	—	84.3	—	77.0	—	93.3	—	85.8	—
Average.....	99.3	—	98.0	—	95.5	—	97.5	—	103.4	—	98.5	—

¹ Comparable indexes for earlier years will be found in the February 1937 issue of this report, or in the April 1937 issue of the Monthly Labor Review.

² Includes the following groups of manufacturing industries: Iron and steel; machinery; transportation equipment; railroad repair shops; nonferrous metals; lumber and allied products; and stone, clay, and glass products.

³ Includes the following groups of manufacturing industries: Textiles and their products, leather and its manufactures, food and kindred products, tobacco manufactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellaneous industries not included in other groups.

TABLE 7.—Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1937 to March 1938 ¹

[12-month average 1929=100]

Month	Anthracite mining				Bituminous-coal mining				Metalliferous mining				Quarrying and non-metallic mining			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	65.2	59.6	46.4	46.5	104.5	96.8	93.6	70.2	60.8	67.4	58.4	58.9	45.7	238.2	34.6	27.7
February.....	63.6	60.0	44.6	46.1	104.7	95.4	96.4	74.0	69.6	63.4	63.4	55.9	46.7	237.8	37.8	28.6
March.....	59.0	59.3	41.1	47.3	106.1	93.1	103.5	68.5	73.1	61.9	70.6	56.2	49.1	38.8	41.3	30.2
April.....	65.1	—	69.4	—	89.7	—	63.6	—	76.2	—	76.9	—	53.1	—	48.1	—
May.....	61.5	—	48.2	—	96.1	—	79.4	—	78.5	—	79.8	—	54.9	—	51.4	—
June.....	61.6	—	55.3	—	96.2	—	83.3	—	79.5	—	77.7	—	55.4	—	52.6	—
July.....	54.3	—	38.2	—	93.7	—	77.7	—	82.0	—	77.8	—	55.5	—	50.8	—
August.....	49.7	—	29.6	—	97.4	—	86.3	—	83.4	—	83.0	—	54.9	—	53.2	—
September.....	58.1	—	34.2	—	99.4	—	90.9	—	84.1	—	82.2	—	54.7	—	50.1	—
October.....	61.5	—	55.4	—	102.4	—	100.7	—	82.9	—	81.7	—	53.3	—	49.3	—
November.....	60.9	—	49.0	—	101.4	—	91.1	—	75.4	—	71.6	—	49.9	—	41.7	—
December.....	61.4	—	51.3	—	99.4	—	95.1	—	70.4	—	65.1	—	43.9	—	33.4	—
Average.....	60.2	—	46.9	—	99.3	—	88.5	—	76.8	—	74.0	—	51.4	—	45.4	—

¹ Comparable indexes for earlier years for all of these industries, except anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning, 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. Indexes for anthracite and bituminous-coal mining, year-round hotels, laundries, and dyeing and cleaning from January 1929 forward have been adjusted to the 1935 census and are presented in the January 1938 issue of this pamphlet.

² Revised.

TABLE 7.—*Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries, January 1937 to March 1938—Continued*

Month	Crude-petroleum producing				Telephone and telegraph				Electric light and power, and manufactured gas				Electric-railroad and motorbus operation and maintenance ³			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	72.7	75.3	61.2	68.2	74.4	77.8	83.6	93.7	92.1	94.0	92.3	98.9	72.5	72.2	68.0	² 70.6
February.....	73.5	74.6	64.1	69.4	74.8	75.7	82.2	² 89.5	92.2	92.9	93.6	98.5	72.5	71.1	68.7	² 70.2
March.....	74.2	73.6	63.9	68.0	75.4	74.8	87.2	92.3	92.4	92.2	94.8	98.6	72.6	70.8	69.2	69.9
April.....	75.8	77.7	67.7	72.6	76.6	78.3	86.3	93.1	93.1	95.5	92.9	98.6	72.9	70.9	69.4	70.1
May.....	76.7	78.5	68.2	77.7	78.5	88.0	96.3	96.3	94.6	97.9	93.3	98.6	73.3	71.1	70.1	71.1
June.....	78.5	70.4	70.4	79.7	79.7	92.1	97.5	102.2	97.5	102.2	73.4	70.8	73.4	70.8	73.4	70.8
July.....	79.3	70.8	79.8	92.1	92.1	98.3	102.6	73.4	98.3	102.6	73.4	73.1	73.4	73.1	73.4	73.1
August.....	78.2	71.2	79.8	92.3	92.3	98.6	104.0	73.7	98.6	104.0	73.7	71.6	73.7	71.6	73.7	71.6
September.....	77.5	69.9	79.6	94.9	94.9	98.5	105.3	73.4	98.5	105.3	73.4	71.4	98.5	71.4	98.5	71.4
October.....	77.2	70.2	78.9	91.4	91.4	97.3	103.8	73.2	97.3	103.8	73.2	71.8	97.3	71.8	97.3	71.8
November.....	76.5	69.8	78.0	94.7	94.7	96.1	102.4	72.8	96.1	102.4	72.8	71.9	96.1	71.9	96.1	71.9
December.....	76.5	68.2	77.8	89.6	89.6	95.6	99.6	73.1	95.6	99.6	73.1	70.6	95.6	70.6	95.6	70.6
Average.....	76.5	68.2	77.8	89.6	89.6	95.6	99.6	73.1	95.6	99.6	73.1	70.6	95.6	70.6	95.6	70.6

Month	Wholesale trade				Total retail trade				Retail trade—general merchandising				Retail trade—other than general merchandising			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	90.7	91.0	72.6	75.4	85.4	84.1	68.0	70.1	95.1	91.5	83.8	84.6	82.9	82.1	64.7	67.1
February.....	92.0	90.4	74.1	75.3	85.2	² 82.4	67.9	² 68.4	93.9	² 88.8	82.9	81.5	82.9	80.7	64.8	² 65.7
March.....	92.1	89.1	75.0	74.7	88.5	83.0	70.5	68.6	100.3	90.5	87.6	82.2	85.4	81.0	67.0	65.8
April.....	91.9	75.4	88.8	71.9	71.9	96.6	89.1	89.1	89.1	96.6	89.1	86.0	86.0	68.3	68.3	68.3
May.....	90.8	76.1	89.9	73.5	73.5	102.1	91.5	91.5	102.1	91.5	91.5	80.7	80.7	69.8	69.8	69.8
June.....	90.3	76.3	90.5	74.4	74.4	102.9	92.5	92.5	102.9	92.5	92.5	87.2	87.2	70.6	70.6	70.6
July.....	90.6	76.9	87.6	72.8	72.8	95.9	87.3	87.3	95.9	87.3	87.3	85.4	85.4	69.8	69.8	69.8
August.....	91.8	79.0	86.2	72.3	72.3	93.8	85.7	85.7	93.8	85.7	85.7	84.2	84.2	69.5	69.5	69.5
September.....	93.0	78.3	90.7	74.4	74.4	103.7	92.4	92.4	103.7	92.4	92.4	87.3	87.3	70.7	70.7	70.7
October.....	94.0	79.3	92.1	75.9	75.9	108.1	96.2	96.2	108.1	96.2	96.2	87.9	87.9	71.7	71.7	71.7
November.....	93.5	78.3	91.7	75.3	75.3	109.8	97.1	97.1	109.8	97.1	97.1	86.9	86.9	70.8	70.8	70.8
December.....	93.3	77.8	100.4	80.6	80.6	145.9	123.3	123.3	145.9	123.3	123.3	88.5	88.5	71.8	71.8	71.8
Average.....	92.0	76.6	89.8	73.1	73.1	104.3	92.5	92.5	104.3	92.5	92.5	85.9	85.9	69.1	69.1	69.1

Month	Year-round hotels				Laundries				Dyeing and cleaning			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
January.....	92.9	94.3	76.2	81.5	98.3	96.7	78.2	80.1	98.8	96.7	64.7	65.3
February.....	93.9	94.4	78.5	83.5	98.4	95.7	78.1	79.1	98.0	95.4	63.6	65.0
March.....	94.4	93.4	78.7	81.0	98.5	94.8	79.3	78.5	104.3	98.2	71.8	67.8
April.....	96.1	80.7	98.3	80.4	98.3	80.4	109.2	80.4	109.2	80.4	80.1	80.1
May.....	95.3	79.7	100.3	83.3	100.3	83.3	113.9	83.3	113.9	83.3	86.1	86.1
June.....	94.4	80.1	103.9	87.5	103.9	87.5	118.5	87.5	118.5	87.5	92.2	92.2
July.....	93.6	79.4	105.8	80.0	105.8	80.0	111.0	80.0	111.0	80.0	79.5	79.5
August.....	94.3	80.5	104.7	88.0	104.7	88.0	110.3	88.0	110.3	88.0	81.3	81.3
September.....	95.7	82.4	104.1	86.4	104.1	86.4	112.8	86.4	112.8	86.4	85.7	85.7
October.....	96.9	84.1	99.9	83.4	99.9	83.4	110.5	83.4	110.5	83.4	83.6	83.6
November.....	96.6	81.3	97.8	81.1	97.8	81.1	103.5	81.1	103.5	81.1	73.7	73.7
December.....	94.9	82.6	97.0	81.1	97.0	81.1	99.2	81.1	99.2	81.1	68.6	68.6
Average.....	94.9	80.6	100.6	83.0	100.6	83.0	107.5	83.0	107.5	83.0	77.6	77.6

² Revised.

³ Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 3.

TREND OF INDUSTRIAL AND BUSINESS EMPLOYMENT, BY STATES

A comparison of employment and pay rolls, by States and geographic divisions, in February and March 1938, is shown in table 8 for all groups combined, and for all manufacturing industries combined based on data supplied by reporting establishments. The percentage changes shown, unless otherwise noted, are unweighted—that is, the industries included in the manufacturing group and in the grand total have not been weighted according to their relative importance.

The totals for all manufacturing industries combined include figures for miscellaneous manufacturing industries in addition to the 89 manufacturing industries presented in table 4. The totals for all groups combined include all manufacturing industries, each of the nonmanufacturing industries presented in table 4 (except building construction), and seasonal hotels.

TABLE 8.—*Comparison of Employment and Pay Rolls in Identical Establishments in February and March 1938, 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]

Geographic division and State	Total all groups					Manufacturing				
	Number of establishments	Number on pay roll March 1938	Percentage change from February 1938	Amount of pay roll (1 week) March 1938	Percentage change from February 1938	Number of establishments	Number on pay roll March 1938	Percentage change from February 1938	Amount of pay roll (1 week) March 1938	Percentage change from February 1938
				<i>Dollars</i>					<i>Dollars</i>	
New England.....	13,802	789,049	-1.7	17,440,712	-1.7	3,611	539,431	-1.7	11,188,207	-2.4
Maine.....	792	51,683	-2.3	1,023,228	-4.0	294	42,043	-2.5	791,538	-5.2
New Hampshire.....	611	33,967	-2.5	675,369	-3.1	202	27,318	-2.8	521,363	-3.7
Vermont.....	446	14,027	-4.2	300,419	-2.3	147	8,533	-5.6	178,730	-2.6
Massachusetts.....	<i>18,291</i>	<i>429,465</i>	<i>-1.3</i>	<i>9,859,850</i>	<i>-1.0</i>	<i>1,796</i>	<i>249,160</i>	<i>-1.1</i>	<i>5,299,261</i>	<i>-1.4</i>
Rhode Island.....	1,226	77,730	-1.8	1,615,213	-2.9	427	60,261	-1.9	1,174,924	-4.0
Connecticut.....	2,436	182,171	-2.4	3,966,633	-2.2	745	152,116	-1.7	3,200,391	-2.3
Middle Atlantic.....	32,069	1,990,835	-7.7	50,724,750	-1.1	5,462	1,105,713	-9.9	28,710,098	-6
New York.....	20,648	898,558	-2.24	2,730,320	+2.2	<i>2,304</i>	<i>406,618</i>	<i>-4</i>	<i>10,759,042</i>	<i>+</i> (5)
New Jersey.....	4,227	319,725	-1.0	8,040,040	-9	<i>4,859</i>	<i>282,676</i>	<i>-1.7</i>	<i>5,747,852</i>	<i>-1.9</i>
Pennsylvania.....	7,194	772,552	-1.2	17,954,390	-3	<i>2,319</i>	<i>466,620</i>	<i>8</i>	<i>10,208,674</i>	<i>8</i> +.5
East North Central.....	24,820	1,941,321	-1.4	47,624,164	-3	8,552	1,444,905	-1.5	35,065,222	-1
Ohio.....	7,368	525,925	-9.12	269,651	+1	2,550	383,651	-1.2	8,891,446	+ (5)
Indiana.....	<i>2,634</i>	<i>230,908</i>	<i>-4</i>	<i>5,198,602</i>	<i>+2.7</i>	<i>782</i>	<i>182,534</i>	<i>-3</i>	<i>4,104,655</i>	<i>+4.1</i>
Illinois.....	<i>6,617</i>	<i>564,564</i>	<i>-1.9</i>	<i>14,439,747</i>	<i>-1.6</i>	<i>2,446</i>	<i>379,754</i>	<i>-2.7</i>	<i>9,504,837</i>	<i>-2.1</i>
Michigan.....	3,877	394,749	-2.3	10,232,274	-2	<i>1,043</i>	<i>342,369</i>	<i>-1.7</i>	<i>8,747,619</i>	<i>+</i> 3
Wisconsin.....	<i>4,324</i>	<i>225,176</i>	<i>-2</i>	<i>5,483,890</i>	<i>-2.7</i>	<i>1,531</i>	<i>166,367</i>	<i>8</i>	<i>3,816,685</i>	<i>8</i> -2
West North Central.....	11,590	395,627	+4	9,332,928	+7	2,471	198,961	-1	4,724,588	-1
Minnesota.....	2,068	79,567	+4	2,027,949	+1.0	439	377,735	-9	990,512	+1.2
Iowa.....	1,740	60,193	+1.1	1,399,138	+2.6	439	355,234	+2.2	850,611	+4.2
Missouri.....	2,879	160,673	+9	3,683,006	+7	861	89,401	+1.1	1,952,154	+1.9
North Dakota.....	543	4,534	+1.9	109,932	+1.2	56	599	+1.5	16,560	+1.2
South Dakota.....	438	7,069	+ (5)	182,633	-1.6	38	1,943	-4	47,670	-4.5
Nebraska.....	1,438	28,563	-9	631,195	-1.8	164	9,551	-3.3	235,018	-1.1
Kansas.....	<i>9,484</i>	<i>55,028</i>	<i>-2.0</i>	<i>1,299,075</i>	<i>8</i> -2	<i>474</i>	<i>24,498</i>	<i>-1.4</i>	<i>632,063</i>	<i>-1.2</i>
South Atlantic.....	10,986	826,713	-3	15,251,385	-6	2,874	546,962	+1	9,240,416	+5
Delaware.....	208	14,101	-1.7	334,208	-1.2	85	9,750	-2.1	225,595	-8
Maryland.....	<i>1,618</i>	<i>128,425</i>	<i>+</i> (5)	<i>2,935,777</i>	<i>+</i> 6	<i>617</i>	<i>87,699</i>	<i>8</i> -2	<i>1,947,893</i>	<i>8</i> -8

See footnotes at end of table.

TABLE 8.—Comparison of Employment and Pay Rolls in Identical Establishments in February and March 1938, by Geographic Divisions and by States—Continued

Geographic division and State	Total all groups					Manufacturing				
	Number of establishments	Number on pay roll March 1938	Percentage change from February 1938	Amount of pay roll (1 week) March 1938	Percentage change from February 1938	Number of establishments	Number on pay roll March 1938	Percentage change from February 1938	Amount of pay roll (1 week) March 1938	Percentage change from February 1938
South Atlantic—Continued.				<i>Dollars</i>					<i>Dollars</i>	
District of Columbia.....	1,088	38,526	+0.7	993,469	+0.9	38	3,239	-1.4	109,100	+0.6
Virginia.....	2,108	111,286	+9	2,037,204	-1.1	464	76,670	+8	1,360,395	-1.5
West Virginia.....	1,273	141,447	-2.6	3,069,491	-4.3	267	51,949	-2.2	1,145,732	-2.0
North Carolina.....	1,459	152,028	+ (3)	2,284,300	+1.6	600	139,381	+1.6	2,057,656	+2.3
South Carolina.....	731	77,593	+1.3	1,049,206	+1.3	213	70,040	+1.4	910,479	+1.5
Georgia.....	1,442	108,619	+1	1,614,826	+6	382	84,038	-2	1,103,926	+1.5
Florida.....	1,059	54,688	-2	932,904	-8	208	24,196	+2	379,640	+1.2
East South Central.	5,249	278,708	-5	4,825,215	-1.1	1,086	167,541	-5	2,757,901	-5
Kentucky.....	1,360	78,798	-2.7	1,452,182	-6.1	305	32,414	-4.1	609,358	-6.5
Tennessee.....	1,413	94,012	+5	1,609,914	+1.2	391	67,276	+6	1,126,510	+2.0
Alabama.....	1,814	86,117	+6	1,469,054	+2.1	288	55,349	+9	861,154	+2.7
Mississippi.....	632	19,781	-1.1	294,065	-3.2	102	12,502	-2.4	160,879	-8.4
West South Central.	6,078	227,566	-9	5,038,949	+3	1,404	109,696	-1.2	2,331,186	+8
Arkansas.....	¹² 950	29,586	-1.7	510,127	-2.6	287	17,860	-1.4	285,828	-3.5
Louisiana.....	1,067	54,572	-2.0	1,085,971	+1.2	262	31,310	-2.4	591,015	+2.4
Oklahoma.....	1,395	41,535	-1.5	1,038,099	- (3)	144	11,698	-3.0	288,112	-2
Texas.....	¹³ 2,666	101,873	+1	2,404,752	+7	711	48,828	+1	1,166,251	+1.3
Mountain.	4,177	117,703	-1.2	2,979,226	-1.6	600	31,989	+3.2	814,799	+2.7
Montana.....	641	15,496	-1.3	466,343	-2	84	3,660	+3.4	100,176	-4
Idaho.....	444	9,209	-2.6	240,614	+4.1	61	2,306	+3.6	57,841	+11.5
Wyoming.....	326	8,774	-1.3	230,820	-2.8	42	1,615	-1.3	53,213	-1.6
Colorado.....	1,208	39,838	+9	958,881	-4	194	13,184	+6.5	337,114	+6.9
New Mexico.....	296	6,720	+1.0	131,414	-7.6	34	1,007	+7.6	14,936	-14.2
Arizona.....	460	14,744	-6.8	382,440	-5.9	41	2,994	-3.8	71,376	-5.7
Utah.....	604	19,890	-1.3	479,424	-2.5	126	6,458	-2	158,599	+4
Nevada.....	198	3,032	+4	89,260	+2.5	18	765	+0.9	21,554	+5.5
Pacific.	9,580	415,580	+7	11,620,180	+2.1	2,624	218,112	+2.9	5,792,486	+4.0
Washington.....	2,968	90,177	+5.9	2,333,756	-6.7	575	49,031	+11.2	1,238,059	+14.6
Oregon.....	1,841	45,550	+8	1,186,809	+9.9	323	26,106	+11.3	657,344	+17.8
California.....	¹⁴ 6,271	279,853	-1.8	8,099,615	-2	1,726	142,975	-1.0	3,897,083	-9

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

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

³ Less than 1/10 of 1 percent.

⁴ Includes laundries.

⁵ Weighted percentage change.

⁶ Includes automobile and miscellaneous services, restaurants, and building and contracting.

⁷ Includes construction but not public works.

⁸ Does not include logging.

⁹ Includes financial institutions, miscellaneous services, and restaurants.

¹⁰ Weighted percentage change including hired farm labor.

¹¹ Percentage change from January to February should have been +0.5 instead of +4.5.

¹² Includes automobile dealers and garages, and sand, gravel, and building stone.

¹³ Includes business and personal service.

¹⁴ Includes banks, insurance, and office employment.

INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL METROPOLITAN AREAS

A comparison of employment and pay rolls in February and March 1938 is made in table 9 for 13 metropolitan areas which had a population of 500,000 or over in 1930. Cities within these areas, but having a population of 100,000 or over, are not included as data concerning them are tabulated separately and are available on request.

Footnotes to the table indicate which cities are excluded. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 4 with the exception of building construction, and include also miscellaneous industries.

TABLE 9.—Comparison of Employment and Pay Rolls in Identical Establishments in February and March 1938, by Principal Metropolitan Areas

Metropolitan area	Number of establishments	Number on pay roll March	Percentage change from February	Amount of pay roll (1 week) March	Percentage change from February
New York ¹	14,908	597,922	-0.2	\$15,940,047	-0.6
Chicago ²	4,337	432,198	-2.2	11,624,747	-1.6
Philadelphia ³	1,957	192,339	-7	4,993,472	-1.3
Detroit.....	1,687	241,165	-2.4	6,774,995	+8
Los Angeles ⁴	2,871	147,882	-2.5	4,147,741	-8
Cleveland.....	1,727	115,070	-2.5	2,793,153	-1.1
St. Louis.....	1,523	123,655	+3	2,908,027	+2
Baltimore.....	1,217	101,023	-(⁵)	2,326,400	-9
Boston ⁶	1,493	100,224	+2	2,712,401	+1.3
Pittsburgh.....	1,033	169,860	-2.7	3,959,131	-1.9
San Francisco ⁷	1,653	79,859	-9	2,353,156	+1
Buffalo.....	880	56,483	-1.0	1,455,535	+2.5
Milwaukee.....	1,120	98,273	+2	2,522,753	-1.5

¹ Does not include Elizabeth, Jersey City, Newark, or Paterson, N. J.; nor Yonkers, N. Y.

² Does not include Gary, Ind.

³ Does not include Camden, N. J.

⁴ Does not include Long Beach, Calif.

⁵ Less than 1/10 of 1 percent.

⁶ Figures relate to city of Boston only.

⁷ Does not include Oakland, Calif.

Public Employment

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

Construction projects financed by the Public Works Administration are those projects authorized by title II of the National Industrial Recovery Act of June 16, 1933. This program of public works was extended to June 30, 1937, by the Emergency Relief Appropriation Act of 1935 and title II of the First Deficiency Appropriation Act of 1936. The First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, reappropriated unobligated funds originally made available under the Emergency Relief Appropriation Act of 1935 and authorized the use of \$300,000,000 from funds on hand or received from the sale of securities. The Public Works Administration was continued until July 1, 1939, by the Public Works Administration Extension Act of 1937.

By authority of Public Resolution No. 11, Seventy-fourth Congress, approved April 8, 1935, the President, in a series of Executive orders, inaugurated a broad program of work to be carried out by 61 units of

the Federal Government. The Works Program was continued by title II of the First Deficiency Appropriation Act of 1936, cited as the Emergency Relief Appropriation Act of 1936, and was further continued by the Emergency Relief Appropriation Act of 1937. 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 with the cooperation of States, cities, or counties.

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

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in February and March 1938 are given in table 10.

TABLE 10.—*Employment and Pay Rolls for the Executive Service of the U. S. Government, February and March 1938*¹

[Subject to revision]

Item	Employment		Per-centage change	Pay rolls		Per-centage change
	March	February ²		March	February ²	
Entire service:						
Total.....	815, 445	809, 580	+0. 7	\$123, 765, 927	\$120, 832, 841	+2. 4
Regular appropriation.....	694, 117	690, 801	+ . 5	107, 918, 905	105, 606, 097	+2. 1
Emergency appropriation.....	60, 331	59, 946	+ . 6	8, 121, 682	8, 128, 699	— . 1
Force-account (regular and emergency).....	60, 997	58, 833	+3. 7	7, 725, 340	7, 008, 045	+10. 2
Inside the District of Columbia:						
Total.....	112, 692	113, 022	— . 3	20, 105, 057	19, 594, 854	+2. 6
Regular appropriation.....	94, 467	93, 944	+ . 6	17, 202, 766	16, 797, 648	+2. 4
Emergency appropriation.....	12, 674	13, 573	— 6. 6	2, 006, 429	2, 046, 265	—1. 9
Force-account (regular and emergency).....	5, 551	5, 505	+ . 8	895, 862	750, 941	+19. 3
Outside the District of Columbia:						
Total.....	702, 753	696, 558	+ . 9	103, 660, 870	101, 237, 987	+2. 4
Regular appropriation.....	599, 650	596, 857	+ . 5	90, 716, 139	88, 898, 440	+2. 0
Emergency appropriation.....	47, 657	46, 373	+2. 8	6, 115, 253	6, 082, 434	+ . 5
Force-account (regular and emergency).....	55, 446	53, 328	+4. 0	6, 829, 478	6, 257, 104	+9. 1

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

² Revised.

The monthly record of employment in the executive service of the United States Government from March 1937 to March 1938, inclusive, is shown in table 11.

TABLE 11.—Employment in the Executive Service of the U. S. Government, by Months, March 1937 Through March 1938 ¹

[Subject to revision]

Month	District of Columbia	Outside District of Columbia	Total	Month	District of Columbia	Outside District of Columbia	Total
<i>1937</i>				<i>1937—Continued</i>			
March.....	116, 535	713, 047	829, 582	October ²	110, 809	718, 081	828, 890
April.....	116, 755	718, 884	835, 639	November ²	112, 112	709, 447	821, 559
May.....	116, 274	724, 247	840, 521	December ²	114, 350	776, 350	890, 700
June ²	111, 081	759, 161	871, 142				
July ²	110, 942	738, 599	849, 541	<i>1938</i>			
August ²	111, 301	732, 014	843, 315	January ²	113, 387	698, 767	812, 154
September ²	111, 296	725, 774	837, 070	February ²	113, 022	696, 558	809, 580
				March.....	112, 692	702, 753	815, 445

¹ Data include number of employees receiving pay during the last pay period of the month. Prior to June 1937 data on number of employees refer to employment on last day of month.

² Revised.

GOVERNMENT-OWNED CORPORATIONS

Semiannually the Civil Service Commission collects data on Government and Government-owned corporations and on the employees of the Office of Comptroller of the Currency, Division of Insolvent National Banks, Treasury Department. Employees of these agencies are not paid directly by and in some cases not hired by the Federal Government.

Table 12 shows employment as of December 31, 1937, and pay rolls for the 6-month period ending December 31, 1937, in the Office of Comptroller of the Currency, Division of Insolvent National Banks, Treasury Department, and in Government-owned corporations.

TABLE 12.—Employment and Pay Rolls in the Office of Comptroller of the Currency and in Government and Government-Owned Corporations

Establishment	Number of employees as of Dec. 31, 1937 ¹	Total pay roll for 6-month period ending Dec. 31, 1937
All establishments.....	25, 266	\$20, 798, 880
Treasury: Office of Comptroller of the Currency, Division of Insolvent National Banks.....	415	445, 071
Farm Credit Administration:		
Banks for cooperatives.....	187	263, 555
Federal intermediate credit banks.....	478	527, 545
Federal land banks ²	5, 534	4, 844, 460
General agents' office.....	425	521, 711
Joint stock land banks.....	730	846, 653
Production credit corporations.....	303	415, 096
Federal Reserve banks.....	10, 385	9, 247, 032
Inland Waterways Corporation.....	3, 172	1, 750, 278
Panama Railroad Co. ³	3, 633	1, 929, 089
Spruce Production Corporation.....	4	8, 390

¹ Data on number of employees refer to employees on pay roll who were paid during the last pay-roll period of the month.

² Includes land-bank appraisers.

³ Includes the Panama Railroad Steamship Line, which is owned and operated by the Panama Railroad Co.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

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

TABLE 13.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, March 1938 ¹

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ²	Weekly average				
	Federal projects financed from N. I. R. A. funds					
All projects -----	13,336	12,535	\$1,207,816	1,608,852	\$0.751	\$1,041,088
Building construction -----	2,067	1,713	239,987	200,583	1.196	273,090
Naval vessels -----	4,208	3,841	483,064	587,074	.823	88,008
Public roads ⁴ -----	(⁵)	4,866	254,643	544,902	.467	175,000
Reclamation -----	1,594	1,554	194,372	232,691	.835	495,145
River, harbor, and flood control -----	484	447	22,211	29,762	.746	13,756
Miscellaneous -----	117	114	13,539	13,840	.978	6,089
	Non-Federal projects financed from N. I. R. A. funds					
All projects -----	9,636	8,046	\$798,963	806,659	\$0.990	\$1,460,959
Building construction -----	4,120	3,450	409,042	342,642	1.194	584,737
Railroad construction -----	19	19	69	146	.473	0
Streets and roads -----	577	423	22,674	30,388	.746	17,882
Water and sewerage -----	3,792	3,183	312,694	328,962	.951	634,086
Miscellaneous -----	1,128	971	54,484	104,521	.521	224,254
	Projects financed from E. R. A. A. 1935, 1936, and 1937 funds ⁶					
All projects ⁷ -----	70,731	58,860	\$4,980,926	6,210,981	\$0.802	\$12,369,412
Building construction ⁷ -----	45,881	37,642	3,214,849	3,755,435	.856	7,669,130
Electrification -----	702	609	39,221	51,253	.765	237,632
Heavy engineering -----	4,544	4,061	465,526	541,843	.859	1,416,848
Reclamation -----	388	355	43,099	52,375	.823	245,854
River, harbor, and flood control -----	382	359	24,148	33,108	.729	93,593
Streets and roads -----	8,105	6,550	423,920	762,355	.556	685,184
Water and sewerage -----	9,703	8,421	689,076	923,288	.746	1,628,603
Miscellaneous -----	1,026	863	81,087	91,324	.888	392,568

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.

³ Includes weekly average for public roads.

⁴ Under the jurisdiction of the Bureau of Public Roads.

⁵ Not available; weekly average included in total for all projects.

⁶ These data are also included in separate tables covering projects financed by The Works Program.

⁷ Includes a maximum of 3,091 and an average of 2,618 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds who were paid \$353,386 for 326,965 man-hours of labor. Material orders in the amount of \$358,801 were placed for these projects. These data are also included in separate tables covering projects financed from The Works Program.

Federal construction projects for which data are included in tables 13 and 14 are financed by allotments made by the Public Works Administration to the various agencies and departments of the Federal Government from funds provided under the National Industrial Recovery Act. The major portion of the low-cost housing program now under way, however, is financed by funds provided under the Emergency Relief Appropriation Act of 1935. The work is performed either by commercial firms which have been awarded contracts, or by day labor hired directly by the Federal agencies.

Non-Federal projects are financed by allotments made by the Public Works Administration from funds available under either the National Industrial Recovery Act, the Emergency Relief Appropriation Act of 1935, the First Deficiency Appropriation Act of 1936, or the Public Works Administration Extension Act of 1937. 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, the First Deficiency Appropriation Act of 1936, or the Public Works Administration Extension Act of 1937 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 March 1938, inclusive, is given in table 14.

TABLE 14.—Employment and Pay Rolls, July 1933 to March 1938, Inclusive, on Projects Financed From Public Works Administration Funds ¹

[Subject to revision]

Year and month	Maximum number of wage earners ²	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
July 1933 to March 1938 ³		\$1, 083, 154, 172	1, 574, 725, 712	\$0. 688	\$1, 892, 875, 054
July to December 1933		33, 244, 066	62, 209, 479	. 534	75, 587, 773
January to December 1934		308, 393, 662	523, 484, 012	. 589	⁴ 610, 065, 389
January to December 1935 ³		270, 548, 829	392, 127, 344	. 690	⁴ 439, 244, 485
January to December 1936 ³		271, 331, 937	353, 259, 435	. 768	⁴ 432, 513, 423
January to December 1937 ³ ⁴		177, 529, 796	216, 928, 257	. 818	293, 735, 885
1938 ³					
January	96, 725	7, 836, 628	9, 293, 040	. 843	14, 943, 433
February	91, 581	7, 281, 549	8, 797, 653	. 828	11, 913, 207
March	93, 703	6, 987, 705	8, 626, 492	. 810	14, 871, 459

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-roads projects.

³ Includes employees working on non-Federal projects financed from E. R. A. A. 1935 and 1936 funds and low-cost housing projects financed from E. R. A. A. 1935 funds. Beginning with November 1937 data were included on projects financed from E. R. A. A. 1937 funds. These data are also included in tables 15 and 16 covering projects financed by The Works Program. March figures include a maximum of 70,731 employees and a pay roll of \$4,980,926.

⁴ Revised.

⁵ 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 March is shown in table 15, by type of project.

TABLE 15.—Employment and Pay Rolls, on Projects Financed by The Works Program, March 1938 ¹

[Subject to revision]

Type of project	Wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed	Weekly average				
Federal projects						
All projects-----	\$ 154, 229	140, 472	\$7, 227, 913	14, 824, 554	\$0. 488	\$3, 956, 555
Building construction-----	47, 995	43, 425	2, 375, 169	4, 236, 042	.561	678, 003
Electrification-----	212	165	12, 174	21, 599	.564	48, 591
Forestry ² -----	9, 359	7, 707	396, 134	955, 519	.415	97, 011
Grade-crossing elimination ⁴ -----	4, 065	3, 373	222, 997	375, 957	.593	295, 790
Hydroelectric power plants ⁵ -----	1, 638	1, 510	50, 860	201, 123	.253	17, 932
Plant, crop, and livestock conservation ³ -----	9, 140	8, 598	415, 751	1, 080, 535	.385	53, 073
Professional, technical, and clerical-----	4, 255	4, 284	359, 440	533, 390	.730	55, 653
Public roads ⁶ -----	3, 333	2, 615	161, 608	298, 884	.541	166, 193
Reclamation-----	34, 075	32, 745	1, 817, 721	3, 787, 366	.480	2, 152, 996
River, harbor, and flood control-----	20, 300	17, 584	851, 013	1, 518, 643	.560	259, 665
Streets and roads-----	10, 953	10, 087	375, 015	1, 052, 595	.356	83, 109
Water and sewerage-----	334	291	9, 762	33, 800	.289	2, 659
Miscellaneous-----	8, 570	8, 088	150, 269	729, 161	.206	45, 880
P. W. A. projects financed from F. R. A. A. funds of 1935, 1936, and 1937 ⁶						
All projects-----	\$ 70, 731	58, 860	\$4, 980, 926	6, 210, 981	\$0. 802	\$12, 369, 412
Building construction-----	45, 881	37, 642	3, 214, 849	3, 755, 435	.856	7, 669, 130
Electrification-----	702	609	39, 221	51, 253	.765	237, 632
Heavy engineering-----	4, 544	4, 061	465, 526	541, 843	.859	1, 410, 848
Reclamation-----	388	355	43, 099	52, 375	.823	245, 854
River, harbor, and flood control-----	382	359	24, 148	33, 108	.729	93, 593
Streets and roads-----	8, 105	6, 550	423, 920	762, 355	.556	685, 184
Water and sewerage-----	9, 703	8, 421	689, 076	923, 288	.746	1, 628, 603
Miscellaneous-----	1, 026	863	81, 087	91, 324	.888	392, 568
Projects operated by Works Progress Administration ⁷						
All projects-----	\$2, 392, 347	-----	\$119, 626, 230	238, 429, 358	\$0. 502	(⁹)

¹ Unless otherwise noted 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.

³ The data for the Bureau of Entomology and Plant Quarantine, under plant, crop, and livestock conservation, and the Bureau of Forest Service, under forestry, are for the calendar month.

⁴ These data are for projects under the jurisdiction of the Bureau of Public Roads.

⁵ These data are for projects under construction in Puerto Rico.

⁶ Includes data for 67,640 employees working on non-Federal projects and 3,091 employees working on low-cost housing projects. These data are included in separate tables covering projects under the jurisdiction of Public Works Administration.

⁷ Data are for the calendar month. Not available by type of project.

⁸ Represents number of names on pay roll for week ending Mar. 26, 1938.

⁹ Data on a monthly basis are not available.

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 March 1938, inclusive, are given in table 16.

TABLE 16.—Employment and Pay Rolls, July 1935 to March 1938, Inclusive, on Projects Financed by The Works Program ¹

[Subject to revision]

Year and month	Maximum number employed ²	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Federal projects					
July 1935 to March 1938, inclusive.....	-----	\$451, 967, 158	942, 174, 554	\$0.480	\$300, 047, 483
July to December 1935.....	-----	34, 813, 554	77, 558, 683	.449	34, 358, 011
January to December 1936 ³	-----	241, 747, 821	524, 091, 294	.461	174, 427, 865
January to December 1937.....	-----	152, 878, 569	295, 902, 722	.518	80, 737, 730
1938					
January.....	157, 827	7, 973, 494	15, 721, 606	.507	3, 599, 854
February.....	147, 182	7, 325, 807	14, 975, 695	.489	2, 967, 408
March.....	154, 229	7, 227, 913	14, 824, 554	.488	3, 956, 555
P. W. A. projects financed from E. R. A. A. funds of 1935, 1936, and 1937 ⁴					
July 1935 to March 1938, inclusive.....	-----	\$254, 077, 309	324, 588, 731	\$0.783	\$473, 400, 960
July to December 1935.....	-----	1, 132, 784	1, 718, 758	.659	2, 095, 506
January to December 1936.....	-----	123, 396, 077	163, 082, 866	.754	229, 999, 173
January to December 1937 ⁵	-----	114, 357, 025	140, 612, 510	.813	208, 184, 158
1938					
January.....	67, 967	5, 176, 438	6, 178, 815	.838	11, 361, 854
February.....	67, 949	5, 034, 050	6, 184, 801	.814	9, 450, 857
March.....	70, 731	4, 980, 926	6, 210, 981	.802	12, 369, 412
Projects operated by Works Progress Administration ⁶					
July 1935 to March 1938, inclusive.....	-----	\$3, 333, 305, 073	6, 924, 576, 103	\$0.481	⁶ \$948, 201, 876
July to December 1935.....	-----	238, 018, 075	570, 184, 607	.417	-----
January to December 1936.....	-----	1, 592, 942, 964	3, 432, 621, 686	.464	-----
January to December 1937.....	-----	1, 187, 661, 083	2, 297, 005, 627	.517	-----
1938					
January.....	1, 898, 162	92, 960, 662	182, 776, 459	.509	-----
February.....	2, 073, 759	102, 096, 059	203, 558, 366	.502	-----
March.....	2, 392, 347	119, 626, 230	238, 429, 358	.502	-----

¹ Unless otherwise noted data are for the month ending on the 15th.

² Maximum number employed during any 1 week of the month on Federal and P. W. A. projects by each contractor and Government agency doing force-account work.

³ Revised.

⁴ These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for March 1938 include 67,640 employees working on non-Federal projects and 3,091 employees working on low-cost housing projects.

⁵ These data are for the calendar month and exclude both work projects and Student Aid projects of the National Youth Administration, which appear in a separate table.

⁶ Data on monthly basis are not available. This total represents expenditures through December 1937, and includes rentals and services and some sponsors' contributions.

Table 17 shows the employment, pay rolls, and man-hours worked on work projects of the National Youth Administration from January 1936 to March 1938, inclusive. Similar data for Student Aid are shown from September 1935 to February 1938, inclusive.

TABLE 17.—Employment and Pay Rolls From Beginning of Program Through March 1938, on National Youth Administration Projects Financed by The Works Program ¹

[Subject to revision]

Year and month	Number of persons employed	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
Work projects					
January 1936 to March 1938, inclusive.....		\$60,453,886	184,715,555	\$0.376	² \$5,549,074
January to December 1936.....		28,883,589	75,827,799	.381	
January to December 1937.....		32,601,360	87,092,351	.374	
1938					
January.....	144,797	2,549,914	6,896,668	.370	
February.....	151,406	2,667,226	7,288,377	.366	
March.....	154,567	2,751,797	7,610,360	.362	
Student Aid					
September 1935 to February 1938, inclusive.....		\$60,390,891	202,298,384	\$0.299	(³)
September to December 1935.....		6,363,503	19,612,976	.321	
January to December 1936.....		25,888,559	85,424,616	.303	
January to December 1937.....		23,988,561	82,756,012	.290	
1938					
January.....	306,341	1,992,810	6,942,656	.287	
February.....	310,142	2,157,458	7,562,124	.285	

¹ Data are for the calendar month.² Data on a monthly basis are not available. This total represents expenditures through December 1937 and includes rentals and services and some sponsors' contributions.³ No expenditures for materials on this type of project.**CIVILIAN CONSERVATION CORPS**

Statistics concerning employment and pay rolls in the Civilian Conservation Corps in February and March 1938 are presented in table 18. The Civilian Conservation Corps is usually regarded as a part of The Works Program, although it is now financed by a separate appropriation.

TABLE 18.—Employment and Pay Rolls in the Civilian Conservation Corps, February and March 1938 ¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	March	February	March	February
All groups.....	315,086	328,044	\$14,479,801	\$15,062,322
Enrolled personnel ²	272,183	283,879	8,490,782	8,851,770
Reserve officers.....	5,068	5,229	1,337,112	1,350,319
Nurses ³	298	284	31,197	30,789
Educational advisers ³	1,547	1,569	261,300	277,428
Supervisory and technical ³	35,990	37,083	4,359,410	4,552,016

¹ Data on number of employees refer to employment on last day of month. Amount of pay rolls are for the entire month.² March data include 4,376 enrollees and pay roll of \$97,976 outside continental United States; in February the numbers were 4,383 enrollees and \$92,337.³ Included in executive service, tables 10 and 11.

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

Monthly statistics of employment and pay rolls in the Civilian Conservation Corps from March 1937 to March 1938, inclusive, are given in table 19.

TABLE 19.—Employment and Pay Rolls in the Civilian Conservation Corps, by Months, March 1937 Through March 1938 ¹

[Subject to revision]

Month	Number of employees	Monthly pay-roll disbursements	Month	Number of employees	Monthly pay-roll disbursements
<i>1937</i>			<i>1937—Continued</i>		
March.....	307, 336	\$15, 770, 090	October.....	363, 256	\$15, 622, 911
April.....	309, 309	17, 502, 905	November.....	350, 714	10, 335, 299
May.....	343, 905	16, 719, 019	December.....	338, 217	15, 824, 325
June.....	326, 626	16, 085, 832	<i>1938</i>		
July.....	348, 779	18, 851, 511	January.....	335, 244	15, 444, 234
August.....	327, 360	16, 380, 024	February.....	328, 044	15, 062, 322
September.....	289, 167	14, 950, 534	March.....	315, 086	14, 479, 801

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

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 March are presented in table 20, by type of project.

TABLE 20.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, March 1938 ¹

[Subject to revision]

Type of project	Maximum number of wage earners ²	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	3, 525	\$496, 349	558, 688	\$0. 888	\$785, 474
Building construction ³	192	17, 876	18, 361	. 974	29, 890
Water and sewerage.....	3, 175	466, 713	521, 163	. 896	754, 320
Miscellaneous.....	158	11, 760	19, 164	. 614	1, 264

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

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

³ Includes 100 employees; pay-roll disbursements of \$9,484; 6,684 man-hours worked; and material orders placed during the month of \$3,862 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 April 1934 to March 1938, inclusive, is given in table 21.

TABLE 21.—Employment and Pay Rolls on Projects Financed by Reconstruction Finance Corporation, April 1934 to March 1938, Inclusive ¹

[Subject to revision]

Year and month	Maximum number of wage earners ²	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
April 1934 to March 1938.....	-----	\$55,771,710	74,507,617	\$0.749	\$85,802,893
April to December 1934.....	-----	14,452,541	20,022,708	.722	18,783,135
January to December 1935.....	-----	14,283,449	19,477,373	.733	24,316,752
January to December 1936.....	-----	15,717,824	21,144,078	.743	23,795,516
January to December 1937 ³	-----	9,758,566	12,112,404	.806	16,317,189
1938					
January.....	3,739	549,058	613,079	.896	1,034,611
February.....	3,481	513,923	579,287	.887	774,216
March.....	3,525	496,349	558,688	.888	785,774

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

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

³ Revised.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

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

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

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during March are given in table 22, by type of project.

TABLE 22.—Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, by Type of Project, March 1938 ¹

[Subject to revision]

Type of project	Number of wage earners		Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum number employed ²	Weekly average				
All projects.....	156,649	145,226	\$15,167,424	20,819,825	\$0.729	\$23,086,301
Building construction.....	19,956	16,672	1,589,260	1,773,518	.896	2,653,019
Electrification:						
Rural Electrification Administration projects ⁴	6,953	5,652	397,066	721,938	.550	2,170,208
Other than Rural Electrification Administration projects.....	88	57	3,548	4,069	.714	6,001
Forestry.....	80	80	3,649	9,831	.371	1,193
Heavy engineering.....	56	38	6,002	4,608	1.303	781
Public roads ⁵	(⁶)	34,478	2,401,889	4,440,848	.541	4,003,141
Reclamation.....	10,645	10,227	1,196,669	1,495,836	.800	2,141,643
River, harbor, and flood control:						
Dredging, dikes, revetments, etc.....	30,699	26,104	2,534,773	4,023,449	.630	2,424,964
Locks and dams.....	6,241	5,629	644,592	895,266	.720	2,655,724
Ship construction:						
Naval vessels.....	43,373	42,708	6,161,112	7,081,738	.870	5,501,383
Other than naval vessels.....	426	362	30,180	25,472	1.060	897,794
Streets and roads.....	1,932	1,733	100,495	197,830	.508	253,140
Water and sewerage.....	173	149	14,333	18,204	.787	78,786
Miscellaneous.....	1,549	1,337	83,856	123,318	.680	268,524

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.

³ Includes weekly average for public-roads projects.

⁴ Financed by Rural Electrification Administration loans.

⁵ Under the jurisdiction of the Bureau of Public Roads.

⁶ Not available; weekly average included in total for all projects.

Employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations from August 1934 to March 1938, inclusive, are shown by months in table 23.

TABLE 23.—Employment and Pay Rolls on Construction Projects Financed From Regular Federal Appropriations, August 1934 to March 1938, Inclusive ¹

[Subject to revision]

Year and month	Maximum number of wage earners ²	Pay-roll disbursements	Number of man-hours worked	Average earnings per hour	Value of material orders placed
August 1934 to March 1938.....		\$407,235,697	597,488,200	\$0.682	\$558,133,452
August to December 1934.....		4,767,402	8,721,451	.547	8,329,694
January to December 1935.....		31,645,314	50,911,488	.622	59,015,233
January to December 1936.....		125,992,929	191,026,676	.660	177,841,977
January to December 1937.....		199,940,141	285,330,817	.701	250,118,787
1938					
January.....	153,864	15,705,838	21,447,213	.732	21,517,638
February.....	144,776	14,016,619	19,230,730	.729	18,223,822
March.....	156,649	15,167,424	20,819,825	.729	23,086,301

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-roads projects.

STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements in the construction and maintenance of State roads from March 1937 to March 1938, inclusive, is presented in table 24.

TABLE 24.—*Employment and Pay Rolls on Construction and Maintenance of State Roads, March 1937 Through March 1938*¹

[Subject to revision]

Month	Number of employees working on 2—		Total	Total pay roll
	New roads	Maintenance		
1937				
March.....	11,802	119,046	130,848	\$8,333,600
April.....	13,164	124,761	137,925	9,108,030
May.....	17,241	159,167	176,408	10,850,394
June.....	19,382	148,392	167,774	11,069,510
July.....	25,140	149,907	175,047	11,998,370
August.....	28,379	160,143	188,522	12,815,790
September.....	26,632	167,028	193,660	12,843,370
October.....	27,280	160,045	187,325	12,134,860
November.....	29,491	163,182	192,673	12,776,701
December.....	23,825	146,340	170,165	10,377,340
1938				
January.....	15,394	126,565	141,959	9,577,200
February.....	12,252	115,710	127,962	8,789,148
March.....	11,379	116,812	128,191	8,504,260

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

² Average number working during month.

*Material Orders Placed*¹

The value of material orders placed on construction projects financed by Federal funds in the first quarter of 1938 is presented in table 25.

In the first quarter of 1938 on the Public Works Administration program, orders were placed for materials valued at approximately \$41,728,000. Of this amount \$13,062,000 was expended for iron and steel products, \$2,297,000 for cement, \$3,679,000 for forest products, and \$6,605,000 for machinery.

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

It is estimated that in fabricating the materials used on the various programs (table 3) approximately 303,000 man-months of labor have been, or will be created. This includes only the labor required in the fabrication of material in the form in which it is to be used. No estimate is made of the labor required in producing the raw materials or in transporting it to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills; no estimate is made for the labor created in mining, smelting, and transporting the ore; nor for the labor in the blast furnaces, the open-hearth furnaces, and the blooming mills.

The information concerning man-months of labor created in fabricating materials is obtained by sending a questionnaire to each firm receiving an award for materials to be financed from Federal or State funds. The manufacturer is requested to make an estimate of the

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

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 1935.

TABLE 25.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1938 ¹

[Subject to revision]

Type of material	Total	Projects			
		Public Works Administration ²	Reconstruction Finance Corporation ³	Regular Federal ⁴	Federal construction under The Works Program
All materials.....	\$117,489,912	\$41,728,099	\$2,590,301	\$62,827,761	\$10,343,751
Textiles and their products.....	191,341	132,317	172	44,444	14,408
Awnings, tents, canvas, etc.....	19,285	10,811	172	6,204	2,098
Carpets and rugs.....	1,326	1,326	-----	-----	-----
Cordage and twine.....	20,616	3,408	-----	16,338	870
Cotton goods.....	4,650	2,072	-----	136	2,442
Felt goods.....	2,282	1,887	-----	192	203
Jute goods.....	2,821	2,259	-----	45	1,617
Linoleum.....	128,508	109,224	-----	15,363	4,011
Sacks and bags.....	3,491	18	-----	3,291	182
Upholstering materials, n. e. c.....	200	-----	-----	-----	200
Waste.....	7,072	1,312	-----	2,875	2,885
Forest products.....	7,685,112	3,679,279	39,804	3,230,869	735,160
Cork products.....	31,732	19,447	-----	11,418	867
Lumber and timber products, n. e. c.....	5,898,014	2,469,082	39,542	2,838,185	554,205
Planing-mill products.....	1,707,553	1,160,734	28	366,727	180,064
Window and door screens and weather-strip.....	47,813	33,016	234	14,539	24
Chemicals and allied products.....	1,258,070	474,624	54,625	476,820	252,001
Ammunition and related products.....	6,342	6,335	-----	-----	7
Chemicals, miscellaneous.....	29,752	9,006	-----	11,583	9,163
Compressed and liquefied gases.....	50,904	10,582	10,547	20,269	9,506
Explosives.....	619,292	224,900	44,032	280,574	69,786
Paints and varnishes.....	551,780	223,801	40	164,394	163,639
Stone, clay, and glass products.....	27,024,412	9,608,631	517,568	13,910,505	3,587,708
Asbestos products, n. e. c.....	11,655	10,942	-----	630	83
Brick, hollow tile, and other clay products.....	2,578,840	2,046,376	7,898	448,412	76,160
Cement.....	11,527,977	2,296,576	423,615	6,194,290	2,613,490
Concrete products.....	2,180,139	1,550,438	-----	387,286	233,415
Crushed stone.....	2,610,626	362,134	3	2,066,672	181,817
Glass.....	250,668	168,950	726	68,448	12,534
Lime.....	21,449	17,097	-----	3,387	965
Marble, granite, slate, and other stone products.....	2,355,706	1,293,309	1,971	1,035,967	24,459
Minerals and earths, ground or otherwise treated.....	3,592	2,734	-----	858	-----
Sand and gravel.....	5,029,540	1,180,992	74,226	3,402,567	371,755
Tiling, floor and wall, and terrazzo.....	442,676	287,586	4,616	131,729	18,745
Wall plaster, wall board, and insulating board.....	611,548	382,497	4,513	170,253	54,285
Iron and steel and their products, not including machinery.....	26,487,571	13,062,393	326,657	10,860,793	2,237,728
Bolts, nuts, washers, etc.....	353,208	117,278	949	203,880	31,191
Cast-iron pipe and fittings.....	1,621,225	1,211,015	946	106,287	112,977
Doors, shutters, and window sash and frames, molding and trim (metal).....	1,622,139	819,028	7,443	771,564	24,104

¹ This table includes certain items which are not actually construction materials, i. e., fuel, transportation equipment, tools, furniture, etc. Data for projects operated by W. P. A. are not available.

² Includes material orders placed on P. W. A. projects financed by the Emergency Relief Appropriation Acts of 1935, 1936, and 1937.

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

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

TABLE 25.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1938—Continued

Type of material	Total	Projects			
		Public Works Administration	Reconstruction Finance Corporation	Regular Federal	Federal construction under The Works Program
Iron and steel and their products, not including machinery—Contd.					
Forgings, iron and steel.....	\$682,304	\$92,119	\$1,065	\$569,387	\$19,733
Hardware, miscellaneous.....	1,229,231	603,189	109,111	367,078	149,853
Heating and ventilating equipment.....	3,030,112	2,145,275	8,320	776,360	100,157
Nails and spikes.....	152,936	73,151	113	41,724	37,948
Rail fastenings, excluding spikes.....	5,446	2,979	-----	2,467	-----
Rails, steel.....	160,525	143,827	-----	16,688	10
Springs, steel.....	76	76	-----	-----	-----
Steel works and rolling-mill products, n. e. c.....	3,723,997	1,632,307	144,970	1,682,427	264,293
Stoves and ranges, other than electric.....	12,559	11,024	-----	120	1,415
Structural and reinforcing steel.....	12,378,525	5,450,521	46,102	5,599,316	1,282,586
Switches, railway.....	3,913	1,859	-----	-----	2,054
Tools, other than machine tools.....	161,250	23,720	2,331	31,815	103,384
Wire products, n. e. c.....	758,507	243,878	475	415,343	98,811
Wrought pipe.....	691,528	491,147	4,832	186,337	9,212
Nonferrous metals and their products.....	999,029	664,712	3,671	272,981	57,665
Aluminum manufactures.....	231,486	191,177	-----	40,219	90
Copper products.....	101,119	92,195	1,254	6,984	686
Lead products.....	21,997	21,400	-----	310	287
Nonferrous-metal alloys and products, n. e. c.....	199,754	100,938	1,497	94,329	2,990
Sheet-metal work.....	444,179	256,002	920	130,878	53,379
Zinc products.....	494	-----	-----	261	233
Machinery, not including transportation equipment.....	30,900,933	6,604,968	1,480,348	21,519,657	1,295,940
Electrical machinery, apparatus, and supplies.....	7,033,189	1,408,081	123,775	5,257,769	183,564
Elevators and elevator equipment.....	820,591	331,209	880	483,473	5,029
Engines, turbines, tractors, and water-wheels.....	5,058,211	1,198,184	4,338	3,608,754	246,935
Foundry and machine-shop products, n. e. c.....	16,235,899	3,036,559	1,348,835	11,098,111	752,394
Machine tools.....	205,979	38,042	-----	135,927	32,010
Meters (gas, water, etc.) and gas generators.....	155,015	137,125	-----	17,858	32
Pumps and pumping equipment.....	1,361,357	377,613	2,520	905,751	75,473
Refrigerators and refrigerating and ice-making apparatus.....	30,692	18,175	-----	12,014	503
Transportation equipment—air, land, and water.....	104,497	34,460	-----	36,939	33,098
Boats, steel and wooden (small).....	523	29	-----	-----	494
Carriages and wagons.....	2,036	1,270	-----	337	429
Motor vehicles, passenger.....	24,896	5,977	-----	13,728	5,191
Motor vehicles, trucks.....	77,042	27,184	-----	22,874	26,984
Miscellaneous.....	22,238,947	7,466,695	167,466	12,474,753	2,130,043
Bolting, miscellaneous.....	589	364	-----	-----	225
Coal.....	147,547	63,431	-----	70,607	13,509
Crescote.....	2,390	130	-----	1,361	899
Electric wiring and fixtures.....	6,375,992	2,053,775	5,984	4,156,577	159,056
Furniture, including store and office fixtures.....	1,402,965	1,248,149	-----	120,556	34,260
Instruments, professional and scientific.....	47,240	8,430	-----	37,960	850
Mattresses and bed springs.....	3,733	3,680	-----	53	-----
Models and patterns.....	3,760	3,470	-----	293	-----
Paper products.....	8,706	4,132	-----	2,431	2,143
Paving materials and mixtures, n. e. c.....	1,090,355	226,929	582	778,171	84,673
Petroleum products.....	4,277,053	716,891	46,737	2,758,435	754,990
Photographic apparatus and materials.....	11,728	59	-----	10,133	1,536
Plumbing supplies, n. e. c.....	2,181,845	1,365,793	14,797	623,671	177,584
Radio apparatus and supplies.....	2,481	2,481	-----	-----	-----
Roofing materials, n. e. c.....	587,849	392,088	1,453	109,151	85,157
Rubber goods.....	100,338	45,534	23,897	19,285	11,622
Steam and other packing, pipe and boiler covering, and gaskets.....	136,332	94,529	-----	40,746	1,057
Theatrical scenery and stage equipment.....	10,439	10,439	-----	-----	-----
Window shades and fixtures.....	44,574	39,852	-----	1,810	2,912
Other materials.....	5,803,031	1,186,539	74,006	3,743,516	798,970

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the first quarter of 1938, the fourth quarter of 1937, and the first quarter of 1937 is shown in table 26.

TABLE 26.—Value of Material Orders Placed on Federal Professional, Technical, and Clerical Projects Financed by The Works Program

[Subject to revision]

Type of material	First quarter of 1938	Fourth quarter of 1937	First quarter of 1937
All materials.....	\$180, 126	\$156, 523	\$290, 884
Computing machines.....	401	1, 310	2, 450
Furniture.....	2, 640	7, 749	6, 502
Office supplies.....	10, 877	18, 297	53, 158
Stationery.....	2, 219	5, 519	7, 938
Typewriters.....	562	307	7, 553
Other office machines.....	1, 431	3, 916	17, 651
Other materials.....	144, 357	76, 698	103, 612
Rental of machinery and equipment.....	17, 639	42, 727	92, 020

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

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

The value of public contracts awarded under the act for materials during the first quarter of 1938, the fourth quarter of 1937, and the first quarter of 1937, are shown in table 27.

TABLE 27.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material

[Subject to revision]

Type of materials	Value of contracts awarded		
	First quarter 1938 ¹	Fourth quarter 1937 ²	First quarter 1937 ³
All materials.....	\$46, 441, 445	\$71, 019, 889	\$78, 685, 126
Food and kindred products.....	1, 200, 608	2, 516, 131	4, 018, 995
Canned fruits and vegetables.....	70, 646	281, 467	265, 654
Canned sea foods.....		78, 833	
Cereal preparations.....		24, 797	26, 826
Coffee and tea.....	140, 322	712, 664	633, 803
Condensed and evaporated milk.....	103, 563	84, 119	341, 927
Feeds, prepared, for animals and fowls.....	159, 055	255, 165	392, 322
Flour and other grain-mill products.....	177, 915	123, 945	197, 533
Meat-packing products.....	104, 637	364, 831	367, 443
Shortening and vegetable cooking oil.....		53, 068	98, 855
Sugar.....	181, 416	218, 442	367, 390
Miscellaneous subsistence stores and supplies.....	263, 144	312, 820	1, 327, 242

See footnotes at end of table.

TABLE 27.—*Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Continued*

Type of materials	Value of contracts awarded		
	First quarter 1938	Fourth quarter 1937	First quarter 1937
Textiles and their products	\$5, 288, 785	\$12, 125, 315	\$34, 127, 602
Canvas bags and covers.....	175, 821	205, 512	286, 697
Clothing (overcoats, suits, trousers, etc.).....	359, 103	57, 043	32, 099
Clothing, manufacture only ¹	630, 368	547, 684	1, 578, 643
Cordage and twine, including thread.....	39, 785	84, 434	182, 853
Cotton gloves.....	.....	111, 170	243, 516
Cotton goods (drills, prints, sheeting, etc.).....	886, 696	2, 850, 789	4, 503, 608
Cotton shirts.....	.....	10, 253	.....
Furnishing goods, men's, n. e. c.....	233, 948	210, 097	367, 584
Housefurnishing goods (pillow cases, sheets, etc.).....	120, 068	523, 296	1, 031, 418
Knit goods (hosiery, underwear, etc.).....	962, 271	532, 755	1, 942, 308
Woolen goods (hannels, suiting, etc.).....	944, 099	5, 980, 195	21, 208, 221
Work clothing.....	580, 653	356, 419	1, 060, 082
Miscellaneous textile products.....	355, 973	665, 921	780, 320
Forest products	498, 795	2, 799, 035	822, 271
Cork and cork products.....	74, 525	.....	.....
Furniture.....	.....	1, 648, 505	47, 378
Lumber and timber products, n. e. c.....	310, 685	590, 931	462, 912
Planing-mill products.....	.....	40, 505	165, 638
Treated lumber and timber.....	35, 156	249, 753	130, 297
Miscellaneous forest products.....	78, 429	269, 341	16, 046
Chemicals and allied products	972, 228	2, 612, 910	1, 133, 495
Ammunition and related products.....	.....	433, 622	37, 044
Compressed and liquefied gases.....	13, 673	.....	32, 080
Explosives.....	96, 590	1, 887, 803	114, 105
Linseed oil.....	77, 604	.....	59, 557
Paints and varnishes.....	167, 670	168, 261	205, 427
Soap and soap chips.....	173, 347	79, 034	327, 215
Miscellaneous chemicals.....	443, 344	44, 190	358, 067
Products of asphalt, coal, and petroleum	4, 379, 023	14, 086, 526	5, 096, 152
Asphalt, oil, tar, and mixtures.....	231, 569	697, 221	517, 909
Coal and coke.....	1, 134, 815	410, 817	24, 650
Fuel oil.....	915, 954	7, 556, 568	1, 701, 792
Gasoline.....	1, 969, 845	4, 940, 037	2, 816, 825
Lubricating oils and greases.....	.....	99, 058	13, 967
Miscellaneous coal and petroleum products.....	126, 840	382, 825	21, 000
Leather and its manufactures	1, 314, 670	243, 103	3, 105, 231
Boots and shoes.....	1, 234, 712	63, 522	2, 930, 380
Boot and shoe cut stock.....	20, 603	.....	15, 077
Gloves.....	.....	47, 269	38, 319
Shoe upper-leather.....	59, 355	.....	112, 455
Miscellaneous leather goods.....	.....	132, 312	.....
Stone, clay, and glass products	5, 208, 139	2, 929, 697	2, 284, 895
Brick.....	192, 910	22, 539	45, 500
Cement.....	2, 355, 749	1, 847, 716	1, 034, 984
Concrete pipe.....	114, 779	29, 346	231, 921
Concrete, ready-mixed.....	411, 570	199, 504	240, 093
Crushed stone.....	987, 338	42, 377	149, 628
Glass.....	10, 217	93, 768	16, 397
Granite and marble.....	234, 090	.....	15, 119
Riprap stone.....	9, 906	75, 700	59, 480
Sand and gravel.....	534, 054	88, 376	124, 731
Soil, black earth.....	.....	268, 718	63, 384
Tile, clay, including drain.....	.....	36, 227	78, 006
Vitrified clay and terra-cotta pipe.....	101, 417	.....	85, 366
Miscellaneous stone, clay, and glass products.....	256, 019	225, 426	139, 386
Iron and steel and their products, not including machinery	5, 182, 757	5, 783, 893	6, 248, 747
Bolts, nuts, rivets, washers, etc.....	93, 612	25, 964	15, 995
Cast-iron pipe and fittings.....	46, 099	118, 676	220, 453
Fencing materials.....	11, 345	37, 690	10, 472
Forgings, iron and steel.....	131, 628	475, 081	809, 125

See footnotes at end of table.

TABLE 27.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Continued

Type of materials	Value of contracts awarded		
	First quarter 1933	Fourth quarter 1937	First quarter 1937
Iron and steel and their products—Continued.			
Hardware, miscellaneous.....	\$16, 106		\$72, 769
Metal doors, sash, and frames.....	43, 871	\$13, 364	44, 559
Metal furniture.....	1, 651, 065	79, 774	115, 156
Metal shingles and roofing.....		11, 550	
Pipe and fittings, n. e. c.....	17, 068	193, 736	
Plumbing fixtures and supplies.....		45, 182	
Rails, steel.....		17, 248	
Reinforcing steel.....	622, 003	454, 741	98, 823
Steel pipe and fittings.....	228, 676	349, 890	35, 670
Steel sheets, plates, shapes, and strips.....	483, 846	1, 720, 900	1, 089, 124
Stoves and ranges, other than electric.....	36, 854		
Structural steel, fabricated, and sheet steel piling.....	542, 577	568, 917	788, 215
Tools, other than machine tools.....	20, 571	56, 731	42, 986
Wire rope.....	35, 659	128, 808	339, 978
Miscellaneous iron and steel products.....	1, 200, 847	1, 487, 041	2, 565, 422
Nonferrous metals and their alloys.....	2, 660, 976	1, 717, 844	2, 076, 608
Aluminum manufactures.....	171, 508	76, 210	87, 700
Brass products.....	356, 773	230, 257	191, 887
Bronze products.....	10, 612	162, 250	15, 270
Copper products.....	305, 848	240, 835	577, 239
Fixtures, gas and electric.....	66, 720	116, 859	356, 306
Lead products.....	60, 448	63, 993	12, 874
Magnesium.....		59, 050	23, 892
Nickel.....	21, 668	117, 615	
Plated ware.....	11, 992	14, 745	28, 130
Sheet-metal work.....	153, 819	27, 673	54, 978
Tin.....	720, 129	289, 170	311, 558
Zinc.....	13, 925		12, 348
Miscellaneous nonferrous metals and alloys.....	767, 534	319, 187	404, 421
Machinery, not including transportation equipment and electrical equipment.....	3, 669, 062	3, 204, 397	6, 285, 570
Air-conditioning equipment.....	51, 732		57, 500
Elevators and elevator equipment.....		35, 518	
Engines, turbines, tractors, and parts.....	1, 719, 172	691, 478	792, 741
Filter and purification equipment.....		134, 346	
Laundry machinery and equipment.....	23, 034	13, 500	61, 265
Machine tools.....	441, 707	538, 504	472, 348
Office equipment.....			13, 900
Phonographs and accessories.....			16, 000
Power shovels and draglines.....	34, 825	112, 326	489, 545
Printing and publishing machinery.....		30, 514	69, 081
Pumps and pumping equipment.....	306, 095	50, 968	849, 662
Refrigerators and refrigerating and ice-making machinery.....	58, 301	12, 810	35, 355
Road machinery.....		10, 400	57, 324
Windlasses, winches, and capstans.....	91, 173	84, 950	43, 708
Miscellaneous machinery and parts.....	943, 023	1, 489, 083	3, 327, 141
Electrical machinery, apparatus, and supplies.....	5, 972, 898	5, 213, 593	5, 121, 273
Batteries.....	20, 801	145, 329	1, 043, 031
Circuit breakers and switches.....	51, 785	223, 814	274, 590
Electric cable, wire, and other conductors.....	585, 055	489, 793	1, 885, 982
Generators and spare parts.....	2, 424, 909	1, 026, 311	299, 684
Heaters and ranges.....		35, 856	108, 021
Motors.....	27, 530		11, 694
Radio equipment and supplies.....	167, 203	1, 808, 538	868, 007
Spark plugs.....	174, 072	47, 503	99, 336
Starters.....	94, 129		
Switchboards, relay and control equipment.....	89, 251	57, 188	99, 240
Telephone and telegraph apparatus.....	53, 614	235, 652	
Transformers.....	238, 307	109, 303	41, 206
Miscellaneous electrical machinery, apparatus, and supplies.....	2, 046, 242	1, 034, 306	390, 482
Transportation equipment.....	7, 826, 075	8, 810, 465	5, 939, 248
Aircraft.....	5, 392, 515	5, 838, 353	88, 018
Aircraft parts and equipment.....	1, 628, 971	1, 497, 447	3, 457, 059
Boats and boat equipment.....	23, 469	50, 461	39, 359
Motor vehicles, passenger.....	126, 089	275, 621	575, 673

See footnotes at end of table

TABLE 27.—Value of Supply Contracts Awarded by the Federal Government, Which Contain Agreements to Comply With the Public Contracts Act, by Type of Material—Continued

Type of materials	Value of contracts awarded		
	First quarter 1938	Fourth quarter 1937	First quarter 1937
Transportation equipment—Continued.			
Motor vehicles, trucks.....	\$507,330	\$753,498	\$1,770,139
Miscellaneous transportation equipment	147,701	395,085	.....
Miscellaneous.....	2,267,339	8,976,980	2,625,044
Brooms, brushes, bristles, etc.....	.....	187,797	220,155
Dental goods and equipment.....	.....	65,014	52,082
Instruments, professional and scientific.....	381,954	1,294,263	417,893
Linoleum.....	.....	87,935	.....
Paper and allied products.....	283,585	2,805,783	415,955
Photographic apparatus and materials.....	69,711	743,670	195,967
Printing, publishing, and subscriptions.....	148,238	131,331	273,741
Rubber products.....	118,368	234,597	364,046
Slag.....	.....	56,800	.....
Steam and other packing, pipe and boiler covering	41,409	13,626	.....
Surgical and orthopedic supplies and appliances.....	154,575	85,742	27,047
Tobacco manufactures.....	.....	89,413	.....
Other materials.....	273,956	2,556,102	455,287
Rentals, services, etc. ¹	795,543	624,907	202,871

¹ For period ending Mar. 31, 1938.

² For period ending Dec. 31, 1937. Revised.

³ For period ending Mar. 31, 1937. Revised.

⁴ Labor only. Materials furnished by U. S. Government.

⁵ Includes equipment rental, repairs, aerial surveys, etc.

The value of public contracts awarded for materials by Federal agencies totaled \$46,441,000 during the first quarter of 1938. Of the contracts awarded in the first quarter of 1938, \$7,826,000 was for transportation equipment; \$5,973,000 for electrical machinery, apparatus, and supplies; \$5,289,000 for textiles and textile products; \$5,208,000 for stone, clay, and glass products; and \$5,183,000 for iron and steel and their products, not including machinery.

