

UNITED STATES DEPARTMENT OF LABOR

Frances Perkins, *Secretary*

BUREAU OF LABOR STATISTICS

Isador Lubin, *Commissioner*

Employment and Pay Rolls

+

March 1937

+

Prepared by

Division of Employment Statistics

LEWIS E. TALBERT, *Chief*

and

Division of Construction and Public Employment

HERMAN B. BYER, *Chief*



UNITED STATES

GOVERNMENT PRINTING OFFICE

WASHINGTON : 1937

CONTENTS

Summary of employment reports for March 1937:	Page
Industrial and business employment.....	1
Public employment.....	5
Detailed reports for March 1937:	
Industrial and business employment.....	8
Public employment.....	24

Tables

TABLE 1.—All manufacturing industries combined and nonmanufacturing industries—employment, pay rolls, and weekly earnings, March 1937.....	5
TABLE 2.—Federal employment and pay rolls—summary, February and March 1937.....	7
TABLE 3.—Value of material orders placed on projects financed wholly or partially from Federal funds and number of man-months of labor created in final fabrication of materials purchased for first quarter of 1937, the first quarter of 1936, and the last quarter of 1936.....	8
TABLE 4.—Manufacturing and nonmanufacturing industries—employment, pay rolls, hours, and earnings, March 1937.....	9
TABLE 5.—Manufacturing and nonmanufacturing industries—revised employment, pay rolls, hours, and earnings, January 1937..	15
TABLE 6.—All manufacturing industries combined and the durable- and nondurable-goods groups—indexes of employment and pay rolls, January 1936 to March 1937.....	20
TABLE 7.—Selected nonmanufacturing industries—indexes of employment and pay rolls, January 1936 to March 1937.....	20
TABLE 8.—Geographic divisions and States—comparison of employment and pay rolls in identical establishments in February and March 1937.....	22
TABLE 9.—Principal cities—comparison of employment and pay rolls in identical establishments in February and March 1937.....	24
TABLE 10.—Executive service of the Federal Government—employment in March 1937, February 1937, and March 1936.....	26
TABLE 11.—Executive service of the Federal Government—monthly record of employment from March 1936 to March 1937, inclusive..	26
TABLE 12.—Construction projects financed by Public Works Administration funds—employment, pay rolls, and man-hours worked, March 1937, by type of project.....	27
TABLE 13.—Construction projects financed by Public Works Administration funds—summary of employment, pay rolls, and man-hours worked, from July 1933 to March 1937, inclusive....	29
TABLE 14.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked, March 1937, by type of project.....	29

	Page
TABLE 15.—National Youth Administration and Student-Aid projects financed by The Works Program—employment, pay rolls, and man-hours worked, March 1937.....	30
TABLE 16.—Projects financed by The Works Program—employment, pay rolls, and man-hours worked from the beginning of the program in July 1935 to March 1937, inclusive.....	31
TABLE 17.—National Youth Administration and Student-Aid projects financed by The Works Program—employment, pay rolls, and man-hours worked from the beginning of the projects to March 1937, inclusive.....	32
TABLE 18.—Emergency conservation work—employment and pay rolls, February and March 1937.....	32
TABLE 19.—Emergency conservation work—employment and pay rolls from March 1936 to March 1937, inclusive.....	33
TABLE 20.—Construction projects financed by the Reconstruction Finance Corporation—employment, pay rolls, and man-hours worked, March 1937, by type of project.....	33
TABLE 21.—Construction projects financed by the Reconstruction Finance Corporation—summary of employment, pay rolls, and man-hours worked, from March 1936 to March 1937, inclusive..	34
TABLE 22.—Construction projects financed from regular governmental appropriations—employment, pay rolls, and man-hours worked, March 1937, by type of project.....	35
TABLE 23.—Construction projects financed from regular governmental appropriations—employment, pay rolls, and man-hours worked, from March 1936 to March 1937, inclusive.....	35
TABLE 24.—Construction and maintenance of State roads—employment and pay-roll disbursements, from March 1936 to March 1937, inclusive.....	36
TABLE 25.—Construction projects financed by Federal funds—value of material orders placed for the first quarter of 1937, by type of material.....	37
TABLE 26.—Federal, professional, technical, and clerical projects financed by The Works Program—value of material orders placed for the first quarter of 1937, the first quarter of 1936, and the last quarter of 1936.....	39
TABLE 27.—Rentals and services on projects operated by the Works Progress Administration from July 1935 to December 1936, inclusive, and for the first quarter of 1937.....	40
TABLE 28.—Value of public contracts awarded for materials from September 28, 1936, through December 1936 and the first quarter of 1937.....	40

EMPLOYMENT AND PAY ROLLS

Summary of Reports for March 1937

APPROXIMATELY 330,000 more employees were on the pay rolls of the manufacturing and nonmanufacturing industries surveyed by the Bureau of Labor Statistics in March than in February. Weekly wage disbursements in March were \$14,700,000 greater than the previous month. With a single exception (January 1937) employment gains have been shown each month since February 1936, and with but two exceptions (July 1936 and January 1937) increases in weekly pay rolls have been reported each month since January 1936.

Comparing March 1936 with March 1937, nearly 1,670,000 workers were added to the pay rolls of the industrial establishments covered by the Bureau's monthly surveys. Wage disbursements were \$68,000,000 greater than in March of last year.

In addition to the employment gains in manufacturing and non-manufacturing industries in March, 2,579 workers (exclusive of executives and officers) were added to the pay rolls of class I railroads during the month, according to a preliminary report by the Interstate Commerce Commission.

Increases in employment were reported in the executive, judicial, legislative, and military services of the Federal Government. Public employment reports in March showed that there was virtually no change in the number of employees working on construction projects financed by the Public Works Administration. Seasonal influences were reflected in the gain in the number of workers employed on construction projects financed by regular governmental appropriations and the Reconstruction Finance Corporation. The downward trend in employment on Federal projects under The Works Program and on projects operated by the Works Progress Administration continued. A sharp decrease occurred on the emergency conservation program. This decrease was caused by the end of an enlistment period.

Industrial and Business Employment

INCREASES in employment from February to March were reported by 78 of the 89 manufacturing industries covered and pay-roll gains were indicated by 79 industries. For all manufacturing industries combined, employment and pay rolls in March rose 2.1 and 5.5 per-

cent, respectively, representing increases of 177,000 in the number of wage earners and \$10,900,000 in weekly wage disbursements. These gains brought the indexes of employment and pay rolls to the highest levels reached since November 1929.

Compared with March 1936, factory employment shows an increase of 15.0 percent and pay rolls an increase of 30.3 percent. These percentage gains indicate that 1,109,000 workers have been added to factory pay rolls and weekly wage disbursements have increased \$47,900,000 since March 1937.

Wage-rate increases contributed to the large pay-roll gains, 405,356 factory workers having received increases between February 15 and March 15 according to returns from cooperating establishments employing 4,899,958 workers. As the survey covers only approximately 55.0 percent of all factory workers and as some firms in the reporting sample may have failed to report wage-rate changes, the foregoing figure does not represent all raises that have occurred during the month interval.

A seasonal expansion in factory employment and pay rolls is expected in March, as employment gains for this month have been recorded in 15 of the preceding 18 years for which data are available and pay rolls have risen in 14 years. With but few exceptions, however, the current gains were more pronounced than the March gains reported in preceding years.

Among the manufacturing industries which reported large seasonal employment gains were fertilizers (41.4 percent), agricultural implements (10.6 percent), sawmills (9.9 percent), cement (9.1 percent), millinery (8.6 percent), marble-granite-slate (7.7 percent), brick-tile-terra cotta (5.9 percent), and beverages (5.7 percent). Smaller seasonal gains were reported in industries related to building construction, among them being plumbers' supplies (4.8 percent), steam and hot-water heating apparatus (3.2 percent), structural metal work (3.3 percent), millwork (2.9 percent), and glass (2.2 percent). The gain of 9.4 percent in the rubber boot and shoe industry was due primarily to a resumption of operations following the settlement of strikes. Large increases reflecting further industrial improvement were reported in railroad-car building (11.7 percent), shipbuilding (8.3 percent), locomotives (7.6 percent), lighting equipment (7.3 percent), and wirework (5.9 percent).

Other industries of major importance reporting employment gains were automobiles (3.3 percent); machine tools (3.2 percent); blast furnaces, steel works, and rolling mills (3.1 percent); women's clothing (2.6 percent); foundries and machine shops (2.3 percent); electrical machinery, apparatus, and supplies (1.7 percent); and men's clothing (1.6 percent).

Among the 11 industries reporting declines in employment were cottonseed oil, cake, and meal (16.2 percent), and radios and phonographs (4.5 percent). Both of these recessions were seasonal. In addition, there was a decline of 13.1 percent in the rubber-tire industry, chiefly because of strikes.

The 16 nonmanufacturing industries surveyed showed a net gain between February and March of 154,000 workers and an increase of \$3,800,000 in weekly pay rolls. Wage-rate increases affecting 53,480 employees were reported by cooperating nonmanufacturing firms. Of this number, 15,160 were in metal mines and 23,842 were in the telephone and telegraph and electric light and power industries.

As in manufacturing, employment and pay-roll gains were widespread, only one of the industries (anthracite mining) having reported an employment decline and only two industries (anthracite mining and insurance) having reported decreases in pay rolls. Spring purchasing combined with Easter trade accounted largely for the gain of 130,000 or 3.9 percent in retail-trade employment. The general merchandising group (department stores, variety, and general merchandising stores, and mail-order houses) showed a seasonal gain of 6.8 percent, or 52,000 workers. A sharp seasonal gain was also shown in retail apparel stores (13.3 percent) and gains ranging from 1.2 to 2.0 percent were shown in retail drugs, hardware, automobiles, and lumber and building materials. Dyeing and cleaning plants reported a sharp seasonal expansion in employment (6.4 percent) and quarries and nonmetallic mines also showed a seasonal gain (5.2 percent). The employment gain of 5.0 percent in metal mining raised the March index for this industry to 73.1, the highest level since October 1930, and indicates an increase of 155.6 percent from the low point recorded in August 1932. The private building construction industry showed a seasonal expansion of 2.3 percent in employment and bituminous-coal mines reported a gain of 1.3 percent, the index for the latter industry exceeding the level of any month since April 1931. Employment in wholesale trade showed a gain of less than 0.1 percent, the losses in several seasonal lines of wholesale activity having offset the gains reported in dry goods and apparel, food products, groceries, hardware, chemicals, and drugs, and a number of other important branches of wholesale trade. Among the larger gains in various lines of wholesale trade was an increase of 4.6 percent in the iron and steel scrap business which reflects activity resulting from the increased price for this type of material.

According to a preliminary report by the Interstate Commerce Commission, class I railroads employed 1,089,446 workers (exclusive of executives and officials) in March as compared with 1,086,867 in February, a gain of 0.2 percent. Corresponding pay-roll information for March was not available at the time this report was prepared.

Wage disbursements for February, however, amounted to \$147,207,-372, a decrease of 4.1 percent in comparison with January when the payments aggregated \$153,438,897.

Hours and earnings.—Average hours worked per week by factory wage earners showed an increase of 1.3 percent between February and March and average hourly earnings increased 2.1 percent. The March averages, based on man-hour data supplied by cooperating establishments were 41.0 hours and 61.3 cents, respectively. Average weekly earnings in March for both full- and part-time factory wage earners (\$25.54) were 3.3 percent higher than in the preceding month.

Of the 14 nonmanufacturing industries for which man-hour data are available, 12 showed gains in average hours worked per week and 8 reported increased hourly earnings. Higher average weekly earnings were reported by 11 of the 16 industries covered.

Table 1 presents a summary of employment and pay-roll indexes and average weekly earnings in March 1937 for all manufacturing industries combined, for selected nonmanufacturing industries, and for class I railroads, with percentage changes over the month and year intervals except in the few industries for which certain items cannot be computed. The indexes of employment and pay rolls for the manufacturing industries are based on the 3-year average 1923-25 as 100, and for the nonmanufacturing industries on the 12-month average of 1929 as 100. The information for the manufacturing industries, mining, laundries, dyeing, and cleaning, and building construction covers wage earners only. For crude-petroleum producing, it covers wage earners and clerical field force. The figures for public utilities, trade, hotels, brokerage, and insurance cover all employees, including executives.

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

Industry	Employment			Pay roll			Average weekly earnings		
	Index March 1937	Percentage change from—		Index March 1937	Percentage change from—		Average in March 1937	Percentage change from—	
		Febru- ary 1937	March 1936		Febru- ary 1937	March 1936		Febru- ary 1937	March 1936
All manufacturing industries com- bined 1.....	(1925- 25 = 100) 101.1	+2.1	+15.0	(1925- 25 = 100) 101.1	+5.5	+30.3	\$25.54 (²)	+3.3 (²)	+13.3 (²)
Class I steam railroads 2.....	61.7 (1929 = 100)	+5	+7.9	(³) (1929 = 100)	(³)	(³)	(³)	(³)	(³)
Coal mining:									
Anthracite.....	48.9	-7.3	-6.9	37.8	-7.9	-11.2	22.51	-7	-4.6
Bituminous.....	85.9	+1.3	+6.8	88.4	+7.3	+26.0	26.22	+6.0	+17.9
Metalliferous mining.....	73.1	+5.0	+30.8	70.6	+11.4	+56.3	30.57	+6.0	+19.5
Quarrying and nonmetallic mining.....	49.1	+5.2	+16.3	41.3	+9.4	+33.7	21.11	+4.0	+15.0
Crude-petroleum producing.....	74.3	+1.1	+4.8	63.7	-2	+13.8	32.15	-1.3	+8.5
Public utilities:									
Telephone and telegraph.....	75.4	+8	+7.3	86.9	+5.7	+12.6	30.84	+4.8	+4.9
Electric light and power and manufactured gas.....	92.2	+2	+6.2	94.5	+1.3	+10.1	33.15	+1.1	+3.7
Electric-railroad and motorbus operation and maintenance.....	72.6	+2	+2.1	69.2	+7	+2.0	31.24	+5	-1
Trade:									
Wholesale.....	92.1	+ ⁽⁴⁾	+7.6	75.0	+1.2	+8.7	28.92	+1.2	+1.0
Retail.....	88.5	+3.9	+8.1	70.5	+3.9	+11.0	21.35	- ⁽⁴⁾	+2.7
General merchandising.....	100.3	+6.8	+10.3	87.6	+5.6	+13.3	18.24	-1.1	+2.7
Other than general mer- chandising.....	85.4	+3.0	+7.3	67.0	+3.4	+10.4	23.87	+4	+2.9
Hotels (year-round) 5.....	86.9	+6	+4.9	72.7	+3	+10.2	14.43	-3	+5.0
Laundries.....	88.7	+2	+8.1	77.5	+1.5	+10.8	16.41	+1.3	+2.5
Dyeing and cleaning.....	81.1	+6.4	+8.5	61.7	+13.0	+9.4	18.76	+6.1	+8
Brokerage.....	(³)	+7	+6.3	(³)	+1.0	+12.3	38.89	+3	+5.7
Insurance.....	(³)	+ ⁽⁴⁾	+1.4	(³)	-4.6	+5.9	39.24	-4.6	+4.4
Building construction.....	(³)	+2.3	+24.0	(³)	+2.4	+41.8	27.93	+1	+14.8

¹ Revised and adjusted to Census of Manufactures totals for 1933.

² Preliminary—Source: Interstate Commerce Commission.

³ Not available.

⁴ Less than 1/10 of 1 percent.

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

Public Employment

EMPLOYMENT on construction projects financed from Public Works Administration funds showed no significant change during March. The total number of workers employed on these projects was 174,000, a decrease of less than 1 percent compared with the 175,000 employed in February. The number of workers employed on Federal and non-Federal projects financed from funds provided by the National Industrial Recovery Act remained virtually the same. A small decrease occurred, however, in the number employed on projects financed from funds provided by the Emergency Relief Appropriation Acts of 1935 and 1936. Pay-roll disbursements for March on all projects financed by the Public Works Administration totaled \$13,354,000.

A substantial increase was reported in the number of workers employed on construction projects financed from regular governmental

appropriations in March. During the month 120,000 employees were working on construction projects. This was an increase of 7,000 or 6.6 percent compared with February. The sharp decrease in employment on miscellaneous projects and small decreases in the number of workers on building construction, naval vessels, and streets and roads were offset by increases on all other types of projects. The most significant percentage increase occurred on electrification projects. Marked percentage increases in employment were also reported for public roads and river, harbor, and flood control. Forestry, reclamation, and water and sewerage projects also registered increases. Total pay-roll disbursements in March amounted to \$11,848,000.

In March 8,000 wage earners were employed on projects financed by the Reconstruction Finance Corporation. This was an increase of approximately 400 or 5 percent compared with the number working in February. All of this gain was reported on water and sewerage projects, and employment on other types of projects, i. e., bridges, building construction, and miscellaneous, remained virtually the same. The employment on reclamation projects dropped from 33 in February to 17 in March. Total pay-roll disbursements of \$929,000 were 7 percent greater than in February.

The number of wage earners employed on projects financed by The Works Program was 2,973,000. This was a decrease of 18,000 compared with the preceding month. Of this total, 250,000 were working on Federal projects; 2,105,000 on that part of the program operated by the Works Progress Administration, and 618,000 on National Youth Administration work projects and Student-Aid. Total pay-roll disbursements amounted to \$133,649,000.

In the regular agencies of the Federal Government, increases were reported for the executive, judicial, legislative, and military services. The increase in the level of employment for the executive service was less than 1 percent in March as compared with February, but was 3.1 percent higher than in March a year ago. Of the 830,000 employees in the executive service in March, 713,000 were working outside the District of Columbia and 117,000 were employed in the District. The most pronounced increases in number of workers in the executive departments of the Federal Government occurred in the Post Office Department and in the Department of Agriculture. The Home Owners, Loan Corporation and the Interior Department reported moderate decreases in the number of workers employed.

Due to the end of an enlistment period employment in emergency conservation work declined sharply during March. Total employment on this program amounted to 307,000, a drop of 87,000 or 22.1 percent compared with February. Virtually all of this decrease was shown in enrolled personnel. The number of reserve officers and educational advisers remained the same, and more than 1,000 super-

visory and technical employees were added to the pay roll. Pay-roll disbursements totaled \$15,770,000, a decrease of 13.9 percent during March.

A total of 131,000 workers were employed during March on the construction and maintenance of roads financed wholly from State funds. This was a moderate decrease compared with the 132,000 workers employed in February. Of the total number employed 91.0 percent were engaged in maintenance work and the remaining 9.0 percent were working on new construction. Pay-roll disbursements for the month totaled \$8,334,000.

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 1937 ¹

[Preliminary figures]

Class	Employment		Per- cent- age change	Pay roll		Per- cent- age change
	March 1937	February 1937		March 1937	February 1937	
Federal service:						
Executive: ²	³ 829,582	826,721	+0.3	\$128,244,418	⁴ \$126,530,725	+1.4
Judicial.....	1,995	1,919	+4.0	525,722	477,950	+10.0
Legislative.....	5,060	5,044	+3	1,188,663	1,185,405	+3
Military.....	316,160	⁴ 314,216	+6	23,462,794	⁴ 22,866,765	+2.6
Construction projects:						
Financed by P. W. A. ⁵	173,574	174,990	-8	13,353,904	13,796,390	-3.2
Financed by R. F. C. ⁷	7,696	7,299	+5.4	929,032	864,776	+7.4
Financed by regular governmental appropriations.....	120,175	112,770	+6.6	11,847,783	10,904,648	+8.6
Federal projects under The Works Program.....	249,690	267,525	-6.7	12,504,895	13,024,133	-4.0
Projects operated by W. P. A.....	2,104,938	2,125,742	-1.0	114,688,415	115,544,451	-7
National Youth Administration:						
Work projects.....	191,569	189,228	+1.2	3,224,944	3,239,694	-5
Student-Aid.....	426,666	408,055	+4.6	3,230,513	3,110,991	+3.8
Relief work: Emergency conservation work ⁸	307,337	394,521	-22.1	15,770,090	18,314,594	-13.9

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

² Includes employees of Columbia Institution for the Deaf and Howard University.

³ Includes 16 employees by transfer previously reported as separations, not actual additions for March.

⁴ Revised.

⁵ Data covering P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds are included. These data are not shown under The Works Program.

⁶ Includes 113,930 wage earners and \$8,254,306 pay roll for March; 115,214 wage earners and \$8,428,606 pay roll for February covering P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds.

⁷ Includes 55 employees and pay-roll disbursements of \$2,111 for March and 20 employees and pay-roll disbursements of \$1,075 for February on projects financed by RFC Mortgage Co.

⁸ Includes 39,829 employees and pay roll of \$5,482,134 for March and 39,252 employees and pay roll of \$5,440,943 for February included in executive service.

The value of material orders placed on projects financed wholly or partially from Federal funds during the first quarter of 1937 amounted to \$243,214,000. It is estimated that approximately 687,000 man-months of labor were created in the final fabrication of these materials, exclusive of rentals and services on projects operated by W. P. A. In the corresponding quarter of 1936 the value of material orders placed amounted to \$181,091,000 and 634,000 man-months of labor were created in final fabrication. During the last quarter of 1936 material orders valued at \$332,162,000 were placed and 951,000 man-months of labor were created in final fabrication.

Table 3 shows the value of material orders placed on the various programs financed by Federal funds during the first quarter of 1937, the first quarter of 1936, and the last quarter of 1936 and the man-months of employment created in the final fabrication of the materials used.

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

[Subject to revision]

Program	Value of material orders placed			Man-months of labor created in final fabrication		
	First quarter of 1937	First quarter of 1936	Last quarter of 1936	First quarter of 1937	First quarter of 1936	Last quarter of 1936
All projects.....	\$243, 214, 296	\$181, 090, 676	\$332, 161, 775	686, 550	634, 069	950, 826
P. W. A. ¹	66, 561, 476	75, 325, 963	98, 867, 507	232, 634	259, 602	342, 102
R. F. C. ²	4, 486, 462	4, 177, 279	5, 739, 795	12, 458	12, 034	17, 034
Regular governmental appropriations ³	38, 163, 221	19, 535, 879	52, 737, 673	123, 130	59, 528	167, 668
Federal projects under The Works Program:						
Construction.....	21, 535, 585	26, 499, 288	32, 400, 924	72, 068	88, 068	102, 279
Professional, technical, and clerical.....	290, 884	202, 211	347, 609	1, 021	795	1, 276
Projects operated by W. P. A.....	65, 665, 275	55, 350, 056	90, 236, 094	243, 900	214, 042	319, 145
Rentals and services on projects operated by W. P. A.....	46, 150, 914	(⁴)	51, 458, 431	(⁴)	(⁴)	(⁴)
National Youth Administration: Work projects.....	360, 479	(⁴)	373, 742	1, 339	(⁴)	1, 322

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

² Includes RFC Mortgage Co. Does not include projects for which contracts were awarded before March 15, 1934.

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

⁴ Data not available.

Detailed Reports for March 1937

Industrial and Business Employment

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

Employment, Pay Rolls, Hours, and Earnings in March 1937

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 1937 are shown in table 4. Percentage changes from February 1937 and March 1936 are also given.

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

Manufacturing

[Indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures]

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index, March 1937	Percentage change from—		Index, March 1937	Percentage change from—		March 1937	Percentage change from—		March 1937	Percentage change from—		March 1937	Percentage change from—	
		February 1937	March 1936		February 1937	March 1936		February 1937	March 1936		February 1937	March 1936		February 1937	March 1936
All manufacturing industries*.....	101.1	+2.1	+15.0	101.1	+5.5	+30.3	\$25.54	+3.3	+13.3	41.0	+1.3	+6.1	<i>Cents</i> 61.3	+2.1	+7.2
Durable goods*.....	96.4	+3.4	+26.2	100.0	+8.1	+39.3	28.78	+4.5	+15.9	42.4	+1.6	+6.1	67.0	+3.0	+8.6
Nondurable goods.....	106.1	+ .9	+10.4	102.6	+2.7	+20.5	21.98	+1.8	+9.5	39.6	+ .9	+5.8	55.4	+ .7	+4.5
<i>Durable goods</i>															
Iron and steel and their products, not including machinery*.....	106.8	+3.3	+24.8	112.6	+8.4	+49.3	30.07	+4.9	19.6	43.2	+2.2	+7.1	69.0	+2.9	+10.5
Blast furnaces, steel works, and rolling mills.....	117.1	+3.1	+26.2	127.2	+7.3	+53.0	32.45	+4.1	+21.1	43.5	+1.3	+6.7	74.8	+2.9	+12.9
Bolts, nuts, washers, and rivets.....	90.2	+1.7	+27.9	108.2	+2.3	+56.7	27.79	+ .6	+22.5	44.9	+ .8	+13.5	61.9	+1.4	+7.8
Cast-iron pipe.....	69.1	+2.9	+17.3	55.5	+7.4	+45.5	21.56	+4.4	+24.0	40.7	+1.9	+16.6	52.2	+2.1	+4.1
Cutlery (not including silver and plated cutlery) and edge tools.....	89.4	+1.4	+13.8	84.1	+4.2	+30.0	23.89	+2.8	+14.2	43.3	+2.1	+9.1	56.5	+1.3	+4.7
Forgings, iron and steel.....	72.7	+2.2	+28.4	72.1	+5.7	+49.1	30.86	+3.5	+16.2	44.9	+ .9	+8.3	68.9	+2.5	+7.3
Hardware*.....	100.1	+3.2	+28.6	116.6	+29.5	+57.6	26.31	+25.5	+22.5	43.3	+15.0	+10.0	61.1	+9.6	+11.2
Plumbers' supplies.....	95.7	+4.8	+12.9	80.4	+17.6	+30.3	26.03	+12.2	+15.5	43.3	+8.8	+9.3	60.1	+3.2	+5.5
Steam and hot-water heating apparatus and steam fittings.....	79.7	+3.2	+31.0	78.6	+5.1	+60.6	28.46	+1.8	+22.5	44.5	+ .4	+12.1	64.0	+1.6	+9.6
Stoves.....	113.0	+4.5	+20.0	102.4	+5.9	+30.3	26.63	+1.3	+8.4	42.5	+ .3	+4.8	62.4	+ .6	+3.1
Structural and ornamental metalwork.....	74.2	+3.3	+29.2	72.2	+7.0	+55.9	27.38	+3.6	+20.7	43.0	+1.9	+13.2	63.8	+1.7	+7.2
Tin cans and other tinware.....	100.2	+1.8	+8.6	104.2	+4.9	+14.8	23.05	+2.9	+5.7	40.6	+1.0	+1.5	57.2	+1.9	+3.8
Tools (not including edge tools, machine tools, files, and saws).....	102.0	+2.2	+28.4	110.9	+1.5	+40.8	25.42	+ .7	+9.7	45.1	+2.1	+4.6	56.3	+1.5	+5.0
Wirework.....	186.5	+5.9	+28.2	180.3	+15.6	+37.5	24.59	+9.1	+8.4	40.7	+5.2	+ .6	60.4	+3.6	+7.7

Footnotes at end of table.

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

Manufacturing

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index, March 1937	Percentage change from—		Index, March 1937	Percentage change from—		March 1937	Percentage change from—		March 1937	Percentage change from—		March 1937	Percentage change from—	
		Febru-ary 1937	March 1936		Febru-ary 1937	March 1936		Febru-ary 1937	March 1936		Febru-ary 1937	March 1936		Febru-ary 1937	March 1936
<i>Durable goods—Continued</i>															
Machinery, not including transportation equipment	121.2	+2.2	+25.1	125.5	+6.2	+44.6	\$28.51	+3.8	+15.5	43.2	+1.5	+7.4	<i>Cents</i> 65.8	+2.4	+8.2
Agricultural implements	131.5	+10.6	+2.1	162.1	+16.2	+12.7	27.66	+5.1	+11.0	41.7	+3.0	+1.4	66.6	+2.4	+9.2
Cash registers, adding machines, and calculating machines	130.5	+2.6	+13.0	140.3	+7.8	+31.8	33.17	+5.0	+16.7	42.7	— .2	+3.3	78.4	+5.5	+12.4
Electrical machinery, apparatus, and supplies	111.2	+1.7	+35.4	112.1	+4.5	+54.2	27.82	+2.8	+14.0	41.7	+1.1	+6.8	66.4	+2.3	+7.4
Engines, turbines, tractors, and water wheels	139.8	+3.6	+15.5	139.2	+6.2	+30.4	31.03	+2.5	+13.9	41.4	+1.1	+3.8	75.1	+1.4	+10.1
Foundry and machine-shop products	106.8	+2.3	+26.6	111.6	+6.3	+48.0	28.99	+3.8	+17.0	44.9	+1.3	+8.3	64.6	+2.6	+8.6
Machine tools	142.8	+3.2	+29.2	152.7	+7.3	+49.2	32.45	+3.9	+15.5	46.9	+1.5	+5.6	69.1	+2.2	+9.1
Radios and phonographs	163.0	— 4.5	+6.0	127.1	+2.3	+21.2	20.36	+7.1	+14.2	36.5	+7.5	+10.8	56.0	— .2	+3.5
Textile machinery and parts	84.9	+2.8	+20.4	89.6	+2.4	+36.4	28.39	— .4	+13.5	45.6	— 1.8	+6.2	62.5	+1.4	+6.7
Typewriters and parts	152.8	+4.3	+36.2	153.2	+11.3	+63.8	26.76	+6.7	+20.3	44.1	+2.5	+14.5	60.7	+4.1	+8.4
Transportation equipment	121.0	+4.3	+19.9	123.6	+10.1	+42.1	32.43	+5.5	+18.4	39.2	+4	+6.7	82.8	+4.8	+11.5
Aircraft	790.8	+4.6	+54.0	703.4	+7.8	+67.4	27.89	+3.1	+5.6	45.3	+3.2	+7.3	62.6	+1	— 2.0
Automobiles	131.6	+3.3	+16.9	132.2	+8.5	+10.0	33.25	+5.0	+19.8	38.9	— .7	+5.6	85.7	+5.7	+13.9
Cars, electric- and steam-railroad	70.2	+11.7	+41.4	79.1	+18.6	+72.0	27.49	+6.2	+22.5	41.0	+3.8	+15.1	67.0	+2.3	+5.4
Locomotives	54.2	+7.6	+104.3	40.8	+9.7	+159.6	29.39	+2.0	+27.1	43.8	+1.2	+20.6	67.0	+7.8	+5.3
Shipbuilding	106.8	+8.3	+15.2	116.0	+18.6	+27.7	30.34	+9.5	+10.8	38.1	+7.2	+5.5	79.0	+3	+4.9
Railroad repair shops	62.2	+1.0	+7.2	65.8	+3.8	+8.0	*30.32	+2.8	+0.8	44.2	+3.3	+9	68.9	— .3	— 1
Electric railroad	64.0	+1.1	+3.0	67.1	+3.5	+5.4	29.50	+2.4	+2.4	44.7	+2.6	— 1.1	64.6	+2	+3.4
Steam railroad	62.1	+1.1	+7.6	65.9	+4.0	+8.3	30.45	+2.9	+6	44.2	+3.3	+1.1	69.2	— .3	— 3
Nonferrous metals and their products	114.6	+2.8	+21.1	111.8	+8.0	+44.1	26.18	+5.2	+19.0	42.6	+1.6	+7.2	61.1	+3.4	+10.9
Aluminum manufactures	124.2	+1.6	+19.1	130.4	+7.1	+39.9	26.35	+5.4	+17.4	43.0	+1.5	+5.6	61.3	+3.8	+11.7
Brass, bronze, and copper products	124.1	+1.9	+25.6	127.8	+6.3	+59.7	29.06	+4.2	+27.1	43.7	+1	+10.5	66.6	+4.2	+15.2
Clocks and watches and time-recording devices	122.1	+1.6	+16.3	120.2	+8.2	+31.8	23.05	+6.5	+13.3	43.0	+2.4	+7.3	53.6	+4.0	+6.6
Jewelry	88.6	+1	+18.7	89.2	+4.7	+36.9	23.47	+4.6	+15.3	39.3	+2.3	+11.8	59.8	+2.6	+3.5
Lighting equipment	103.8	+7.3	+43.0	109.3	+21.6	+77.1	26.58	+13.1	+23.8	42.4	+7.1	+12.1	63.0	+6.0	+10.8
Silverware and plated ware	73.8	+2.7	+13.6	67.9	+8.3	+33.5	25.54	+5.5	+17.5	41.8	+5.3	+14.9	61.4	+6	+7.8
Smelting and refining—copper, lead, and zinc	81.1	+2.8	+4.5	75.2	+9.1	+21.2	27.33	+6.1	+16.1	42.7	+2.5	+1.6	63.9	+3.5	+14.2
Stamped and enameled ware	165.3	+3.9	+22.8	163.2	+5.4	+34.3	22.99	+1.5	+9.5	42.0	— .1	+7	54.8	+1.4	+9.3

Lumber and allied products	69.8	+6.1	+13.9	64.6	+11.0	+23.4	20.78	+4.8	+12.8	43.3	+1.1	+4.9	48.6	+4.5	+5.8
Furniture.....	87.5	+1.6	+22.2	76.9	+2.5	+39.5	20.81	+8	+14.2	43.1	-2	+6.8	48.8	+1.3	+8.0
Lumber:															
Millwork.....	56.7	+2.9	+25.5	52.6	+4.4	+40.1	21.55	+1.4	+11.7	44.8	+1.0	+9.0	48.3	+4	+2.1
Sawmills.....	52.3	+9.9	+7.2	48.0	+20.7	+18.7	20.53	+9.7	+10.8	43.1	+1.9	+2.9	48.6	+7.8	+6.7
Stone, clay, and glass products	70.3	+4.6	+19.4	66.1	+10.5	+37.1	23.95	+5.6	+14.9	40.4	+2.8	+6.4	59.5	+2.5	+7.3
Brick, tile, and terra cotta.....	49.3	+5.9	+29.8	42.6	+12.2	+51.9	21.19	+6.0	+17.2	43.3	+3.7	+8.8	49.4	+2.4	+8.4
Cement.....	63.5	+9.1	+36.5	62.5	+18.9	+59.2	24.33	+9.0	+16.5	39.1	+5.8	+7.6	62.2	+3.0	+8.5
Glass.....	110.1	+2.2	+13.7	115.1	+7.4	+31.3	25.15	+5.0	+15.3	38.4	+1.9	+4.9	65.6	+3.0	+9.9
Marble, granite, slate, and other products.....	40.4	+7.7	+18.8	33.5	+12.0	+29.4	24.33	+4.0	+9.0	37.6	+6	+4.5	64.9	+3.6	+4.4
Pottery.....	81.1	+4.6	+9.0	73.9	+9.3	+23.5	24.17	+4.6	+13.4	43.2	+2.2	+6.9	56.0	+1.0	+2.2
<i>Nondurable goods</i>															
Textiles and their products	111.2	+9	+10.6	103.2	+3.1	+20.4	18.42	+2.2	+8.8	38.2	+1.1	+6.4	48.1	+1.1	+2.6
Fabrics.....	103.8	+2	+11.6	97.5	-1	+23.9	17.66	-3	+11.0	38.8	-4	+6.4	45.5	+1	+4.0
Carpets and rugs.....	102.3	+2.3	+22.2	102.8	+4.7	+51.5	23.71	+2.3	+24.0	40.2	+4	+18.0	59.1	+1.8	+4.0
Cotton goods.....	105.1	+8	+16.9	101.4	+1.0	+34.1	15.27	+3	+14.6	39.1	+3	+7.0	39.0	0	+7.2
Cotton small wares.....	108.6	+1.6	+16.8	109.3	+4.1	+28.1	18.76	+2.6	+9.8	41.2	+1.3	+7.9	45.9	+1.7	+3.7
Dyeing and finishing textiles.....	123.1	+3	+2.9	112.6	+6	+12.0	22.04	+3	+8.8	40.3	-7	+5.6	54.2	+9	+2.3
Hats, fur-felt.....	90.8	+8	+4.5	89.5	-4.7	+16.9	26.74	-5.4	+11.9	37.4	-5.9	+1.4	70.4	-1.6	+4.1
Knit goods.....	123.7	+8	+7.5	127.0	+3	+12.9	17.79	-4	+5.0	38.5	+2	+4.5	47.3	-5	+9
Silk and rayon goods.....	82.7	-1.2	+8.9	70.7	-9	+20.1	16.56	+4	+10.2	38.1	-1.7	+8.0	43.5	+1.9	+1.9
Woolen and worsted goods.....	90.3	-2.2	+7.0	79.0	-3.9	+21.6	20.18	-1.8	+13.6	37.8	-1.7	+6.2	53.5	-1	+6.8
Wearing apparel.....	125.5	+2.4	+8.8	110.4	+9.4	+15.0	20.55	+6.9	+5.6	37.0	+4.4	+5.9	53.1	+2.4	+6
Clothing, men's.....	116.2	+1.6	+6.9	105.7	+6.9	+15.7	21.69	+5.1	+9.2	37.4	+4.4	+10.7	57.0	+2.1	+2.0
Clothing, women's.....	169.9	+2.6	+8.5	138.0	+10.4	+13.7	22.09	+7.5	+4.7	35.5	+4.1	+3.7	57.0	+2.5	0
Corsets and allied garments.....	93.2	+1.7	+4.9	98.2	+6.1	+6.9	17.31	+4.3	+1.8	38.9	+2.8	+2.9	44.5	+1.5	-1.1
Men's furnishings.....	147.6	+3.4	+21.5	123.1	+8.3	+25.3	15.00	+4.8	+3.2	39.0	+3.2	+1.2	33.6	+1.3	-2.0
Millinery.....	66.8	+8.6	+2.5	64.7	+28.4	+5.0	26.72	+18.3	+2.4						
Shirts and collars.....	130.1	+2.8	+17.9	122.4	+9.4	+23.2	14.24	+6.4	+4.4	37.5	+3.1	+6	37.5	+1.9	+2.2
Leather and its manufactures	100.8	+9	+7.7	92.4	+1.7	+26.4	21.50	+8	+17.4	40.9	-1.4	+14.2	52.6	+1.0	+2.7
Boots and shoes.....	102.7	+8	+8.6	89.0	+1.3	+28.6	20.84	+5	+18.3	40.9	-1.9	+15.0	50.9	+1.2	+2.2
Leather.....	98.8	+1.4	+4.1	107.3	+2.6	+20.6	24.11	+1.2	+15.9	40.9	+8	+10.7	59.1	+4	+4.8
Food and kindred products	105.7	+6	+8.2	104.1	+2.8	+15.4	23.72	+2.2	+6.7	42.0	+4	+3.3	56.5	+1.2	+5.4
Baking.....	133.7	+1.2	+6.9	124.1	+1.8	+13.3	24.19	+6	+6.1	43.8	+1.2	+7.7	55.8	-4	+1.5
Beverages.....	192.5	+5.7	+12.7	211.0	+11.5	+16.9	32.46	+5.4	+3.8	40.7	+4.3	+8	80.7	+1.1	+2.6
Butter.....	82.3	+1.8	+5.8	64.4	+3	+5.8	21.91	-1.4	-(?)						
Canning and preserving.....	89.6	-3.1	+14.4	89.5	-7.8	+23.3	16.15	-4.9	+7.7	37.5	-6.6	+4.1	44.7	+2.0	+7.4
Confectionery.....	78.8	-8	+5.0	76.2	+9	+12.3	17.42	+1.7	+6.9	39.7	-(?)	+4.8	43.6	+1.8	+1.9
Flour.....	74.2	-7	-1.4	70.4	-5	+1.6	24.12	+1	+3.1	43.4	-2.1	+8	54.9	+1.3	+1.6
Ice cream.....	64.6	+4.5	+6.9	59.4	+5.2	+10.4	27.94	+8	+3.2	47.6	+2.0	+1.3	57.6	-8	+6
Slaughtering and meat packing.....	90.7	-7	+10.7	91.5	+3.5	+22.0	25.26	+4.2	+10.1	41.0	+5	+1.4	60.8	+2.8	+3.3
Sugar, beet.....	38.9	+4.2	+10.2	44.8	+2.7	+8.0	26.50	-1.4	-2.1	39.8	+1.9	-3.7	68.6	-6	+2.8
Sugar refining, cane.....	76.2	+1.2	-3.3	80.7	+22.0	+15.0	28.42	+20.5	+18.9	45.9	+20.2	+13.9	60.8	+1	+2.2
Tobacco manufactures	60.8	+5	+2.7	52.4	-4	+12.7	15.82	-8	+9.8	36.7	-1	+5.5	42.8	-1.3	+4.7
Chewing and smoking tobacco and snuff.....	57.0	-3.2	+1.0	65.5	-2.7	+11.6	17.05	+5	+10.6	37.1	-6	+3.7	46.2	+1.1	+6.7
Cigars and cigarettes.....	61.2	+1.1	+3.1	50.8	-1	+12.8	15.55	-1.2	+9.5	36.7	0	+5.8	42.4	-1.6	+4.4

Footnotes at end of table.

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

Manufacturing

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index, March 1937	Percentage change from—		Index, March 1937	Percentage change from—		March 1937	Percentage change from—		March 1937	Percentage change from—		March 1937	Percentage change from—	
		Febru-ary 1937	March 1936		Febru-ary 1937	March 1936		Febru-ary 1937	March 1936		Febru-ary 1937	March 1936		Febru-ary 1937	March 1936
<i>Nondurable goods—Continued</i>															
Paper and printing	107.1	+1.3	+8.5	104.1	+3.6	+16.6	\$28.21	+2.2	+7.4	41.1	+1.3	+5.5	<i>Cents</i> 71.4	+0.9	+1.9
Boxes, paper.....	103.7	+2.1	+13.6	106.7	+3.4	+24.4	20.93	+1.3	+9.5	43.1	+8	+8.4	49.2	+6	+1.1
Paper and pulp.....	117.6	+1.3	+8.8	116.5	+2.6	+23.6	24.88	+1.3	+13.7	43.7	+5	+5.8	56.8	+8	+7.0
Printing and publishing:															
Book and job.....	98.0	+6	+11.4	94.2	+3.4	+18.4	30.24	+2.8	+6.2	40.5	+1.5	+6.0	75.7	+1.2	+1
Newspapers and periodicals.....	105.6	+1.6	+2.9	103.3	+4.6	+7.8	36.75	+2.9	+4.8	37.7	+2.3	+3.0	94.2	+1.0	+2.7
Chemicals and allied products, and petro- leum refining	124.9	+2.5	+9.8	128.1	+3.6	+22.6	26.57	+1.2	+11.8	40.4	+1.4	+2.9	66.8	-.4	+9.8
Other than petroleum refining.....	126.0	+2.9	+10.9	128.8	+4.0	+25.0	24.62	+1.0	+12.6	41.6	+1.2	+3.5	59.8	-.3	+10.5
Chemicals.....	134.0	+2.0	+16.6	140.2	+3.7	+30.9	29.03	+1.7	+12.3	40.9	+2	+1.4	71.0	+1.6	+10.8
Cottonseed—oil, cake, and meal.....	68.7	-16.2	-8.4	58.6	-12.9	+4.6	11.77	+4.1	+14.0	49.3	-2.4	+9.3	24.1	+6.6	+5.7
Druggists' preparations.....	112.2	+2.0	+8.9	121.2	+1.6	+13.8	23.62	-.4	+4.5	40.5	-.4	+2.3	55.2	-(2)	+6
Explosives.....	90.2	-3.2	+7.8	97.5	+4.8	+18.8	30.51	+8.2	+10.3	40.4	+5.9	-.8	75.6	+2.2	+11.4
Fertilizers.....	135.9	+41.4	+10.7	127.6	+46.8	+26.3	15.40	+3.8	+14.2	44.9	+9.9	+12.4	34.3	-5.6	+2.5
Paints and varnishes.....	134.6	+2.6	+11.3	133.1	+4.6	+22.4	27.21	+1.9	+9.9	42.9	+1.4	+4.2	63.5	+6	+5.3
Rayon and allied products.....	373.3	+8	+7.9	349.7	+1.5	+24.0	23.07	+7	+14.8	39.8	+1.8	+2.5	58.0	-1.1	+12.2
Soap.....	111.0	+1.1	+17.1	123.2	-1.0	+32.3	27.18	-2.0	+13.1	40.9	-2.9	+3.4	66.7	+8	+9.3
Petroleum refining.....	120.5	+8	+5.2	125.6	+2.3	+14.6	31.83	+1.5	+8.8	36.5	+1.6	+3	88.3	+(2)	+9.5
Rubber products	96.7	-4.8	+28.2	99.8	-4.4	+49.6	27.69	+4	+16.6	38.2	+1.8	+3.7	73.9	-1.4	+13.2
Rubber boots and shoes.....	80.2	+9.4	+13.5	72.2	+11.2	+29.6	22.39	+1.6	+14.3	39.9	+1.6	+4.6	56.2	+(2)	+7.7
Rubber goods, other than boots, shoes, tires, and inner tubes.....	144.2	+1.9	+20.0	146.0	+3.4	+38.1	23.36	+1.5	+15.1	41.4	-.4	+10.5	57.1	+1.7	+6.3
Rubber tires and inner tubes.....	81.2	-13.1	+41.8	90.4	-10.8	+62.6	32.57	+2.6	+14.6	35.1	+2.3	-.9	93.0	+5	+14.4

Nonmanufacturing

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

Coal mining:																		
Anthracite.....	48.9	-7.3	-6.9	37.8	-7.9	-11.2	22.51	-0.7	-4.6	28.5	+0.7	+2.3	78.8	-0.7	-5.3			
Bituminous.....	85.9	+1.3	+6.8	88.4	+7.3	+26.0	26.22	+6.0	+17.9	33.8	+6.2	+17.6	78.6	-1.8	-1			
Metalliferous mining.....	73.1	+5.0	+30.8	70.6	+11.4	+56.3	30.57	+6.0	+19.5	45.0	+2.8	+5.0	68.1	+3.2	+14.6			
Quarrying and nonmetallic mining.....	49.1	+5.2	+16.3	41.3	+9.4	+33.7	21.11	+4.0	+15.0	42.0	+4.3	+6.7	50.5	+1.5	+7.5			
Crude-petroleum producing.....	74.0	+7	+4.4	64.1	+4	+14.5	31.92	-3	+9.7	39.8	+7	+5.9	80.5	-1.0	+2.6			
Public utilities:																		
Telephone and telegraph.....	75.4	+8	+7.3	86.9	+5.7	+12.6	30.84	+4.8	+4.9	39.1	+3.1	+1.1	81.8	+1.5	+3.8			
Electric light and power and manufactured gas.....	92.2	+2	+6.2	94.5	+1.3	+10.1	33.15	+1.1	+3.7	40.8	+7	+2.1	81.4	0	+2.7			
Electric-railroad and motorbus operation and maintenance.....	72.6	+2	+2.1	69.2	+7	+2.0	31.24	+5	-1	46.4	+7	-1.8	66.4	-2	+2.1			
Trade:																		
Wholesale.....	92.1	+ (2)	+7.6	75.0	+1.2	+8.7	28.92	+1.2	+1.0	42.9	+1.0	+4	67.5	+3	+6			
Retail **.....	88.5	+3.9	+8.1	70.5	+3.9	+11.0	21.35	- (2)	+2.7	43.5	-5	-7	53.5	+6	+3.2			
General merchandising **.....	100.3	+6.8	+10.3	87.6	+5.6	+13.3	18.24	-1.1	+2.7	40.2	-7	-1.5	49.0	+5	+5.3			
Other than general merchandising.....	85.4	+3.0	+7.3	67.0	+3.4	+10.4	23.87	+4	+2.9	44.6	-4	-4	54.8	+8	+2.8			
Hotels (year-round) ¹	86.9	+6	+4.9	72.7	+3	+10.2	14.43	-3	+5.0	45.3	+6	+1.5	29.7	-7	+4.4			
Laundries.....	88.7	+2	+8.1	77.5	+1.5	+10.8	16.41	+1.3	+2.5	43.0	+4	+3	38.0	+8	+2.2			
Dyeing and cleaning.....	81.1	+6.4	+8.5	61.7	+13.0	+9.4	18.76	+6.1	+8	42.5	+3.4	-3	45.5	+2.1	+7			
Brokerage.....	(4)	+7	+6.3	(4)	+1.0	+12.3	38.89	+3	+5.7	(4)	(4)	(4)	(4)	(4)	(4)			
Insurance.....	(4)	+ (4) (2)	+1.4	(4)	-4.6	+5.9	39.24	-4.6	+4.4	(4)	(4)	(4)	(4)	(4)	(4)			
Building construction.....	(4)	+2.3	+24.0	(4)	+2.4	+41.8	27.93	+1	+14.8	31.5	-1.2	+3.1	88.2	+1.0	+11.4			

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

⁴ Not available.

*December data revised as follows:

All manufacturing industries.—Pay-roll index, 95.2; percentage change from November, +5.0; percentage change from December 1935, +22.7.

Average weekly earnings, \$24.87; percentage change from November, +3.6; percentage change from December 1935, +10.4.

Average hours, percentage change from November, +1.4; percentage change from December 1935, +6.1.

Durable goods.—Average weekly earnings, \$28.02; percentage change from November, +3.2; percentage change from December 1935, +12.8.

Average hours, 42.9; percentage change from November, +0.2; percentage change from December 1935, +7.0.

Average hourly earnings, 64.5; percentage change from November, +2.9; percentage change from December 1935, +4.9.

Iron and steel and their products, not including machinery.—Pay-roll index, 103.2; percentage change from November, +7.7; percentage change from December 1935, +38.9.

Average weekly earnings, \$29.34; percentage change from November, +6.5; percentage change from December 1935, +17.9.

Average hours, 43.6; percentage change from November, +0.5; percentage change from December 1935, +9.3.

Average hourly earnings, 66.9; percentage change from November, +5.9; percentage change from December 1935, +7.4.

Hardware.—Pay-roll index, 116.2; percentage change from November, +9.4; percentage change from December 1935, +38.1.

Average weekly earnings, \$27.43; percentage change from November, +4.7; percentage change from December 1935, +17.4.

Average hours, 46.2; percentage change from November, +2.9; percentage change from December 1935, +10.0.

Average hourly earnings, 60.3; percentage change from November, +1.8; percentage change from December 1935, +7.6.

**** November and December hours and hourly earnings revised as follows:**

Retail trade.—November hours, 43.8; percentage change from October +0.1; percentage change from November 1936, +2.5.

November hourly earnings, 52.2; percentage change from October, +0.5; percentage change from November 1936, +1.1.

December hours, 44.3; percentage change from December 1936, +1.1.

December hourly earnings, 50.8; percentage change from November, -3.1; percentage change from December 1936, +1.3.

General merchandising.—November hours, 40.8; percentage change from October, -0.1; percentage change from November 1936, +3.9.

November hourly earnings, 46.1; percentage change from October, +0.2; percentage change from November 1936, +0.2.

December hours, 42.9; percentage change from November, +4.7; percentage change from December 1936, +2.0.

December hourly earnings, 42.6; percentage change from November, -7.7; percentage change from December 1936, +.2.

**Revised Employment, Pay Rolls, Hours, and Earnings in Manufacturing
and Nonmanufacturing Industries, January 1937**

TABLE 5 summarizes certain revisions that have been necessary in employment and pay-roll indexes, average weekly earnings, average hours, and average hourly earnings for January chiefly because of late reports from firms in flood areas.

Although all items for each industry were not affected by the revisions, data are presented for all items for the convenience of the reader. Where revisions have not been made, the figures are shown in bold-face type.

Table 5.—Revised Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1937

[Figures in bold face type indicate that revisions were not necessary]

Manufacturing

[Indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures]

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index, January 1937	Percentage change from—		Index, January 1937	Percentage change from—		January 1937	Percentage change from—		January 1937	Percentage change from—		January 1937	Percentage change from—	
		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936		December 1936	January 1936
All manufacturing industries.....	96.5	-1.6	+11.2	90.7	-4.6	+22.9	\$24.02	-3.1	+10.6	39.6	-3.7	+6.0	<i>Cents</i> 59.6	+0.3	+3.9
Durable goods.....	90.4	-2.5	+14.9	86.6	-7.3	+20.4	26.54	-5.0	+12.7	40.6	-5.2	+6.8	64.3	-2	+4.4
Nondurable goods.....	103.0	-1.0	+8.0	96.0	-1.5	+16.4	21.31	-6	+7.7	38.7	-1.9	+5.0	54.9	+1.1	+2.7
<i>Durable goods</i>															
Iron and steel and their products, not including machinery.....	100.0	-4	+18.5	99.8	-2.2	+43.4	18.54	-2.9	+21.0	42.0	-3.6	+11.0	66.9	-2	+7.7
Bolts, nuts, washers, and rivets.....	86.9	+3.7	+20.4	97.8	-7	+37.2	26.12	-4.2	+13.9	43.2	-4.9	+7.9	60.6	+7	+5.3
Cutlery (not including silver and plated cutlery), and edge tools.....	87.1	-1	+10.4	80.3	-6.0	+21.2	23.24	-6.0	+9.8	42.6	-7.4	+7.9	55.3	+1.2	+1.3
Hardware.....	80.2	-16.1	-1.2	81.6	-29.8	+5.8	22.98	-16.3	+7.0	41.6	-9.9	+5.5	55.5	-8.1	+1.1
Stoves.....	96.7	-10.2	+17.2	76.8	-20.0	+27.6	23.18	-10.9	+8.7	39.5	-8.6	+9.5	59.3	-1.8	-2
Machinery, not including transportation equipment.....	114.9	+7	+20.6	111.0	-2.3	+34.5	26.67	-3.0	+11.5	41.8	-4.0	+7.2	63.6	+9	+4.6
Agricultural implements.....	111.3	+8.1	-10.7	131.6	+8.4	-3.2	26.52	+2	+8.6	40.9	+1	+2.2	65.3	+4	+6.1
Radios and phonographs.....	187.1	-7.7	+6.2	146.0	-12.8	+21.0	20.48	-5.6	+13.9	36.4	-6.5	+9.0	56.3	+1.0	+4.6
Transportation equipment.....	112.7	-7.7	+9.8	100.7	-16.7	+17.5	28.21	-9.7	+7.1	38.9	-8.3	+3.3	76.9	-1.7	+3.6
Aircraft.....	725.4	+5.0	+64.9	606.3	-2.2	+63.5	26.23	-6.9	-3.3	42.7	-5.9	+4	62.1	-1.0	-1.6
Automobiles.....	125.2	-9.7	+6.2	108.2	-20.3	+13.0	28.42	-11.7	+6.4	38.5	-9.9	+2.4	78.5	-1.7	+4.6
Cars, electric- and steam-railroad.....	55.7	-2.1	+35.7	58.8	-1.8	+59.5	25.91	+3	+18.5	39.9	-2	+11.3	64.9	+3	+5.4
Shipbuilding.....	94.5	+5.1	+10.2	96.8	+6.9	+17.3	28.40	+1.6	+6.5	35.9	+2.5	+3.3	78.2	-1.2	+2.6

Nonferrous metals and their products.....	106.9	-4.2	+12.5	97.1	-8.0	+27.6	24.49	-3.9	+13.4	41.1	-6.2	+5.6	59.1	+2.4	+7.3
Clocks and watches and time-recording devices.....	118.4	-2.4	+14.9	109.1	-7.5	+30.0	21.57	-5.2	+13.1	41.6	-7.0	+8.8	52.3	+2.3	+5.1
Lumber and allied products.....	65.0	-3.1	+9.8	54.9	-9.3	+19.6	18.80	-6.3	+9.0	40.9	-6.0	+4.4	46.1	-7	+1.0
Lumber.....															
Millwork.....	53.8	-4	+23.1	47.1	-7.1	+36.1	20.15	-6.8	+10.5	42.5	-6.8	+10.3	47.8	+(*)	+1.1
Sawmills.....	46.8	-4.5	+6	37.2	-10.5	+2.3	17.51	-6.3	+1.8	39.8	-4.7	+9	44.6	-2.2	-.6
Stone, clay, and glass products.....	62.5	-6.9	+13.2	52.7	-10.8	+25.8	21.38	-4.3	+11.1	38.2	-4.4	+9.2	56.5	+1	+1.2
Brick.....	45.6	-6.4	+25.8	36.4	-11.1	+45.6	19.29	-5.1	+15.9	40.5	-5.4	+11.2	48.0	+3	+4.8
Cement.....	57.1	-7.9	+43.1	49.9	-15.1	+72.0	21.63	-7.8	+20.1	35.7	-9.9	+16.3	60.6	+2.3	+3.5
Glass.....	92.8	-7.8	-1.1	84.6	-11.1	+4.4	21.98	-3.6	+5.4	36.8	-2.2	+5.9	60.0	-1.2	-.6
Marble, granite, slate, and other products.....	36.3	-11.5	+26.4	28.5	-14.4	+44.2	23.10	-3.3	+14.2	36.1	-5.8	+10.8	64.7	+3.1	+3.4
Pottery.....	74.8	-2.1	+7.9	63.2	-3.1	+24.7	22.45	-1.1	+15.5	40.4	-2.9	+10.7	55.8	+3	+2.0
<i>Nondurable goods</i>															
Textiles and their products.....	107.1	+7	+8.1	94.6	0	+18.0	17.80	-.7	+8.1	37.1	-2.0	+6.8	47.5	+8	+7
Wearing apparel.....	115.6	+7	+9.3	88.1	+2.1	+10.3	18.09	+1.3	+9	33.5	-.7	+5.1	51.6	+2	-4.1
Women's clothing.....	134.9	+6	+8.3	107.7	+3.9	+8.5	19.12	+3.3	-.7	32.6	+5	+4.4	55.3	+1.2	-5.8
Men's furnishings.....	130.0	-7.5	+19.6	93.3	-18.9	+14.2	13.04	-12.3	-4.5	36.1	-6.0	-1.3	32.3	-5.8	-5.9
Millinery.....	55.4	+23.3	+5.6	41.4	+41.9	+4.8	20.04	+15.0	-.8						
Shirts and collars.....	119.2	-2.9	+21.1	99.6	-11.1	+22.4	12.79	-8.4	+9	34.1	-8.3	+1.0	38.0	+8	-1.8
Leather and its manufactures.....	97.5	+3.7	+5.0	86.3	+10.2	+12.5	20.69	+6.2	+7.1	40.6	+4.0	+5.9	51.5	+1.3	+8
Boots and shoes.....	99.0	+5.3	+6.3	82.4	+15.4	+14.0	20.00	+9.6	+7.2	40.7	+5.8	+6.4	49.9	+1.5	+(2)
Food and kindred products.....	105.2	-4.9	+6.9	100.5	-4.9	+11.9	22.96	-.1	+4.6	41.3	-1.7	+2.2	55.0	+2.2	+4.6
Beverages.....	182.3	+7	+13.0	187.8	+1	+14.9	30.38	-.7	+1.7	38.4	-1.4	-5	79.8	+8	+1.5
Butter.....	80.4	-1.4	+4.3	62.4	-.8	+8.5	21.67	+7	+4.1						
Canning and preserving.....	90.4	-6.7	+6.3	86.3	-4.9	+19.7	15.49	+1.8	+12.6	37.2	+6	+11.5	42.7	+1.3	+4.9
Tobacco manufactures.....	57.1	-9.8	+4.0	47.1	-15.0	+9.5	15.27	-5.7	+5.4	35.0	-7.6	+1.3	43.5	+2.6	+4.3
Chewing and smoking tobacco and snuff.....	57.2	+1.4	-.6	63.7	-1.6	+6.4	16.68	-2.9	+7.1	36.8	-2.2	+2.6	45.5	-.7	+4.4
Cigars and cigarettes.....	57.0	-11.0	+4.5	45.1	-17.0	+10.1	14.94	-6.7	+5.5	34.8	-8.3	+1.2	43.2	+3.0	+4.2
Chemicals and allied products, and petroleum refining.....	120.2	+8	+7.5	119.4	+9	+18.9	25.91	+1	+10.6	39.4	-1.6	+2.8	66.9	+1.8	+8.2
Other than petroleum refining:															
Chemicals.....	120.4	+9	+8.7	119.4	+1.2	+20.9	23.96	+3	+11.2	40.7	-1.2	+3.6	59.7	+1.4	+8.3
Fertilizers.....	87.1	+8.3	+8.0	77.8	+8.6	+19.6	14.42	+2	+10.6	39.8	+1.8	+9.3	36.2	-1.6	+1.8
Soap.....	100.3	+1.5	+5.1	107.1	+2.7	+15.0	26.19	+1.2	+9.6	39.7	-.8	+9	66.2	+2.1	+8.6
Rubber products.....	101.3	-.6	+18.3	99.4	-5.2	+27.4	26.30	-4.6	+7.7	37.0	-5.5	+2.6	72.9	+8	+5.0
Rubber tires and inner tubes.....	92.7	+2	+22.1	94.6	-5.1	+26.9	29.83	-5.3	+3.9	33.4	-6.4	-1.6	89.3	+7	+4.3

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 $\frac{1}{10}$ of 1 percent.

Table 5.—Revised Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, January 1937—Con.

[Figures in bold face type indicate that revisions were not necessary]

Nonmanufacturing

[Indexes are based on 3-year average 1923-25=100 and are adjusted to 1933 Census of Manufactures]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index, January 1937	Percentage change from—		Index, January 1937	Percentage change from—		January 1937	Percentage change from—		January 1937	Percentage change from—		January 1937	Percentage change from—	
		De- cember 1936	January 1936		De- cember 1936	January 1936		De- cember 1936	January 1936		De- cember 1936	January 1936		De- cember 1936	January 1936
Coal mining:															
Bituminous.....	94.6	+0.9	+6.1	79.9	-6.0	+13.2	\$23.86	-6.8	+6.7	30.6	-6.5	+4.5	<i>Cents</i> 79.4	-0.1	+1.7
Public utilities:															
Electric light and power and manufactured gas.....	92.1	-1.2	+7.0	92.3	-1.6	+8.8	32.51	-.4	+1.7	39.9	-2.2	+1.3	82.0	+2.1	+1.8
Electric-railroad and motorbus operation and maintenance.....	72.5	-.1	+2.5	68.0	-2.0	+4.6	30.81	-1.9	+2.0	46.1	-1.6	+1	66.1	-.5	+2.0
Trade:															
Retail.....	85.4	-14.2	+6.2	68.0	-10.5	+9.5	21.27	+4.4	+3.1	43.9	-.8	+4	52.9	+5.2	+2.0
General merchandising.....	95.1	-33.7	+7.8	83.8	-27.8	+9.8	18.38	+8.8	+1.8	41.1	-4.2	+1	47.7	+11.9	+1.8
Other than general merchandising.....	82.9	-5.8	+5.8	64.7	-4.2	+9.5	23.70	+1.8	+3.5	44.8	-.2	+6	54.5	+1.7	+2.1

Indexes of Employment and Pay Rolls, January 1936 to March 1937

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 separately, and for 13 nonmanufacturing industries including 2 subgroups under retail trade, by months, January 1936 to March 1937, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to March 1937.

The indexes of factory employment and pay rolls are computed from returns supplied by representative establishments in 89 manufacturing industries and cover only wage earners. The base used in computing these indexes is the 3-year average 1923-25 as 100. In March 1937 reports were received from 25,331 manufacturing establishments employing 4,899,958 workers whose weekly earnings were \$125,157,284. The employment reports received from these establishments cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 89 industries included in the monthly survey of the Bureau of Labor Statistics.

The indexes for nonmanufacturing industries are also computed from data supplied by reporting establishments, but the base is the 12-month average for 1929 as 100. Figures for mining, laundries, dyeing and cleaning, and building construction cover wage earners only, but the figures for public utilities, trade, hotels, brokerage, and insurance relate to all employees, including executives. For crude-petroleum producing they cover wage earners and clerical field force.

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

EMPLOYMENT & PAY ROLLS ALL MANUFACTURING INDUSTRIES 1923=100



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, January 1936 to March 1937¹

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

Month	Manufacturing											
	Total				Durable goods ²				Nondurable goods ³			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	86.8	96.5	73.8	90.7	78.7	90.4	66.9	86.6	95.4	103.0	82.5	96.0
February.....	86.9	99.0	73.7	95.8	78.6	93.2	66.6	92.5	95.8	105.2	82.7	99.9
March.....	87.9	101.1	77.6	101.1	80.2	96.4	71.8	100.0	96.1	106.1	84.9	102.6
April.....	89.1	-----	79.3	-----	82.3	-----	76.0	-----	96.3	-----	83.5	-----
May.....	89.8	-----	80.8	-----	84.0	-----	78.5	-----	96.0	-----	83.8	-----
June.....	90.1	-----	81.1	-----	84.7	-----	79.0	-----	95.9	-----	83.9	-----
July.....	91.2	-----	80.2	-----	84.6	-----	75.9	-----	98.2	-----	85.6	-----
August.....	93.5	-----	83.5	-----	84.7	-----	77.0	-----	102.8	-----	91.8	-----
September.....	95.5	-----	83.6	-----	85.7	-----	77.2	-----	105.9	-----	91.6	-----
October.....	96.7	-----	89.0	-----	89.2	-----	85.3	-----	104.7	-----	93.7	-----
November.....	96.9	-----	90.7	-----	91.0	-----	88.9	-----	103.3	-----	92.9	-----
December.....	98.1	-----	95.2	-----	92.7	-----	93.4	-----	104.0	-----	97.5	-----
Average.....	91.9	-----	82.4	-----	84.7	-----	78.0	-----	99.5	-----	87.9	-----

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 1936 to March 1937¹

[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	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	59.1	54.1	54.4	42.7	79.8	84.6	70.6	79.9	54.2	66.8	41.7	58.4	39.4	45.7	25.5	34.6
February.....	61.2	52.7	76.7	41.0	80.2	84.8	78.4	82.4	55.5	69.6	42.8	63.4	36.9	46.7	23.9	37.8
March.....	52.5	48.9	42.6	37.8	80.4	85.9	70.2	88.4	55.9	73.1	45.1	70.6	42.2	49.1	30.9	41.3
April.....	49.8	-----	28.6	-----	77.5	-----	62.6	-----	57.5	-----	45.5	-----	48.4	-----	36.1	-----
May.....	54.9	-----	56.3	-----	76.2	-----	62.2	-----	60.8	-----	47.7	-----	52.0	-----	42.1	-----
June.....	51.2	-----	42.0	-----	75.7	-----	61.5	-----	61.9	-----	48.2	-----	53.5	-----	44.0	-----
July.....	48.4	-----	37.2	-----	75.5	-----	62.6	-----	61.3	-----	46.1	-----	54.4	-----	43.9	-----
August.....	41.1	-----	31.4	-----	76.9	-----	65.4	-----	61.6	-----	48.2	-----	55.3	-----	46.2	-----
September.....	47.6	-----	34.9	-----	78.2	-----	71.0	-----	63.1	-----	50.0	-----	54.9	-----	44.8	-----
October.....	49.9	-----	48.5	-----	81.1	-----	79.2	-----	64.2	-----	53.7	-----	54.6	-----	46.2	-----
November.....	51.5	-----	40.3	-----	82.3	-----	80.7	-----	62.9	-----	54.6	-----	52.6	-----	43.5	-----
December.....	54.8	-----	55.4	-----	83.9	-----	85.0	-----	64.4	-----	57.7	-----	49.4	-----	39.4	-----
Average.....	51.8	-----	45.7	-----	79.0	-----	70.8	-----	60.3	-----	48.4	-----	49.5	-----	38.9	-----

¹ Comparable indexes for earlier years for all of these industries, except year-round hotels, will be found in the November 1934 and subsequent issues of this pamphlet, or the February 1935 and subsequent issues of the Monthly Labor Review. Comparable indexes for year-round hotels will be found in the June 1935 issue of this pamphlet, or the September 1935 issue of the Monthly Labor Review.

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

Month	Crude-petroleum producing				Telephone and telegraph				Electric light and power, and manufactured gas				Electric-railroad and motorbus operation and maintenance ¹			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	71.1	72.7	55.7	61.0	70.1	74.4	75.0	83.8	86.1	92.1	84.8	92.3	70.7	72.5	65.0	68.0
February.....	70.8	73.5	55.7	63.8	69.9	74.8	76.2	82.3	86.1	92.0	84.7	93.3	71.7	72.5	68.3	68.7
March.....	70.9	74.3	56.0	63.7	70.2	75.4	77.2	86.9	86.8	92.2	85.9	94.5	71.2	72.6	67.8	69.2
April.....	71.3	77.1	57.1	70.8	70.8	77.0	76.0	88.0	88.0	96.2	86.2	91.3	71.3	71.3	65.9	69.2
May.....	72.7	77.0	58.0	71.6	71.6	78.5	78.5	89.0	89.0	97.0	87.0	91.0	71.5	71.5	66.1	69.2
June.....	73.7	78.9	58.9	72.1	72.1	77.4	77.4	90.4	90.4	98.1	88.1	91.7	71.7	71.7	66.8	69.2
July.....	75.4	80.4	60.4	73.1	73.1	79.9	79.9	91.7	91.7	99.8	89.8	93.1	72.4	72.4	66.5	69.2
August.....	75.0	80.4	59.7	73.5	73.5	81.2	81.2	93.1	93.1	99.8	89.8	93.1	72.4	72.4	66.5	69.2
September.....	74.5	80.4	60.4	73.7	73.7	78.8	78.8	93.5	93.5	91.4	91.4	91.4	72.8	72.8	66.4	69.2
October.....	73.6	79.6	59.6	73.8	73.8	83.1	83.1	94.0	94.0	92.7	92.7	92.7	73.1	73.1	67.7	69.2
November.....	73.2	80.1	60.1	73.7	73.7	81.6	81.6	93.5	93.5	91.8	91.8	91.8	73.0	73.0	69.7	69.2
December.....	72.4	81.3	61.3	73.6	73.6	82.4	82.4	93.2	93.2	93.8	93.8	93.8	72.5	72.5	69.3	69.2
Average.....	72.9	80.4	58.6	72.2	72.2	78.9	78.9	90.5	90.5	93.8	88.8	91.7	72.0	72.0	67.2	69.2

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	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	85.6	90.7	66.6	72.6	80.4	85.4	62.1	68.0	88.2	95.1	76.4	83.8	78.4	82.9	59.1	64.7
February.....	85.0	92.0	66.6	74.1	79.7	85.2	61.6	67.9	85.1	93.9	73.9	82.9	78.3	82.9	59.1	64.8
March.....	85.6	92.1	69.0	75.0	81.9	88.5	63.5	70.5	90.9	100.3	77.3	87.6	79.5	85.4	60.7	67.0
April.....	85.7	97.9	67.9	85.2	85.2	95.3	65.3	70.5	97.4	100.3	81.0	91.3	82.0	82.0	62.1	69.2
May.....	84.6	98.2	68.2	85.0	85.0	95.8	65.8	70.5	95.5	100.3	80.8	91.3	82.3	82.3	62.7	69.2
June.....	84.6	98.4	68.4	85.5	85.5	96.4	66.4	70.5	96.4	100.3	81.3	91.3	82.6	82.6	63.3	69.2
July.....	85.4	99.0	69.0	83.2	83.2	95.1	65.1	70.5	90.7	100.3	77.3	87.6	81.2	81.2	62.6	69.2
August.....	86.3	99.7	69.7	82.4	82.4	94.4	64.4	70.5	89.4	100.3	76.4	87.6	80.5	80.5	61.9	69.2
September.....	88.0	100.3	70.5	86.6	86.6	96.6	66.6	70.5	98.5	100.3	82.8	91.3	83.5	83.5	63.3	69.2
October.....	89.0	100.3	71.5	88.7	88.7	98.3	68.3	70.5	103.9	100.3	87.2	91.3	84.7	84.7	64.4	69.2
November.....	89.7	100.3	73.1	90.1	90.1	100.3	70.1	70.5	109.3	100.3	91.4	91.4	85.1	85.1	65.7	69.2
December.....	91.0	100.3	72.8	99.6	99.6	100.3	75.9	70.5	143.4	100.3	116.2	116.2	88.1	88.1	67.6	69.2
Average.....	86.7	100.3	69.4	85.7	85.7	96.3	66.3	70.5	99.1	100.3	83.5	91.3	82.2	82.2	62.7	69.2

Month	Year-round hotels				Laundries				Dyeing and cleaning			
	Employment		Pay rolls		Employment		Pay rolls		Employment		Pay rolls	
	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937	1936	1937
January.....	81.9	85.5	64.9	70.4	81.5	88.5	68.3	76.4	71.5	76.8	51.6	55.6
February.....	82.8	86.4	66.5	72.5	81.2	88.6	67.8	76.3	70.3	76.2	49.0	54.6
March.....	82.8	86.9	66.0	72.7	82.1	88.7	69.9	77.5	74.7	81.1	56.4	61.7
April.....	83.2	86.3	66.3	70.9	83.2	88.7	70.9	77.5	74.7	81.1	56.4	61.7
May.....	84.1	87.0	67.0	75.8	85.5	90.3	75.6	81.1	87.3	87.3	72.2	72.2
June.....	83.9	86.6	66.6	75.8	87.2	90.3	75.8	81.1	87.3	87.3	69.2	69.2
July.....	83.3	86.0	66.0	75.8	90.5	90.3	79.0	81.1	85.5	85.5	64.8	64.8
August.....	83.2	86.1	66.1	75.8	89.6	90.3	76.7	81.1	83.5	83.5	63.2	63.2
September.....	84.2	87.5	67.5	75.8	89.6	90.3	76.6	81.1	86.7	86.7	66.1	66.1
October.....	85.4	89.6	69.6	75.8	87.6	90.3	75.3	81.1	86.5	86.5	66.7	66.7
November.....	84.6	89.6	69.6	75.8	87.0	90.3	74.5	81.1	81.3	81.3	60.2	60.2
December.....	84.0	89.8	69.8	75.8	87.6	90.3	76.1	81.1	77.7	77.7	57.3	57.3
Average.....	83.6	87.2	67.2	75.8	86.1	90.3	73.9	81.1	81.2	81.2	61.7	61.7

¹ 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 1937, 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 and each of the nonmanufacturing industries presented in table 4 except building construction.

Table 8.—Comparison of Employment and Pay Rolls in Identical Establishments in February and March 1937, by Geographic Divisions and by States

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

Geographic division and State	Total—All groups					Manufacturing				
	Number of establishments	Number on pay roll March 1937	Percentage change from February 1937	Amount of pay roll (1 week) March 1937	Percentage change from February 1937	Number of establishments	Number on pay roll March 1937	Percentage change from February 1937	Amount of pay roll (1 week) March 1937	Percentage change from February 1937
				<i>Dollars</i>					<i>Dollars</i>	
New England.....	13,784	952,895	+1.1	22,415,985	+2.6	3,505	677,016	+0.9	15,620,871	+2.8
Maine.....	786	60,745	+ .5	1,283,000	+ .1	282	50,440	— (1)	1,037,537	— .7
New Hampshire.....	604	39,846	— .1	840,157	+1.4	204	32,803	— .2	671,660	+1.0
Vermont.....	474	19,095	+1.4	428,219	+2.9	145	12,646	+2.0	281,388	+3.2
Massachusetts.....	<i>8,473</i>	<i>511,119</i>	<i>+1.6</i>	<i>12,140,630</i>	<i>+2.2</i>	<i>1,695</i>	<i>316,167</i>	<i>+1.7</i>	<i>7,313,700</i>	<i>+4.0</i>
Rhode Island.....	1,278	101,342	—1.2	2,222,747	— .8	429	81,616	—2.2	1,723,278	—1.8
Connecticut.....	2,169	220,748	+1.3	5,501,232	+3.6	750	184,344	+1.4	4,593,308	+3.9
Middle Atlantic.....	34,859	2,280,792	+1.5	61,536,357	+3.7	5,224	1,280,384	+2.0	33,985,191	+4.8
New York.....	23,075	1,036,485	+2.2	29,086,989	+4.3	<i>3,079</i>	<i>472,125</i>	<i>+2.8</i>	<i>13,115,465</i>	<i>+6.2</i>
New Jersey.....	4,102	349,529	+1.0	9,159,090	+3.4	<i>4,834</i>	<i>264,220</i>	<i>+1.1</i>	<i>6,730,430</i>	<i>+3.6</i>
Pennsylvania.....	7,682	894,778	+ .7	23,290,278	+2.9	<i>2,311</i>	<i>644,039</i>	<i>+1.2</i>	<i>14,139,296</i>	<i>+3.7</i>
East North Central.....	21,754	2,361,611	+1.7	66,447,197	+4.9	7,498	1,788,123	—1.3	51,586,295	+2.3
Ohio.....	8,155	663,388	+2.0	18,633,366	+4.7	2,550	499,316	+1.6	14,529,479	+5.4
Indiana.....	<i>2,492</i>	<i>276,358</i>	<i>+ .2</i>	<i>7,398,529</i>	<i>+3.9</i>	<i>903</i>	<i>228,517</i>	<i>— .4</i>	<i>6,277,695</i>	<i>+3.9</i>
Illinois.....	<i>6,295</i>	<i>642,830</i>	<i>+2.1</i>	<i>17,106,739</i>	<i>+3.4</i>	<i>2,403</i>	<i>452,593</i>	<i>+2.2</i>	<i>12,079,105</i>	<i>+4.0</i>
Michigan.....	3,834	585,880	+1.0	18,251,331	+6.7	<i>916</i>	<i>447,811</i>	<i>—2.4</i>	<i>14,423,815</i>	<i>—5.9</i>
Wisconsin.....	<i>7,978</i>	<i>193,155</i>	<i>+3.5</i>	<i>5,062,232</i>	<i>+5.9</i>	<i>8,726</i>	<i>160,086</i>	<i>+3.2</i>	<i>4,276,201</i>	<i>+4.8</i>
West North Central.....	12,004	439,643	+2.0	10,573,849	+4.2	2,456	221,509	+1.5	5,351,891	+5.4
Minnesota.....	2,222	89,029	+2.4	2,225,301	+3.3	432	42,258	+1.4	1,059,118	+4.4
Iowa.....	1,803	66,784	+1.2	1,590,288	+3.4	426	39,306	+1.2	963,587	+4.4
Missouri.....	3,108	181,037	+2.4	4,364,546	+5.5	887	101,258	+1.8	2,386,229	+6.6
North Dakota.....	632	5,145	+2.0	121,382	—1.0	57	688	+2.4	19,763	+ .6
South Dakota.....	576	8,024	+ .1	206,184	+5.2	41	2,260	+3.1	55,442	+13.7
Nebraska.....	1,568	32,887	+2.0	767,224	+3.8	162	11,558	+1.6	280,523	+3.5
Kansas.....	<i>2,035</i>	<i>66,737</i> ¹⁰	<i>+1.0</i>	<i>1,298,924</i> ¹⁰	<i>+3.6</i>	<i>451</i>	<i>24,181</i>	<i>+ .7</i>	<i>687,229</i>	<i>+4.4</i>

See footnotes at end of table.

Table 8.—Comparison of Employment and Pay Rolls in Identical Establishments in February and March 1937, by Geographic Divisions and by States—Con.

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

Geographic division and State	Total—All groups					Manufacturing				
	Number of establishments	Number on pay roll March 1937	Percentage change from February 1937	Amount of pay roll (1 week) March 1937	Percentage change from February 1937	Number of establishments	Number on pay roll March 1937	Percentage change from February 1937	Amount of pay roll (1 week) March 1937	Percentage change from February 1937
				<i>Dollars</i>					<i>Dollars</i>	
South Atlantic	11,210	886,838	+1.8	17,937,718	+4.3	2,764	588,897	+2.0	11,048,232	+4.1
Delaware.....	201	16,093	+2.9	402,504	+4.6	84	12,339	+8.6	304,050	+6.0
Maryland.....	1,559	132,691	+2.9	5,231,528	+7.3	553	91,961	+3.1	2,258,030	+8.1
District of Columbia.....	1,089	41,730	+2.1	1,065,824	+2.4	38	3,883	+1.2	130,115	+1.7
Virginia.....	2,190	111,144	+1.0	2,212,121	+2.0	462	75,255	+8	1,476,154	+1.9
West Virginia.....	1,276	160,580	+1.9	4,203,748	+7.5	254	62,476	+2.7	1,618,615	+5.5
North Carolina.....	1,471	168,435	+8	2,673,501	+1.0	584	154,808	+1.0	2,432,239	+1.0
South Carolina.....	765	77,362	+3.0	1,156,311	+2.4	206	69,067	+2.9	1,001,087	+2.2
Georgia.....	1,557	121,882	+2.5	2,034,952	+4.4	384	94,765	+2.6	1,442,258	+4.7
Florida.....	1,102	56,921	—5	957,229	+2	199	24,343	+1.0	385,684	+3.8
East South Central	4,282	305,832	+3.7	5,819,965	+11.2	999	197,215	+3.9	3,577,374	+8.1
Kentucky.....	1,279	87,070	+6.7	1,953,336	+30.1	299	39,264	+10.1	891,635	+25.5
Tennessee.....	1,272	107,409	+2.7	1,952,130	+4.1	376	81,223	+2.8	1,425,981	+4.3
Alabama.....	1,238	95,682	+2.4	1,659,596	+3.4	243	66,806	+2.0	1,106,856	+2.8
Mississippi.....	493	15,671	+2.2	254,903	+8	81	9,922	+2.1	152,902	—8
West South Central	4,499	202,813	+1.8	4,505,356	+4.1	1,104	104,020	+1.8	2,169,792	+5.1
Arkansas.....	11,378	25,570	+1.3	419,221	+2.6	167	17,193	+5	287,701	+4.2
Louisiana.....	1,015	48,686	+1.5	926,491	+2.9	238	27,135	+2.4	462,692	+5.8
Oklahoma.....	1,353	40,651	+2.4	986,572	+4.7	143	12,086	+3.0	279,833	+6.0
Texas.....	12,753	39,906	+1.7	2,173,072	+4.8	556	47,606	+1.6	1,139,566	+4.9
Mountain	4,444	134,561	+2.9	3,585,109	+3.1	591	37,836	+5.1	984,086	+5.7
Montana.....	707	21,122	+6.1	656,373	+10.2	84	4,917	+11.2	143,628	+18.7
Idaho.....	488	9,579	+6.9	238,425	+7.5	57	2,774	+21.2	64,538	+13.4
Wyoming.....	334	9,298	+6	269,622	—4.4	41	1,660	+3.4	52,238	+4.3
Colorado.....	1,263	43,134	+1.6	1,085,642	—8	199	16,406	+3.9	432,492	+2.4
New Mexico.....	331	7,525	+1.0	172,262	—1.3	33	1,105	—3.6	18,885	—5.1
Arizona.....	487	19,528	+4.4	527,003	+6.8	41	3,068	+3.4	74,765	+2.8
Utah.....	619	21,114	+1.5	538,938	+2.9	108	6,856	+1.3	165,290	+4.1
Nevada.....	215	3,261	+2.4	96,844	+8.0	28	1,050	+4.7	32,250	+9.4
Pacific	9,765	449,856	+3.1	12,400,446	+7.6	2,570	255,163	+5.6	7,142,790	+10.6
Washington.....	3,173	101,863	+7.0	2,725,689	+11.7	567	57,315	+10.7	1,500,567	+19.1
Oregon.....	1,353	53,281	+7.2	1,354,440	+13.2	302	31,351	+11.5	761,847	+20.6
California.....	13,539	294,712	+1.2	8,320,317	+5.5	1,701	166,497	+2.9	4,880,376	+6.9

¹ Less than 1/10 of 1 percent.² Includes banks and trust companies; construction; municipal, agricultural, and office employment; amusement and recreation; professional services; and trucking and handling.³ Includes laundering and cleaning, and water, light, and power.⁴ Includes laundries.⁵ Weighted percentage change.⁶ Includes automobile, and miscellaneous services, restaurants, and building and contracting.⁷ Includes construction, but not hotels and restaurants, or public works.⁸ Does not include logging.⁹ Includes financial institutions, miscellaneous services, and restaurants.¹⁰ Percentages weighted. Agricultural figures are not included in employment and pay-roll totals nor in percentage change for pay roll, but are included in percentage change for employment.¹¹ Includes automobile dealers and garages, and sand, gravel, and building stone.¹² Includes business and personal service and real estate.¹³ Includes banks, insurance, and office employment.

Industrial and Business Employment and Pay Rolls in Principal Cities

A COMPARISON of March 1937 employment and pay rolls with the February totals in 13 cities of the United States having a population of 500,000 or over is made in table 9. The changes are computed from reports received from identical establishments in both months.

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

Table 9.—Comparison of Employment and Pay Rolls in Identical Establishments in February and March 1937, by Principal Cities

City	Number of establishments	Number on pay roll March 1937	Percentage change from February 1937	Amount of pay roll (1 week) March 1937	Percentage change from February 1937
New York, N. Y.	17, 166	723, 066	+1.9	\$20, 056, 595	+4.2
Chicago, Ill.	4, 473	494, 019	+2.0	13, 813, 717	+2.7
Philadelphia, Pa.	2, 487	231, 036	+1.6	6, 162, 341	+3.2
Detroit, Mich.	1, 630	377, 519	-4.1	12, 034, 996	-1.9
Los Angeles, Calif.	2, 795	160, 397	+ .2	4, 486, 709	+4.4
Cleveland, Ohio.	1, 759	149, 611	+5.5	4, 249, 687	+8.1
St. Louis, Mo.	1, 569	143, 408	+2.3	3, 619, 255	+5.3
Baltimore, Md.	1, 240	103, 560	+3.5	2, 595, 212	+7.9
Boston, Mass.	3, 873	194, 218	+1.4	4, 842, 947	+2.9
Pittsburgh, Pa.	1, 373	217, 479	+1.6	6, 357, 486	+3.9
San Francisco, Calif.	1, 693	91, 160	+4.5	2, 653, 924	+9.3
Buffalo, N. Y.	943	76, 679	+3.6	2, 166, 473	+7.7
Milwaukee, Wis.	638	86, 764	+4.4	2, 358, 973	+7.8

Public Employment

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

Construction projects financed by the Public Works Administration are those projects authorized by title II of the National Industrial Recovery Act of June 16, 1933. This program of public works has been extended to June 30, 1937, by the Emergency Relief Appropriation Act of 1935 and title II of the First Deficiency Appropriation Act of 1936. 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.

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

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

With the following exceptions, statistics on public employment refer to the month ending on the 15th. Employment statistics for the Federal service and for emergency conservation work refer to the number employed on the last day of the month; pay-roll data are for the entire month. The value of material orders placed for projects operated by the Works Progress Administration is a cumulative total from the beginning of the program to the end of the current calendar month and is not available on a monthly basis. Employment and pay-roll statistics on National Youth Administration work projects and Student-Aid are for the calendar month. Data on the value of material orders placed on work projects of the National Youth Administration are cumulative through the current calendar month.

Executive Service of the Federal Government

STATISTICS of employment in the executive service of the Federal Government in March 1937, February 1937, and March 1936 are given in table 10.

Table 10.—Employees in the Executive Service of the U. S. Government, March 1937, March 1936, and February 1937 ¹

[Subject to revision]

Item	District of Columbia ²			Outside District of Columbia			Entire service ²		
	Perma- nent	Tem- porary	Total	Perma- nent	Tem- porary ³	Total	Perma- nent	Tem- porary ³	Total
Number of employees:									
March 1937.....	108,788	7,747	116,535	615,132	97,915	713,047	723,920	105,662	829,582
February 1937.....	108,244	8,015	116,259	613,721	96,741	710,462	721,965	104,756	826,721
March 1936.....	105,514	7,215	112,729	597,077	94,712	691,789	702,591	101,927	804,518
Percentage change:									
February 1937 to March 1937.....	+0.50	-3.34	+0.24	+0.23	+1.21	+0.36	+0.27	+0.86	+0.35
March 1936 to March 1937.....	+3.10	+7.37	+3.38	+3.02	+3.38	+3.07	+3.04	+3.66	+3.12
Labor turn-over March 1937:									
Number of—									
Separations ⁴	940	936	1,876	8,309	14,129	22,438	9,249	15,065	24,314
Accessions ⁵	1,309	761	2,070	9,129	15,960	25,089	10,438	16,721	27,159
Turn-over rate per 100:									
Separation rate.....	0.87	11.88	1.61	1.35	14.52	3.15	1.28	14.32	2.94
Accession rate.....	1.21	9.66	1.78	1.49	16.40	3.52	1.44	15.89	3.28

¹ Data on number of employees refer to employment on last day of month.² Includes employees of Columbia Institution for the Deaf and Howard University.³ Not including field employees of Post Office Department or 42,940 employees hired under letters of authorization by the Department of Agriculture, with a pay roll of \$1,858,100.⁴ Includes 16 employees by transfer previously reported as separations, not actual additions for March.⁵ Not including employees transferred within the Government service, as such transfers should not be regarded as labor turn-over.

The monthly record of employment in the executive service of the United States Government from March 1936 to March 1937, inclusive, is shown in table 11.

Table 11.—Employment in the Executive Service of the U. S. Government, by Months, March 1936 Through March 1937 ¹

[Subject to revision]

Month	District of Co- lumbia	Outside District of Co- lumbia	Total	Month	District of Co- lumbia	Outside District of Co- lumbia	Total
<i>1936</i>				<i>1936—Continued</i>			
March.....	112,729	691,789	804,518	November.....	115,174	722,068	837,272
April.....	115,412	693,385	808,797	December.....	116,345	712,962	829,307
May.....	117,219	699,034	816,253				
June.....	117,459	705,193	822,652	<i>1937</i>			
July.....	116,250	712,557	828,807	January.....	116,259	713,924	830,183
August.....	115,796	716,579	832,375	February.....	116,259	710,462	826,721
September.....	115,050	718,990	834,040	March.....	116,535	713,047	829,582
October.....	114,783	724,361	839,144				

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

Construction Projects Financed by the Public Works Administration

DETAILS concerning employment, pay rolls, and man-hours worked during March on construction projects financed by Public Works Administration funds are given in table 12, by type of project.

Table 12.—Employment and Pay Rolls on Projects Financed From Public Works Administration Funds, March 1937 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.....	³ 32,621	30,296	\$3,009,993	3,926,879	\$0.767	\$2,332,236
Building construction.....	4,405	3,575	388,595	431,772	.900	855,751
Naval vessels.....	12,260	11,506	1,445,805	1,798,566	.804	457,867
Public roads ⁴	(⁵) 9,083	9,083	404,070	826,390	.489	350,000
Reclamation.....	1,309	1,246	157,411	181,744	.866	259,620
River, harbor, and flood control.....	4,802	4,180	549,432	603,520	.910	390,365
Streets and roads.....	101	71	5,886	7,936	.742	1,632
Water and sewerage.....	32	28	2,157	3,643	.592	1,194
Miscellaneous.....	629	607	56,637	73,308	.773	15,807
Non-Federal projects financed from N. I. R. A. funds						
All projects.....	27,023	22,594	\$2,089,605	2,266,966	\$0.922	\$3,642,810
Building construction.....	13,673	11,243	1,041,387	1,037,568	1.004	2,242,692
Railroad construction.....	126	116	2,909	4,983	.584	0
Streets and roads.....	1,357	1,106	105,004	118,384	.887	89,173
Water and sewerage.....	9,356	8,016	816,363	862,608	.946	1,044,381
Miscellaneous.....	2,511	2,113	123,942	243,423	.509	266,564
Projects financed from E. R. A. A. 1935 and 1936 funds ⁶						
All projects ⁷	113,930	96,170	\$8,254,306	10,147,405	\$0.813	\$14,486,389
Building construction ⁷	73,001	61,778	5,595,313	6,223,641	.898	9,595,307
Electrification.....	387	320	28,765	36,342	.792	72,889
Heavy engineering.....	2,826	2,293	251,544	278,569	.903	512,011
Reclamation.....	3,055	2,783	312,580	444,473	.703	349,413
River, harbor, and flood control.....	440	351	28,958	38,452	.753	30,248
Streets and roads.....	11,984	9,754	488,417	1,025,296	.476	972,883
Water and sewerage.....	21,154	17,977	1,465,964	1,997,376	.734	2,771,996
Miscellaneous.....	1,074	914	82,765	103,256	.802	181,642

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 Estimated by the Bureau of Public Roads.

⁵ Not available; average included in total.

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

⁷ Includes a maximum of 15,108 and an average of 13,512 employees working on low-cost housing projects financed from E. R. A. A. 1935 funds who were paid \$1,559,681 for 1,649,791 man-hours of labor. Material orders in the amount of \$1,911,760 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 table 12 are financed by allotments made by the Public Works Administration to the various agencies and departments of the Federal Government from funds provided under the National Industrial Recovery Act. The major portion of the low-cost housing program now under way, however, is financed by funds provided under the Emergency Relief Appropriation Act of 1935. The work is performed either by commercial firms which have been awarded contracts, or by day labor hired directly by the Federal agencies.

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

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

Monthly Trend

A SUMMARY of employment, pay rolls, and man-hours worked on projects financed from Public Works Administration funds from July 1933 to March 1937, inclusive, is given in table 13.

Table 13.—Employment and Pay Rolls, July 1933 to March 1937, Inclusive, on Projects Financed From Public Works Administration Funds ¹

(Subject to revision)

Year and month	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
July 1933 to February 1937, inclusive ^{3 4}	-----	\$897,307,982	1,346,046,679	\$0.667	\$1,592,355,328
July to December 1933, inclusive	-----	33,244,066	62,209,479	.534	75,524,702
January to December 1934, inclusive	-----	308,311,143	523,561,666	.589	610,051,090
January to December 1935, inclusive ⁴	-----	270,393,548	391,919,033	.690	439,152,426
January to December 1936, inclusive ⁴	-----	242,768,950	316,666,182	.767	401,065,634
1937					
January ³	202,175	15,439,981	18,768,676	.823	26,929,308
February ³	174,990	13,796,390	16,580,393	.832	19,170,733
March ³	173,574	13,353,904	16,341,250	.817	20,461,435

¹ Data are for the month ending on the 15th.² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work. Includes weekly average for public-road projects.³ Includes employees working on non-Federal projects financed from E. R. A. A. 1935 and 1936 funds and low-cost housing projects financed from E. R. A. A. 1935 funds. These data are also included in separate tables covering projects financed by The Works Program.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 14, by type of project.

Table 14.—Employment and Pay Rolls on Projects Financed by The Works Program, March 1937 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					
All projects.....	249,690	228,903	\$12,504,895	25,666,281	\$0.487	\$7,356,372
Building construction.....	39,737	36,274	2,399,507	3,766,606	.637	1,320,592
Electrification.....	5,623	5,440	144,252	375,900	.384	611,183
Forestry.....	27,914	25,749	1,139,008	2,639,330	.432	306,691
Grade-crossing elimination.....	17,016	13,849	931,196	1,550,403	.601	1,596,930
Heavy engineering.....	113	87	6,528	6,872	.950	1,743
Hydroelectric power plants ³	517	517	7,813	28,647	.273	1,725
Plant, crop, and livestock conservation.....	31,193	28,319	950,306	3,645,502	.261	14,234
Professional, technical, and clerical.....	15,939	15,921	1,310,523	2,179,212	.601	121,218
Public roads.....	19,250	15,892	903,306	1,805,837	.500	1,050,577
Reclamation.....	63,808	60,657	2,104,356	6,842,167	.454	1,575,122
River, harbor, and flood control.....	10,268	9,484	845,411	1,149,465	.735	488,471
Streets and roads.....	7,743	6,894	268,845	764,596	.352	47,119
Water and sewerage.....	1,435	1,368	35,825	97,519	.367	10,991
Miscellaneous.....	9,134	8,452	458,019	814,225	.563	209,776

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 These data are for projects under construction in Puerto Rico.

Table 14.—Employment and Pay Rolls on Projects Financed by The Works Program, March 1937—Continued

[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				
P. W. A. projects financed from E. R. A. A. 1935 and 1936 funds ⁴						
All projects	113, 930	96, 170	\$8, 254, 306	10, 147, 405	\$0. 813	\$14, 486, 389
Building construction.....	73, 001	61, 778	5, 595, 313	6, 223, 641	.899	9, 595, 307
Electrification.....	387	320	28, 765	36, 342	.792	72, 889
Heavy engineering.....	2, 825	2, 293	251, 544	278, 569	.903	512, 011
Reclamation.....	3, 055	2, 783	312, 580	444, 473	.703	349, 413
River, harbor, and flood control.....	449	351	28, 958	38, 452	.753	30, 248
Streets and roads.....	11, 984	9, 754	488, 417	1, 025, 296	.476	972, 883
Water and sewerage.....	21, 154	17, 977	1, 465, 964	1, 997, 376	.734	2, 771, 996
Miscellaneous.....	1, 074	914	82, 765	103, 256	.802	181, 642
Projects operated by Works Progress Administration						
All projects	2, 104, 938	-----	\$114, 688, 415	226, 101, 290	\$0. 507	(⁵)
Conservation.....	126, 173	-----	7, 026, 893	15, 743, 925	.446	-----
Highway, road, and street.....	737, 202	-----	35, 972, 820	77, 249, 236	.454	-----
Housing.....	5, 121	-----	343, 070	547, 877	.626	-----
Professional, technical, and clerical.....	223, 927	-----	16, 829, 674	25, 062, 671	.672	-----
Public building.....	173, 880	-----	11, 238, 471	17, 617, 618	.638	-----
Publicly owned or operated utilities.....	214, 566	-----	11, 635, 607	22, 199, 566	.524	-----
Recreational facilities ⁶	181, 241	-----	11, 093, 847	18, 405, 274	.603	-----
Sanitation and health.....	62, 543	-----	2, 844, 033	6, 656, 231	.427	-----
Sewing, canning, gardening, etc.....	255, 485	-----	11, 881, 166	29, 093, 106	.408	-----
Transportation.....	38, 068	-----	2, 229, 586	4, 135, 415	.539	-----
Not elsewhere classified.....	86, 732	-----	4, 493, 248	9, 390, 371	.478	-----

⁴ Includes data for 98,822 employees working on non-Federal projects and 15,108 employees working on low-cost housing projects. These data are included in tables covering projects under the jurisdiction of P. W. A.

⁵ Data on a monthly basis are not available.

⁶ Exclusive of buildings.

Statistics on employment, pay rolls, and man-hours worked on National Youth Administration work projects and Student-Aid in March are shown in table 15, by type of project.

Table 15.—Employment and Pay Rolls on National Youth Administration and Student-Aid Projects Financed by The Works Program, March 1937 ¹

[Subject to revision]

Type of program	Number of persons employed	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
Total.....	618, 235	\$6, 455, 457	19, 898, 313	\$0. 324	-----
Work projects.....	191, 569	3, 224, 944	8, 724, 840	.370	(²)
Student-Aid.....	426, 666	3, 230, 513	11, 173, 473	.289	(³)

¹ Data are for the calendar month.

² Data are not available on a monthly basis.

³ No expenditures for materials on this type of project.

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 1937, inclusive, are given in table 16.

Table 16.—Employment and Pay Rolls, July 1935 to March 1937, Inclusive, on Projects Financed by The Works Program ¹

[Subject to revision]

Month and Year	Maximum number employed ²	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
Federal projects					
July 1935 to March 1937, inclusive.....	-----	\$303, 190, 798	661, 801, 125	\$0. 458	\$198, 529, 818
July to December 1935.....	-----	36, 951, 974	80, 745, 958	. 458	34, 763, 337
January to December 1936.....	-----	225, 056, 832	496, 064, 222	. 454	141, 940, 012
1937					
January.....	328, 867	15, 652, 964	32, 064, 351	. 488	7, 595, 246
February.....	267, 525	13, 024, 133	27, 260, 313	. 478	6, 874, 851
March.....	249, 690	12, 504, 895	25, 666, 281	. 487	7, 356, 372
P. W. A. projects financed from E. R. A. A. 1935-36 funds ³					
September 1935 to March 1936, inclusive.....	-----	\$133, 354, 616	175, 159, 786	\$0. 761	\$259, 306, 338
September to December 1935.....	-----	883, 741	1, 326, 721	. 666	2, 061, 700
January to December 1936.....	-----	106, 441, 300	142, 082, 051	. 749	212, 853, 501
1937					
January.....	131, 153	9, 346, 663	11, 390, 883	. 821	16, 361, 268
February.....	115, 214	8, 428, 606	10, 212, 726	. 825	13, 543, 480
March.....	113, 930	8, 254, 306	10, 147, 405	. 813	14, 486, 389
Projects operated by Works Progress Administration ⁴					
August 1935 to March 1937, inclusive.....	-----	\$2, 101, 780, 846	4, 495, 791, 160	\$0. 467	\$648, 622, 003
August to December 1935.....	-----	170, 911, 331	367, 589, 041	. 465	-----
January to December 1936.....	-----	1, 582, 023, 819	3, 445, 582, 254	. 459	-----
1937					
January.....	2, 132, 861	118, 612, 830	231, 218, 557	. 513	-----
February.....	2, 125, 742	115, 544, 451	225, 300, 018	. 513	-----
March.....	2, 104, 938	114, 688, 415	226, 101, 290	. 507	-----

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 These data are included in tables covering projects under the jurisdiction of the Public Works Administration. The data for March include 98,822 employees working on non-Federal projects and 15,108 employees working on low-cost housing projects.

⁴ These data exclude work projects and Student-Aid of the National Youth Administration which appear in separate table.

⁵ Data on a monthly basis are not available.

Table 17 shows the employment, pay rolls, and man-hours worked on work projects of the National Youth Administration from January 1936 to February 1937, inclusive. Similar data for Student-Aid projects are shown from September 1935 to February 1937, inclusive.

Table 17.—Employment and Pay Rolls From Beginning of Program Through March 1937, Inclusive, on National Youth Administration and Student-Aid Projects Financed by The Works Program ¹

[Subject to revision]

Month and year	Number of persons employed	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed
Work projects					
January 1936 to March 1937, inclusive.....		\$38,371,395	101,328,572	\$0.379	² \$1,204,125
January to December 1936.....		28,822,196	75,659,914	.381	
<i>1937</i>					
January.....	184,686	3,084,561	8,212,091	.376	
February.....	189,228	3,239,694	8,731,727	.371	
March.....	191,569	3,224,944	8,724,840	.370	
Student-Aid					
September 1935 to March 1937, inclusive.....		\$41,150,300	135,724,873	\$0.303	(³)
September to December 1935.....		6,363,503	19,612,976	.324	
January to December 1936.....		25,640,600	84,656,382	.303	
<i>1937</i>					
January.....	389,074	2,804,693	9,549,420	.294	
February.....	408,055	3,110,991	10,732,622	.290	
March.....	426,666	3,230,513	11,173,473	.289	

¹ Data are for the calendar month.

² These data are not available on a monthly basis.

³ No expenditures for materials on this type of project.

Emergency Conservation Work

STATISTICS concerning employment and pay rolls in emergency conservation work in February and March 1937 are presented in table 18. Emergency conservation work 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 Emergency Conservation Work, February and March 1937 ¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	March	February	March	February
All groups.....	307,337	394,521	\$15,770,090	\$18,314,594
Enrolled personnel ²	257,155	345,454	7,981,431	10,746,861
Reserve officers.....	8,040	8,042	2,078,225	1,981,902
Educational advisers ³	2,134	2,135	362,470	358,426
Supervisory and technical ⁴	⁵ 40,008	⁶ 38,890	⁵ 5,347,964	⁶ 5,227,405

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

² March data include 3,597 enrollees and pay roll of \$62,789 outside continental United States; February 3,570 enrollees and pay roll of \$69,795.

³ Included in executive service, tables 10 and 11.

⁴ Includes carpenters, electricians, and laborers.

⁵ 37,695 employees and pay roll of \$5,119,664 also included in executive service, tables 10 and 11.

⁶ 37,117 employees and pay roll of \$5,082,517 also included in executive service, tables 10 and 11.

Employment and pay-roll data for emergency conservation workers are collected by the Bureau of Labor Statistics from the War Department, the Department of Agriculture, the Department of Commerce, the Treasury Department, and the Department of the Interior. The monthly pay of the enrolled personnel is distributed as follows: 5.0 percent are paid \$45; 8.0 percent, \$36; and the remaining 87.0 percent, \$30. The enrolled men, in addition to their pay, are provided with board, clothing, and medical services.

Monthly statistics of employment and pay rolls on the emergency conservation program from March 1936 to March 1937, inclusive, are given in table 19.

Table 19.—Employment and Pay Rolls in Emergency Conservation Work, by Months, March 1936 Through March 1937¹

[Subject to revision]

Month	Number of employees	Monthly pay-roll disbursements	Month	Number of employees	Monthly pay-roll disbursements
<i>1936</i>			<i>1936—Continued</i>		
March.....	354,387	\$16,924,697	October.....	402,669	\$17,292,812
April.....	389,032	17,724,292	November.....	389,122	18,232,391
May.....	405,646	18,257,959	December.....	374,744	17,382,448
June.....	381,305	17,633,925			
			<i>1937</i>		
July.....	402,368	18,064,882	January.....	407,723	18,650,537
August.....	381,425	17,475,592	February.....	394,521	18,314,594
September.....	318,707	16,005,247	March.....	307,337	15,770,090

¹ Data on number of employees refer to employment on last day of month. Amounts 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 1937¹

[Subject to revision]

Type of project	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.....	7,696	\$929,032	1,191,977	\$0.779	\$1,138,460
Bridges.....	30	3,188	2,986	1.068	-----
Building construction ³	619	42,130	75,798	.556	49,888
Reclamation.....	17	1,948	1,830	.518	442
Water and sewerage.....	6,683	849,426	1,062,774	.799	1,081,094
Miscellaneous.....	347	33,340	48,589	.686	7,036

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

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

³ Includes 55 employees, pay-roll disbursements of \$2,111, 2,498 man-hours worked, and material orders placed during the month amounting to \$6,092 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 March 1936 to March 1937, inclusive, is given in table 21.

Table 21.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, March 1936 Through March 1937^{1 2}

[Subject to revision]

Month	Number of wage earners ³	Monthly pay-roll disbursements	Number of man-hours worked during month	Average earnings per hour	Value of material orders placed during month
<i>1936</i>					
March.....	8, 134	\$916, 059	1, 193, 145	\$0. 768	\$1, 385, 640
April.....	10, 021	1, 133, 880	1, 479, 182	. 767	1, 292, 063
May.....	10, 988	962, 280	1, 244, 097	. 773	1, 441, 248
June.....	8, 501	941, 680	1, 252, 193	. 752	2, 527, 262
July.....	9, 843	1, 063, 728	1, 436, 201	. 741	2, 050, 370
August.....	9, 658	1, 065, 744	1, 441, 791	. 739	1, 314, 892
September.....	10, 290	1, 085, 642	1, 510, 109	. 719	1, 420, 444
October.....	8, 864	1, 002, 648	1, 347, 317	. 744	1, 298, 643
November.....	9, 611	1, 108, 258	1, 502, 480	. 738	3, 008, 077
December.....	9, 189	1, 106, 816	1, 514, 355	. 731	1, 433, 075
<i>1937</i>					
January.....	8, 232	968, 077	1, 300, 989	. 744	2, 329, 944
February.....	7, 299	864, 776	1, 150, 721	. 752	1, 018, 058
March.....	7, 606	929, 032	1, 191, 977	. 779	1, 138, 460

¹ Includes projects financed by RFC Mortgage Co.

² Data are for month ending on the 15th.

³ Maximum number employed during any 1 week of the month.

Construction Projects Financed From Regular Governmental Appropriations

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

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

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

Table 22.—Employment on Construction Projects Financed From Regular Governmental Appropriations, by Type of Project, March 1937 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.....	³ 120, 175	112, 432	\$11, 847, 783	16, 280, 905	\$0. 728	\$12, 820, 438
Building construction.....	23, 723	21, 030	2, 135, 557	2, 699, 266	. 791	2, 785, 308
Electrification.....	373	330	19, 731	32, 662	. 604	108, 475
Forestry.....	12	10	860	1, 366	. 630	190
Naval vessels.....	37, 758	37, 204	5, 250, 539	6, 060, 411	. 866	5, 561, 561
Public roads ⁴	(⁵)	23, 231	1, 592, 664	2, 933, 012	. 543	1, 379, 544
Reclamation.....	917	860	133, 635	176, 697	. 756	140, 381
River, harbor, and flood control.....	29, 562	25, 462	2, 432, 666	3, 915, 641	. 621	2, 469, 010
Streets and roads.....	1, 877	1, 700	89, 742	190, 095	. 472	94, 448
Water and sewerage.....	49	38	4, 626	6, 121	. 756	15, 086
Miscellaneous.....	2, 673	2, 567	187, 763	265, 634	. 707	266, 435

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 Estimated by the Bureau of Public Roads.⁵ Not available; average number included in total.

Employment, pay rolls, and man-hours worked on construction projects financed from regular governmental appropriations from March 1936 to March 1937, inclusive, are shown by months in table 23.

Table 23.—Employment on Construction Projects Financed From Regular Governmental Appropriations, March 1936 Through March 1937 ¹

(Subject to revision)

Month	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
<i>1936</i>					
March.....	49, 585	\$3, 603, 027	5, 848, 368	\$0. 616	\$6, 856, 592
April.....	61, 920	5, 207, 801	8, 589, 355	. 606	8, 812, 739
May.....	80, 988	6, 091, 936	10, 139, 783	. 601	9, 843, 405
June.....	109, 056	9, 438, 391	14, 658, 624	. 644	13, 285, 515
July.....	146, 265	14, 286, 923	21, 624, 176	. 661	25, 153, 349
August.....	165, 870	15, 341, 364	23, 151, 796	. 663	19, 288, 486
September.....	166, 902	14, 846, 961	22, 475, 820	. 661	20, 872, 551
October.....	175, 071	16, 931, 017	25, 505, 296	. 664	20, 357, 778
November.....	152, 513	13, 766, 630	20, 375, 741	. 676	16, 370, 640
December.....	144, 274	13, 491, 223	19, 164, 694	. 704	16, 009, 255
<i>1937</i>					
January.....	119, 853	11, 857, 007	16, 506, 278	. 718	11, 729, 532
February.....	112, 770	10, 904, 648	14, 735, 028	. 740	13, 613, 251
March.....	120, 175	11, 847, 783	16, 280, 905	. 728	12, 820, 438

¹ Data are for the month ending on the 15th. Revised from March through November 1936.² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.**State-Roads Projects**

A RECORD of employment and pay-roll disbursements in the construction and maintenance of State roads from March 1936 to March 1937, inclusive, is presented in table 24.

Table 24.—Employment on Construction and Maintenance of State Roads, March 1936 Through March 1937 ¹

(Subject to revision)

Month	Number of employees working on— ²			Total pay roll
	New roads	Mainte- nance	Total	
1936				
March.....	8, 150	133, 386	141, 536	\$7, 689, 770
April.....	11, 339	143, 305	154, 644	8, 918, 024
May.....	16, 566	164, 356	180, 922	10, 560, 866
June.....	20, 773	165, 363	186, 136	11, 488, 253
July.....	21, 744	164, 956	186, 700	11, 839, 215
August.....	26, 810	158, 882	185, 692	11, 937, 585
September.....	34, 459	151, 772	186, 231	11, 806, 481
October.....	34, 136	149, 717	183, 853	11, 566, 892
November.....	27, 988	153, 688	181, 676	11, 330, 509
December.....	21, 394	138, 540	159, 934	10, 000, 371
1937				
January.....	15, 622	117, 576	133, 198	8, 387, 864
February.....	11, 706	120, 786	132, 492	8, 560, 561
March.....	11, 802	119, 046	130, 848	8, 333, 600

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

² Monthly average.

Material Orders Placed

THE value of material orders placed on construction projects financed by Federal funds in the first quarter of 1937 ¹ is presented in table 25.

In the first quarter of 1937 on the Public Works Administration program, orders have been placed for materials valued at approximately \$66,561,000. Of this amount, \$18,890,000 has been expended for iron and steel products, \$3,990,000 for cement, \$5,070,000 for forest products, and \$11,510,000 for machinery.

On projects operated by the Works Progress Administration, material orders placed in the first quarter of 1937 amounted to \$66,026,000. Previous sections of this report have shown the number of workers employed at the site of construction projects financed from Federal funds. The direct employment, however, is only a partial picture, as the manufacture of the materials used on the projects also creates a large amount of employment.

It is estimated that in fabricating the materials listed in table 25 approximately 687,000 man-months of labor have been, or will be created. This includes only the labor required in the fabrication of material in the form in which it is to be used. No estimate is made of the labor required in producing the raw material or in transporting it to the point of manufacture. In manufacturing structural steel, for example, the only labor included is that occurring in the fabricating mills. No estimate is made for the labor created in mining, smelting, and transporting the ore; nor for the labor in the blast furnaces, the open hearth furnaces, and the blooming mills.

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

Table 25.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1937

[Subject to revision]

Type of material	Total	Projects				
		Public Works Administration ¹	Reconstruction Finance Corporation ²	Regular governmental ³	Federal construction under The Works Program ⁴	Operated by W. P. A.
All materials.....	\$196,772,498	\$66,561,476	\$4,486,462	\$38,163,221	\$21,535,585	\$66,025,754
Textiles and their products.....	\$ 8,968,777	118,644	1,709	67,897	21,896	\$ 8,758,631
Awnings, tents, canvas, etc.....	21,632	7,153	1,709	4,199	8,571	-----
Carpets and rugs.....	3,275	3,259	-----	16	-----	-----
Cordage and twine.....	18,779	1,955	-----	11,824	5,000	-----
Cotton goods.....	1,740	1,275	-----	116	349	-----
Felt goods.....	7,212	6,450	-----	25	737	-----
Jute goods.....	4,145	3,094	-----	85	966	-----
Linoleum.....	102,383	91,294	-----	7,793	3,296	-----
Sacks and bags.....	44,119	99	-----	42,945	1,075	-----
Upholstering materials, n. e. c.....	4,000	4,000	-----	-----	-----	-----
Waste.....	2,861	65	-----	894	1,902	-----
Forest products.....	\$17,088,283	5,070,245	89,029	2,185,513	2,409,205	\$ 7,334,291
Cork products.....	24,846	17,369	-----	6,326	1,151	-----
Lumber and timber products, n. e. c.....	7,342,301	3,452,724	86,803	1,825,044	1,977,730	-----
Planing-mill products.....	2,336,471	1,556,508	2,226	348,316	429,421	-----
Window and door screens and weatherstrip.....	50,374	43,644	-----	5,827	903	-----
Chemicals and allied products.....	\$ 3,386,872	680,741	66,927	277,985	381,082	\$ 1,980,137
Ammunition and related products.....	22,398	22,398	-----	-----	-----	-----
Chemicals, miscellaneous.....	56,514	26,125	-----	23,427	6,962	-----
Compressed and liquefied gases.....	59,617	17,872	12,533	11,004	18,208	-----
Explosives.....	547,142	192,858	53,800	128,160	172,324	-----
Paints and varnishes.....	1,891,065	421,488	594	115,394	183,588	1,170,001
Stone, clay, and glass products.....	\$49,220,744	17,362,862	2,178,174	5,163,990	4,273,403	\$20,242,315
Asbestos products, n. e. c.....	22,632	19,466	-----	1,076	2,090	-----
Brick, hollow tile, and other clay products.....	7,300,726	3,686,458	5,092	379,779	205,934	3,023,463
Cement.....	13,946,895	3,990,369	2,042,702	1,715,148	1,532,946	4,665,730
Concrete products.....	7,418,637	3,553,166	1,554	333,885	527,578	3,002,454
Crushed stone.....	4,250,655	723,488	3,649	672,201	369,578	2,481,739
Glass.....	330,924	239,905	361	54,554	36,104	-----
Lime.....	40,482	30,508	-----	4,869	5,105	-----
Marble, granite, slate, and other stone products.....	2,378,190	1,373,835	795	712,371	291,189	-----
Minerals and earth, ground or otherwise treated.....	12,283	9,357	-----	2,804	122	-----
Sand and gravel.....	8,515,669	2,240,094	120,351	1,075,657	1,009,552	4,070,015
Tiling, floor and wall, and terrazo.....	849,388	527,703	510	108,199	212,976	-----
Wall plaster, wallboard, insulating board, and floor composition.....	1,155,349	968,513	3,160	103,447	80,229	-----
Iron and steel and their products, not including machinery.....	\$45,470,461	18,890,137	775,645	7,762,049	5,970,275	\$12,072,355
Bolts, nuts, washers, etc.....	608,828	354,691	6,688	168,758	78,691	-----
Cast-iron pipe and fittings.....	6,857,424	2,600,681	72,131	331,425	205,742	3,647,445
Doors, shutters, and window sash and frames, molding and trim (metal).....	2,355,005	1,555,684	502	768,663	30,156	-----
Firearms.....	-----	-----	-----	-----	-----	-----
Forgings, iron and steel.....	807,525	168,378	4,704	530,913	103,530	-----
Hardware, miscellaneous.....	1,817,375	1,027,463	48,749	354,457	386,706	-----
Heating and ventilating equipment.....	5,213,184	3,649,740	1,820	484,402	163,939	913,283
Nails and spikes.....	255,728	123,721	1,021	42,361	88,625	-----

¹ Includes material orders placed on P. W. A. projects financed by the Emergency Relief Appropriation Acts of 1935 and 1936.

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

³ Does not include material orders placed on projects for which contracts were awarded before July 1, 1934. For quarterly period ending Mar. 31, 1937. Includes National Youth Administration projects.

⁴ Includes material orders placed for projects operated by W. P. A. which are not classified in detail.

Table 25.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1937—Continued

Type of material	Total	Projects				
		Public Works Administration	Reconstruction Finance Corporation	Regular governmental	Federal construction under The Works Program	Operated by W. P. A.
Rail fastenings, excluding spikes.....	\$9,684	\$3,071	\$531	\$4,291	\$1,791	-----
Rails, steel.....	115,600	65,559	1,300	44,137	4,564	-----
Springs, steel.....	119	119	-----	-----	-----	-----
Steel-works and rolling-mill products, n. e. c.....	4,525,758	2,184,869	70,676	1,616,854	653,359	-----
Stoves and ranges, other than electric.....	9,302	8,221	-----	436	645	-----
Structural and reinforcing steel.....	16,297,643	6,109,376	558,003	2,845,868	3,853,432	\$2,930,964
Switches, railway.....	685	-----	-----	-----	685	-----
Tools, other than machine tools.....	1,178,797	54,778	1,180	81,423	159,543	881,873
Wire products, n. e. c.....	977,911	353,781	6,902	414,080	203,148	-----
Wrought pipe.....	741,103	629,965	1,438	73,981	35,719	-----
Nonferrous metals and their products.....	\$ 1,598,230	666,188	225	371,159	209,528	\$ 351,130
Aluminum manufactures.....	143,356	87,329	-----	56,000	27	-----
Copper products.....	89,923	70,100	-----	10,949	8,874	-----
Lead products.....	34,661	31,826	10	1,901	924	-----
Nonferrous-metal alloys and products, n. e. c.....	344,886	95,134	147	245,346	4,259	-----
Sheet-metal work.....	625,945	378,695	68	51,944	195,238	-----
Zinc products.....	8,329	3,104	-----	5,019	206	-----
Machinery, not including transportation equipment.....	\$ 33,627,840	11,509,632	932,448	15,200,355	2,891,504	\$ 3,093,901
Electrical machinery, apparatus, and supplies.....	9,099,435	1,999,118	61,254	4,161,353	1,230,126	1,647,584
Elevators and elevator equipment.....	1,653,693	1,172,929	4,201	474,245	2,318	-----
Engines, turbines, tractors, and waterwheels.....	5,214,467	742,472	45,799	4,124,091	302,105	-----
Foundry and machine-shop products, n. e. c.....	15,096,866	6,646,837	820,813	5,073,703	1,182,902	1,372,611
Machine tools.....	394,994	136,350	171	191,952	66,521	-----
Meters (gas, water, etc.) and gas generators.....	114,303	114,200	-----	-----	103	-----
Pumps and pumping equipment.....	1,847,489	626,631	210	1,126,698	93,950	-----
Refrigerators and refrigerating and ice-making apparatus.....	132,887	71,095	-----	48,313	13,479	-----
Transportation equipment—air, land, and water.....	425,232	86,179	12,438	30,066	240,892	55,657
Aircraft (new).....	-----	-----	-----	-----	-----	-----
Airplane parts.....	-----	-----	-----	-----	-----	-----
Boats, steel and wooden (small).....	16,900	7,865	-----	3,997	5,038	-----
Carriages and wagons.....	9,778	7,712	-----	1,094	972	-----
Locomotives, other than steam.....	-----	-----	-----	-----	-----	-----
Locomotives, steam.....	-----	-----	-----	-----	-----	-----
Motorcycles and parts.....	-----	-----	-----	-----	-----	-----
Motor vehicles, passenger.....	118,598	1,124	1,784	6,925	108,765	-----
Motor vehicles, trucks.....	279,956	69,478	10,654	18,050	126,117	55,657
Railway cars, freight.....	-----	-----	-----	-----	-----	-----
Railway cars, mail and express.....	-----	-----	-----	-----	-----	-----
Railway cars, passenger.....	-----	-----	-----	-----	-----	-----
Miscellaneous.....	36,986,059	12,176,848	429,867	7,104,207	5,137,800	12,137,337
Belting, miscellaneous.....	8,753	8,686	-----	45	22	-----
Coal.....	581,260	55,677	552	59,783	53,228	412,020
Creosote.....	754	82	-----	101	571	-----
Electric wiring and fixtures.....	5,312,346	2,674,213	25,371	1,839,078	773,684	-----
Furniture, including store and office fixtures.....	2,844,146	1,701,096	300	108,001	45,144	989,605
Instruments, professional and scientific.....	103,783	35,389	-----	63,174	5,220	-----
Mattresses and bed springs.....	12,008	11,832	-----	176	-----	-----
Models and patterns.....	1,872	703	-----	1,093	76	-----
Paper products.....	15,136	11,797	-----	1,570	1,769	-----

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

Table 25.—Value of Material Orders Placed on Construction Projects Financed by Federal Funds for the First Quarter of 1937—Continued

Type of material	Total	Projects				
		Public Works Administration	Reconstruction Finance Corporation	Regular governmental	Federal construction under The Works Program	Operated by W. P. A.
Paving materials and mixtures, n. e. c.	\$4, 266, 078	\$486, 682	\$337	\$318, 648	\$189, 922	\$3, 270, 489
Petroleum products.	5, 500, 766	1, 105, 725	143, 663	1, 580, 452	1, 112, 581	1, 558, 345
Photographic apparatus and materials.	49, 188	22, 265	-----	25, 146	1, 777	-----
Plumbing supplies, n. e. c.	4, 148, 294	2, 374, 069	8, 179	468, 052	355, 099	942, 895
Radio apparatus and supplies.	11, 605	11, 605	-----	-----	-----	-----
Roofing materials, n. e. c.	842, 786	599, 740	2, 503	78, 768	161, 775	-----
Rubber goods.	399, 984	49, 810	29, 654	33, 321	79, 344	207, 855
Steam and other packing, pipe and boiler covering, and gaskets.	204, 571	183, 027	442	20, 254	848	-----
Theatrical scenery and stage equipment.	46, 571	46, 571	-----	-----	-----	-----
Window shades and fixtures.	62, 446	58, 783	-----	262	3, 401	-----
Other materials.	12, 573, 712	2, 739, 096	218, 866	2, 506, 283	2, 353, 339	4, 756, 128

The information concerning man-months of labor created in fabricating materials is obtained by sending a questionnaire to each firm receiving an award for materials to be financed from Federal or State funds. The manufacturer is requested to make an estimate of the number of man-hours created in his plant in manufacturing the materials specified in the contract. For materials purchased directly by contractors the Bureau estimates the man-months of labor created. This estimate is based upon the findings of the Census of Manufacturers for 1933.

The value of material orders placed on Federal professional, technical, and clerical projects financed by The Works Program, by type of material, for the first quarter of 1937, the first quarter of 1936, and the last quarter of 1936 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 1937	First quarter of 1936	Last quarter of 1936
Total.	\$290, 884	\$202, 211	\$347, 609
Computing machines.	2, 450	13, 073	5, 499
Furniture.	6, 502	12, 605	13, 074
Office supplies.	53, 158	40, 602	25, 632
Stationery.	7, 938	6, 645	12, 139
Typewriters.	7, 553	9, 354	1, 203
Other office machines.	17, 651	9, 334	948
Other materials.	103, 612	77, 218	246, 178
Rental of machinery and equipment.	92, 020	33, 380	42, 936

A cumulative total for rentals and services on projects operated by the Works Progress Administration from July 1935 to December 1936, inclusive, and for the first quarter of 1937 is shown in table 27, by type of rental and service.

Table 27.—Rentals and Services on Projects Operated by the Works Progress Administration

[Subject to revision]

Type of rental and service	July 1935 through December 1936	First quarter of 1937 ¹
All rentals and services.....	\$212, 105, 768	\$46, 150, 914
Busses and autos.....	2, 660, 632	742, 342
Teams and wagons.....	15, 660, 403	2, 202, 463
Trucks and vans.....	115, 957, 483	22, 734, 107
Other transportation and travel.....	4, 651, 823	1, 183, 674
Paving, road building, and other construction equipment.....	54, 855, 178	13, 532, 815
Other equipment (including office equipment).....	5, 844, 836	685, 243
Space rentals and services.....	5, 812, 968	2, 043, 446
Other services (including utilities).....	6, 662, 445	3, 026, 824

¹ Quarterly period ending Mar. 31, 1937.

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.

Table 28 shows the cumulative value of public contracts awarded under the act for materials from September 28, 1936, to December 1936, inclusive, and for the first quarter of 1937. The first public contracts were awarded under the act in September 1936.

Table 28.—Value of Supply Contracts Awarded by the Federal Government Which Contain Agreements to Comply With the Public Contracts Act, by Industrial Groups and Type of Material

[Subject to revision]

Type of materials	Value of contracts awarded	
	Sept. 28, 1936, through Dec. 1936	First quarter 1937
All materials.....	\$39, 732, 359	\$75, 203, 441
Food and kindred products.....	1, 425, 903	4, 053, 504
Canned fruits and vegetables.....	74, 377	265, 654
Cereal preparations.....	12, 860	26, 826
Coffee.....	92, 103	633, 803
Condensed and evaporated milk.....	60, 313	329, 639
Feeds, prepared, for animals and fowls.....	178, 897	392, 322
Flour and other grain-mill products.....	238, 930	197, 533
Meat-packing products.....	331, 905	367, 443
Shortenings and vegetable cooking oil.....	205, 364	98, 855
Sugar.....	130, 514	414, 187
Tea.....	16, 421	
Miscellaneous subsistence stores and supplies.....	84, 219	1, 327, 242

Table 28.—Value of Supply Contracts Awarded by the Federal Government Which Contain Agreements to Comply With the Public Contracts Act, by Industrial Groups and Type of Material—Continued

[Subject to revision]

Type of materials	Value of contracts awarded	
	Sept. 28, 1936, through Dec. 1936	First quarter 1937
Textiles and their products.....	\$6,501,319	\$34,127,602
Canvas bags and covers.....	68,811	286,697
Clothing (overcoats, suits, trousers, etc.).....	47,500	1,188,794
Cordage and twine, including thread.....	30,940	182,853
Cotton gloves.....	9,999	243,516
Cotton goods (drills, prints, sheeting, etc.).....	4,205,292	4,508,608
Cotton shirts.....	312,758	420,241
Furnishing goods, men's, n. e. c.....	1,007,447	367,584
House-furnishing goods (pillow cases, sheets, etc.).....	301,435	2,857,826
Knit goods (hosiery, underwear, etc.).....	34,350	1,942,308
Oil cloth.....	10,350	.....
Woolen goods (flannel, suiting, etc.).....	330,544	19,381,813
Work clothing.....	95,345	1,972,042
Miscellaneous textile products.....	46,548	780,320
Forest products.....	794,451	822,271
Cork and cork products.....	15,873	.....
Furniture.....	36,460	47,378
Lumber and timber products, n. e. c.....	377,345	462,912
Planing-mill products.....	181,729	165,638
Treated lumber and timber.....	183,044	130,297
Miscellaneous forest products.....	.....	16,046
Paper and allied products.....	2,312,404	210,195
Blueprint paper.....	11,209	.....
Ledger paper.....	62,321	.....
Paper towels.....	18,872	.....
Miscellaneous paper products.....	2,220,062	210,195
Chemicals and allied products.....	992,535	1,172,470
Ammunition and related products.....	60,971	37,044
Compressed and liquefied gases.....	.....	32,080
Explosives.....	498,585	114,105
Fertilizer.....	57,567	.....
Linseed oil.....	52,063	122,134
Paints and varnishes.....	67,135	205,427
Soap and soap chips.....	74,644	303,613
Miscellaneous chemicals.....	180,970	358,067
Products of asphalt, coal, and petroleum.....	11,201,280	5,061,152
Asphalt, oil, tar, and mixtures.....	1,350,648	517,909
Coal.....	29,746	24,659
Coke.....	11,335	.....
Fuel oil and lubricating oil.....	5,123,845	1,715,759
Gasoline.....	4,660,206	2,781,825
Miscellaneous coal and petroleum products.....	25,500	21,000
Leather and its manufactures.....	1,237,698	3,105,231
Belting leather.....	15,203	.....
Boots and shoes.....	1,026,156	2,939,380
Boot and shoe cut stock.....	.....	15,077
Boot and shoe findings.....	26,106	.....
Gloves.....	38,882	38,319
Shoe upper leather.....	90,325	112,455
Miscellaneous leather goods.....	41,026	.....
Stone, clay, and glass products.....	3,184,097	2,255,695
Brick.....	115,883	45,500
Cement.....	855,820	1,018,284
Concrete pipe.....	517,767	231,921
Concrete, ready mixed.....	220,697	240,093
Crushed stone.....	422,876	149,628
Dirt fill.....	40,000	.....
Glass.....	72,315	16,397

Table 28.—Value of Supply Contracts Awarded by the Federal Government Which Contain Agreements to Comply With the Public Contracts Act, by Industrial Groups and Type of Material—Continued

[Subject to revision]

Type of materials	Value of contracts awarded	
	Sept. 28, 1936, through Dec. 1936	First quarter 1937
Marble and granite.....	\$56,001	\$15,119
Minerals and earths.....	13,662	-----
Riprap stone.....	75,900	46,980
Sand and gravel.....	173,759	124,731
Soil, black, earth.....	448,900	63,384
Terra cotta.....	103,400	-----
Tile, clay.....	16,155	59,896
Tile, drain.....	11,711	19,010
Vitrified clay and terra cotta pipe.....	39,161	85,366
Miscellaneous stone, clay, and glass products.....	-----	139,386
Iron and steel and their products, not including machinery.....	2,788,039	4,107,583
Cast-iron pipe and fittings.....	179,712	220,453
Fencing materials.....	60,879	31,985
Forgings, iron and steel.....	114,209	579,845
Hardware, miscellaneous.....	-----	51,256
Metal doors, sash, and frames.....	11,270	44,559
Metal furniture.....	153,430	115,156
Metal shingles.....	29,750	-----
Ornamental metalwork.....	17,600	-----
Pipe and fittings.....	73,668	-----
Plumbing fixtures.....	35,325	-----
Rails, steel.....	114,564	-----
Railway tie plates.....	20,690	-----
Reinforcing bars.....	164,069	110,123
Steel pipe.....	290,096	35,670
Steel sheets, plates, shapes, and strips.....	180,935	1,089,124
Structural steel, fabricated, and sheet steel piling.....	526,301	734,695
Tools, other than machine tools.....	148,191	42,986
Wire rope.....	111,436	314,536
Miscellaneous iron and steel products.....	545,914	737,195
Nonferrous metals and their alloys.....	370,023	1,720,297
Aluminum manufactures.....	90,733	87,700
Brass.....	-----	191,887
Bronze.....	80,250	15,270
Copper.....	61,320	577,239
Lead.....	-----	12,874
Magnesium.....	-----	23,892
Nickel.....	50,250	-----
Plated ware.....	-----	28,130
Sheet-metal work.....	12,803	54,978
Tin.....	-----	311,558
Zinc.....	-----	12,348
Miscellaneous nonferrous metals and alloys.....	74,667	404,421
Machinery, not including transportation equipment and electrical equipment.....	1,572,719	6,064,058
Air-conditioning equipment.....	18,800	57,500
Engines, turbines, tractors, and parts.....	607,085	777,968
Filter-room equipment.....	39,331	-----
Laundry machinery and equipment.....	37,977	61,265
Machine tools.....	145,839	472,348
Phonographs and accessories.....	-----	16,060
Power shovels and draglines.....	54,055	476,045
Printing machinery.....	-----	69,081
Pumps and pumping equipment.....	397,577	836,280
Refrigerators.....	-----	35,355
Road machinery.....	26,640	42,024
Windlasses, hawsers, etc.....	94,779	30,108
Miscellaneous machinery and parts.....	150,636	3,190,084
Electrical machinery, apparatus, and supplies.....	2,358,636	4,957,537
Batteries.....	39,933	1,043,031
Cable and insulated wire.....	607,040	1,875,843
Circuit breakers.....	41,356	-----
Electric dynamometer.....	13,105	-----

Table 28.—Value of Supply Contracts Awarded by the Federal Government Which Contain Agreements to Comply With the Public Contracts Act, by Industrial Groups and Type of Material—Continued

[Subject to revision]

Type of materials	Value of contracts awarded	
	Sept. 28, 1936, through Dec. 1936	First quarter 1937
Electric motors.....	\$25,020	\$11,694
Electric heaters and ranges.....	39,078	108,021
Electric starters.....	40,998	-----
Electric valves.....	11,585	-----
Electric welding equipment.....	115,102	-----
Generators and spare parts.....	1,009,473	299,684
Lighting equipment.....	182,094	372,116
Radio equipment and supplies.....	82,287	852,197
Spark plugs.....	12,000	40,386
Switchboards.....	11,467	41,550
Transformers.....	96,727	41,206
Transmitters, shaft, master indicators.....	18,895	-----
Miscellaneous electrical machinery, apparatus, and supplies.....	12,496	271,809
Transportation equipment.....	3,399,060	5,651,403
Aircraft.....	785,519	88,018
Aircraft parts and equipment.....	2,388,813	3,457,059
Boats (lifeboats).....	-----	39,359
Dump wagons.....	14,450	-----
Motor vehicles, passenger.....	100,242	507,622
Motor vehicles, trucks.....	97,411	1,559,345
Trucks, n. e. c.....	12,625	-----
Miscellaneous.....	1,594,135	1,894,443
Brooms, brushes, bristles, etc.....	127,536	220,155
Cafeteria equipment.....	18,633	-----
Instruments, professional and scientific.....	726,726	417,893
Laboratory equipment.....	16,263	-----
Oyster shell.....	31,150	-----
Photographic apparatus and material.....	33,000	184,192
Printing and publishing.....	396,825	273,741
Rubber products.....	41,529	264,046
Slag.....	87,675	-----
Other materials.....	114,798	534,416

The value of public contracts awarded for materials by Federal agencies totaled \$39,732,000 in 1936 and amounted to \$75,203,000 during the first quarter of 1937. Of the contracts awarded in the first quarter of 1937, \$34,128,000 was for textiles and textile products, \$6,064,000 for machinery not including transportation and electrical equipment, and \$5,651,000 for transportation equipment.

