

UNITED STATES DEPARTMENT OF LABOR

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BUREAU OF LABOR STATISTICS

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TREND OF EMPLOYMENT

JUNE 1933



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# TREND OF EMPLOYMENT

June 1933

THE Bureau of Labor Statistics of the United States Department of Labor presents in the following tables, data compiled from pay-roll reports supplied by cooperating establishments in 17 of the important industrial groups of the country and covering the pay period ending nearest the 15th of the month.

Information for each of the 89 separate manufacturing industries and for the manufacturing industries combined is shown, following which are presented tabulations showing the changes in employment and pay rolls in the 16 nonmanufacturing groups included in the Bureau's monthly survey, together with information available concerning employment in the executive Civil Service and on class I railroads.

## Employment in Selected Manufacturing Industries in June 1933

Comparison of Employment and Pay-Roll Totals in June 1933 with May 1933 and June 1932

EMPLOYMENT in manufacturing industries increased 7 percent in June 1933 as compared with May 1933 and pay-roll totals increased 10.8 percent over the month interval. Comparing June 1933 with June 1932, increases of 9.2 percent in employment and 9.7 percent in pay-roll totals are shown over the 12-month period.

The index of employment in June 1933 was 62.8 as compared with 58.7 in May 1933, 56 in April 1933, and 57.5 in June 1932; the pay-roll index in June 1933 was 43.1 as compared with 38.9 in May 1933, 34.9 in April 1933, and 39.3 in June 1932. The 12-month average for 1926 equals 100.

The percents of change in employment and pay-roll totals in June 1933 as compared with May 1933 are based on returns made by 17,952 establishments in 89 of the principal manufacturing industries in the United States, having in June 2,802,711 employees whose combined earnings in one week were \$50,408,132.

The gains of 7 percent in factory employment and 10.8 percent in pay rolls in June mark the third consecutive month in which both employment and earnings have increased. The increase in employment in June combined with the increases of 1.6 percent in April and 4.8 percent in May represents a gain of 14 percent in employment since the bank holiday in March. These combined increases have brought the level of employment in June to the highest point reached in the last 15 months and for the first time since October 1929 indicate more workers on manufacturing-establishment pay rolls in the current month than were employed in the corresponding month of the

preceding year. The June 1933 employment index, however, is still 36.8 percent below the level of June in the index base year 1926. The increase of 10.8 percent in pay rolls in June combined with the increase of 4.5 percent in April and 11.5 percent in May represents a total increase of 29 percent over the March low and brings the June 1933 pay-roll index to a point 9.7 percent above the level of June 1932. The pay-roll index in June 1933 remains 56.8 percent below the level of the June 1926 pay-roll index.

The broadness of the current expansion is indicated by the increases in employment in 79 of the 89 separate manufacturing industries surveyed, while 80 industries reported increases in pay rolls over the month interval. The 10 industries in which decreased employment was reported between May and June were industries usually affected by seasonal decreases at this period.

Thirteen of the fourteen groups into which these 89 manufacturing industries are classified, reported gains in employment and pay rolls over the month interval, the lumber-products group reporting the most pronounced gain, 13 percent, due to increases of 15.1 percent in employment in sawmills, 10.8 percent in furniture, and 9.6 percent in millwork. The stone-clay-glass and the rubber-products group reported gains in employment of 11.7 percent each. In the stone-clay-glass group, the brick and cement industries reported gains in employment of nearly 15 percent and the marble-slate-granite industry reported a slightly larger gain. In the rubber-products group, the most pronounced gain was in the rubber tire and tube industry which reported an increase of 14.7 percent in number of workers over the month interval coupled with an increase of 26.4 percent in pay rolls. The textile-products group reported an increase of 10.1 percent in employment and 16.1 percent in pay rolls, the largest gain in employment in this group being reported in the woolen and worsted goods industry (23.3 percent). The cotton-goods industry reported a gain in employment of 15.7 percent, knit goods 7.8 percent, and silk and rayon goods, 4.9 percent. In the wearing-apparel division of the textile group gains in employment of 8.1 percent and 9.7 percent were reported in the men's clothing and the shirt and collar industries, respectively, while the women's clothing and the millinery industries both reported seasonal declines. The combined totals of the industries comprising the iron and steel group showed gains of 9.8 percent in employment and 22 percent in pay rolls, each of the 13 industries in this group reporting substantial increases in employment coupled with more pronounced gains in earnings. The cast-iron pipe industry reported the greatest increase in employment (19.9 percent) and the iron and steel industry reported a gain of 9.6 percent in employment coupled with an increase of 25.1 percent in pay rolls. The machinery group, under which heading is classified such important industries as agricultural implements, electrical machinery, foundries and machine shops, machine tools, radio, and textile machinery, reported an increase of 8.1 percent in employment, the gains in employment in these separate industries ranging from 5.3 percent in the electrical-machinery industry to 15.6 percent in the textile-machinery industry. The nonferrous metal group reported an increase of 7.3 percent and the transportation group reported a gain of 6.4 percent. In this last-named group, the automobile industry reported increases of 8 percent in employment and 7.1 percent in earnings. The leather-

products group reported an increase of 4.4 percent in employment from May to June due to the combined increases of 10 percent in the leather industry and 2.9 percent in the boot and shoe industry. The food group reported a gain of 4 percent in number of employees, the beverage industry in this group continuing to report substantial additions to its already greatly expanded total. The level of employment in the beverage industry in June 1933 measured by changes in the Bureau's indexes is 95.9 percent above the level of the corresponding month of 1932, due almost entirely to legalizing the manufacture of beer. This is not the only industry in which expansions of large proportions have occurred over the year interval, although in the beverage industry the expansion represents the addition of new workers to the industry, while in the woolen-goods industry, for instance, in which employment shows a gain of 89.6 percent from June 1932 to June 1933, the gain represents a return of employees to plants previously operated due to recently increased activity. In this 12-month comparison, the cotton-goods industry also shows an increase in employment of nearly 60 percent and the rayon industry shows a gain of 65.8 percent in employment over the year interval. The radio and the silk-goods industries both show increases of 44 percent over the year interval and 13 additional industries showed increases of more than 20 percent in employment. In 31 of the 89 industries the level of employment in June 1933 was still below the level of June 1932.

In table 1, which follows, are shown the number of identical establishments reporting in both May and June 1933 in the 89 manufacturing industries, together with the total number of employees on the pay rolls of these establishments during the pay period ending nearest June 15, the amount of their earnings for 1 week in June, the percents of change over the month and year intervals, and the indexes of employment and pay roll in June 1933.

The monthly percents of change for each of the 89 separate industries are computed by direct comparison of the total number of employees and of the amount of weekly pay roll reported in identical establishments for the 2 months considered. The percents of change over the month interval in the several groups and in the total of the 89 manufacturing industries are computed from the index numbers of these groups, which are obtained by weighting the index numbers of the several industries in the groups by the number of employees or wages paid in the industries. The percents of change over the year interval in the separate industries, in the groups and in the totals are computed from the index numbers of employment and pay-roll totals.

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN JUNE 1933 WITH MAY 1933 AND JUNE 1932

Industry	Establishments reporting in both May and June 1933	Employment		Pay-roll totals				Index numbers (average 1926=100)	
		Number on pay roll June 1933	Percent of change		Amount of pay roll (1 week) June 1933	Percent of change		Employment	Pay-roll totals
			May to June 1933	June 1932 to June 1933		May to June 1933	June 1932 to June 1933		
<b>Food and kindred products</b>	<b>3,013</b>	<b>252,449</b>	<b>+4.0</b>	<b>+6.9</b>	<b>\$5,157,093</b>	<b>+3.9</b>	<b>-0.3</b>	<b>86.5</b>	<b>69.7</b>
Baking.....	960	59,379	+1.4	-3.8	1,257,218	+1.9	-10.8	79.3	63.7
Beverages.....	357	23,073	+18.1	+95.9	670,232	+14.8	+102.7	160.8	151.6
Butter.....	317	6,058	+7.8	-1.4	124,259	+5.9	-14.9	102.0	75.7
Confectionery.....	318	33,225	-7	+12.9	414,022	-4.7	-5.1	73.6	48.6
Flour.....	420	15,513	-1.4	(1)	308,967	-5.4	-8.3	82.8	62.6
Ice cream.....	323	11,907	+15.8	-7.9	301,881	+15.6	-17.1	78.0	58.8
Slaughtering and meat packing.....	250	93,092	+3.2	+4.8	1,877,733	+4.3	-1.4	90.3	72.6
Sugar, beet.....	57	4,089	+12.1	+23.2	84,327	+6.9	+1.4	48.9	36.2
Sugar refining, cane.....	11	6,113	+5	+4.8	148,454	+1.0	+3.1	78.3	68.8
<b>Textiles and their products</b>	<b>3,135</b>	<b>703,965</b>	<b>+10.1</b>	<b>+37.7</b>	<b>9,176,541</b>	<b>+16.1</b>	<b>+49.7</b>	<b>80.7</b>	<b>52.7</b>
<b>Fabrics.....</b>	<b>1,894</b>	<b>574,419</b>	<b>+13.3</b>	<b>+47.0</b>	<b>7,506,648</b>	<b>+21.2</b>	<b>+65.1</b>	<b>85.4</b>	<b>60.1</b>
Carpets and rugs.....	27	11,842	+15.5	+13.7	207,823	+28.7	+61.5	59.1	42.3
Cotton goods.....	651	279,784	+15.7	+59.8	3,109,403	+24.6	+84.9	91.7	65.1
Cotton small wares.....	113	10,146	+9.9	+24.6	154,215	+12.8	+38.6	89.2	66.4
Dyeing and finishing textiles.....	152	36,249	+5.0	+13.3	678,283	+9.1	+21.6	81.0	60.2
Hats, fur-felt.....	35	5,451	+1.9	+21.5	104,884	+20.4	+58.1	68.5	43.8
Knit goods.....	438	112,378	+7.8	+19.4	1,448,570	+10.4	+21.4	89.2	59.6
Silk and rayon goods.....	242	47,507	+4.9	+44.9	605,924	+10.1	+57.8	59.7	39.3
Woolen and worsted goods.....	236	71,062	+23.3	+89.6	1,197,546	+37.1	+121.2	93.3	72.1
<b>Wearing apparel.....</b>	<b>1,241</b>	<b>129,446</b>	<b>+1.5</b>	<b>+16.1</b>	<b>1,669,893</b>	<b>+2.4</b>	<b>+15.9</b>	<b>69.4</b>	<b>35.0</b>
Clothing, men's.....	398	63,908	+8.1	+25.0	813,116	+18.5	+42.5	69.9	36.9
Clothing, women's.....	476	25,854	-8.1	+5.2	368,771	-13.8	-7.4	68.2	33.9
Corsets and allied garments.....	34	5,719	+3	+1.8	82,196	+1.7	+8.2	100.8	77.5
Men's furnishings.....	76	7,844	+7.9	+10.9	87,960	+13.3	+4.8	63.0	37.4
Millinery.....	139	9,690	-3.6	-23.5	147,058	-4.3	+20.5	68.8	42.4
Shirts and collars.....	118	16,431	+9.7	+18.4	170,792	+19.1	+26.1	65.1	43.0
<b>Iron and steel and their products, not including machinery</b>	<b>1,368</b>	<b>326,734</b>	<b>+9.8</b>	<b>+6.6</b>	<b>5,870,338</b>	<b>+22.0</b>	<b>+33.8</b>	<b>58.5</b>	<b>36.0</b>
Bolts, nuts, washers, and rivets.....	70	9,672	+12.6	+13.9	175,708	+30.0	+32.5	73.0	47.3
Cast-iron pipe.....	36	4,713	+19.9	-6.1	60,575	+21.7	-8.0	29.4	16.1
Cutlery (not including silver and plated cutlery) and edge tools.....	129	8,698	+4.1	-12.0	159,994	+12.8	-10.1	60.6	41.7
Forgings, iron and steel.....	65	6,046	+12.4	+8.4	111,483	+23.6	+26.5	63.1	39.2
Hardware.....	106	21,861	+8.2	+4	327,161	+19.8	+9.7	52.6	29.5
Iron and steel.....	205	199,580	+9.0	+8.2	3,657,410	+25.1	+54.1	59.4	35.9
Plumbers' supplies.....	68	8,469	+15.4	+21.2	157,404	+24.4	+39.1	77.1	51.9
Steam and hot-water heating apparatus and steam fittings.....	93	14,649	+8.8	+18.7	264,566	+15.3	+22.4	40.0	25.1
Stoves.....	159	17,843	+9.6	+15.3	328,444	+14.8	+33.9	53.4	33.6
Structural and ornamental metalwork.....	182	12,904	+3.7	-17.4	196,593	+5.9	-22.5	39.4	21.0
Tin cans and other tinware.....	60	9,102	+6.9	+2.9	181,805	+10.2	+7.5	78.9	50.3
Tools (not including edge tools, machine tools, files, and saws).....	128	7,003	+8.8	-3.5	124,954	+28.9	+6.4	63.0	40.0
Wirework.....	67	6,194	+12.2	+11.3	124,241	+21.1	+32.8	104.3	87.5
<b>Machinery, not including transportation equipment</b>	<b>1,771</b>	<b>266,298</b>	<b>+8.1</b>	<b>-3.8</b>	<b>5,135,608</b>	<b>+15.9</b>	<b>+2.3</b>	<b>48.2</b>	<b>31.3</b>
Agricultural implements.....	75	6,844	+8.9	+25.3	116,275	+18.2	+32.3	27.7	21.7
Cash registers, adding machines, and calculating machines.....	38	13,768	+9.3	-7	338,193	+11.3	+12.6	70.6	53.5

<sup>1</sup> No change.

**TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN JUNE 1933 WITH MAY 1933 AND JUNE 1932—Continued**

Industry	Estab- lish- ments report- ing in both May and June 1933	Employment		Pay-roll totals				Index num- bers (average 1926=100)	
		Number on pay roll June 1933	Percent of change		Amount of pay roll (1 week) June 1933	Percent of change		Em- ploy- ment	Pay- roll totals
			May to June 1933	June 1932 to June 1933		May to June 1933	June 1932 to June 1933		
<b>Machinery, not includ- ing transportation equipment—Continued.</b>									
Electrical machinery, apparatus, and sup- plies.....	282	90,885	+5.3	-16.4	\$1,881,544	+10.9	-10.5	49.8	36.6
Engines, turbines, trac- tors, and water wheels.....	91	16,210	+10.0	-5.8	335,388	+16.7	+1.1	42.4	27.9
Foundry and machine- shop products.....	1,044	100,837	+8.2	-9	1,788,699	+18.7	+4.6	46.5	27.3
Machine tools.....	145	10,753	+12.1	-9.6	213,708	+30.3	-5	31.2	20.2
Radios and phono- graphs.....	29	11,313	+13.3	+44.1	177,796	+5.2	+21.3	92.1	65.5
Textile machinery and parts.....	50	7,688	+15.6	+20.2	161,059	+40.8	+72.3	62.5	47.2
Typewriters and sup- plies.....	17	8,000	-2.0	-8.3	122,946	+4.2	+3	54.0	31.7
<b>Nonferrous metals and their products.</b>	<b>599</b>	<b>79,667</b>	<b>+7.3</b>	<b>+3.9</b>	<b>1,416,606</b>	<b>+12.6</b>	<b>+11.9</b>	<b>55.8</b>	<b>38.5</b>
Aluminum manufac- tures.....	27	5,319	+5.7	+11.8	93,849	+12.1	+47.7	52.2	35.3
Brass, bronze, and cop- per products.....	177	26,187	+11.9	+11.2	498,639	+19.5	+30.9	57.7	40.2
Clocks and watches and time-recording devices.....	27	7,327	+12.0	-5.9	99,002	+21.8	-8.4	40.0	23.9
Jewelry.....	133	7,340	+6.5	+6	128,826	+6.9	(1)	36.0	22.9
Lighting equipment.....	51	2,741	+7.2	-5.4	50,652	+14.2	-5.7	64.8	47.8
Silverware and plated ware.....	51	7,311	+1.9	-7	130,135	+5.6	+1.9	60.2	37.0
Smelting and refining— copper, lead, and zinc.....	44	9,932	+6	-6.1	194,047	+6.0	-3.7	56.8	38.6
Stamped and enameled ware.....	89	13,510	+7.6	+8.6	221,456	+10.8	+6.9	67.1	43.4
<b>Transportation equip- ment.</b>	<b>407</b>	<b>227,422</b>	<b>+6.4</b>	<b>-15.4</b>	<b>5,166,260</b>	<b>+5.7</b>	<b>-12.6</b>	<b>49.9</b>	<b>39.0</b>
Aircraft.....	24	6,652	+2.6	+27.8	183,909	+3	+15.1	251.2	233.1
Automobiles.....	234	192,625	+8.0	-13.4	4,439,784	+7.1	-8.1	52.8	42.1
Cars, electric and steam railroad.....	42	4,170	-13.3	-20.0	62,817	-19.7	-33.6	15.2	7.5
Locomotives.....	11	1,491	+7.8	-41.1	28,062	+9.9	-52.4	10.6	6.8
Shipbuilding.....	96	22,484	+1.0	-31.5	451,688	+(2)	-40.2	57.5	39.6
<b>Railroad repair shops.....</b>	<b>899</b>	<b>86,965</b>	<b>-2.6</b>	<b>-6.8</b>	<b>2,004,699</b>	<b>-2.0</b>	<b>-8.9</b>	<b>45.0</b>	<b>34.9</b>
Electric railroad.....	391	20,123	-1.0	-9.2	500,672	-2.5	-18.2	63.0	49.8
Steam railroad.....	508	66,842	-2.7	-6.6	1,504,027	-2.0	-7.7	43.6	33.7
<b>Lumber and allied prod- ucts.</b>	<b>1,541</b>	<b>126,789</b>	<b>+13.0</b>	<b>+5.6</b>	<b>1,634,603</b>	<b>+20.7</b>	<b>+3.3</b>	<b>39.9</b>	<b>21.6</b>
Furniture.....	447	44,532	+10.8	+12.8	599,300	+17.8	+16.7	48.5	25.8
Lumber:									
Millwork.....	460	18,410	+9.6	-5	264,307	+16.1	-5.4	36.3	21.1
Sawmills.....	610	62,480	+15.1	+3.1	754,322	+25.1	-5	36.9	19.2
Turpentine and rosin.....	24	1,367	+12.7	+14.5	16,674	+6.4	+5.2	50.4	38.3
<b>Stone, clay, and glass products.</b>	<b>1,311</b>	<b>95,362</b>	<b>+11.7</b>	<b>+5.7</b>	<b>1,593,451</b>	<b>+16.8</b>	<b>+3.0</b>	<b>46.0</b>	<b>27.8</b>
Brick, tile, and terra cotta.....	663	18,484	+14.5	-7.0	221,885	+27.4	-10.9	27.7	12.3
Cement.....	124	15,336	+14.9	+2.9	260,439	+19.0	-12.0	42.7	23.4
Glass.....	191	41,479	+10.0	+22.1	786,738	+13.2	+20.5	70.6	52.9
Marble, granite, slate, and other products.....	216	4,850	+17.2	-8.8	91,246	+24.8	-16.5	38.4	22.7
Pottery.....	117	15,213	+5.1	+6.4	233,143	+11.6	+10.4	61.8	34.9

<sup>1</sup> No change.

<sup>2</sup> Less than one tenth of 1 percent.

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN JUNE 1933 WITH MAY 1933 AND JUNE 1932—Continued

Industry	Estab- lish- ments report- ing in both May and June 1933	Employment		Pay-roll totals				Index num- bers (average 1926=100)	
		Number on pay roll June 1933	Percent of change		Amount of pay roll (1 week) June 1933	Percent of change		Em- ploy- ment	Pay- roll totals
			May to June 1933	June 1932 to June 1933		May to June 1933	June 1932 to June 1933		
<b>Leather and its manu- factures</b> .....	483	139,164	+4.4	+13.2	\$2,297,320	+13.0	+27.9	78.9	55.5
Boots and shoes.....	330	111,861	+2.9	+10.1	1,753,439	+11.6	+24.0	78.5	52.7
Leather.....	153	27,303	+10.0	+26.7	543,881	+17.4	+40.3	80.3	65.4
<b>Paper and printing</b> .....	1,934	211,370	+1.9	-1.3	5,034,286	+2.7	-8.6	78.9	61.9
Boxes, paper.....	316	21,427	+6.6	+6.5	376,913	+10.0	+6.2	73.6	61.4
Paper and pulp.....	389	78,527	+3.4	+5.5	1,463,641	+7.7	+8.4	77.3	54.1
Printing and publish- ing:									
Book and job.....	764	43,403	+1.1	-10.3	1,085,045	+7.6	-16.9	67.4	52.2
Newspapers and periodicals.....	465	68,013	-.3	-1.5	2,108,687	-1.1	-12.3	96.2	77.5
<b>Chemicals and allied products</b> .....	1,101	152,788	+2.1	+13.9	3,428,132	+5.6	+6.8	78.9	64.5
Chemicals.....	110	21,461	+6.7	+12.8	518,131	+8.6	+12.2	94.3	69.1
Cottonseed, oil, cake, and meal.....	112	3,073	+20.4	+17.2	33,150	+26.3	+4.9	27.9	27.7
Druggists' preparations.....	45	6,859	+1.3	-5.0	139,574	+4.7	-6.4	67.0	66.1
Explosives.....	30	3,298	+5	+5.8	66,932	-0.0	+12.5	75.4	51.2
Fertilizers.....	202	6,078	-34.2	+36.3	74,723	-24.0	+11.2	44.3	27.9
Paints and varnishes.....	350	16,446	+6.7	+5.7	371,531	+7.7	+8	76.4	62.3
Petroleum refining.....	131	50,183	+1.7	(1)	1,383,551	+1.7	-8.1	64.7	54.6
Rayon and allied prod- ucts.....	23	30,303	+5.4	+65.8	516,631	+10.4	+66.2	154.9	130.1
Soap.....	98	15,087	+3.8	+4.0	323,909	+5.6	-8.1	99.5	83.2
<b>Rubber products</b> .....	153	80,813	+11.7	+4.1	1,785,260	+22.5	+6.5	70.4	54.4
Rubber boots and shoes.....	9	8,965	+6.1	-24.4	157,107	+10.6	+1.7	42.2	36.0
Rubber goods, other than boots, shoes, tires, and inner tubes.....	99	20,022	+8.0	+9.4	369,863	+17.5	+14.6	88.1	61.3
Rubber tires and inner tubes.....	45	51,826	+14.7	+8.8	1,258,290	+26.4	+4.3	71.6	56.2
<b>Tobacco manufactures</b> .....	237	53,025	+3.3	-3.8	677,935	+3.7	-9.4	68.4	50.3
Chewing and smoking tobacco and snuff.....	32	10,155	+3.9	+8	136,394	+1.6	-1.9	90.1	71.9
Cigars and cigarettes.....	205	42,870	+3.2	-4.5	541,541	+4.1	-10.5	65.6	47.7
<b>Total, 89 industries</b> .....	17,952	2,802,711	+7.0	+9.2	50,408,132	+10.8	+9.7	62.8	43.1

<sup>1</sup> No change.

## Per Capita Earnings in Manufacturing Industries

PER capita weekly earnings in June 1933 for each of the 89 manufacturing industries surveyed by the Bureau of Labor Statistics and for all industries combined, together with the percents of change in June 1933 as compared with May 1933 and June 1932, are shown in table 2.

These earnings must not be confused with full-time weekly rates of wages. They are per capita weekly earnings, computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers).

TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN JUNE 1933 AND COMPARISON WITH MAY 1933 AND JUNE 1932

Industry	Per capita weekly earnings in June 1933	Percent of change compared with—	
		May 1933	June 1932
<b>Food and kindred products:</b>			
Baking.....	\$21.17	+0.5	-7.3
Beverages.....	29.05	-2.7	+3.5
Butter.....	20.51	-1.8	-13.8
Confectionery.....	12.46	-4.0	-15.9
Flour.....	19.92	-4.0	-8.3
Ice cream.....	25.35	-2.2	-9.8
Slaughtering and meat packing.....	20.17	+1.1	-5.8
Sugar, beet.....	20.62	-4.6	-17.4
Sugar refining, cane.....	24.28	+5	-1.3
<b>Textiles and their products:</b>			
Fabrics:			
Carpets and rugs.....	17.55	+11.4	+41.2
Cotton goods.....	11.11	+7.1	+15.9
Cotton small wares.....	15.20	+2.6	+10.9
Dyeing and finishing textiles.....	18.71	+3.9	+7.4
Hats, fur-felt.....	19.24	+18.2	+30.3
Knit goods.....	12.89	+2.5	+2.0
Silk and rayon goods.....	12.75	+4.9	+9.0
Woolen and worsted goods.....	16.85	+11.2	+16.8
Wearing apparel:			
Clothing, men's.....	12.72	+9.6	+13.8
Clothing, women's.....	14.26	-6.2	-11.9
Corsets and allied garments.....	14.37	+1.3	+6.4
Men's furnishings.....	11.21	+5.1	-5.5
Millinery.....	15.18	-7	-2.1
Shirts and collars.....	10.39	+8.6	+6.6
<b>Iron and steel and their products, not including machinery:</b>			
Bolts, nuts, washers, and rivets.....	18.17	+15.4	+16.5
Cast-iron pipe.....	12.85	+1.5	-1.9
Cutlery (not including silver and plated cutlery) and edge tools.....	18.39	+8.3	+2.1
Forgings, iron and steel.....	18.44	+10.0	+16.4
Hardware.....	14.97	+10.7	+9.0
Iron and steel.....	18.33	+14.2	+42.3
Plumbers' supplies.....	18.59	+7.8	+14.8
Steam and hot-water heating apparatus and steam fittings.....	18.06	+6.0	+3.2
Stoves.....	18.41	+4.7	+16.0
Structural and ornamental metalwork.....	15.24	+2.1	-6.0
Tin cans and other tinware.....	19.97	+3.0	+4.4
Tools (not including edge tools, machine tools, files, and saws).....	17.84	+18.5	+10.3
Wirework.....	20.06	+8.0	+19.2
<b>Machinery, not including transportation equipment:</b>			
Agricultural implements.....	16.99	+8.6	+5.3
Cash registers, adding machines, and calculating machines.....	24.56	+1.8	+13.5
Electrical machinery, apparatus, and supplies.....	20.70	+5.2	+7.6
Engines, turbines, tractors, and water wheels.....	20.69	+6.0	+7.0
Foundry and machine-shop products.....	17.74	+9.7	+5.2
Machine tools.....	19.87	+16.3	+9.8
Radios and phonographs.....	15.72	-7.1	-15.7
Textile machinery and parts.....	20.95	+21.8	+43.1
Typewriters and supplies.....	15.37	+6.4	+9.6
<b>Nonferrous metals and their products:</b>			
Aluminum manufactures.....	17.64	+6.0	+32.2
Brass, bronze, and copper products.....	19.04	+6.8	+17.5
Clocks and watches and time-recording devices.....	13.51	+8.7	-3.0
Jewelry.....	17.55	+3	-6
Lighting equipment.....	18.48	+6.6	-1
Silverware and plated ware.....	17.80	+3.5	+2.3
Smelting and refining—copper, lead, and zinc.....	19.54	+5.5	+2.8
Stamped and enameled ware.....	16.39	+3.0	-1.4
<b>Transportation equipment:</b>			
Aircraft.....	27.65	-2.2	-9.8
Automobiles.....	23.05	-9	+6.2
Cars, electric and steam railroad.....	15.06	-7.4	-17.2
Locomotives.....	18.82	+1.9	-19.3
Shipbuilding.....	20.09	-1.0	-12.7
<b>Railroad repair shops:</b>			
Electric railroad.....	24.88	-1.5	-9.9
Steam railroad.....	22.50	+8	-1.2
<b>Lumber and allied products:</b>			
Furniture.....	13.46	+6.3	+3.3
Lumber:			
Millwork.....	14.36	+6.0	-4.7
Sawmills.....	12.07	+8.6	-4.0
Turpentine and rosin.....	12.20	-5.6	-8.1



TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN JUNE 1933 AND COMPARISON WITH MAY 1933 AND JUNE 1932—Continued

Industry	Per capita weekly earnings in June 1933	Percent of change compared with—	
		May 1933	June 1932
Stone, clay, and glass products:			
Brick, tile, and terra cotta.....	\$12.00	+11.2	-4.1
Cement.....	16.98	+3.6	-14.6
Glass.....	18.97	+3.0	-1.7
Marble, granite, slate, and other products.....	18.81	+6.5	-8.6
Pottery.....	15.33	+6.2	+3.8
Leather and its manufactures:			
Boots and shoes.....	15.68	+8.5	+13.0
Leather.....	19.92	+6.8	+11.0
Paper and printing:			
Boxes, paper.....	17.59	+3.2	-1
Paper and pulp.....	18.64	+4.1	+2.5
Printing and publishing:			
Book and job.....	25.00	-5	-7.3
Newspapers and periodicals.....	31.00	+1	-11.3
Chemicals and allied products:			
Chemicals.....	24.14	+1.7	-6
Cottonseed, oil, cake and meal.....	10.79	+5.0	-10.4
Druggists' preparations.....	20.35	+3.4	-1.6
Explosives.....	20.29	+8.4	+6.3
Fertilizers.....	12.29	+15.5	-17.9
Paints and varnishes.....	22.59	+1.0	-4.5
Petroleum refining.....	27.57	(1)	-8.0
Rayon and allied products.....	17.05	+4.8	-1
Soap.....	21.47	+1.7	-12.0
Rubber products:			
Rubber boots and shoes.....	17.52	+4.2	+34.5
Rubber goods, other than boots, shoes, tires, and inner tubes.....	18.47	+8.8	+4.6
Rubber tires and inner tubes.....	24.28	+10.3	-4.2
Tobacco manufactures:			
Chewing and smoking tobacco and snuff.....	13.43	-2.3	-3.2
Cigars and cigarettes.....	12.63	+9	-6.2
Total, 89 industries.....	17.99	<sup>2</sup> +3.5	<sup>2</sup> +4

<sup>1</sup> Less than one tenth of 1 percent.<sup>2</sup> Weighted.

### General Index Numbers of Employment and Pay-Roll Totals in Manufacturing Industries

GENERAL index numbers of employment and pay-roll totals in manufacturing industries by months, from January 1926 to June 1933, together with average indexes for each of the years from 1926 to 1932, and for the 6-month period, January to June 1933, inclusive, are shown in the following table. In computing these general indexes the index numbers of each of the separate industries are weighted according to their relative importance in the total. Following this table are two charts prepared from these general indexes showing the course of employment and pay rolls from January 1926 to June 1933, inclusive.

**TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES, JANUARY 1926 TO JUNE 1933**

[12-month average, 1926=100]

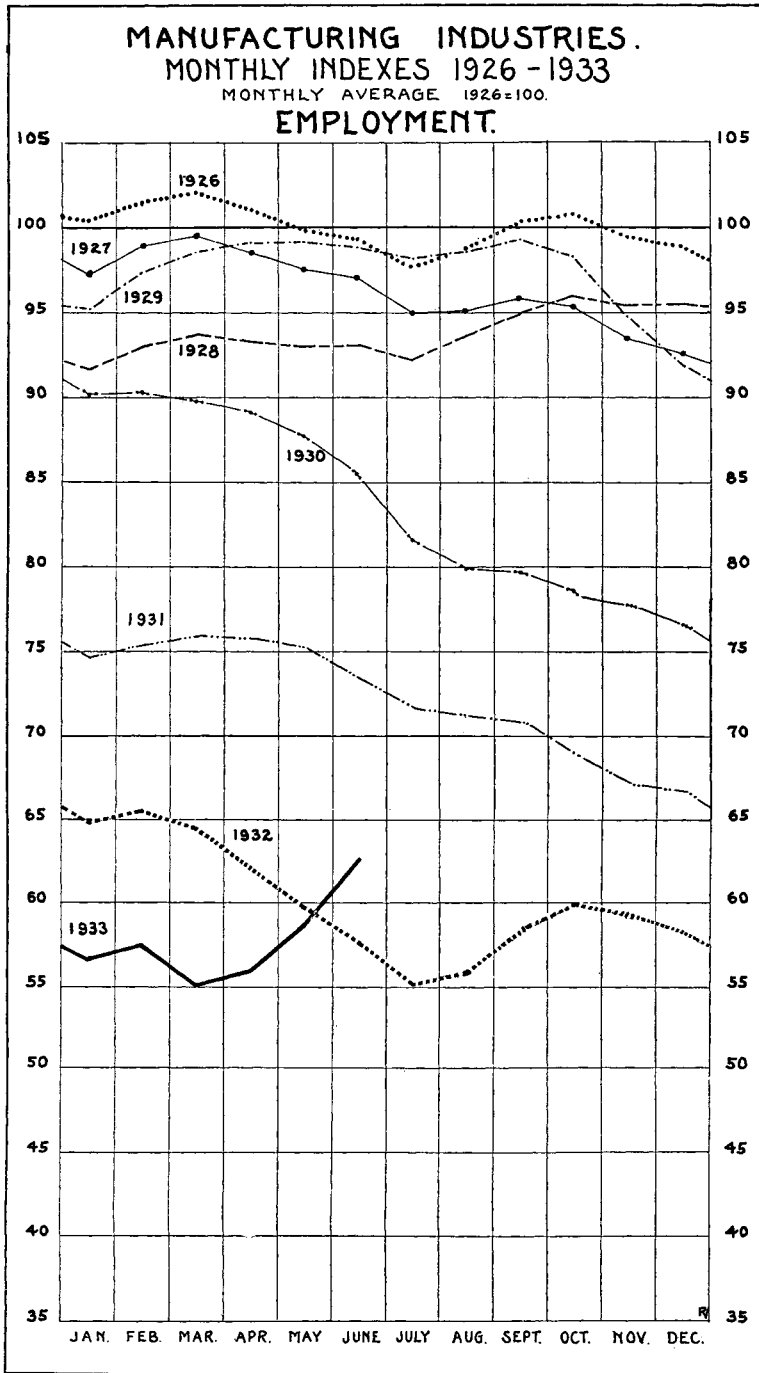
Month	Employment								Pay rolls							
	1926	1927	1928	1929	1930	1931	1932	1933	1926	1927	1928	1929	1930	1931	1932	1933
January.....	100.4	97.3	91.6	95.2	90.7	74.6	64.8	56.6	98.0	94.9	89.6	94.5	88.1	63.7	48.6	35.8
February.....	101.5	99.0	93.0	97.4	90.9	75.3	65.6	57.5	102.2	100.6	93.9	101.8	91.3	68.1	49.6	36.4
March.....	102.0	99.5	93.7	98.6	90.5	75.9	64.5	55.1	103.4	102.0	95.2	103.9	91.6	69.6	48.2	33.4
April.....	101.0	98.6	93.3	99.1	89.9	75.7	62.2	56.0	101.5	100.8	93.8	104.6	90.7	68.5	44.7	34.9
May.....	99.8	97.6	93.0	99.2	88.6	75.2	59.7	58.7	99.8	99.8	94.1	104.8	88.6	67.7	42.5	38.9
June.....	99.3	97.0	93.1	98.8	86.5	73.4	57.5	62.8	99.7	97.4	94.2	102.8	85.2	63.8	39.3	43.1
July.....	97.7	95.0	92.2	98.2	82.7	71.7	55.2	-----	95.2	93.0	91.2	98.2	77.0	60.3	36.2	-----
August.....	98.7	95.1	93.6	98.6	81.0	71.2	56.0	-----	98.7	95.0	94.2	102.1	75.0	59.7	36.3	-----
September.....	100.3	95.8	95.0	99.3	80.9	70.9	58.5	-----	99.3	94.1	95.4	102.6	75.4	56.7	38.1	-----
October.....	100.7	95.3	95.9	98.4	79.9	68.9	59.9	-----	102.9	95.2	99.0	102.4	74.0	55.3	39.9	-----
November.....	99.5	93.5	95.4	95.0	77.9	67.1	59.4	-----	99.6	91.6	96.1	95.4	69.6	52.5	38.6	-----
December.....	98.9	92.6	95.5	92.3	76.6	66.7	58.3	-----	99.8	93.2	97.7	92.4	68.8	52.2	37.7	-----
<b>Average...</b>	<b>100.0</b>	<b>96.4</b>	<b>93.8</b>	<b>97.5</b>	<b>84.7</b>	<b>72.2</b>	<b>60.1</b>	<b>57.8</b>	<b>100.0</b>	<b>96.5</b>	<b>94.5</b>	<b>100.5</b>	<b>81.3</b>	<b>61.5</b>	<b>41.6</b>	<b>37.1</b>

<sup>1</sup> Average for 6 months.**Time Worked in Manufacturing Industries in June 1933**

REPORTS as to working time in June were received from 13,848 establishments in 89 manufacturing industries. Three percent of these establishments were idle, 56 percent operated on a full-time basis, and 42 percent worked on a part-time schedule.

An average of 90 percent of full-time operation in June was shown by reports received from all the operating establishments included in table 4. The establishments working part time in June averaged 77 percent of full-time operation.

A number of establishments supplying data concerning plant-operating time have reported full-time operations, but have qualified the hours reported with a statement that, while the plant was operating full time, the work in the establishment was being shared and the employees were not working the full-time hours operated by the plant.



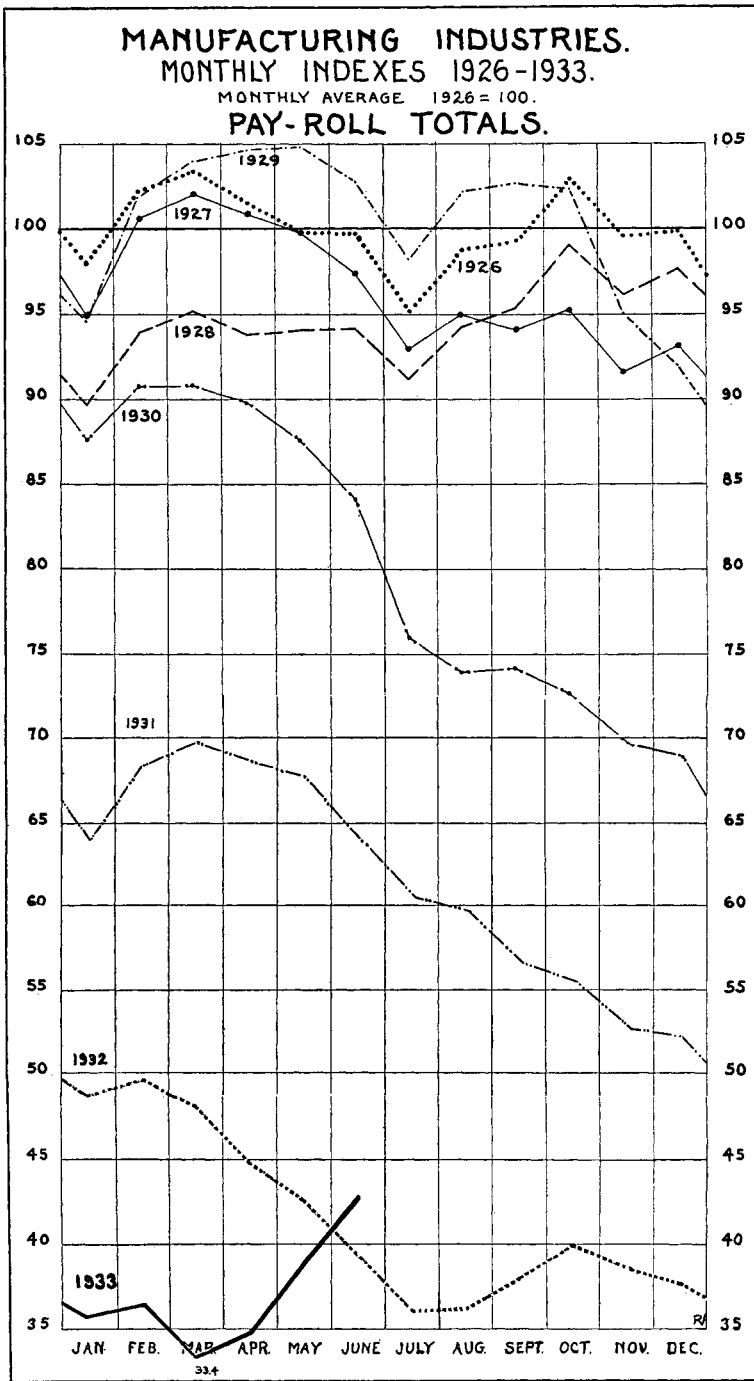


TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES  
BY ESTABLISHMENTS REPORTING IN JUNE 1933

Industry	Establishments reporting		Percent of establishments operating—		Average percent of full time reported by—	
	Total number	Percent idle	Full time	Part time	All operating establishments	Establishments operating part time
<b>Food and kindred products</b> .....	<b>2,482</b>	<b>1</b>	<b>73</b>	<b>26</b>	<b>94</b>	<b>79</b>
Baking.....	764	( <sup>1</sup> )	80	19	97	82
Beverages.....	288	3	84	14	98	79
Butter.....	249	1	78	21	97	85
Confectionery.....	270	1	40	59	83	72
Flour.....	388	( <sup>1</sup> )	68	32	91	73
Ice cream.....	261	1	71	28	95	84
Slaughtering and meat packing.....	204	( <sup>1</sup> )	72	28	97	88
Sugar, beet.....	48	2	96	2	100	80
Sugar refining, cane.....	10	—	90	10	98	83
<b>Textiles and their products</b> .....	<b>2,543</b>	<b>4</b>	<b>74</b>	<b>22</b>	<b>96</b>	<b>83</b>
Fabrics:						
Carpets and rugs.....	15	20	47	33	88	71
Cotton goods.....	616	1	84	15	98	88
Cotton small wares.....	96	1	63	36	93	79
Dyeing and finishing textiles.....	142	2	67	31	96	87
Hats, fur-felt.....	19	—	68	32	95	76
Knit goods.....	381	2	79	19	97	84
Silk and rayon goods.....	219	5	67	29	95	83
Woolen and worsted goods.....	218	1	84	15	98	87
Wearing apparel:						
Clothing, men's.....	293	3	70	26	95	80
Clothing, women's.....	296	17	61	22	93	73
Corsets and allied garments.....	29	—	59	41	91	79
Men's furnishings.....	54	6	70	24	97	88
Millinery.....	80	3	63	35	93	80
Shirts and collars.....	85	1	74	25	96	84
<b>Iron and steel and their products, not including machinery</b> .....	<b>1,032</b>	<b>4</b>	<b>34</b>	<b>62</b>	<b>82</b>	<b>72</b>
Bolts, nuts, washers, and rivets.....	56	—	29	71	85	78
Cast-iron pipe.....	33	24	15	61	70	63
Cutlery (not including silver and plated cutlery) and edge tools.....	106	1	37	62	82	71
Forgings, iron and steel.....	36	—	22	78	79	73
Hardware.....	60	2	25	73	78	70
Iron and steel.....	136	10	40	50	81	67
Plumbers' supplies.....	53	—	55	45	89	75
Steam and hot-water heating apparatus and steam fittings.....	80	3	21	76	69	60
Stoves.....	131	4	37	60	84	73
Structural and ornamental metal-work.....	131	2	31	66	84	77
Tin cans and other tinware.....	54	6	61	33	94	83
Tools (not including edge tools, machine tools, files, and saws).....	108	1	24	75	80	73
Wirework.....	48	—	42	58	88	80
<b>Machinery, not including transportation equipment</b> .....	<b>1,325</b>	<b>1</b>	<b>31</b>	<b>68</b>	<b>80</b>	<b>70</b>
Agricultural implements.....	49	—	29	71	82	74
Cash registers, adding machines, and calculating machines.....	30	—	63	37	89	70
Electrical machinery, apparatus, and supplies.....	202	1	24	76	80	73
Engines, turbines, tractors, and water wheels.....	72	3	22	75	79	73
Foundry and machine shop products.....	792	1	33	66	78	67
Machine tools.....	115	3	23	75	79	73
Radios and phonographs.....	24	—	50	50	91	82
Textile machinery and parts.....	32	—	41	59	91	82
Typewriters and supplies.....	9	—	22	78	77	69
<b>Nonferrous metals and their products</b> .....	<b>487</b>	<b>1</b>	<b>36</b>	<b>63</b>	<b>85</b>	<b>76</b>
Aluminum manufactures.....	19	—	58	42	91	76
Brass, bronze, and copper products.....	138	—	34	66	86	79
Clocks and watches and time-recording devices.....	20	—	20	80	72	65
Jewelry.....	113	3	31	66	80	71
Lighting equipment.....	42	2	21	76	82	76
Silverware and plated ware.....	48	2	33	65	83	74

<sup>1</sup> Less than one half of 1 percent.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JUNE 1933—Continued

Industry	Establishments reporting		Percent of establishments operating—		Average percent of full time reported by—	
	Total number	Percent idle	Full time	Part time	All operating establishments	Establishments operating part time
<b>Nonferrous metals and their products—Continued.</b>						
Smelting and refining—copper, lead, and zinc.....	35		83	17	97	82
Stamped and enameled ware.....	72	1	35	64	88	81
<b>Transportation equipment.....</b>	<b>291</b>	<b>5</b>	<b>51</b>	<b>45</b>	<b>90</b>	<b>78</b>
Aircraft.....	23		57	43	95	87
Automobiles.....	137	7	48	45	92	80
Cars, electric and steam railroad.....	35	11	14	74	75	70
Locomotives.....	7		57	43	84	63
Shipbuilding.....	89	1	66	33	94	81
<b>Railroad repair shops.....</b>	<b>725</b>	<b>(1)</b>	<b>44</b>	<b>56</b>	<b>89</b>	<b>80</b>
Electric railroad.....	334		65	35	94	84
Steam railroad.....	391	1	26	73	84	79
<b>Lumber and allied products.....</b>	<b>1,110</b>	<b>2</b>	<b>46</b>	<b>52</b>	<b>87</b>	<b>75</b>
Furniture.....	347	2	47	51	87	74
Lumber:						
Millwork.....	305	1	39	60	85	75
Sawmills.....	437	2	50	49	88	75
Turpentine and rosin.....	21		48	52	92	83
<b>Stone, clay, and glass products.....</b>	<b>686</b>	<b>18</b>	<b>47</b>	<b>35</b>	<b>89</b>	<b>73</b>
Brick, tile, and terra cotta.....	197	40	26	34	83	70
Cement.....	74	15	77	8	97	72
Glass.....	144	8	78	14	97	78
Marble, granite, slate, and other products.....	183	13	39	48	86	75
Pottery.....	100	5	33	62	82	73
<b>Leather and its manufactures.....</b>	<b>357</b>	<b>2</b>	<b>55</b>	<b>43</b>	<b>92</b>	<b>82</b>
Boots and shoes.....	240	3	50	47	91	82
Leather.....	117		66	34	93	81
<b>Paper and printing.....</b>	<b>1,622</b>	<b>1</b>	<b>54</b>	<b>45</b>	<b>91</b>	<b>80</b>
Boxes, paper.....	261	1	40	50	88	79
Paper and pulp.....	305	3	53	45	88	74
Printing and publishing:						
Book and job.....	651	(1)	46	54	89	80
Newspapers and periodicals.....	405	(1)	77	23	97	88
<b>Chemicals and allied products.....</b>	<b>838</b>	<b>2</b>	<b>67</b>	<b>32</b>	<b>95</b>	<b>83</b>
Chemicals.....	80	1	73	26	97	87
Cottonseed, oil, cake, and meal.....	58	10	55	34	93	82
Druggists' preparations.....	29		55	45	93	84
Explosives.....	12		17	83	84	81
Fertilizers.....	156	1	69	30	94	79
Paints and varnishes.....	310	1	69	31	95	83
Petroleum refining.....	95	3	69	27	96	88
Rayon and allied products.....	11	9	82	9	98	80
Soap.....	87		62	38	93	82
<b>Rubber products.....</b>	<b>127</b>	<b>1</b>	<b>48</b>	<b>51</b>	<b>90</b>	<b>80</b>
Rubber boots and shoes.....	8		38	63	91	85
Rubber goods, other than boots, shoes, tires, and inner tubes.....	88	1	45	53	88	77
Rubber tires and inner tubes.....	31		58	42	96	86
<b>Tobacco manufactures.....</b>	<b>211</b>	<b>6</b>	<b>35</b>	<b>60</b>	<b>84</b>	<b>75</b>
Chewing and smoking tobacco and snuff.....	32		59	41	88	71
Cigars and cigarettes.....	179	7	30	63	83	75
<b>Total, 89 industries.....</b>	<b>13,848</b>	<b>3</b>	<b>56</b>	<b>42</b>	<b>90</b>	<b>77</b>

<sup>1</sup>Less than one half of 1 percent.

## Employment in Nonmanufacturing Industries in June 1933

**T**HE general improvement in the employment situation between May and June 1933 was also reflected in the nonmanufacturing industries surveyed monthly by the Bureau of Labor Statistics. Increased employment was reported in 13 of the 15 nonmanufacturing industries appearing in the following table and increased pay rolls were reported in 10 industries. Data for the building-construction industry are not presented here but are shown in more detail under the section "Building construction." The increases in employment in June 1933 in most instances were contrary to the May-June trend in the preceding years for which data are available, and, while two industries reported declines in employment, the decrease (8.5 percent) reported in June in one of these industries (anthracite mining) was not as pronounced as in previous years while the decrease in employment in the other (telephone and telegraph) was only 1.3 percent.

The most pronounced gains in employment and pay roll over the month interval in these 15 nonmanufacturing industries were seasonal increases in the canning and preserving industry, which reported the usual sharp May to June pick-up with the beginning of its active season. The quarrying and nonmetallic mining industry also reported substantial increases in both employment and pay rolls, which were partly seasonal. The bituminous-coal mining industry showed practically no change in employment and the anthracite mining industry reported a decrease in number of workers. Both of these industries, however, reported very substantial gains in total weekly earnings between May and June due to sharply increased production. Four of these fifteen nonmanufacturing industries, crude petroleum producing, bituminous-coal mining, dyeing and cleaning, and canning and preserving reported more employees on the pay roll in June 1933 than in June of the preceeding year.

In the following table are presented employment and pay-roll data for the nonmanufacturing industries surveyed, exclusive of building construction.

**TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN NONMANUFACTURING ESTABLISHMENTS IN JUNE 1933 WITH MAY 1933 AND JUNE 1932**

Industrial groups	Estab- lish- ments report- ing in both May and June 1933	Employment			Pay-roll totals			Index num- bers, June 1933 (average 1926=100)	
		Number on pay roll, June 1933	Percent of change		Amount of pay roll (1 week), June 1933	Percent of change			
			May to June 1933	June 1932 to June 1933		May to June 1933	June 1932 to June 1933	Em- ploy- ment	Pay- roll totals
Coal mining:									
Anthracite.....	160	53,984	-8.5	-25.5	\$1,362,059	+14.3	-8.3	39.5	34.3
Bituminous.....	1,480	185,709	+1	+1.3	2,311,622	+8.4	+7.0	61.3	29.2
Metalliferous mining.....	278	21,509	+5.0	-2.2	405,531	+7.6	-9.0	31.5	18.3
Quarrying and nonmetallic mining.....	1,135	32,149	+8.9	-4.4	490,314	+15.2	-8.3	47.3	27.5
Crude petroleum producing.....	256	23,119	+1.8	+7.0	625,436	-2.5	-9.4	58.0	40.6
Public utilities:									
Telephone and telegraph.....	8,286	249,412	-1.3	-13.4	6,499,606	-2.8	-18.9	69.2	66.6
Power and light.....	3,181	195,665	+4	-7.1	5,563,489	-(?)	-13.2	77.3	69.9
Electric - railroad and motor-bus operation and maintenance.....	572	133,213	+3	-9.4	3,534,593	-4	-17.4	69.3	58.0
Trade:									
Wholesale.....	3,025	77,536	+2.3	-1.7	1,984,691	-3	-13.4	75.7	57.3
Retail.....	17,879	363,296	+1.7	-1.4	6,891,677	+1.8	-11.3	78.3	60.5
Hotels (cash payments only) <sup>1</sup> .....	2,656	132,178	+2.5	-5.6	1,640,566	+1.1	-18.0	73.6	52.3
Canning and preserving.....	818	43,145	+22.2	+2	494,176	+15.3	-9.4	55.6	36.7
Laundries.....	945	55,495	+3.3	-6.2	815,970	+4.1	-17.3	76.0	56.7
Dyeing and cleaning.....	337	11,858	+4.5	+6	202,981	+5.2	-13.8	85.6	56.7
Banks, brokerage, insurance, and real estate.....	4,320	164,899	<sup>2</sup> +1.0	<sup>3</sup> -.7	5,351,127	<sup>3</sup> +1.3	<sup>3</sup> -6.3	<sup>3</sup> 97.4	<sup>3</sup> 84.7

<sup>1</sup> The additional value of board, room, and tips cannot be computed.<sup>2</sup> Less than one tenth of 1 percent.<sup>3</sup> Weighted.

Per capita weekly earnings in June 1933 for 15 nonmanufacturing industries included in the Bureau's monthly trend-of-employment survey, together with the percents of change in June 1933 as compared with May 1933 and June 1932, are given in the table following. These per capita weekly earnings must not be confused with full-time weekly rates of wages; they are per capita weekly earnings computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers).

**TABLE 2.—PER CAPITA WEEKLY EARNINGS IN 15 NONMANUFACTURING INDUSTRIES IN JUNE 1933 AND COMPARISON WITH MAY 1933 AND JUNE 1932**

Industrial group	Per capita weekly earnings in June 1933	Percent of change June 1933 compared with—	
		May 1933	June 1932
Coal mining:			
Anthracite.....	\$25.23	+24.9	+22.9
Bituminous.....	12.45	+8.3	+5.5
Metalliferous mining.....	18.85	+2.4	-6.9
Quarrying and nonmetallic mining.....	15.25	+5.7	-4.1
Crude petroleum producing.....	27.05	-4.2	-15.4
Public utilities:			
Telephone and telegraph.....	26.06	-1.5	-6.4
Power and light.....	28.43	-4	-6.6
Electric-railroad and motor-bus operation and maintenance.....	26.53	-7	-8.8
Trade:			
Wholesale.....	25.60	-2.6	-12.0
Retail.....	18.97	+1	-10.0
Hotels (cash payments only) <sup>1</sup> .....	12.41	-1.4	-13.1
Canning and preserving.....	11.45	-5.7	-9.6
Laundries.....	14.70	+8	-11.9
Dyeing and cleaning.....	17.12	+6	-14.4
Banks, brokerage, insurance, and real estate.....	32.97	<sup>2</sup> +3	<sup>2</sup> -5.6

<sup>1</sup> The additional value of board, room, and tips cannot be computed.<sup>2</sup> Weighted.

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## Indexes of Employment and Pay-Roll Totals for Nonmanufacturing Industries

INDEX numbers of employment and pay-roll totals for 15 nonmanufacturing industries are presented in the following table. These index numbers show the variation in employment and pay rolls by months, from January 1930 to June 1933, in all nonmanufacturing industries with the exception of the laundry, dyeing and cleaning, and the banks, brokerage, insurance, and real-estate industries for which information over the entire period is not available. The Bureau has secured data concerning employment and pay rolls for the index base year 1929 from establishments in these industries and has computed index numbers for those months for which data are available from the Bureau's files. These indexes are shown in this tabulation.

TABLE 3.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR **NONMANUFACTURING** INDUSTRIES, JANUARY TO DECEMBER 1930, 1931, AND 1932, AND JANUARY TO JUNE 1933

(12-month average, 1929=100)

Month	Anthracite mining								Bituminous-coal mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	102.1	90.6	76.2	52.5	105.8	89.3	61.5	43.2	102.5	93.9	80.8	69.8	101.4	73.3	47.0	36.1
February.....	106.9	89.5	71.2	58.7	121.5	101.9	57.3	56.8	102.4	91.5	77.4	69.3	102.1	68.3	47.0	37.2
March.....	82.6	82.0	73.7	54.6	78.5	71.3	61.2	48.8	98.6	88.8	75.2	67.6	86.4	65.2	46.8	30.7
April.....	84.1	85.2	70.1	51.6	75.0	75.2	72.0	37.4	94.4	85.9	65.5	63.7	81.7	58.6	33.9	26.6
May.....	93.8	80.3	66.9	43.2	98.8	76.1	58.0	30.0	90.4	82.4	62.6	61.2	77.5	54.4	30.7	26.9
June.....	90.8	76.1	53.0	39.5	94.3	66.7	37.4	34.3	88.4	78.4	60.5	61.3	75.6	52.4	27.3	29.2
July.....	91.6	65.1	44.5	.....	84.0	53.7	34.5	.....	88.0	76.4	58.6	.....	68.9	50.4	24.4	.....
August.....	80.2	67.3	49.2	.....	78.8	56.4	41.4	.....	89.2	77.0	59.4	.....	71.1	50.6	26.4	.....
September.....	93.8	80.0	55.8	.....	91.6	64.9	47.0	.....	90.5	80.4	62.4	.....	74.9	53.6	30.2	.....
October.....	99.0	86.8	63.9	.....	117.2	91.1	66.7	.....	91.8	81.3	67.0	.....	79.4	56.2	27.8	.....
November.....	97.2	83.5	62.7	.....	98.0	79.5	51.0	.....	92.5	81.1	69.4	.....	79.1	54.6	38.0	.....
December.....	99.1	79.8	62.3	.....	100.0	78.4	56.2	.....	92.5	81.2	70.0	.....	77.7	52.3	37.7	.....
Average.....	93.4	80.5	62.5	50.0	95.3	75.4	53.7	41.8	93.4	83.2	67.4	65.5	81.3	57.5	35.6	31.1
Month	Metalliferous mining								Quarrying and nonmetallic mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	95.7	68.3	49.3	32.4	92.7	55.0	29.7	18.1	79.6	64.4	48.9	35.1	71.9	50.4	30.2	18.1
February.....	92.3	65.3	46.9	31.5	92.5	54.6	27.8	17.8	79.8	66.6	47.4	34.8	73.5	54.4	29.6	17.4
March.....	90.9	63.5	45.0	30.0	90.8	52.8	26.5	17.4	83.0	70.0	46.0	35.1	80.0	58.2	28.7	17.8
April.....	89.3	63.9	43.3	29.4	88.3	51.4	25.0	16.4	87.4	76.1	48.6	39.3	85.4	62.6	30.0	20.2
May.....	87.5	62.4	38.3	30.0	85.6	49.3	23.8	17.0	90.8	75.0	50.6	43.4	90.2	62.3	32.3	23.8
June.....	84.6	60.0	32.2	31.5	81.6	46.1	20.1	18.3	90.3	72.3	49.5	47.3	90.9	60.1	30.0	27.5
July.....	80.5	56.2	29.5	.....	71.9	41.3	16.9	.....	89.9	71.0	49.5	.....	85.5	57.3	29.1	.....
August.....	79.0	55.8	28.6	.....	71.0	40.2	16.5	.....	89.3	68.9	51.1	.....	85.8	55.1	29.7	.....
September.....	78.1	55.5	29.3	.....	69.9	40.0	17.0	.....	87.7	66.6	52.4	.....	82.5	51.2	30.5	.....
October.....	77.2	53.8	30.5	.....	68.6	37.4	18.0	.....	84.7	64.5	52.4	.....	79.3	48.7	30.1	.....
November.....	72.8	52.8	31.9	.....	63.4	35.1	18.7	.....	78.3	59.3	49.4	.....	66.8	43.3	27.1	.....
December.....	70.1	51.2	33.3	.....	59.9	34.3	18.7	.....	70.2	53.9	42.3	.....	59.9	36.9	22.1	.....
Average.....	83.2	59.1	36.5	30.8	78.0	44.8	21.6	17.5	84.3	67.4	49.0	39.2	79.3	53.4	29.1	20.8
Month	Crude petroleum producing								Telephone and telegraph							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	92.7	74.8	54.9	57.2	94.0	71.5	46.5	39.9	101.6	90.5	83.0	74.6	105.1	96.3	89.1	71.7
February.....	90.8	73.2	54.4	57.0	88.6	70.0	46.9	41.7	100.2	89.2	82.0	73.9	101.9	94.8	89.6	71.9
March.....	89.3	72.2	51.4	56.5	91.3	73.2	43.2	42.5	99.4	88.6	81.7	73.2	105.8	97.9	88.2	71.6
April.....	86.8	69.8	54.9	56.8	86.6	66.3	44.5	40.1	98.9	88.1	81.2	72.3	103.4	95.0	83.4	67.8
May.....	89.8	68.8	54.5	56.9	85.4	64.7	47.1	41.6	99.7	87.4	80.6	70.1	103.2	94.1	82.8	68.5
June.....	90.2	65.0	54.2	58.0	87.1	62.7	44.8	40.6	99.8	86.9	79.9	69.2	103.4	95.0	82.1	66.6
July.....	89.9	65.3	55.4	.....	88.5	59.2	44.6	.....	100.0	86.6	79.1	.....	106.6	93.3	79.6	.....
August.....	87.7	62.4	57.4	.....	86.0	56.3	42.9	.....	98.8	85.9	78.1	.....	102.5	92.3	79.1	.....
September.....	85.0	61.2	56.2	.....	84.0	55.2	41.9	.....	96.8	85.0	77.4	.....	102.2	92.1	75.9	.....
October.....	85.2	60.4	56.8	.....	82.6	54.4	42.5	.....	94.5	84.1	76.2	.....	100.9	91.6	75.7	.....
November.....	83.6	57.6	56.5	.....	80.0	52.0	42.4	.....	93.0	83.5	75.5	.....	97.9	89.7	74.3	.....
December.....	77.4	58.2	57.2	.....	77.2	54.9	41.7	.....	91.6	83.1	74.8	.....	101.3	92.7	73.5	.....
Average.....	87.4	65.7	55.3	57.1	85.9	61.7	44.1	41.1	97.9	86.6	79.1	72.2	102.9	93.7	81.1	69.7

¹ Average for 6 months.

TABLE 3.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR **NONMANUFACTURING** INDUSTRIES, JANUARY TO DECEMBER 1930, 1931, AND 1932, AND JANUARY TO JUNE 1933—Continued

Month	Power and light								Electric-railroad and motor-bus operation and maintenance <sup>2</sup>							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	99.6	99.2	89.3	77.7	99.7	98.6	88.4	73.0	97.1	86.9	79.5	70.6	97.8	85.6	75.4	60.9
February.....	98.8	97.8	87.2	77.4	100.4	99.7	86.0	71.6	95.1	86.6	78.9	70.4	95.7	87.1	74.8	60.6
March.....	99.7	96.7	85.5	76.9	102.1	102.4	85.4	71.9	94.4	86.4	77.6	69.8	95.4	88.1	73.6	59.4
April.....	100.7	97.1	84.8	76.9	102.6	97.6	82.4	69.4	95.2	86.8	78.0	69.5	97.1	86.6	71.8	58.1
May.....	103.4	97.6	84.0	76.9	104.5	98.7	84.2	69.9	95.2	85.9	76.9	69.1	96.0	85.1	72.2	58.2
June.....	104.6	97.2	83.2	77.3	107.8	98.3	80.5	69.9	94.8	85.3	76.5	69.3	97.0	84.8	70.2	58.0
July.....	105.9	96.7	82.3	77.7	106.7	97.4	78.7	70.0	94.8	85.6	75.6	69.3	95.6	83.3	66.4	58.0
August.....	106.4	95.9	81.5	77.7	106.6	96.2	76.6	70.0	92.9	84.8	74.1	69.3	92.1	81.9	63.8	58.0
September.....	105.2	94.7	81.0	77.7	106.1	94.3	74.7	70.0	91.8	84.0	73.5	69.3	90.5	81.2	62.5	58.0
October.....	104.8	92.7	79.9	77.7	105.6	93.2	74.4	70.0	91.0	82.7	72.3	69.3	88.9	79.0	61.5	58.0
November.....	103.4	91.3	79.1	77.7	103.7	93.3	73.2	70.0	89.3	81.5	71.8	69.3	87.7	79.7	61.7	58.0
December.....	103.2	90.3	78.4	77.7	106.3	91.2	73.2	70.0	88.8	79.9	71.4	69.3	88.6	77.8	61.9	58.0
Average.....	103.0	95.6	83.0	77.2	104.3	96.7	79.8	71.0	93.4	84.7	75.5	69.8	93.5	83.4	68.0	59.2
Month	Wholesale trade								Retail trade							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	100.0	89.5	81.8	75.3	100.0	87.5	74.1	61.7	98.9	90.0	84.3	76.9	99.7	89.4	78.0	62.7
February.....	98.5	88.2	80.9	74.1	98.3	88.4	72.5	58.6	94.4	87.1	80.5	73.4	96.0	86.7	73.7	58.4
March.....	97.7	87.4	79.8	73.1	99.7	89.1	71.3	57.1	93.9	87.8	81.4	71.4	95.5	87.5	73.4	55.1
April.....	97.3	87.4	78.9	73.3	97.9	85.2	68.9	56.0	93.7	90.1	81.6	78.6	97.5	88.3	72.7	60.4
May.....	96.8	87.1	77.9	74.0	97.4	84.7	69.7	57.4	96.7	89.9	80.9	77.0	97.3	88.0	71.1	59.5
June.....	96.5	87.1	77.0	75.7	98.6	84.1	66.2	57.3	93.9	89.1	79.4	78.3	96.8	87.6	68.2	60.5
July.....	96.0	86.8	76.6	77.7	96.0	83.3	64.7	57.3	89.0	83.9	74.6	69.3	91.7	83.3	63.3	58.0
August.....	95.0	86.5	76.4	77.7	93.6	82.1	63.2	57.3	85.6	81.8	72.6	69.3	87.6	80.3	60.7	58.0
September.....	94.8	86.1	77.1	77.7	93.6	81.4	63.1	57.3	92.0	86.6	77.8	69.3	92.4	83.5	64.6	58.0
October.....	94.2	85.2	77.8	77.7	92.9	79.9	63.9	57.3	95.5	89.8	81.3	69.3	95.1	84.6	67.1	58.0
November.....	92.6	84.1	77.6	77.7	91.0	79.7	63.3	57.3	98.4	90.9	81.7	69.3	96.8	85.4	66.9	58.0
December.....	92.0	83.7	77.0	77.7	91.3	77.8	62.6	57.3	115.1	106.2	95.2	69.3	107.7	94.1	73.6	58.0
Average.....	96.0	86.6	78.2	74.3	95.9	83.6	67.0	58.0	95.9	89.4	80.9	75.9	96.2	86.6	69.4	59.4
Month	Hotels								Canning and preserving							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	100.4	95.0	83.2	73.8	100.3	91.0	73.9	55.7	46.1	48.9	35.0	34.1	50.3	46.1	31.8	24.8
February.....	102.4	96.8	84.3	73.8	103.8	93.7	73.9	55.9	45.7	48.3	37.1	35.1	51.5	48.6	32.7	25.9
March.....	102.4	96.8	84.0	72.4	104.4	93.4	72.4	53.5	49.7	53.0	36.3	33.2	50.8	50.3	31.9	24.2
April.....	100.1	95.9	82.7	71.9	100.3	89.9	69.6	51.7	48.8	59.6	47.0	49.2	72.6	57.1	37.9	33.5
May.....	98.0	92.5	80.1	71.9	98.4	87.7	67.0	51.8	45.7	56.0	40.5	45.5	66.9	56.0	36.0	31.8
June.....	98.0	91.6	78.0	73.8	98.1	85.4	63.8	52.3	43.0	50.0	36.0	33.2	55.6	40.5	36.7	31.8
July.....	101.3	93.3	78.4	77.7	99.8	85.2	61.8	57.3	126.3	102.2	79.0	70.0	112.7	74.2	47.5	47.5
August.....	101.5	92.8	77.6	77.7	98.6	83.8	59.6	57.3	185.7	142.9	99.0	90.0	172.0	104.7	65.6	65.6
September.....	100.1	90.6	77.0	77.7	97.1	81.9	59.1	57.3	246.6	180.1	125.3	100.0	214.8	129.4	75.1	75.1
October.....	97.5	87.4	75.4	77.7	95.5	79.7	58.6	57.3	164.7	108.1	81.1	69.3	140.0	77.6	51.8	51.8
November.....	95.2	84.9	74.3	77.7	93.6	77.1	57.5	57.3	96.7	60.8	50.5	49.3	82.9	48.1	34.4	34.4
December.....	93.5	83.1	73.2	77.7	91.5	75.4	56.6	57.3	61.6	40.7	33.7	33.7	57.4	36.9	25.6	25.6
Average.....	99.2	91.7	79.0	72.9	98.5	85.4	64.5	53.5	103.9	80.9	59.5	42.1	96.1	65.6	42.6	29.5
Month	Laundries								Dyeing and cleaning							
	Employment				Pay rolls				Employment				Pay rolls			
	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1933
January.....	90.5	84.7	75.4	86.6	76.4	57.9	88.9	82.1	73.0	77.7	65.8	46.6	98.6	97.6	94.0	85.5
February.....	90.0	82.9	74.4	85.6	73.3	55.5	87.4	80.5	70.9	75.1	62.2	42.4	98.6	97.0	93.5	84.7
March.....	89.5	82.0	73.0	85.6	71.6	52.9	88.0	80.6	71.2	75.6	61.7	41.0	99.1	96.8	93.3	84.1
April.....	90.5	82.0	73.4	86.8	71.4	54.0	95.7	83.3	81.1	86.3	65.9	54.6	98.8	96.3	92.4	83.3
May.....	90.3	81.4	73.5	86.5	70.6	54.5	96.7	84.5	82.0	86.6	67.3	53.9	98.2	96.4	93.2	83.6
June.....	91.0	81.0	76.0	87.1	68.6	56.7	99.0	85.1	85.6	89.1	65.8	56.7	98.1	97.4	90.4	84.7
July.....	91.8	80.3	77.0	87.4	66.3	57.7	98.6	82.4	80.0	86.2	60.0	56.7	98.5	97.0	90.1	84.7
August.....	90.2	78.9	77.0	84.6	63.9	57.7	93.5	79.5	80.0	80.0	56.3	56.7	98.7	97.0	88.5	84.7
September.....	89.3	78.6	77.0	84.1	62.9	57.7	95.3	83.3	80.0	82.6	61.0	56.7	98.6	97.0	87.3	84.7
October.....	88.1	77.5	77.0	81.8	61.2	57.7	94.2	82.3	81.4	58.8	58.8	56.7	98.7	97.0	86.5	84.7
November.....	86.2	76.2	77.0	78.9	59.1	57.7	90.1	78.0	74.7	52.3	52.3	56.7	98.2	97.0	86.0	84.7
December.....	85.3	75.9	77.0	77.4	58.7	57.7	84.9	75.2	67.7	67.7	67.7	56.7	98.0	97.0	85.7	84.7
Average.....	89.4	80.1	74.3	84.4	67.0	55.3	92.7	81.4	77.3	80.3	60.5	49.2	98.5	97.0	90.1	84.3

<sup>1</sup> Average for 6 months.<sup>2</sup> Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop groups, manufacturing industries, table 1.

## Average Man-Hours Worked and Average Hourly Earnings

IN THE following tables the Bureau presents a tabulation of man-hours worked per week and average hourly earnings, based on reports supplied by identical establishments in May and June 1933 in 15 industrial groups and 74 separate manufacturing industries. Man-hour data for the building-construction group and for the insurance, real estate, banking, and brokerage groups are not available, and data for several of the 89 manufacturing industries surveyed monthly are omitted from these tables due to lack of adequate information.

The total number of establishments supplying man-hour data in these 15 industrial groups represents approximately 50 percent of the establishments supplying monthly employment data.

The tabulations are based on reports supplying actual man-hours worked and do not include nominal man-hour totals, obtained by multiplying the total number of employees in the establishment by the plant operating time.

Table 1 shows the average hours worked per employee per week and average hourly earnings in 15 industrial groups and for all groups combined. The average hours per week and average hourly earnings for the combined total of the 15 industrial groups are weighted averages, wherein the average man-hours and average hourly earnings in each industrial group are multiplied by the total number of employees in the group in the current month and the sum of these products divided by the total number of employees in the combined 15 industrial groups.

In presenting information for the separate manufacturing industries shown in table 2, data are published for only those industries in which the available man-hour information covers 20 percent or more of the total number of employees in the industry at the present time. The average man-hours and hourly earnings for the combined 89 manufacturing industries have been weighted in the same manner as the averages for all industrial groups combined, table 1.

TABLE 1.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN 15 INDUSTRIAL GROUPS, MAY AND JUNE 1933

Industrial group	Average hours per week		Average hourly earnings	
	May 1933	June 1933	May 1933	June 1933
	Hours	Hours	Cents	Cents
Manufacturing.....	40.8	42.6	42.0	41.9
Coal mining:				
Anthracite.....	25.2	31.2	81.3	81.7
Bituminous.....	26.0	28.5	45.8	45.6
Metalliferous mining.....	38.5	40.0	47.3	47.0
Quarrying and nonmetallic mining.....	38.6	40.9	37.3	37.6
Crude petroleum producing.....	43.5	42.6	64.7	62.9
Public utilities:				
Telephone and telegraph.....	37.5	37.5	72.0	71.1
Power and light.....	46.1	46.0	61.7	61.7
Electric-railroad and motor-bus operation and maintenance.....	46.2	46.4	57.1	56.7
Trade:				
Wholesale.....	47.3	47.1	54.3	53.2
Retail.....	44.9	45.0	41.6	41.3
Hotels.....	51.6	50.6	22.9	23.1
Canning and preserving.....	42.8	42.6	34.2	31.2
Laundries.....	42.6	42.4	33.3	33.2
Dyeing and cleaning.....	47.0	47.4	36.4	36.6
Total.....	42.3	43.3	44.2	43.9

Per capita weekly earnings, computed by multiplying the average man-hours worked per week by the average hourly earnings shown in the following table, are not identical with the per capita weekly earnings appearing elsewhere in this trend-of-employment compilation, which are obtained by dividing the total weekly earnings in all establishments reporting by the total number of employees in those establishments. As already noted, the basic information upon which the average weekly man-hours and average hourly earnings are computed covers approximately 50 percent of the establishments reporting monthly employment data.

TABLE 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN SELECTED MANUFACTURING INDUSTRIES, MAY AND JUNE 1933

Industry	Average hours per week		Average hourly earnings	
	May 1933	June 1933	May 1933	June 1933
	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
<b>Food and kindred products:</b>				
Baking.....	46.5	46.7	42.0	42.2
Beverages.....	48.5	47.7	60.8	60.1
Confectionery.....	40.3	38.0	32.8	34.3
Flour.....	49.2	46.9	41.6	42.0
Ice cream.....	52.1	53.1	48.1	46.3
Slaughtering and meat packing.....	47.9	48.2	42.3	41.6
Sugar, beet.....	45.1	47.3	51.9	47.9
Sugar refining, cane.....	54.7	54.1	43.4	44.0
<b>Textiles and their products:</b>				
Carpets and rugs.....	40.7	44.4	38.6	38.2
Cotton goods.....	47.9	49.1	21.6	22.6
Cotton small wares.....	44.2	46.3	33.4	33.4
Dyeing and finishing textiles.....	48.0	50.8	37.0	37.0
Knit goods.....	44.1	47.0	29.9	29.4
Silk and rayon goods.....	40.6	42.0	29.8	30.3
Woolen and worsted goods.....	45.5	48.3	33.0	34.3
<b>Iron and steel and their products, not including machinery:</b>				
Bolts, nuts, washers, and rivets.....	34.1	40.7	42.7	42.6
Cast-iron pipe.....	32.2	31.9	38.7	38.5
Cutlery (not including silver and plated cutlery) and edge tools.....	40.3	42.9	46.1	46.0
Forgings, iron and steel.....	32.0	40.0	48.0	46.0
Hardware.....	34.0	38.0	41.7	41.1
Iron and steel.....	32.7	37.9	48.8	48.2
Plumbers' supplies.....	40.9	43.1	43.6	43.2
Steam and hot-water heating apparatus and steam fittings.....	35.7	38.0	48.1	47.6
Stoves.....	38.2	39.3	45.3	44.9
Structural and ornamental metal work.....	33.8	35.2	42.1	41.6
Tools (not including edge tools, machine tools, files, and saws).....	32.1	38.6	44.4	45.0
<b>Machinery, not including transportation equipment:</b>				
Agricultural implements.....	32.6	36.6	46.4	45.8
Cash registers, adding machines, and calculating machines.....	38.7	40.7	63.9	62.0
Electrical machinery, apparatus, and supplies.....	34.5	37.8	55.2	53.0
Engines, turbines, tractors, and water wheels.....	35.3	37.3	54.6	53.9
Foundry and machine-shop products.....	32.6	35.9	49.9	49.6
Machine tools.....	31.1	36.3	53.3	53.7
Radios and phonographs.....	44.2	42.1	38.8	37.7
Textile machinery and parts.....	31.7	42.8	54.4	52.4
Typewriters and supplies.....	33.9	35.1	44.7	45.0
<b>Nonferrous metals and their products:</b>				
Aluminum manufactures.....	39.9	43.1	41.3	40.2
Brass, bronze, and copper products.....	38.2	41.4	46.5	46.0
Clocks and watches and time-recording devices.....	36.1	41.5	37.1	35.6
Jewelry.....	33.7	36.5	46.9	44.1
Silverware and plated ware.....	37.6	38.2	44.7	44.6
Smelting and refining—copper, lead, and zinc.....	39.6	41.2	47.2	47.9
Stamped and enameled ware.....	39.7	41.6	38.9	38.5
<b>Transportation equipment:</b>				
Aircraft.....	46.2	42.0	62.0	63.4
Automobiles.....	40.8	40.4	57.0	57.1
Locomotives.....	38.1	39.9	50.2	49.6
Shipbuilding.....	32.7	31.5	56.3	55.0
<b>Railroad repair shops:</b>				
Electric railroad.....	44.4	43.9	56.4	56.3
Steam railroad.....	36.9	36.7	63.0	62.7

TABLE 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN SELECTED **MANUFACTURING** INDUSTRIES, MAY AND JUNE 1933—Continued

Industry	Average hours per week		Average hourly earnings	
	May 1933	June 1933	May 1933	June 1933
Lumber and allied products:	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Furniture.....	36.4	39.7	33.3	32.2
Lumber:				
Millwork.....	40.5	43.3	32.5	32.6
Sawmills.....	39.7	43.0	27.5	27.6
Stone, clay, and glass products:				
Brick, tile, and terra cotta.....	33.7	36.8	31.9	31.9
Cement.....	37.5	38.7	41.0	40.6
Glass.....	39.0	42.1	45.0	44.0
Marble, granite, slate, and other products.....	34.6	35.7	49.9	50.2
Pottery.....	34.5	35.0	39.9	40.0
Leather and its manufactures: Leather.....	44.3	46.6	39.8	41.0
Paper and printing:				
Boxes, paper.....	42.3	44.9	40.5	40.0
Paper and pulp.....	43.3	46.8	41.4	39.9
Printing and publishing:				
Book and job.....	36.8	37.2	66.9	66.4
Newspapers and periodicals.....	41.4	41.0	72.7	73.1
Chemicals and allied products:				
Chemicals.....	43.3	44.6	54.9	54.3
Cottonseed, oil, cake, and meal.....	53.0	58.9	21.4	19.7
Druggists' preparations.....	37.8	40.3	46.2	46.3
Explosives.....	35.0	36.5	55.0	54.3
Fertilizers.....	40.8	45.1	25.0	26.8
Faints and varnishes.....	46.6	47.6	47.0	46.9
Petroleum refining.....	39.3	39.6	63.0	63.2
Rayon and allied products.....	44.6	45.3	37.5	38.3
Soap.....	42.9	43.8	45.9	45.2
Rubber products:				
Rubber goods, other than boots, shoes, tires, and inner tubes.....	40.7	43.3	41.2	42.8
Rubber tires and inner tubes.....	37.7	42.0	58.4	57.9
Tobacco manufactures:				
Chewing and smoking tobacco and snuff.....	44.3	41.4	31.5	32.1
Cigars and cigarettes.....	42.3	42.3	29.4	29.7

### Employment in Building Construction in June 1933

**E**MPLOYMENT in the building-construction industry increased 6.1 percent in June as compared with May and pay rolls increased 4.4 percent over the month interval.

The percents of change of employment and pay-roll totals in June as compared with May are based on returns made by 10,325 firms employing in June 78,445 workers in the various trades in the building-construction industry. These reports cover building operations in various localities in 34 States and the District of Columbia.

**COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, MAY AND JUNE 1933**

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		May 15	June 15		May 15	June 15	
Alabama: Birmingham.....	69	299	302	+1.0	\$3,666	\$4,106	+12.0
California:							
Los Angeles <sup>1</sup> .....	27	721	779	+8.0	16,171	15,685	-3.0
San Francisco-Oakland <sup>1</sup> .....	28	815	805	-1.2	18,212	15,959	-12.4
Other reporting localities <sup>1</sup> .....	18	691	629	-9.0	13,778	14,267	+3.5
Colorado: Denver.....	186	595	619	+4.0	11,269	12,036	+6.8
Connecticut:							
Bridgeport.....	130	524	543	+3.6	11,257	11,287	+ .3
Hartford.....	206	837	977	+16.7	18,345	21,858	+19.1
New Haven.....	170	894	974	+8.9	21,515	23,060	+7.2
Delaware: Wilmington.....	113	919	994	+8.2	17,699	19,467	+10.0
District of Columbia.....	503	7,706	8,327	+8.1	206,972	233,378	+12.8
Florida:							
Jacksonville.....	51	295	375	+27.1	4,860	5,833	+20.0
Miami.....	78	516	637	+23.4	7,818	9,743	+24.6
Georgia: Atlanta.....	139	1,164	1,273	+9.4	17,932	18,072	+ .8
Illinois:							
Chicago <sup>1</sup> .....	134	2,298	2,050	-10.8	77,793	39,983	-48.6
Other reporting localities <sup>1</sup> .....	81	465	595	+28.0	9,992	13,390	+34.0
Indiana:							
Evansville.....	49	303	282	-6.9	4,304	4,371	+1.6
Fort Wayne.....	84	234	262	+12.0	3,452	3,654	+5.9
Indianapolis.....	164	854	1,047	+22.6	15,425	20,497	+32.9
South Bend.....	33	92	101	+9.8	1,260	1,607	+27.5
Iowa: Des Moines.....	99	419	570	+36.0	7,494	10,574	+41.1
Kansas: Wichita.....	66	305	313	+2.6	4,022	5,144	+27.9
Kentucky: Louisville.....	121	811	881	+8.6	12,394	15,512	+25.2
Louisiana: New Orleans.....	119	1,295	1,156	-10.7	18,578	18,622	+ .2
Maine: Portland.....	103	400	384	-4.0	8,281	7,907	-4.5
Maryland: Baltimore <sup>1</sup> .....	103	663	665	+ .3	9,195	9,983	+8.6
Massachusetts: All reporting localities <sup>1</sup> .....	720	4,312	4,395	+1.9	106,114	105,854	- .2
Michigan:							
Detroit.....	450	2,317	2,855	+23.2	43,147	54,642	+26.6
Flint.....	48	131	222	+69.5	1,934	3,152	+63.0
Grand Rapids.....	96	299	367	+22.7	4,261	5,659	+32.8
Minnesota:							
Duluth.....	48	264	278	+5.3	3,709	3,793	+2.3
Minneapolis.....	196	1,199	1,249	+4.2	24,261	26,707	+10.1
St. Paul.....	150	673	779	+15.8	12,290	13,984	+13.8
Missouri:							
Kansas City <sup>2</sup> .....	249	1,319	1,311	- .6	29,478	26,509	-10.1
St. Louis.....	489	2,579	2,480	-3.8	62,899	64,307	+2.2
Nebraska: Omaha.....	134	872	1,151	+32.0	15,471	20,252	+30.9
New York:							
New York City <sup>1</sup> .....	299	5,256	4,871	-7.3	167,881	160,526	-4.4
Other reporting localities <sup>1</sup> .....	209	4,718	4,849	+2.8	117,388	118,236	+ .7
North Carolina: Charlotte.....	40	204	231	+13.2	2,578	2,954	+14.6
Ohio:							
Akron.....	76	204	295	+44.6	2,764	4,264	+54.3
Cincinnati <sup>3</sup> .....	423	2,249	2,134	-5.1	52,883	47,844	-9.5
Cleveland.....	544	2,432	2,614	+4.9	57,216	63,018	+10.1
Dayton.....	116	398	522	+31.2	6,663	9,439	+41.7
Youngstown.....	71	263	267	+1.5	4,890	4,972	+1.7
Oklahoma:							
Oklahoma City.....	76	294	395	+34.4	4,285	6,193	+44.5
Tulsa.....	53	251	223	-11.2	3,465	3,198	-7.7
Oregon: Portland.....	161	602	726	+20.6	10,229	13,607	+33.0
Pennsylvania: <sup>4</sup>							
Erie area <sup>1</sup> .....	28	146	177	+21.2	2,432	2,271	-6.6
Philadelphia area <sup>1</sup> .....	516	4,599	4,879	+6.1	77,669	86,652	+11.6
Pittsburgh area <sup>1</sup> .....	251	1,716	1,800	+4.9	35,629	35,027	-1.7
Reading-Lebanon area <sup>1</sup> .....	52	254	278	+9.4	4,132	4,629	+12.0
Scranton area <sup>1</sup> .....	41	225	232	+3.1	5,170	5,188	+ .3
Other reporting areas <sup>1</sup> .....	333	2,297	2,579	+12.3	35,794	41,338	+15.5
Rhode Island: Providence.....	234	1,258	1,333	+6.0	26,314	27,876	+5.9
Tennessee:							
Chattanooga.....	41	303	285	-5.9	5,828	5,096	-12.6
Knoxville.....	46	430	364	-15.3	4,985	4,680	-6.1
Memphis.....	80	373	453	+21.4	6,070	6,375	+5.0
Nashville.....	64	709	1,040	+46.7	9,742	12,800	+31.4
Texas:							
Dallas.....	158	1,189	1,257	+5.7	18,020	18,249	+1.3
El Paso.....	25	167	141	-15.6	1,810	1,736	-4.1
Houston.....	140	787	823	+4.6	12,160	12,103	- .5
San Antonio.....	119	886	905	+2.1	10,731	12,046	+12.3

<sup>1</sup> Data supplied by cooperating State bureaus.

<sup>2</sup> Includes both Kansas City, Mo., and Kansas City, Kans.

<sup>3</sup> Includes Covington and Newport, Ky.

<sup>4</sup> Each separate area includes from 2 to 6 counties.

**COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, MAY AND JUNE 1933—Continued**

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		May 15	June 15		May 15	June 15	
Utah: Salt Lake City.....	76	350	364	+4.0	4,816	5,809	+20.6
Virginia:							
Norfolk-Portsmouth.....	86	781	962	+23.2	12,762	15,666	+22.8
Richmond.....	143	758	898	+18.5	13,596	17,047	+25.4
Washington:							
Seattle.....	148	466	541	+16.1	8,167	9,736	+19.2
Spokane.....	46	134	175	+30.6	2,160	2,811	+30.1
Tacoma.....	71	153	125	-18.3	2,669	1,901	-28.8
West Virginia: Wheeling.....	45	138	193	+39.9	2,531	3,707	+46.5
Wisconsin: All reporting localities.....	60	780	887	+13.7	12,852	14,100	+9.7
Total, all localities.....	10,325	73,910	78,445	+6.1	1,591,529	1,661,948	+4.4

† Data supplied by cooperating State bureaus.

### Trend of Employment in June 1933, by States

IN THE following table are shown the fluctuations in employment and pay-roll totals in June 1933 as compared with May 1933, in certain industrial groups by States. These tabulations have been prepared from data secured directly from reporting establishments and from information supplied by cooperating State agencies. The combined total of all groups does not include building-construction data, information concerning which is published elsewhere in a separate tabulation by city and State totals. In addition to the combined total of all groups, the trend of employment and pay rolls in the manufacturing, public utility, hotel, wholesale trade, retail trade, bituminous-coal mining, crude-petroleum producing, quarrying and nonmetallic mining, metalliferous mining, laundry, and dyeing and cleaning groups is presented. In this State compilation, the totals of the telephone and telegraph, power and light, and electric-railroad operation groups have been combined and are presented as one group—public utilities. Due to the extreme seasonal fluctuations in the canning and preserving industry, and the fact that during certain months the activity in this industry in a number of States is negligible, data for this industry are not presented separately. The number of employees and the amount of weekly pay roll in May and June 1933 as reported by identical establishments in this industry are included, however, in the combined total of "All groups."

The percents of change shown in the accompanying table, unless otherwise noted, are unweighted percents of change; that is, the industries included in the groups, and the groups comprising the total of all groups, have not been weighted according to their relative importance in the combined totals.

As the anthracite-mining industry is confined entirely to the State of Pennsylvania, the changes reported in this industry in table 1, nonmanufacturing industries, are the fluctuations in this industry by State totals.

When the identity of any reporting company would be disclosed by the publication of a State total for any industrial group, figures for the group do not appear in the separate industrial-group tabulation, but are included in the State totals for "All groups." Data are not presented for any industrial group when the representation in the State covers less than three establishments.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN MAY AND JUNE 1933 BY STATES**

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

State	Total, all groups					Manufacturing				
	Number of establishments	Number on pay roll, June 1933	Percent of change	Amount of pay roll (1 week), June 1933	Percent of change	Number of establishments	Number on pay roll, June 1933	Percent of change	Amount of pay roll (1 week), June 1933	Percent of change
Alabama.....	492	57,515	+11.9	\$642,394	+15.4	200	40,706	+16.3	\$451,321	+23.6
Arizona.....	419	8,155	-3.1	165,598	-2.5	59	2,053	-11.2	40,486	-11.6
Arkansas.....	<sup>1</sup> 451	14,743	+2.6	<i>203,459</i>	+2.8	181	<i>9,949</i>	+6.6	119,776	+4.8
California.....	<sup>2</sup> 4,950	212,668	+1.4	4,895,898	+1.2	841	77,543	+4.4	1,698,84	+4.7
Colorado.....	819	28,502	+4.8	570,166	-4	125	10,540	+8	200,181	+1.0
Connecticut.....	1,103	142,133	+7.0	2,709,905	+13.9	651	121,858	+7.9	2,188,038	+17.5
Delaware.....	134	10,094	+8.6	209,261	+9.2	49	6,916	+5.8	142,854	+12.0
Dist. of Columbia.....	629	30,885	+6	730,115	+1.1	56	3,935	+1	129,019	+1.9
Florida.....	544	21,734	-2.6	333,174	-4.6	126	11,847	+4	151,333	-2.4
Georgia.....	656	84,588	+13.2	1,019,038	+13.9	310	72,068	+16.0	758,365	+21.5
Idaho.....	183	6,567	+9.9	113,571	+11.5	38	3,144	+21.2	54,374	+32.9
Illinois.....	<sup>3</sup> 1,709	<i>291,841</i>	+5.2	<i>6,041,226</i>	+7.0	<i>1,093</i>	<i>183,474</i>	+6.8	<i>3,483,292</i>	+13.1
Indiana.....	1,211	116,050	+8.6	2,182,979	+10.0	546	85,146	+9.6	1,631,935	+12.4
Iowa.....	1,187	42,800	+3.6	804,978	+3.8	445	23,875	+5.7	444,050	+7.4
Kansas.....	<sup>4</sup> 986	<i>60,895</i>	+2.9	<i>1,334,050</i>	+4.0	<i>413</i>	<i>24,282</i>	+4.3	<i>490,276</i>	+2.6
Kentucky.....	821	61,065	+4.6	916,972	+9.7	194	23,606	+8.0	400,388	+14.7
Louisiana.....	509	30,021	+1.8	441,881	+2.5	210	18,627	+5.0	250,777	+7.3
Maine.....	532	42,860	+8.5	716,252	+11.5	175	35,948	+8.3	578,875	+13.0
Maryland.....	<sup>5</sup> 815	<i>76,283</i>	+3.8	<i>1,455,146</i>	+7.7	<i>449</i>	<i>51,842</i>	+4.0	<i>948,754</i>	+8.1
Massachusetts.....	<sup>6</sup> 8,185	<i>345,248</i>	+4.3	<i>7,180,029</i>	+5.7	<i>1,140</i>	<i>170,030</i>	+7.5	<i>3,048,308</i>	+11.3
Michigan.....	1,536	241,010	+7.0	5,370,223	+6.3	419	<i>200,273</i>	+8.2	<i>4,915,185</i>	+16.2
Minnesota.....	1,064	60,744	+3.7	1,244,566	+3.0	268	28,546	+3.8	566,244	+6.3
Mississippi.....	376	8,622	+13.4	106,188	+14.0	70	5,256	+20.9	56,102	+34.5
Missouri.....	1,210	108,524	+3.4	2,186,062	+5.0	521	61,501	+5.7	1,167,562	+8.9
Montana.....	350	8,539	-1.6	200,685	-4	50	2,383	-1.7	48,747	+4.1
Nebraska.....	723	21,685	+2.3	447,489	+1.1	122	10,452	+3.3	214,412	+3.6
Nevada.....	141	1,405	+4.5	34,783	+5.0	24	295	-1.0	7,156	-3.7
New Hampshire.....	492	36,483	+7.0	576,332	+12.3	183	32,303	+7.8	485,632	+15.6
New Jersey.....	1,486	175,151	+4.9	3,866,865	+6.1	<sup>7</sup> 679	<i>162,825</i>	+5.7	<i>5,436,680</i>	+8.1
New Mexico.....	190	4,564	+2.1	74,068	+2.4	25	438	+3.3	7,276	+12.3
New York.....	7,941	511,787	+2.5	12,179,487	+3.3	<sup>8</sup> 1,690	<i>312,006</i>	+4.2	<i>6,861,385</i>	+6.4
North Carolina.....	889	123,346	+12.7	1,437,441	+15.5	526	118,598	+13.3	1,365,235	+16.5
North Dakota.....	355	3,799	+1	77,442	+7	59	1,031	+3.4	23,025	+3.9
Ohio.....	5,003	390,186	+6.6	7,739,703	+11.6	1,908	283,106	+8.4	5,598,711	+15.6
Oklahoma.....	714	28,221	+3.4	478,338	+2.9	106	9,618	+6.6	178,934	+6.0
Oregon.....	707	27,782	+9.1	511,186	+8.4	158	16,432	+13.6	271,438	+22.3
Pennsylvania.....	5,111	584,511	+2.6	10,759,075	+9.3	<i>1,748</i>	<i>331,418</i>	+5.8	<i>5,393,763</i>	+13.2
Rhode Island.....	899	59,796	+10.2	1,111,164	+17.2	260	47,987	+12.4	331,138	+22.8
South Carolina.....	325	57,352	+7.1	573,439	+13.9	182	54,098	+7.6	522,422	+15.7
South Dakota.....	257	5,533	+3.4	129,353	-2.8	46	1,953	+4.6	35,718	-5.4
Tennessee.....	735	65,190	+6.7	896,560	+8.3	265	48,934	+8.7	642,891	+11.3
Texas.....	790	58,174	+3.7	<i>1,247,158</i>	+3.7	388	<i>31,232</i>	+4.4	<i>596,806</i>	+4.3
Utah.....	344	12,006	+1.2	229,990	+2	87	4,077	+4.5	77,004	+3.5
Vermont.....	376	9,532	+11.6	184,692	+18.5	114	5,016	+17.0	96,219	+28.9
Virginia.....	1,274	80,437	+3.2	1,236,338	+5.2	410	55,540	+3.6	812,181	+7.0
Washington.....	1,152	48,786	+5.6	962,947	+2.9	234	23,913	+9.9	438,933	+9.0
West Virginia.....	851	92,558	+1.8	1,496,700	+7.8	169	34,721	+5.3	671,994	+8.6
Wisconsin.....	<sup>9</sup> 1,060	<i>153,186</i>	+7.2	<i>2,535,020</i>	+11.1	<i>781</i>	<i>105,702</i>	+11.7	<i>1,808,078</i>	+19.5
Wyoming.....	198	5,521	-4.0	121,890	+4	26	1,241	-1.2	33,315	+8

<sup>1</sup> Includes automobile dealers and garages, and sand, gravel, and building construction.

<sup>2</sup> State report not received.

<sup>3</sup> Includes building and contracting.

<sup>4</sup> Includes transportation, financial institutions, restaurants, and building construction.

<sup>5</sup> Weighted percent of change.

<sup>6</sup> Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional and transportation service.

<sup>7</sup> Includes laundries.

<sup>8</sup> Includes laundering and cleaning.

<sup>9</sup> Includes construction, but does not include hotels and restaurants.



COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN MAY AND JUNE 1933 BY STATES—Continued

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

State	Wholesale trade					Retail trade				
	Number of establishments	Number on pay roll, June 1933	Per cent of change	Amount of pay roll (1 week), June 1933	Per cent of change	Number of establishments	Number on pay roll, June 1933	Per cent of change	Amount of pay roll (1 week), June 1933	Per cent of change
Alabama.....	16	567	+2.0	\$12,633	-12.2	64	2,013	-2.2	\$29,669	-2.1
Arizona.....	22	188	+5.0	4,850	-2.9	189	1,580	+5	27,223	-3
Arkansas.....	17	409	-8.1	9,347	-7.4	191	1,377	-4.5	22,004	-3
California.....	151	5,121	+8	145,310	-3.8	972	27,041	-9	519,407	+6
Colorado.....	29	937	+2.1	25,405	+2.5	270	4,006	+6.8	76,758	+4.3
Connecticut.....	57	1,209	+1.4	32,842	+7	112	4,857	+5.4	92,121	+3.5
Delaware.....	9	118	+3.5	2,363	+2.4	9	129	-10.4	2,109	+2
Dist. of Columbia.....	32	419	+1.9	12,309	+10	402	10,732	+1.3	215,582	+1.4
Florida.....	47	742	-4	17,505	-3	70	995	-5.7	18,199	-5.7
Georgia.....	33	448	+1.4	12,358	-1.5	27	1,956	-6	29,594	-2.5
Idaho.....	8	111	+2.8	2,969	-2.0	32	275	-4	4,625	+4.4
Illinois.....	30	1,656	-1.9	38,211	-4.5	132	19,733	+4.0	408,362	+10.4
Indiana.....	55	1,029	+1.5	24,977	-1.0	164	5,995	+4.3	95,567	+9
Iowa.....	34	1,034	+1.4	24,498	+7	124	3,079	+4	50,756	+3.4
Kansas.....	69	1,869	+2.6	42,585	+2.1	298	5,181	+6	87,664	+3.6
Kentucky.....	22	410	+7	8,750	+1.1	30	1,908	-1.5	27,831	+4.1
Louisiana.....	31	718	-7	15,014	-2.2	51	2,871	-1	39,774	+1.4
Maine.....	17	412	(1)	9,733	+1.2	68	1,022	-8	18,211	-4
Maryland.....	55	747	-1.6	15,411	-8	38	5,811	+11.2	91,287	+10.4
Massachusetts.....	735	14,076	+1.3	368,886	+1.4	4,262	60,719	+1.4	1,210,574	+1.3
Michigan.....	58	1,582	+1.3	39,613	+1.2	149	10,168	-3	170,916	+2
Minnesota.....	58	3,888	+1.3	102,981	+1.5	283	8,012	+4.1	125,003	-3.9
Mississippi.....	5	116	+2.7	2,105	-7	56	410	+4.3	4,103	+2.1
Missouri.....	59	4,501	+3.3	108,146	-5	133	6,804	+5	126,059	+4.6
Montana.....	12	203	-5	5,566	-1	85	843	+2.6	17,209	+3
Nebraska.....	36	870	+4.1	21,779	+1.6	190	1,704	+1.5	30,789	+9
Nevada.....	7	95	+2.2	2,846	-4.6	40	230	+6.0	5,420	+8.3
New Hampshire.....	15	175	-1.7	4,538	-1.1	73	813	+5.2	11,910	+6.0
New Jersey.....	25	554	-1.2	16,161	-1.2	411	7,201	-1.2	155,945	-1.0
New Mexico.....	8	136	+18.3	4,328	+7.6	47	243	+3.8	5,349	+1.3
New York.....	450	12,510	+3.9	364,108	-1	3,996	69,607	+1.7	1,445,875	+7
North Carolina.....	17	238	+8	5,331	-3.8	171	540	+3.1	10,615	+3.1
North Dakota.....	16	212	+1.0	5,874	-9	34	424	+4.2	6,437	+4.5
Ohio.....	242	4,945	+2.1	119,166	+1.4	1,576	32,950	+2.6	584,810	+3.9
Oklahoma.....	57	822	-2	19,340	-3.9	99	1,618	+1.4	24,890	-2.8
Oregon.....	53	1,108	+1.7	29,434	-8	203	2,167	+1.4	41,549	-2.1
Pennsylvania.....	130	3,601	+9	94,299	-2	344	26,334	+2.5	489,220	+2.0
Rhode Island.....	43	956	+2.6	22,088	+3.2	482	4,629	-2	92,631	+2
South Carolina.....	15	206	+5	4,546	-9	14	397	+1.5	3,636	+1.7
South Dakota.....	10	130	+5.7	3,373	-2.5	12	117	-6.4	1,895	-8.3
Tennessee.....	33	613	+9.5	12,769	+6.4	51	3,243	-1.9	47,454	-1.4
Texas.....	147	2,822	+2.5	68,605	-4	73	6,488	+2.2	105,417	+1.5
Utah.....	15	457	+1.6	10,493	-3.3	82	663	+2.2	13,103	-1.7
Vermont.....	5	119	+5.3	2,789	+4.1	41	444	+4.5	6,346	-1.0
Virginia.....	42	962	+16.7	21,972	+5.9	479	4,680	+2	82,988	+9
Washington.....	90	2,108	+4.3	52,749	-1.5	420	5,999	-1.3	110,354	-2.0
West Virginia.....	29	584	+4.8	14,773	-5	49	860	+4.4	13,705	-1
Wisconsin.....	46	1,753	+5.1	38,093	-2.8	53	8,750	+2.7	122,142	+1.6
Wyoming.....	9	58	+3.6	1,618	+2.3	44	217	+9	5,111	+1.5

<sup>2</sup> State report not received.

<sup>10</sup> Less than one tenth of 1 percent.

<sup>11</sup> No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN MAY AND JUNE 1933 BY STATES—Continued

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

State	Quarrying and nonmetallic mining					Metalliferous mining				
	Number of establishments	Number on pay roll, June 1933	Per cent of change	Amount of pay roll (1 week), June 1933	Per cent of change	Number of establishments	Number on pay roll, June 1933	Per cent of change	Amount of pay roll (1 week), June 1933	Per cent of change
Alabama.....	17	639	+6.5	\$6,951	-0.7	9	1,050	+51.5	\$11,588	+64.9
Arizona.....	3	49	-23.4	642	-14.3	19	2,073	+1.0	45,973	+7.3
Arkansas.....	10	416	+31.6	3,863	+19.2					
California.....	40	1,043	+7.5	21,324	+13.1	25	1,690	+7.5	42,536	+1.9
Colorado.....	3	15	+7.1	187	-21.4	17	898	+1.2	22,273	+6
Connecticut.....	25	263	+6.0	5,025	+4.2					
Delaware.....										
Dist. of Columbia.....										
Florida.....	16	906	+23.8	9,877	+17.2					
Georgia.....	23	1,073	+4	10,093	+6.9					
Idaho.....						7	1,904	+2.5	31,792	-3.4
Illinois.....	22	477	+19.3	9,376	+9.9					
Indiana.....	64	1,480	+16.2	24,200	+25.7					
Iowa.....	25	345	+10.9	4,888	+28.3					
Kansas.....	17	757	+5.3	18,644	+8.4	11	464	+22.4	8,418	+66.4
Kentucky.....	37	935	+23.2	8,743	+36.7					
Louisiana.....	13	656	+3.0	7,179	+13.1					
Maine.....	8	278	+30.5	6,566	+52.2					
Maryland.....	14	231	-21.2	3,718	-8.6					
Massachusetts.....										
Michigan.....	47	1,305	+16.9	18,760	+16.9	38	2,761	-23.0	34,181	-3.1
Minnesota.....	29	397	+5.0	6,166	-5.9	32	641	-14.3	8,692	+4.1
Mississippi.....	9	130	-1.5	1,461	+25.4					
Missouri.....	46	1,106	+18.8	13,383	+14.1	13	1,594	+2.0	16,584	+71.2
Montana.....	8	92	-6.1	1,038	-17.9	15	1,780	+17.8	47,666	+12.1
Nebraska.....	5	212	-31.8	3,255	-13.9					
Nevada.....						14	176	+23.1	4,668	+25.4
New Hampshire.....	13	144	-1.4	3,110	+1.2					
New Jersey.....	32	512	+7.3	9,492	+13.6	3	6	-14.3	146	-5.2
New Mexico.....						5	932	+11.2	15,616	+6.5
New York.....	80	2,167	+4.1	44,350	+3.2					
North Carolina.....	11	196	-8.0	1,727	+9.0					
North Dakota.....										
Ohio.....	131	3,222	+7.5	45,490	+19.6					
Oklahoma.....	20	190	-17.7	1,555	-14.0	31	1,204	+6.5	18,720	+20.7
Oregon.....	5	71	+7.6	1,038	-5.0	4	48	(1)	853	-11.6
Pennsylvania.....	149	5,005	+10.9	74,557	+33.4					
Rhode Island.....										
South Carolina.....	6	82	-24.8	785	-16.2					
South Dakota.....	6	40	+2.6	804	+41.5					
Tennessee.....	30	1,410	+5.3	17,502	+3.6	4	211	+6.6	2,978	+21.9
Texas.....	21	812	+10.6	14,483	+6.1					
Utah.....	6	83	(1)	1,271	-6.0	12	1,977	+2.1	34,637	-1.9
Vermont.....	38	2,128	+11.5	41,272	+15.5					
Virginia.....	26	1,361	+3.8	14,834	+17.7					
Washington.....	18	220	+12.8	3,107	+4.2					
West Virginia.....	19	664	+25.5	8,966	+41.3					
Wisconsin.....	14	181	+64.5	2,370	+60.4					
Wyoming.....										

<sup>2</sup> State report not received.

<sup>11</sup> No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN MAY AND JUNE 1933 BY STATES—Continued[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued  
by cooperating State organizations]

State	Bituminous coal mining					Crude petroleum producing				
	Number of establishments	Number on pay roll, June 1933	Per- cent of change	Amount of pay roll (1 week), June 1933	Per- cent of change	Number of establishments	Number on pay roll, June 1933	Per- cent of change	Amount of pay roll (1 week), June 1933	Per- cent of change
Alabama.....	48	8,687	+0.2	\$72,432	-1.3					
Arizona.....										
Arkansas.....	3	182	(1)	2,547	(1)	9	381	+2.4	\$8,131	-1.7
California.....						140	6,792	+1.9	199,874	-1.7
Colorado.....	52	3,375	-4.0	46,723	-11.9					
Connecticut.....										
Delaware.....										
Dist. of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	34	5,133	-1.0	89,049	+6.3	8	157	+6.1	2,845	-4.8
Indiana.....	48	5,309	+1.7	86,474	+3.1	5	31	-8.8	512	-6.7
Iowa.....	23	1,107	-12.8	18,051	-9.3					
Kansas.....	13	1,302	-3.3	9,766	-27.6	30	1,129	-1.5	23,956	-6.9
Kentucky.....	159	23,955	+2.5	270,724	+12.3	5	209	-1.9	2,966	-5.9
Louisiana.....						8	111	-11.2	2,674	-6.2
Maine.....										
Maryland.....	13	1,160	+1.4	7,676	+11.4					
Massachusetts.....										
Michigan.....	3	19	+5.6	503	+4.8					
Minnesota.....										
Mississippi.....										
Missouri.....	21	1,448	-5.7	15,128	+2.5					
Montana.....	11	465	-34.6	12,258	-12.4	4	38	+31.0	1,037	+48.4
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	14	1,673	-4.4	21,343	-2.3	5	47	+14.6	1,366	-6.9
New York.....						4	67	-1.5	1,481	-5.5
North Carolina.....										
North Dakota.....	5	188	-16.1	2,772	-7.3					
Ohio.....	81	9,883	-1.5	123,998	-1.8	6	51	(1)	559	-14.5
Oklahoma.....	20	354	-6.8	5,485	+1.0	55	3,343	-2.2	71,508	-4.9
Oregon.....										
Pennsylvania.....	452	56,888	+2.1	687,228	+16.1	23	604	+4.0	13,207	-3.0
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	20	2,401	-3.3	22,195	+20.7					
Texas.....	5	314	+8.3	6,472	+22.8	8	7,637	+6.4	260,979	+6.7
Utah.....	17	1,340	-8.7	24,795	-2.9					
Vermont.....										
Virginia.....	36	8,059	+2.1	101,173	+7.6					
Washington.....	10	1,279	-1.2	19,870	+9.5					
West Virginia.....	347	47,200	-1.6	598,839	+10.4	8	305	-5.9	7,074	-6.2
Wisconsin.....										
Wyoming.....	33	3,041	-7.8	60,957	-1.1	7	159	+11.2	3,784	-2.2

<sup>1</sup> State report not received.

(1) No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN MAY AND JUNE 1933, BY STATES—Continued

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

State	Public utilities					Hotels				
	Number of establishments	Number on pay roll, June 1933	Percent of change	Amount of pay roll (1 week), June 1933	Percent of change	Number of establishments	Number on pay roll, June 1933	Percent of change	Amount of pay roll (1 week), June 1933	Percent of change
Alabama.....	89	1,719	+1.2	\$33,804	-3.5	23	1,049	-0.4	\$8,633	-1.0
Arizona.....	67	1,182	+4	29,515	-4.2	19	418	-6.5	5,756	-4.7
Arkansas.....	52	1,613	+2.2	38,356	+4.2	13	530	-24.5	4,224	-17.5
California.....	<sup>2</sup> 1,263	44,081	-7	1,156,644	-2.8	234	9,907	-1.3	146,881	-2.9
Colorado.....	196	5,196	-2.1	129,583	-2.7	66	1,488	+5.7	18,982	+4.9
Connecticut.....	135	9,341	-7	279,703	-3	26	1,028	-1.4	13,414	+3
Delaware.....	28	1,059	-2.0	28,774	-5.9	6	252	+3.3	2,981	-(10)
Dist. of Columbia.....	21	7,915	-5	227,414	+1.2	51	3,803	-3.7	53,647	-7.3
Florida.....	184	3,876	-1.8	97,518	-7.2	59	1,052	-7.1	9,915	-7.1
Georgia.....	186	6,403	-2	172,002	-5.3	28	1,128	-2.8	8,598	-3.1
Idaho.....	55	635	+1.4	12,284	-5.5	24	327	-3.5	3,670	+1.2
Illinois.....	77	66,146	-(10)	1,772,321	-2.7	<sup>12</sup> 45	9,747	+26.2	140,877	+21.1
Indiana.....	131	8,536	+2	200,454	+1.0	81	2,968	-3.3	29,626	-4.7
Iowa.....	423	9,189	+1.7	198,431	-1.4	73	2,231	-6.2	20,018	-7
Kansas.....	27	6,866	+3.8	157,033	+5.7	32	720	-1.2	7,303	-2.5
Kentucky.....	293	6,173	-2	139,910	-2.2	35	1,578	-9.8	16,012	-6.5
Louisiana.....	150	4,138	+1.3	88,728	-2.6	24	1,908	+2.0	19,458	+1.8
Maine.....	166	2,671	-3.0	73,049	+2.9	28	922	+40.3	9,924	+21.5
Maryland.....	94	12,289	-4	329,338	+4.2	24	1,187	-2.7	14,348	-2.3
Massachusetts.....	<sup>13</sup> 134	44,262	+3	1,222,684	+1.4	84	3,303	+2	46,900	-1.2
Michigan.....	411	20,300	-1.1	575,045	+1.7	105	4,851	+11.6	47,866	+6.5
Minnesota.....	225	11,609	+2	302,577	+8	75	2,935	+1.1	32,339	-6.0
Mississippi.....	190	1,611	+2.2	31,302	-5.2	19	527	+9.1	3,689	+7.9
Missouri.....	184	18,942	-1.1	496,468	-1.4	95	4,661	+0.0	53,310	-8
Montana.....	100	1,763	-8.1	49,019	-11.8	29	409	+3.0	5,505	+2.0
Nebraska.....	299	5,482	-3	132,988	-3.3	44	1,502	-3	14,031	-5.1
Nevada.....	36	376	-3.1	10,464	+2.3	14	162	+20.0	2,650	+22.9
New Hampshire.....	140	2,131	-2.2	56,542	-6.9	17	335	+24.1	3,502	+19.2
New Jersey.....	265	21,023	-4	591,769	+2	77	4,240	+12.9	49,224	+6.4
New Mexico.....	49	480	+1.7	9,904	-7	16	335	+9.8	3,407	+9.6
New York.....	880	96,331	-8	3,008,587	-1.4	271	28,808	-1	432,716	-1.1
North Carolina.....	96	1,699	+1.4	33,243	-1.6	33	1,110	-3.0	9,571	-1.8
North Dakota.....	170	1,132	-1.4	27,306	-9	24	388	-3	3,825	-5
Ohio.....	484	31,306	-(10)	794,280	+3	153	8,754	-7	104,446	-6
Oklahoma.....	245	5,778	+4.8	128,056	+5.2	51	1,149	+5	11,102	-3.3
Oregon.....	183	5,496	-9	129,698	-8.0	57	951	+5.4	11,307	+1.5
Pennsylvania.....	823	58,428	-1.0	1,517,374	-1.8	181	9,507	+1.7	113,504	+1.3
Rhode Island.....	43	3,378	+4.4	96,084	+7.2	18	395	+3.9	5,165	+2.0
South Carolina.....	70	1,682	+2.9	33,400	-7	14	428	-9	3,066	-1.5
South Dakota.....	129	918	+3.0	22,836	-2.7	19	323	-1.2	3,617	+3
Tennessee.....	244	4,167	+7	90,355	-3.2	41	2,331	+5.0	19,435	+3.0
Texas.....	115	6,329	+9	168,968	+2.0	43	2,914	-1.6	32,500	-5.1
Utah.....	63	1,588	(11)	33,855	-2.2	12	446	+3.2	5,479	+4.5
Vermont.....	121	981	+2.1	25,370	+5.4	25	559	+6.5	5,619	+7.8
Virginia.....	179	5,569	+1.0	129,272	-4.0	32	1,818	-2.4	19,068	-4
Washington.....	200	9,457	-6	241,067	-4.3	86	2,262	+1.9	24,985	+2.0
West Virginia.....	124	5,626	-1.2	142,643	-2.9	41	1,118	+3.2	11,694	+2.2
Wisconsin.....	<sup>14</sup> 42	10,023	-2	256,298	-3.9	<sup>12</sup> 46	1,381	+3.5	(15)	-----
Wyoming.....	48	412	+2.2	9,904	-8	14	168	+3.7	2,223	+3.9

<sup>2</sup> State report not received.<sup>10</sup> Less than one tenth of 1 percent.<sup>11</sup> No change.<sup>12</sup> Includes restaurants.<sup>13</sup> Includes steam railroads.<sup>14</sup> Includes railways and express.<sup>15</sup> Data not supplied.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN MAY AND JUNE 1933, BY STATES—Continued

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

State	Laundries					Dyeing and cleaning				
	Number of establishments	Number on pay roll, June 1933	Percent of change	Amount of pay roll (1 week), June 1933	Percent of change	Number of establishments	Number on pay roll, June 1933	Percent of change	Amount of pay roll (1 week), June 1933	Percent of change
Alabama.....	5	481	+3.4	\$3,548	+3.9	3	101	-7.3	\$1,062	-7.2
Arizona.....	10	379	( <sup>11</sup> )	5,089	-1.1					
Arkansas.....	13	369	+5	3,345	+4					
California.....	<sup>2</sup> 105	5,890	-6	105,647	+1	15	864	-1.5	16,995	-3.5
Colorado.....	8	574	+7	7,388	+5	10	151	+10.2	2,690	+18.4
Connecticut.....	28	1,289	+4.0	20,988	+8.8	11	244	+8.0	4,996	+7.7
Delaware.....	4	304	+5.2	4,759	+6.7	3	46	+9.5	737	+18.5
Dist. of Columbia.....	18	2,437	+7.6	36,617	+8.6	5	144	+25.2	2,429	+17.8
Florida.....	7	325	-6	2,924	-7.5					
Georgia.....	12	663	+1.2	5,736	-1.4	5	113	-9	1,172	+4.2
Idaho.....										
Illinois.....	<sup>10</sup> 26	1,621	+3.2	21,119	+2.9					
Indiana.....	18	1,437	+3.1	18,310	+2.9	11	200	+1.0	3,079	-4.6
Iowa.....	3	207	+5	2,869	+2.7					
Kansas.....	<sup>10</sup> 37	987	+1.2	15,648	+3					
Kentucky.....	16	1,053	+47.3	9,491	+6.4	5	240	+4.8	3,514	+3.6
Louisiana.....										
Maine.....	17	350	+2.0	4,566	+4.1					
Maryland.....	25	1,896	+6.9	28,061	+7.6	8	405	+2	5,229	+7.2
Massachusetts.....	114	3,732	+1.9	69,632	+3.6	77	2,007	+5.0	33,891	+7.3
Michigan.....	19	1,318	+1.5	15,643	+6.7	15	617	+3.7	10,879	-1.3
Minnesota.....	11	720	+3.9	11,455	+8.1	9	320	+6.3	5,141	+7.7
Mississippi.....	5	244		2,241	+1.6					
Missouri.....	34	2,510	+3.8	33,730	+4.7	12	428	+7.3	6,993	+3.0
Montana.....	14	316	( <sup>11</sup> )	5,415	+2.8					
Nebraska.....	6	521	+7.9	7,126	+11.7	4	107	+2.9	1,856	+2.3
Nevada.....	3	37	-2.6	684	-2.4					
New Hampshire.....	16	272	+4.6	3,994	+4.9					
New Jersey.....	25	2,802	+2.3	55,288	+5.7	8	259	+8.4	6,466	+12.5
New Mexico.....	4	192	-2.0	2,852	-9					
New York.....	70	6,870	+3.5	114,889	+5.0	15	553	+8.6	11,227	+9.1
North Carolina.....	12	755	+3.9	7,677	+4.6					
North Dakota.....	10	198	+5	2,927	+1.4					
Ohio.....	78	4,050	+1.1	58,473	+3.2	39	1,665	+4.1	27,977	+6.0
Oklahoma.....	7	601	+3	7,169	-3.6	3	73	+5.8	768	+3.6
Oregon.....										
Pennsylvania.....	38	2,902	+4.2	41,821	+5.2	20	1,129	+2.8	20,204	+6.0
Rhode Island.....	18	1,082	+1.8	18,412	+7.0	5	342	+11.0	6,031	+6.9
South Carolina.....	8	286	+1.1	2,571	+2.8					
South Dakota.....	7	129	( <sup>11</sup> )	1,681	-8					
Tennessee.....	12	848	+5.2	6,861	+3.0					
Texas.....	22	1,204	+4.6	12,418	+4	15	456	( <sup>11</sup> )	6,937	-1.6
Utah.....	7	503	+1.4	6,859	+3.9	7	109	+1.9	2,037	+6.6
Vermont.....	4	46	-9.8	582	-1.9					
Virginia.....	10	735	+10.0	8,292	+10.9	20	269	+7.6	3,692	+9.4
Washington.....	14	608	( <sup>11</sup> )	1,104	-8	9	110	( <sup>11</sup> )	1,638	+8.8
West Virginia.....	17	600	+2.2	7,514	+3.9	8	191	+5	2,433	-5
Wisconsin.....	<sup>10</sup> 28	977	+7.9	12,617	+2.9					
Wyoming.....	4	80	+2.6	1,396	+6.3					

<sup>2</sup> State report not received.

<sup>11</sup> No change.

<sup>10</sup> Include dyeing and cleaning.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS IN MAY AND JUNE 1933, BY STATES—Continued

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

State	Banks, brokerage, insurance, and real estate				
	Number of establishments	Number on pay roll, June 1933	Percent of change	Amount of pay roll (1 week), June 1933	Percent of change
Alabama.....	15	338	-0.3	\$9,240	-4.2
Arizona.....	28	192	-2.0	5,325	-1.2
Arkansas.....	18	216	+ .5	5,255	+ .4
California.....	1,112	22,611	+ .9	741,777	+2.1
Colorado.....	25	1,027	-1.0	34,452	-1.0
Connecticut.....	57	2,012	- .2	72,483	+1.5
Delaware.....	14	550	+ .7	19,220	+3.2
District of Columbia.....	42	1,316	+ .7	48,766	+1.3
Florida.....	16	419	- .9	15,005	+ .3
Georgia.....	22	625	+2.1	20,240	+1.5
Idaho.....	15	125	-3.1	3,146	-2.1
Illinois.....	85	9,036	- .2	318,898	+ .8
Indiana.....	37	1,137	+ .3	38,591	+1.3
Iowa.....	18	1,079	+ .3	34,654	- .3
Kansas.....	34	798	+1.8	24,866	-2.3
Kentucky.....	18	664	+ .5	24,165	+ .6
Louisiana.....	10	417	-47.5	15,565	-25.2
Maine.....	12	178	+3.5	4,654	(11)
Maryland.....	22	841	+ .7	32,267	+ .4
Massachusetts.....	222	8,029	- .2	255,103	- .1
Michigan.....	128	2,000	-1.3	63,574	-7.5
Minnesota.....	51	2,649	+3.4	74,300	+ .3
Mississippi.....	16	165	+ .6	3,709	- .8
Missouri.....	82	4,689	+ .7	142,118	+1.1
Montana.....	18	204	-1.4	6,310	-1.3
Nebraska.....	13	487	- .4	17,642	+ .5
Nevada.....	33	286	- .3	6,769	- .6
New Hampshire.....	100	12,226	+ .4	365,005	+1.6
New Jersey.....	15	82	-1.2	2,479	+1.1
New Mexico.....	625	47,188	+2.0	1,656,628	+1.7
New York.....	22	180	- .6	3,867	- .4
North Carolina.....	35	206	- .5	4,923	-2.1
North Dakota.....	246	8,068	+5.1	257,067	+4.8
Ohio.....	19	457	+ .2	13,670	+1.2
Oklahoma.....	16	394	-7.5	13,145	-9.7
Oregon.....	804	23,345	+ .3	734,606	+ .4
Pennsylvania.....	28	981	+ .1	39,007	+ .3
Rhode Island.....	8	87	(11)	2,550	+ .6
South Carolina.....	26	182	+ .6	4,492	- .2
South Dakota.....	26	888	+ .1	31,763	+1.9
Tennessee.....	19	1,224	-1.2	33,002	- .4
Texas.....	14	444	- .4	15,680	-2.0
Vermont.....	25	211	+1.9	6,018	-1.1
Virginia.....	34	1,299	+1.6	41,752	+1.8
Washington.....	31	1,154	+ .1	37,846	- .9
West Virginia.....	40	599	+1.2	17,065	+ .4
Wisconsin.....	17	918	+ .2	30,780	-1.2
Wyoming.....	9	80	+1.3	2,350	+1.8

<sup>10</sup> Less than one tenth of 1 percent.

<sup>11</sup> No change.

## Employment and Pay Roll in June 1933 in Cities of Over 500,000 Population

IN THE following table are presented the fluctuations in employment and pay-roll totals in June 1933 as compared with May 1933 in 13 cities of the United States having a population of 500,000 or over. These changes are computed from reports received from identical establishments in each of the months considered.

In addition to including reports received from establishments in the several industrial groups regularly covered in the Bureau's survey, excluding building construction, reports have also been secured from other establishments in these cities for inclusion in these totals. Information concerning employment in building construction is not available for all cities at this time and therefore has not been included.

### FLUCTUATIONS IN EMPLOYMENT AND PAY ROLL IN JUNE 1933 AS COMPARED WITH MAY 1933

Cities	Number of establishments reporting in both months	Number on pay roll		Percent of change	Amount of pay roll (1 week)		Percent of change
		May 1933	June 1933		May 1933	June 1933	
New York City.....	5, 123	306, 295	308, 271	+0.6	\$8, 070, 546	\$8, 090, 373	+0.2
Chicago, Ill.....	1, 818	195, 760	203, 829	+4.1	4, 592, 200	4, 826, 514	+5.1
Philadelphia, Pa.....	852	125, 828	129, 667	+3.1	2, 661, 428	2, 762, 415	+3.8
Detroit, Mich.....	533	143, 263	154, 879	+8.1	3, 383, 848	3, 555, 774	+5.1
Los Angeles, Calif.....	851	64, 073	65, 758	+2.6	1, 471, 501	1, 544, 485	+5.0
Cleveland, Ohio.....	1, 127	85, 502	90, 291	+5.6	1, 725, 746	1, 856, 085	+7.6
St. Louis, Mo.....	515	62, 188	64, 606	+3.9	1, 321, 457	1, 376, 215	+4.1
Baltimore, Md.....	559	44, 116	45, 078	+2.2	835, 801	862, 735	+3.2
Boston, Mass.....	3, 069	91, 439	92, 111	+0.7	2, 208, 306	2, 205, 261	-0.1
Pittsburgh, Pa.....	421	53, 922	55, 245	+2.5	1, 123, 987	1, 154, 507	+2.7
San Francisco, Calif.....	1, 161	47, 346	47, 730	+0.8	1, 130, 996	1, 142, 597	+1.0
Buffalo, N. Y.....	396	37, 337	39, 079	+4.7	802, 510	845, 025	+5.3
Milwaukee, Wis.....	472	37, 143	39, 821	+7.2	720, 474	787, 331	+9.3

## Employment in the Executive Civil Service of the United States June 1933

Comparing June 1933 with June 1932, there was a decrease of 12,799 employees in the executive Civil Service of the United States. Comparing June 1933 with May 1933, there was a decrease of 8,474 employees.

These figures do not include the legislative, judicial, or Army and Navy services. The information as shown in the table was compiled by the various departments and offices of the United States Government and sent to the United States Civil Service Commission where it was assembled. The data were tabulated by the Bureau of Labor Statistics and published here by courtesy of the Civil Service Commission and in compliance with the direction of Congress. No information has as yet been collected relative to amounts of pay rolls. Information is presented for the District of Columbia, for the Federal service outside of the District of Columbia, and for the Government service as a whole. Approximately 12 percent of the total number of Federal workers are employed in the District of Columbia.

TABLE 1.—EMPLOYEES IN THE EXECUTIVE CIVIL SERVICE OF THE UNITED STATES, JUNE 1932, MAY AND JUNE 1933

Item	District of Columbia			Outside the District			Entire Service		
	Perma- nent	Tempo- rary <sup>1</sup>	Total	Perma- nent	Tempo- rary <sup>1</sup>	Total	Perma- nent	Tempo- rary <sup>1</sup>	Total
Number of employees:									
June 1932.....	65,619	3,174	68,793	476,735	32,703	509,438	542,354	35,877	578,231
May 1933.....	64,249	2,311	66,560	472,057	35,289	507,346	536,306	37,600	573,906
June 1933.....	63,067	2,370	65,437	466,443	33,552	499,995	529,510	35,922	565,432
Gain or loss:									
June 1932-June 1933.....	-2,552	-804	-3,356	-10,292	+849	-9,443	-12,844	+45	-12,799
May 1933-June 1933.....	-1,182	+59	-1,123	-5,614	-1,737	-7,351	-6,796	-1,678	-8,474
Percent of change:									
June 1932-June 1933.....	-3.9	-25.3	-4.9	-2.2	+2.6	-1.9	-2.4	+0.1	-2.2
May 1933-June 1933.....	-1.8	+2.6	-1.7	-1.2	-4.9	-1.4	-1.3	-4.5	-1.5
Labor turnover, June 1933:									
Additions.....	260	452	712	1,661	15,598	17,259	1,921	16,050	17,971
Separations.....	1,442	393	1,835	7,275	17,335	24,610	8,717	17,728	26,445
Turnover rate per 100.....	0.41	16.79	1.08	0.35	45.32	3.43	0.36	43.66	3.15

<sup>1</sup> Not including field service of the Post Office Department.

Comparing June 1933 with June 1932, there was a decrease of 3.9 percent in the number of permanent employees in the District of Columbia. Temporary employees decreased 25.3 percent during this period. The total Federal employees in the District of Columbia decreased 3,356, or 4.9 percent. Comparing June 1933 with May 1933, there was a decrease of 1.8 percent in the number of permanent employees and a increase of 2.6 percent in the number of temporary employees, which makes a decrease of 1.7 percent in the total Federal employees in the District of Columbia.

Outside the District of Columbia, the number of permanent employees decreased 1.2 percent and the number of temporary employees decreased 4.9 percent; the total Federal employment decreased 1.5 percent.

Table 2 shows employment and the pay rolls in the Emergency Conservation Corps, sometimes known as the Forest Service.

TABLE 2.—EMPLOYMENT AND PAY ROLLS IN THE EMERGENCY CONSERVATION CORPS, MAY AND JUNE 1933

	Number		Payrolls	
	May	June	May	June
Enrolled personnel.....	186,973	272,219	\$5,839,173	\$8,501,403
Reserve officers—Line.....	1,045	1,132	( <sup>1</sup> )	( <sup>1</sup> )
Reserve officers—Medical.....	472	867	( <sup>1</sup> )	( <sup>1</sup> )
Supervisory and technical.....	2,623	7,236	378,421	873,593
Total.....	191,113	281,454	6,217,594	9,374,996

<sup>1</sup> Data not available.

On May 31, there were in the Emergency Conservation Corps 186,973 enrolled personnel. On June 30, there were 272,219 enrolled personnel. In addition to the men enrolled for forest duty, there were a supervisory and technical civilian force and line and medical Reserve officers in the Emergency Conservation Corps.



There were 191,113 persons employed in the Emergency Conservation Corps as a whole on May 31, 1933. By June 30 this number had increased to 281,454. The pay of the enrolled personnel is \$30 per month, except that 5 percent of the members of each company are paid \$45 per month and an additional 8 percent paid \$36 per month. The pay rolls as shown for the enrolled personnel were figured on this basis. For the month of June, the civilians in the Emergency Conservation Corps were paid over \$9,000,000. Pay-roll data, however, were not available for either the line or medical Reserve officers.

### Employment on Class I Steam Railroads in the United States

**R**EPORTS of the Interstate Commerce Commission for class I railroads show that the number of employees (exclusive of executives and officials) increased from 926,222 on May 15, 1933, to 945,173 on June 15, 1933, or 2 percent. Data are not yet available concerning total compensation of employees for June 1933. The latest pay-roll information available shows an increase from \$102,257,898 in April to \$108,411,242 in May, or 6 percent.

The monthly trend of employment from January 1923 to June 1933 on class I railroads—that is, all roads having operating revenues of \$1,000,000 or over—is shown by index numbers published in the following table. These index numbers are constructed from monthly reports of the Interstate Commerce Commission, using the 12-month average for 1926 as 100.

TABLE 1.—INDEXES OF EMPLOYMENT ON **CLASS I STEAM RAILROADS** IN THE UNITED STATES, JANUARY 1923 TO JUNE 1933

[12-month average, 1926=100]

Month	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933
January.....	98.3	96.6	95.6	95.8	95.5	89.3	88.2	86.3	73.3	61.2	53.0
February.....	98.6	97.0	95.4	96.0	95.3	89.0	88.9	85.4	72.7	60.3	52.7
March.....	100.5	97.4	95.2	96.7	95.8	89.9	90.1	85.5	72.9	60.5	51.5
April.....	102.0	98.9	96.6	98.9	97.4	91.7	92.2	87.0	73.5	60.0	51.8
May.....	105.0	99.2	97.8	100.2	99.4	94.5	94.9	88.6	73.9	59.7	52.5
June.....	107.1	98.0	98.6	101.6	100.9	95.9	96.1	86.5	72.8	57.8	53.6
July.....	108.2	98.1	99.4	102.9	101.0	95.6	96.6	84.7	72.4	56.4	-----
August.....	109.4	99.0	99.7	102.7	99.5	95.7	97.4	83.7	71.2	55.0	-----
September.....	107.8	99.7	99.9	102.8	99.1	95.3	96.8	82.2	69.3	55.8	-----
October.....	107.3	100.8	100.7	103.4	98.9	95.3	96.9	80.4	67.7	57.0	-----
November.....	105.2	99.0	99.1	101.2	95.7	92.9	93.0	77.0	64.5	55.9	-----
December.....	99.4	96.0	97.1	98.2	91.9	89.7	88.8	74.9	62.6	54.8	-----
Average.....	104.1	98.3	97.9	100.0	97.5	92.9	93.3	83.5	70.6	57.9	<sup>1</sup> 52.5

<sup>1</sup> Average for 6 months.

### Wage-Rate Changes in American Industries

#### Manufacturing Industries

**I**N THE following table is presented information concerning wage-rate adjustments occurring between May 15 and June 15, 1933, as shown by reports received from manufacturing establishments supplying employment data to this Bureau. Of the 17,952 manufacturing establishments included in the June survey 17,546 establishments, or

97.7 percent of the total, reported no change in wage rates over the month interval. The 2,584,762 employees not affected by changes in wage rates constituted 92.2 percent of the total number of employees covered by the June trend of employment survey of manufacturing industries.

Increases in wage rates were reported by 350 manufacturing establishments in 46 industries, averaging 8.8 percent and affecting 213,444 employees or 7.6 percent of the employees in the establishments concerned, during the period May 15 to June 15. This is the largest number of establishments reporting wage-rate increases to the Bureau since January 1930. Increases were reported in such important industries as cotton goods, which reported increases averaging 11.5 percent and affecting 76,212 workers, automobiles, boots and shoes, woolen and worsted goods, and rayon. The increases in wage rates reported in June represent in practically all instances a partial restoration of former wage scales.

Decreases in wage rates were reported by 58 establishments in 24 of the 89 industries surveyed. This is the smallest number of establishments reporting wage-rate decreases since December 1930 and represents only 0.3 percent of the total number of establishments covered. These decreases averaged 9.2 percent and affected 4,505 employees or 0.2 percent of all employees in the establishments surveyed.

TABLE 1.—WAGE CHANGES IN **MANUFACTURING** INDUSTRIES DURING MONTH ENDING JUNE 15, 1933

Industry	Estab- lish- ments report- ing	Total number of em- ployees	Number of establish- ments reporting—			Number of employees having—		
			No wage changes	Wage in- creases	Wage de- creases	No wage changes	Wage in- creases	Wage de- creases
All manufacturing industries.....	17, 952	2, 802, 711	17, 546	350	58	2, 584, 762	213, 444	4, 505
Percent of total.....	100. 0	100. 0	97. 7	1. 9	. 3	92. 2	7. 6	. 2
<b>Food and kindred products:</b>								
Baking.....	960	59, 379	948	5	7	59, 326	25	28
Beverages.....	357	23, 073	351	5	1	22, 757	308	8
Butter.....	317	6, 058	317			6, 058		
Confectionery.....	318	33, 225	316	1	1	32, 012	1, 178	35
Flour.....	420	15, 513	417	3		15, 427	86	
Ice cream.....	323	11, 907	320	3		11, 852	55	
Slaughtering and meat pack- ing.....	250	93, 092	245	4	1	92, 716	323	53
Sugar, beet.....	57	4, 089	57			4, 089		
Sugar refining, cane.....	11	6, 113	11			6, 113		
<b>Textiles and their products:</b>								
Fabrics:								
Carpets and rugs.....	27	11, 842	27			11, 842		
Cotton goods.....	651	279, 784	544	107		203, 572	76, 212	
Cotton small wares.....	113	10, 146	112	1		10, 060	86	
Dyeing and finishing tex- tiles.....	152	36, 249	141	11		30, 543	5, 706	
Hats, fur-felt.....	35	5, 451	35			5, 451		
Knit goods.....	438	112, 378	432	6		107, 488	4, 890	
Silk and rayon goods.....	242	47, 507	233	9		43, 170	4, 337	
Woolen and worsted goods.....	236	71, 062	193	42	1	54, 512	16, 379	171
<b>Wearing apparel:</b>								
Clothing, men's.....	398	63, 908	391	5	2	62, 714	1, 064	130
Clothing, women's.....	476	25, 854	474	2		25, 758	96	
Corsets and allied gar- ments.....	34	5, 719	34			5, 719		
Men's furnishings.....	76	7, 844	75	1		7, 831	13	
Millinery.....	139	9, 690	139			9, 690		
Shirts and collars.....	118	16, 431	113	5		15, 542	889	

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING JUNE 15, 1933—Continued

Industry	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage changes	Wage increases	Wage decreases	No wage changes	Wage increases	Wage decreases
Iron and steel and their products, not including machinery:								
Bolts, nuts, washers, and rivets.....	70	9,672	68	2	-----	9,414	258	-----
Cast-iron pipe.....	36	4,713	36	-----	-----	4,713	-----	-----
Cutlery (not including silver and plated cutlery) and edge tools.....	129	8,698	129	-----	-----	8,698	-----	-----
Forgings, iron and steel.....	65	6,046	65	-----	-----	6,046	-----	-----
Hardware.....	106	21,861	104	2	-----	21,757	104	-----
Iron and steel.....	205	199,580	204	1	-----	199,471	109	-----
Plumbers' supplies.....	68	8,469	68	-----	-----	8,469	-----	-----
Steam and hot-water heating apparatus and steam fittings.....	93	14,649	93	-----	-----	14,649	-----	-----
Stoves.....	159	17,843	157	1	1	17,752	75	16
Structural and ornamental metalwork.....	182	12,904	177	1	4	12,738	29	137
Tin cans and other tinware.....	60	9,102	60	-----	-----	9,102	-----	-----
Tools (not including edge tools, machine tools, files, and saws).....	128	7,003	126	1	1	6,639	361	3
Wirework.....	67	6,194	67	-----	-----	6,194	-----	-----
Machinery, not including transportation equipment:								
Agricultural implements.....	75	6,844	74	-----	1	6,836	-----	8
Cash registers, adding machines, and calculating machines.....	38	13,768	38	-----	-----	13,768	-----	-----
Electrical machinery, apparatus, and supplies.....	282	90,885	279	3	-----	90,588	297	-----
Engines, turbines, tractors, and water wheels.....	91	16,210	88	3	-----	15,734	476	-----
Foundry and machine-shop products.....	1,044	100,837	1,035	6	3	97,366	3,408	63
Machine tools.....	145	10,753	145	-----	-----	10,753	-----	-----
Radios and phonographs.....	29	11,313	29	-----	-----	11,313	-----	-----
Textile machinery and parts.....	50	7,688	48	2	-----	7,516	172	-----
Typewriters and supplies.....	17	8,000	17	-----	-----	8,000	-----	-----
Nonferrous metals and their products:								
Aluminum manufactures.....	27	5,319	27	-----	-----	5,319	-----	-----
Brass, bronze, and copper products.....	177	26,187	176	1	-----	26,117	70	-----
Clocks and watches and time-recording devices.....	27	7,327	26	1	-----	5,311	2,016	-----
Jewelry.....	133	7,340	133	-----	-----	7,340	-----	-----
Lighting equipment.....	51	2,741	51	-----	-----	2,741	-----	-----
Silverware and plated ware.....	51	7,311	51	-----	-----	7,311	-----	-----
Smelting and refining—copper, lead, and zinc.....	44	9,932	41	3	-----	9,181	751	-----
Stamped and enameled ware.....	89	13,510	89	-----	-----	13,510	-----	-----
Transportation equipment:								
Aircraft.....	24	6,652	24	-----	-----	6,652	-----	-----
Automobiles.....	234	192,625	213	21	-----	150,221	42,404	-----
Cars, electric and steam railroad.....	42	4,170	42	-----	-----	4,170	-----	-----
Locomotives.....	11	1,491	11	-----	-----	1,491	-----	-----
Shipbuilding.....	96	22,484	96	-----	-----	22,484	-----	-----
Railroad repair shops:								
Electric railroad.....	391	20,123	382	2	7	19,350	84	689
Steam railroad.....	508	66,842	508	-----	-----	66,842	-----	-----
Lumber and allied products:								
Furniture.....	447	44,532	439	6	2	43,702	720	110
Lumber:								
Millwork.....	460	18,410	452	6	2	16,519	1,877	14
Sawmills.....	610	62,480	596	11	3	59,633	2,483	364
Turpentine and rosin.....	24	1,367	24	-----	-----	1,367	-----	-----
Stone, clay, and glass products:								
Brick, tile, and terra cotta.....	663	18,484	654	5	4	18,077	314	93
Cement.....	124	15,336	124	-----	-----	15,336	-----	-----
Glass.....	191	41,479	190	1	-----	41,449	30	-----
Marble, granite, slate, and other products.....	216	4,850	214	-----	2	4,781	-----	69
Pottery.....	117	15,213	117	-----	-----	15,213	-----	-----

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING JUNE 15, 1933—Continued

Industry	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage changes	Wage increases	Wage decreases	No wage changes	Wage increases	Wage decreases
Leather and its manufactures:								
Boots and shoes.....	330	111,861		20	-----	86,410	25,451	-----
Leather.....	153	27,303	142	11	-----	22,230	5,073	-----
Paper and printing:								
Boxes, paper.....	316	21,427	315	1	-----	21,280	147	-----
Paper and pulp.....	389	78,527	377	8	4	75,774	1,520	1,233
Printing and publishing:								
Book and job.....	764	43,403	759	1	4	42,707	9	687
Newspapers and periodicals.....	465	68,013	461	2	2	67,617	243	153
Chemicals and allied products:								
Chemicals.....	110	21,461	108	-----	2	21,144	-----	317
Cottonseed, oil, cake, and meal.....	112	3,073	111	-----	1	3,033	-----	40
Druggists' preparations.....	45	6,859	45	-----	-----	6,859	-----	-----
Explosives.....	30	3,298	30	-----	-----	3,298	-----	-----
Fertilizers.....	202	6,078	202	-----	-----	6,078	-----	-----
Paints and varnish.....	350	16,446	345	4	1	16,275	167	4
Petroleum refining.....	131	50,183	131	-----	-----	50,183	-----	-----
Rayon and allied products.....	23	30,303	12	11	-----	18,159	12,144	-----
Soap.....	98	15,087	98	-----	-----	15,087	-----	-----
Rubber products:								
Rubber boots and shoes.....	9	8,965	9	-----	-----	8,965	-----	-----
Rubber goods, other than boots, shoes, tires, and inner tubes.....	99	20,022	98	1	-----	19,415	607	-----
Rubber tires and inner tubes.....	45	51,826	43	2	-----	51,428	398	-----
Tobacco manufactures:								
Chewing and smoking tobacco and snuff.....	32	10,155	32	-----	-----	10,155	-----	-----
Cigars and cigarettes.....	205	42,870	204	-----	1	42,790	-----	80

## Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between May 15 and June 15, 1933, in 15 groups of nonmanufacturing industries are presented in the following table.

No change in wage rates was reported in the anthracite mining industry. Both increases and decreases were reported in 11 of the remaining 14 industries over the month interval. The average percents of increase reported were as follows: Dyeing and cleaning, 30.7 percent; canning and preserving, 24.9 percent; laundries, 20 percent; quarrying and nonmetallic mining, 18 percent; wholesale trade, 12.6 percent; bituminous coal mining, 10.6 percent; metalliferous mining, 10.5 percent; banks, brokerage, insurance, and real estate, 9 percent; hotels, 8.8 percent; retail trade, 6.6 percent; and electric-railroad and motor-bus operation, 2.5 percent. The average percents of decrease reported were as follows: Telephone and telegraph, 20 percent; crude petroleum producing, 14.9 percent; hotels, 14.6 percent; laundries, 14.1 percent; quarrying and nonmetallic mining, 13 percent; power and light, 12.2 percent; banks, brokerage, insurance, and real estate, 11.8; retail trade, 11.2 percent; wholesale trade, 10.2 percent; electric-railroad and motor-bus operation, 6.7 percent; and bituminous-coal mining, 4 percent.

TABLE 2—WAGE CHANGES IN NONMANUFACTURING INDUSTRIES DURING  
MONTH ENDING JUNE 15, 1933

Industrial group	Estab- lish- ments report- ing	Total number of employ- ees	Number of establish- ments reporting—			Number of employees having—		
			No wage changes	Wage in- creases	Wage de- creases	No wage changes	Wage in- creases	Wage de- creases
Anthracite mining.....	160	53,984	160			53,984		
Percent of total.....	100.0	100.0	100.0			100.0		
Bituminous-coal mining.....	1,480	185,709	1,390	89	1	166,829	18,804	76
Percent of total.....	100.0	100.0	93.9	6.0	0.1	89.8	10.1	( <sup>1</sup> )
Metalliferous mining.....	278	21,509	270	8		20,820	689	
Percent of total.....	100.0	100.0	97.1	2.9		96.8	3.2	
Quarrying and nonmetallic min- ing.....	1,135	32,149	1,116	17	2	31,802	336	11
Percent of total.....	100.0	100.0	98.3	1.5	0.2	98.9	1.0	( <sup>1</sup> )
Crude petroleum producing.....	256	23,119	252		4	22,945		174
Percent of total.....	100.0	100.0	98.4		1.6	99.2		0.8
Telephone and telegraph.....	8,286	249,412	8,278		8	249,293		119
Percent of total.....	100.0	100.0	99.9		0.1	100.0		( <sup>1</sup> )
Power and light.....	3,181	195,665	3,164		17	194,519		1,146
Percent of total.....	100.0	100.0	99.5		0.5	99.4		0.6
Electric-railroad and motor-bus operation and maintenance.....	572	133,213	561	1	10	129,153	916	3,144
Percent of total.....	100.0	100.0	98.1	0.2	1.7	97.0	0.7	2.4
Wholesale trade.....	3,025	77,536	2,998	14	13	77,169	243	124
Percent of total.....	100.0	100.0	99.1	0.5	0.4	99.5	0.3	0.2
Retail trade.....	17,879	363,296	17,843	6	30	362,865	164	267
Percent of total.....	100.0	100.0	99.8	( <sup>1</sup> )	0.2	99.9	( <sup>1</sup> )	0.1
Hotels.....	2,656	132,178	2,644	8	4	131,792	271	115
Percent of total.....	100.0	100.0	99.5	0.3	0.2	99.7	0.2	0.1
Canning and preserving.....	818	43,145	813	5		42,830	315	
Percent of total.....	100.0	100.0	99.4	0.6		99.3	0.7	
Laundries.....	945	55,495	942	1	2	55,400	13	22
Percent of total.....	100.0	100.0	99.7	0.1	0.2	99.9	( <sup>1</sup> )	( <sup>1</sup> )
Dyeing and cleaning.....	337	11,858	335	2		11,827	31	
Percent of total.....	100.0	100.0	99.4	0.6		99.7	0.3	
Banks, brokerage, insurance, and real estate.....	4,320	162,325	4,277	27	16	160,796	1,094	435
Percent of total.....	100.0	100.0	99.0	0.6	0.4	99.1	0.7	0.3

<sup>1</sup> Less than one tenth of 1 percent.

