

**UNITED STATES DEPARTMENT OF LABOR**

**FRANCES PERKINS, Secretary**

**BUREAU OF LABOR STATISTICS**

**ISADOR LUBIN, Commissioner**

**TREND OF EMPLOYMENT**

**JULY 1933**



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# TREND OF EMPLOYMENT

July 1933

**T**HE Bureau of Labor Statistics of the United States Department of Labor presents in the following tables, data compiled from payroll 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 89 of the principal manufacturing industries of the country is shown, following which are presented tabulations showing the changes in employment and pay rolls in the 16 nonmanufacturing industries 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 July 1933

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

**I**NCREASES of 7.2 percent in employment and 7.9 percent in pay rolls were shown in manufacturing industries in July 1933 as compared with June 1933. The level of employment in July of the present year is 21.9 percent above the level of July 1932, in which month the lowest point of employment and pay rolls in the year 1932 was recorded. Pay rolls in July 1933 show a gain of 28.5 percent over the year interval.

The index of employment in July 1933 was 67.3 as compared with 62.8 in June 1933, 58.7 in May 1933, and 55.2 in July 1932; the payroll index in July 1933 was 46.5 as compared with 43.1 in June 1933, 38.9 in May 1933, and 36.2 in July 1932. The 12-month average for 1926 equals 100.

These changes in employment and pay rolls in July 1933 are based on reports supplied by 18,090 establishments in 89 of the principal manufacturing industries of the United States. These establishments reported 3,023,831 employees on their pay rolls during the pay period ending nearest July 15 whose combined weekly earnings were \$54,553,744. The employment reports received from these cooperating establishments cover approximately 50 percent of the total number of wage earners in all manufacturing industries of the country.

The recent broad expansion in manufacturing industries which began in April and which was reflected by increases in employment in 72 of the 89 manufacturing industries surveyed in May and 79 industries in June, continued in July, 77 industries reporting increases in number of wage earners over the month interval and 71 industries reporting increases in weekly pay-roll totals.

(1)

There are a number of factors which make these impressive gains in factory employment and pay rolls in July of even greater significance than is at first apparent. A marked decline in employment and a more pronounced decrease in pay rolls in July has been invariably reported in previous years, due to the customary closing down for repairs and inventory during the first part of the month, the beginning of vacation periods, and the effect of the July 4 holiday on pay rolls covering more than a 1-week period. These usual conditions were reported to some extent in July 1933, together with a number of strikes and labor disturbances in various localities. These retarding factors, however, failed to halt the general expansion in business activity in July 1933, and instead of the customary decreases in July an increase of 7.2 percent in employment and 7.9 percent in pay rolls is shown.

The increase of 7.2 percent in employment in July indicates a return to employment of approximately 400,000 workers since June 15, and the increase of 7.9 percent in pay rolls between June and July represents an estimated increase of \$7,500,000 paid in weekly wages to factory workers in July over the weekly earnings paid in June.

These continued monthly expansions in employment and pay rolls in manufacturing industries have brought the level of factory employment in July 1933 to the highest point registered since October 1931, and the index of pay rolls has reached the highest point recorded since March 1932.

Thirteen of the fourteen groups of manufacturing industries reported increases in employment and pay rolls between June and July, the tobacco group alone failing to report gains in both items over the monthly interval. The transportation group reported the most pronounced gain in employment (12.6 percent) due largely to continued gains in number of workers in the automobile industry, which reported a further increase of 13.2 percent in July as compared with June. The rubber-products group reported an increase of 11.8 percent in employment between June and July, due to pronounced gains in the rubber footwear, automobile tire, and other rubber-goods industries. The iron and steel group reported a gain of 10.9 percent in employment over the month interval. Each of the 13 industries comprising this group reported increases in employment, the iron and steel industry reporting the most pronounced gain, 13.9 percent, and the stove, tool, wirework, bolt and nut, steam fitting, and structural-ironwork industries also reporting large gains in number of workers from June to July. The lumber products group reported a gain of 10.3 percent in employment between June and July, the sawmill and millwork industries reporting gains of 13 percent and 11.1 percent, respectively, with smaller increases shown in the furniture and turpentine and rosin industries. Increases in employment ranging from 7.1 percent to 7.9 percent were reported in the leather, stone-clay-glass, textile, and machinery groups. The railroad repair shop group reported a gain of 6.7 percent in employment and the nonferrous metals group reported a gain of 6.6 percent. The chemical group reported an increase of 5.5 percent in employment between June and July, and the increases in the remaining two groups, paper and printing, and food, were 2 percent and 1.8 percent, respectively. The decreases in employment and pay rolls in the tobacco manufactures group were 1.3 and 0.2 percent, respectively.

The most pronounced gain in employment in any of the separate manufacturing industries was reported in the electric and steam railroad car-building industry in which a gain of 24.7 percent was shown between June and July. The brick industry reported an increase of 19.1 percent in number of workers in July, as compared with June, and the carpet industry reported a gain of 18.7 percent in employment. The textile machinery industry reported an increase of 16.6 percent in employment over the month interval, rubber footwear 15.8 percent, cash registers 14.4 percent, and silk 14 percent. Other industries reporting increases of more than 10 percent in employment were: Woolen, 13.1 percent; bolts and nuts, 13 percent; stoves, 12.8 percent; tires, 12.5 percent; cottonseed oil, cake, and meal, 12.3 percent, smelting and refining—copper, lead, and zinc, 12.2 percent; brass, bronze, and copper products, 11.8 percent; locomotives, 11.5 percent; cotton small wares, 11.4 percent; tools, 10.8 percent; and cotton goods and explosives, 10.5 percent each.

Other pronounced gains in employment in industries of major importance were as follows: Marble, slate, and granite, 10 percent; chemicals, 9.2 percent; men's clothing 9.1 percent; rayon, 8.2 percent; foundry and machine-shop products and structural metal work, 8.1 percent each; boots and shoes, 7.5 percent; electrical machinery, 7.3 percent; machine tools, 6.7 percent; leather, 6.4 percent; hardware, 6.3 percent; paper and pulp, 5.9 percent; and furniture, 5.1 percent. Among the 12 industries in which decreases in employment were reported between June and July 1933, the silverware industry reported the most pronounced decline, 16.2 percent, due largely to vacations in a number of establishments, while the millinery and women's clothing industries also reported sharp declines in employment, which are seasonal at this period of the year. The jewelry industry reported a decrease of 4.9 percent in employment; chewing tobacco, 3.9 percent; confectionery, 3.8 percent; and corsets, 1.4 percent. The decreases in employment reported in the remaining 5 industries were less than 1 percent.

Comparing the level of employment in July 1933 with the level of employment in July 1932, 71 industries show more employees on the pay rolls in July 1933 than in July 1932. Only 18 industries failed to register increases in employment over the year interval. In a number of instances the increases in employment were spectacular. Employment in the beverage industry, due to the resumption of operations of breweries, stands 109.1 percent above the level of July 1932. The index of employment in the woolen and worsted goods industry in July 1933 is 85.4 percent above the level of the corresponding month of 1932, and the cotton goods index of employment is 82.7 percent above the level of July 1932. Establishments engaged in the manufacture of rayon and allied products reported an increase of 80.4 percent in number of workers over the 12-month interval; silk goods show an increase of 64.5 percent over the same period. Additional industries reporting pronounced gains in employment between July 1932 and July 1933 are: Textile machinery, 75.7 percent; carpets and rugs, 58.1 percent; stoves, 47.9 percent; radios, 50.6 percent; agricultural implements, 46 percent; shirts and collars, 38 percent; and men's clothing, 35.1 percent.

In table 1, which follows, are shown the number of identical establishments reporting in both June and July 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 July 15, the amount of their earnings for 1 week in July, the percents of change over the month and year intervals, and the indexes of employment and pay roll in July 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 JULY 1933 WITH JUNE 1933 AND JULY 1932

Industry	Estab- lish- ments report- ing in both June and July 1933	Employment		Pay-roll totals				Index num- bers July 1933 (average 1926=100)	
		Number on pay roll, July 1933	Percent of change		Amount of pay roll (1 week), July 1933	Percent of change		Em- ploy- ment	Pay- roll totals
			June to July 1933	July 1932 to July 1933		June to July 1933	July 1932 to July 1933		
<b>Food and kindred prod- ucts</b>	<b>3,064</b>	<b>261,881</b>	<b>+1.8</b>	<b>+11.0</b>	<b>\$5,449,488</b>	<b>+3.0</b>	<b>+7.5</b>	<b>88.1</b>	<b>71.8</b>
Baking.....	965	63,873	+1.4	-1.5	1,393,071	+2.8	-4.8	80.4	65.5
Beverages.....	359	22,943	+3.8	+109.1	646,820	+2.7	+122.4	166.9	155.7
Butter.....	311	5,857	+9	-1.7	118,299	+2.0	-11.4	102.9	77.3
Confectionery.....	320	32,095	-3.8	+20.6	405,513	-2.3	+10.0	70.8	47.5
Flour.....	423	16,540	+6.2	+5.6	348,181	+12.8	+2.6	87.9	70.6
Ice cream.....	365	12,711	+2.5	-4.1	318,567	+1.8	-13.3	80.0	59.8
Slaughtering and meat packing.....	247	94,877	+2.8	+8.9	1,911,542	+2.5	+6.4	92.8	74.4
Sugar, beet.....	61	4,710	+7.5	+28.7	99,300	+10.9	+21.1	52.5	40.1
Sugar refining, cane.....	13	8,276	+2.6	+6.1	208,205	+4.0	+3.0	80.4	71.5
<b>Textiles and their prod- ucts</b>	<b>3,206</b>	<b>764,161</b>	<b>+7.1</b>	<b>+56.2</b>	<b>10,164,781</b>	<b>+9.3</b>	<b>+79.4</b>	<b>86.4</b>	<b>57.6</b>
Fabrics.....	1,903	628,671	+9.7	+65.8	8,306,084	+11.3	+94.5	93.7	66.9
Carpets and rugs.....	27	16,133	+18.7	+58.1	287,066	+19.4	+117.2	70.2	50.6
Cotton goods.....	670	310,445	+10.5	+82.7	3,530,577	+13.2	+124.0	101.4	73.7
Cotton small wares.....	111	11,122	+11.4	+43.4	173,512	+15.0	+70.5	99.4	76.4
Dyeing and finish- ing textiles.....	153	40,683	+9.2	+38.1	749,304	+7.4	+70.9	88.5	64.6
Hats, fur-felt.....	27	5,275	+3.0	+18.7	104,149	+5.1	+41.4	70.5	46.1
Knit goods.....	440	114,229	+1.6	+34.2	1,431,897	-8	+48.5	90.6	59.2
Silk and rayon goods.....	238	53,031	+14.0	+64.5	708,366	+18.5	+80.6	68.1	46.6
Woolen and worsted goods.....	237	77,753	+13.1	+85.4	1,321,273	+14.0	+114.1	105.5	82.2
Wearing apparel.....	1,303	135,490	-6	+32.2	1,858,697	+3.4	+42.9	69.0	39.3
Clothing, men's.....	397	70,285	+9.1	+35.1	1,023,802	+22.9	+74.6	76.2	45.4
Clothing, women's.....	543	25,802	-13.0	+30.6	382,666	-8.4	+21.1	59.3	31.0
Corsets and allied garments.....	35	6,060	-1.4	+9.4	83,478	-5.3	+16.1	99.4	73.4
Men's furnishings.....	73	7,817	+5.9	+43.1	83,248	-2	+31.3	66.7	37.3
Millinery.....	140	8,195	-14.8	+24.4	115,446	-20.9	+17.9	58.6	33.6
Shirts and collars.....	115	17,331	+8.7	+38.0	170,057	+3.2	+45.6	70.8	44.4
<b>Iron and steel and their products, not includ- ing machinery</b>	<b>1,379</b>	<b>363,539</b>	<b>+10.9</b>	<b>+25.8</b>	<b>6,751,472</b>	<b>+14.2</b>	<b>+77.9</b>	<b>64.9</b>	<b>41.1</b>
Bolts, nuts, washers, and rivets.....	70	10,920	+13.0	+31.8	197,351	+12.5	+67.8	82.5	53.2
Cast-iron pipe.....	33	4,368	+9.2	(1)	60,661	+12.2	+5.3	32.1	18.0
Cutlery (not including silver and plated cut- lery) and edge tools.....	126	8,552	+2.1	-6	165,198	+6.9	+10.4	61.8	44.6
Forgings, iron and steel.....	66	6,651	+6.3	+22.4	122,004	+6.5	+38.1	67.1	41.7

<sup>1</sup> No change.

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

Industry	Estab- lish- ments report- ing in both June and July 1933	Employment			Pay-roll totals				Index num- bers July 193 (average 1923=100)	
		Number on pay roll, July 1933	Percent of change		Amount of pay roll (1 week), July 1933	Percent of change				
			June to July 1933	July 1932 to July 1933		June to July 1933	July 1932 to July 1933	Em- ploy- ment	Pay- roll totals	
<b>Iron and steel and their products—Continued.</b>										
Hardware.....	105	22,964	+6.3	+17.4	\$363,284	+12.5	+53.7	55.9	33.2	
Iron and steel.....	205	227,159	+13.9	+30.8	4,359,927	+19.2	+117.3	67.6	42.8	
Plumbers' supplies.....	68	8,682	+6.0	+33.1	138,945	-6.6	+57.0	81.7	48.5	
Steam and hot-water heating apparatus and steam fittings.....	98	16,233	+7.6	+32.3	297,039	+9.2	+48.1	43.0	27.4	
Stoves.....	160	19,220	+12.8	+47.9	352,522	+13.6	+75.6	60.2	38.1	
Structural and ornamental metalwork.....	194	14,722	+8.1	-5.8	221,567	+5.2	-11.6	42.6	22.1	
Tin cans and other tinware.....	61	9,543	+4.8	+10.1	191,062	+5.0	+21.4	82.7	52.8	
Tools (not including edge tools, machine tools, files, and saws).....	124	7,677	+10.8	+18.1	142,500	+15.1	+58.1	69.9	46.0	
Wirework.....	69	6,848	+8.8	+30.0	139,412	+10.9	+81.8	113.5	97.1	
<b>Machinery, not including transportation equipment.</b>	1,785	289,011	+7.9	+8.9	5,564,714	+10.9	+26.6	52.0	34.7	
Agricultural implements.....	78	7,192	+4.1	+46.0	116,439	-5	+54.3	28.9	21.6	
Cash registers, adding machines, and calculating machines.....	37	14,372	+14.4	+14.8	358,658	+16.2	+32.3	80.8	62.2	
Electrical machinery, apparatus and supplies.....	282	89,748	+7.3	-3.8	1,819,377	+10.2	+9.2	53.4	40.4	
Engines, turbines, tractors, and water wheels.....	88	17,198	+7.2	+8.9	352,063	+5.8	+23.4	45.4	29.5	
Foundry and machine-shop products.....	1,048	109,377	+8.1	+11.0	2,023,300	+13.0	+32.2	50.3	30.8	
Machine tools.....	146	11,265	+6.7	+8.5	226,207	+8.8	+23.6	33.3	22.0	
Radios and phonographs.....	42	22,730	+2.1	+50.6	335,461	-14.9	+16.5	94.1	55.7	
Textile machinery and parts.....	48	8,832	+16.6	+75.7	198,505	+24.7	+172.7	72.9	58.9	
Typewriters and supplies.....	16	8,297	+6.8	+9	134,704	+14.8	+26.0	57.7	36.4	
<b>Nonferrous metals and their products.</b>	620	87,183	+6.6	+21.7	1,601,803	+6.2	+36.8	59.5	49.9	
Aluminum manufactures.....	26	5,682	+6.8	+25.5	98,995	+5.5	+70.6	55.7	37.2	
Brass, bronze, and copper products.....	206	34,474	+11.8	+29.5	678,761	+14.6	+60.8	64.5	46.0	
Clocks and watches and time-recording devices.....	24	6,612	+1.6	+32.7	102,485	+17.0	+46.8	40.6	27.9	
Jewelry.....	134	6,918	-4.9	+10.3	122,305	-4.2	+12.2	34.2	22.0	
Lighting equipment.....	52	2,951	+5.9	+42.0	53,342	+4.1	+45.6	68.6	49.8	
Silverware and plated ware.....	51	6,038	-16.2	-5.4	108,501	-15.1	-1.3	50.4	31.4	
Smelting and refining—copper, lead, and zinc.....	39	10,335	+12.2	+10.0	209,905	+18.2	+24.3	63.8	45.6	
Stamped and enameled ware.....	88	14,173	+6.1	+25.6	227,509	+4.4	+34.0	71.2	45.3	
<b>Transportation equipment.</b>	411	264,365	+12.6	-1.1	5,713,607	+6.9	+7	56.2	41.7	
Aircraft.....	29	7,113	+1	+39.3	186,103	-4.2	+23.2	251.4	223.4	
Automobiles.....	233	226,145	+13.2	+1.0	4,915,867	+6.3	+5.9	59.8	44.8	
Cars, electric and steam railroad.....	42	5,198	+24.7	-3.6	78,902	+25.6	-17.5	19.0	9.4	
Locomotives.....	11	1,663	+11.5	-28.3	33,664	+20.0	-32.2	11.9	8.2	
Shipbuilding.....	96	24,246	+8.9	-17.7	499,071	+11.3	-30.8	62.7	44.1	
<b>Railroad repair shops.</b>	914	92,884	+6.7	+1.9	2,063,872	+4.6	+6.7	48.0	36.5	
Electric railroad.....	890	19,437	-5	-8.2	473,733	-2.2	-14.7	62.6	48.7	
Steam railroad.....	524	72,647	+7.4	+3.1	1,590,139	+5.6	+9.9	46.9	35.6	

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

Industry	Estab- lish- ments report- ing in both June and July 1933	Employment		Pay-roll totals				Index num- bers July 1933 (average 1926=100)	
		Number on pay roll, July 1933	Percent of change	Amount of pay roll (1 week), July 1933	Percent of change				
						June to July 1933	July 1932 to July 1933	June to July 1933	July 1932 to July 1933
<b>Lumber and allied prod- ucts</b> .....	<b>1,533</b>	<b>137,588</b>	<b>+10.3</b>	<b>+20.9</b>	<b>\$1,817,512</b>	<b>+13.0</b>	<b>+27.7</b>	<b>44.0</b>	<b>24.4</b>
Furniture.....	440	46,074	+5.1	+25.3	618,968	+6.0	+42.2	51.0	27.3
Lumber:									
Millwork.....	471	21,129	+11.1	+15.8	308,339	+12.9	+14.4	40.3	23.8
Sawmills.....	599	69,068	+13.0	+20.2	873,197	+18.2	+27.5	41.7	22.7
Turpentine and rosin.....	23	1,317	+3.0	+16.1	17,008	+3.0	+8	51.9	39.4
<b>Stone, clay, and glass products</b> .....	<b>1,293</b>	<b>101,064</b>	<b>+7.2</b>	<b>+17.9</b>	<b>1,639,482</b>	<b>+5.0</b>	<b>+17.7</b>	<b>49.3</b>	<b>29.2</b>
Brick, tile, and terra cotta.....	652	21,842	+19.1	+11.9	271,990	+23.5	+16.0	32.9	15.2
Cement.....	122	16,072	+7.9	+13.5	274,777	+9.8	+6.6	46.1	25.7
Glass.....	186	41,694	+1.3	+31.2	747,666	-4.3	+34.6	71.5	50.6
Marble, granite, slate, and other products.....	217	5,369	+10.0	-10.9	105,680	+13.5	-20.4	42.3	25.7
Pottery.....	116	16,087	+3.5	+32.3	239,369	-2.1	+46.5	63.9	35.6
<b>Leather and its manu- factures</b> .....	<b>492</b>	<b>151,348</b>	<b>+7.1</b>	<b>+19.4</b>	<b>2,609,726</b>	<b>+11.9</b>	<b>+38.9</b>	<b>84.5</b>	<b>62.1</b>
Boots and shoes.....	339	121,735	+7.5	+16.0	2,015,523	+13.2	+34.8	84.3	59.7
Leather.....	153	29,613	+6.4	+35.5	594,203	+7.5	+63.2	85.5	70.3
<b>Paper and printing</b> .....	<b>1,949</b>	<b>216,312</b>	<b>+2.0</b>	<b>+2.7</b>	<b>5,125,377</b>	<b>-1.8</b>	<b>-1.9</b>	<b>80.5</b>	<b>63.0</b>
Boxes, paper.....	318	22,606	+5.8	+17.1	401,469	+7.0	+24.4	77.9	65.7
Paper and pulp.....	400	84,026	+5.9	+13.4	1,591,297	+8.0	+27.2	81.9	58.4
Printing and publish- ing:									
Book and job.....	766	41,296	-7	-9.5	1,041,159	+4	-12.5	66.9	52.4
Newspapers and periodicals.....	465	68,384	-4	-2	2,091,452	-1.5	-10.3	95.8	76.3
<b>Chemicals and allied products</b> .....	<b>1,055</b>	<b>153,255</b>	<b>+5.5</b>	<b>+22.2</b>	<b>3,378,894</b>	<b>+4.3</b>	<b>+18.9</b>	<b>83.1</b>	<b>67.2</b>
Chemicals.....	109	23,483	+9.2	+25.5	567,275	+9.2	+28.8	103.0	75.5
Cottonseed, oil, cake, and meal.....	107	3,485	+12.3	+11.7	37,881	+11.2	+9.2	31.4	30.9
Druggists' preparations.....	45	7,604	+4.3	+5.7	147,494	+7	+3.7	69.9	66.6
Explosives.....	30	3,645	+10.5	+25.1	76,498	+14.3	+36.7	83.3	58.5
Fertilizers.....	173	5,690	+5.0	+53.0	70,767	+6.6	+24.2	46.5	29.8
Paints and varnishes.....	348	16,751	+3.0	+14.2	362,637	-1.4	+16.0	78.7	61.5
Petroleum refining.....	126	49,487	-(*)	+9	1,329,500	-2	-4.0	64.7	54.5
Rayon and allied prod- ucts.....	22	28,006	+8.2	+80.4	462,302	+7.7	+96.8	167.6	140.1
Soap.....	95	15,104	+2.0	+9.0	324,640	+2.1	+2.8	101.5	84.9
<b>Rubber products</b> .....	<b>148</b>	<b>98,997</b>	<b>+11.8</b>	<b>+20.2</b>	<b>1,992,274</b>	<b>+12.2</b>	<b>+46.6</b>	<b>78.7</b>	<b>61.6</b>
Rubber boots and shoes.....	9	10,385	+15.8	-3.6	193,741	+23.3	+53.8	48.8	44.3
Rubber goods, other than boots, shoes, tires, and inner tubes.....	98	21,025	+8.9	+23.9	396,276	+11.9	+36.7	96.0	68.5
Rubber tires and inner tubes.....	41	57,497	+12.5	+24.0	1,402,257	+12.5	+40.1	80.6	63.2
<b>Tobacco manufactures</b> .....	<b>241</b>	<b>53,133</b>	<b>-1.3</b>	<b>-4.0</b>	<b>680,742</b>	<b>-2</b>	<b>-7.9</b>	<b>67.5</b>	<b>50.3</b>
Chewing and smoking tobacco and snuff.....	33	9,674	-3.9	-4.2	131,463	-3.8	-2.6	84.0	68.1
Cigars and cigarettes.....	208	43,459	-9	-4.0	549,279	+4	-8.9	65.4	48.1
<b>Total, 89 industries</b> .....	<b>18,090</b>	<b>3,023,831</b>	<b>+7.2</b>	<b>+21.9</b>	<b>54,553,744</b>	<b>+7.9</b>	<b>+28.5</b>	<b>67.3</b>	<b>46.5</b>

\* Less than one tenth of 1 percent.

### Per Capita Earnings in Manufacturing Industries

PER capita weekly earnings in July 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 July 1933 as compared with June 1933 and July 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 JULY 1933 AND COMPARISON WITH JUNE 1933 AND JULY 1932

Industry	Per capita weekly earnings in July 1933	Percent of change compared with—	
		June 1933	July 1932
<b>Food and kindred products:</b>			
Baking.....	\$21.81	+1.4	-3.6
Beverages.....	28.19	-1.1	+6.5
Butter.....	20.20	+1.1	-10.0
Confectionery.....	12.63	+1.5	-9.0
Flour.....	21.05	+6.2	-2.8
Ice cream.....	25.06	-6	-9.2
Slaughtering and meat packing.....	20.15	-3	-2.4
Sugar, beet.....	21.08	+3.1	-5.9
Sugar refining, cane.....	25.16	+1.4	-2.3
<b>Textiles and their products:</b>			
Fabrics:			
Carpets and rugs.....	17.79	+6	+36.7
Cotton goods.....	11.37	+2.3	+22.7
Cotton small wares.....	15.60	+3.2	+15.9
Dyeing and finishing textiles.....	18.42	-1.6	+24.1
Hats, fur-felt.....	19.74	+2.1	+19.3
Knit goods.....	12.54	-2.3	+9.4
Silk and rayon goods.....	13.36	+4.0	+10.3
Woolen and worsted goods.....	16.99	+7	+15.2
<b>Wearing apparel:</b>			
Clothing, men's.....	14.57	+12.7	+28.8
Clothing, women's.....	14.83	+5.4	-7.1
Corsets and allied garments.....	13.78	-3.9	+6.2
Men's furnishings.....	10.65	-5.8	-8.2
Millinery.....	14.09	-7.2	-5.2
Shirts and collars.....	9.81	-5.0	+5.5
<b>Iron and steel and their products, not including machinery:</b>			
Bolts, nuts, washers, and rivets.....	18.07	-5	+27.5
Cast-iron pipe.....	13.89	+2.7	+5.5
Cutlery (not including silver and plated cutlery) and edge tools.....	19.32	+4.7	+10.7
Forgings, iron and steel.....	18.34	+2	+13.1
Hardware.....	15.82	+5.9	+30.9
Iron and steel.....	19.19	+4.7	+66.2
Plumbers' supplies.....	16.00	-11.8	+17.8
Steam and hot-water heating apparatus and steam fittings.....	18.30	+1.5	+11.8
Stoves.....	18.34	+7	+18.9
Structural and ornamental metal work.....	15.05	-2.7	-6.3
Tin cans and other tinware.....	20.02	+2	+10.3
Tools (not including edge tools, machine tools, files, and saws).....	18.56	+3.8	+34.0
Wirework.....	20.36	+2.0	+39.8
<b>Machinery, not including transportation equipment:</b>			
Agricultural implements.....	16.19	-4.4	+5.3
Cash registers, adding machines, and calculating machines.....	24.96	+1.6	+15.3
Electrical machinery, apparatus, and supplies.....	20.27	+2.7	+13.5
Engines, turbines, tractors, and water wheels.....	20.47	-1.3	+13.0
Foundry and machine-shop products.....	18.50	+4.6	+19.2
Machine tools.....	20.08	+2.0	+13.5
Radios and phonographs.....	14.76	-16.7	-22.4
Textile machinery and parts.....	22.48	+7.0	+55.0
Typewriters and supplies.....	16.24	+7.5	+25.0
<b>Nonferrous metals and their products:</b>			
Aluminum manufactures.....	17.42	-1.2	+36.5
Brass, bronze, and copper products.....	19.69	+2.5	+23.9
Clocks and watches and time-recording devices.....	15.50	+15.2	+10.7
Jewelry.....	17.68	+7	+1.8
Lighting equipment.....	18.08	-1.7	+2.3
Silverware and plated ware.....	17.97	+1.4	+4.2
Smelting and refining—copper, lead, and zinc.....	20.31	+5.3	+13.1
Stamped and enameled ware.....	16.05	-1.7	+6.5
<b>Transportation equipment:</b>			
Aircraft.....	26.16	-4.3	-11.6
Automobiles.....	21.74	-6.1	+4.7
Cars, electric and steam railroad.....	15.18	+8	-14.2
Locomotives.....	20.24	+7.5	-5.4
Shipbuilding.....	20.58	+2.2	-15.8



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

Industry	Per capita weekly earnings in July 1933	Percent of change compared with—	
		June 1933	July 1932
Railroad repair shops:			
Electric railroad.....	\$24.37	-1.7	-7.2
Steam railroad.....	21.89	-1.8	+6.3
Lumber and allied products:			
Furniture.....	13.43	+1.8	+13.5
Lumber:			
Millwork.....	14.59	+1.7	-.8
Sawmills.....	12.64	+4.5	+5.8
Turpentine and rosin.....	12.91	( <sup>1</sup> )	-13.2
Stone, clay, and glass products:			
Brick, tile, and terra cotta.....	12.45	+3.7	+3.2
Cement.....	17.10	+1.8	-6.3
Glass.....	17.93	-5.5	+2.4
Marble, granite, slate, and other products.....	19.68	+3.1	-10.6
Pottery.....	14.88	-1.4	+10.7
Leather and its manufactures:			
Boots and shoes.....	16.56	+5.3	+16.2
Leather.....	20.07	+1.1	+13.2
Paper and printing:			
Boxes, paper.....	17.76	+1.1	+6.2
Paper and pulp.....	18.94	+2.0	+11.8
Printing and publishing:			
Book and job.....	25.21	+1.2	-3.1
Newspapers and periodicals.....	30.58	-1.1	-10.4
Chemicals and allied products:			
Chemicals.....	24.16	+1	+2.6
Cottonseed, oil, cake, and meal.....	10.87	-1.0	-2.1
Druggists' preparations.....	19.40	-3.4	-1.8
Explosives.....	20.99	+3.4	+9.2
Fertilizers.....	12.44	+1.6	-18.2
Paints and varnishes.....	21.64	-4.3	+1.6
Petroleum refining.....	26.87	-1	-4.9
Rayon and allied products.....	16.51	-5	+8.5
Soap.....	21.49	( <sup>1</sup> )	-6.1
Rubber products:			
Rubber boots and shoes.....	18.66	+6.5	+59.1
Rubber goods, other than boots, shoes, tires, and inner tubes.....	18.85	+2.8	+10.4
Rubber tires and inner tubes.....	24.39	+( <sup>2</sup> )	+13.1
Tobacco manufactures:			
Chewing and smoking tobacco and snuff.....	13.59	+1	+1.7
Cigars and cigarettes.....	12.64	+1.4	-5.1
Total, 89 industries.....	18.04	+1.7	+5.3

<sup>1</sup> No change.

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

<sup>3</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 July 1933, together with average indexes for each of the years from 1926 to 1932, and for the 7-month period, January to July 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 July 1933, inclusive.

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

[12-month average, 1926=100]

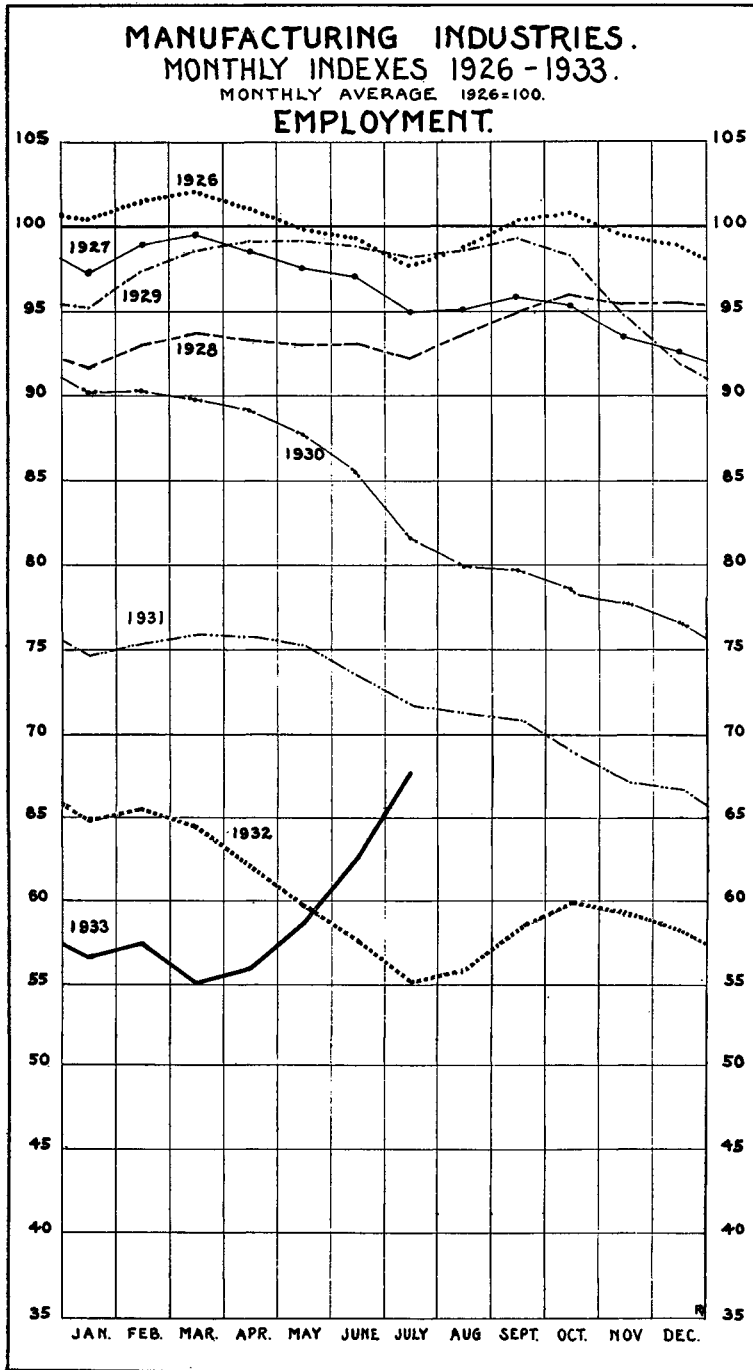
Month	Employment								Pay rolls							
	1926	1927	1928	1929	1930	1931	1932	1933	1926	1927	1928	1929	1930	1931	1932	1933
January.....	100.4	97.3	91.6	95.2	90.7	74.6	64.8	56.6	98.0	94.9	80.6	94.5	88.1	63.7	48.6	35.8
February.....	101.5	99.0	93.0	97.4	90.9	75.3	65.6	57.5	102.2	100.6	93.9	101.8	91.3	68.1	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	67.3	95.2	93.0	91.2	98.2	77.0	60.3	36.2	46.5
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	-----
Average.....	100.0	96.4	93.8	97.5	84.7	72.2	60.1	59.1	100.6	96.5	94.5	100.5	81.3	61.5	41.6	33.4

<sup>1</sup> Average for 7 months.**Time Worked in Manufacturing Industries in July 1933**

REPORTS as to working time in July were received from 13,856 establishments in 89 manufacturing industries. Three percent of these establishments were idle, 57 percent operated on a full-time basis, and 40 percent worked on a part-time schedule.

An average of 91 percent of full-time operation in July was shown by reports received from all the operating establishments included in table 4. The establishments working part time in July averaged 78 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.



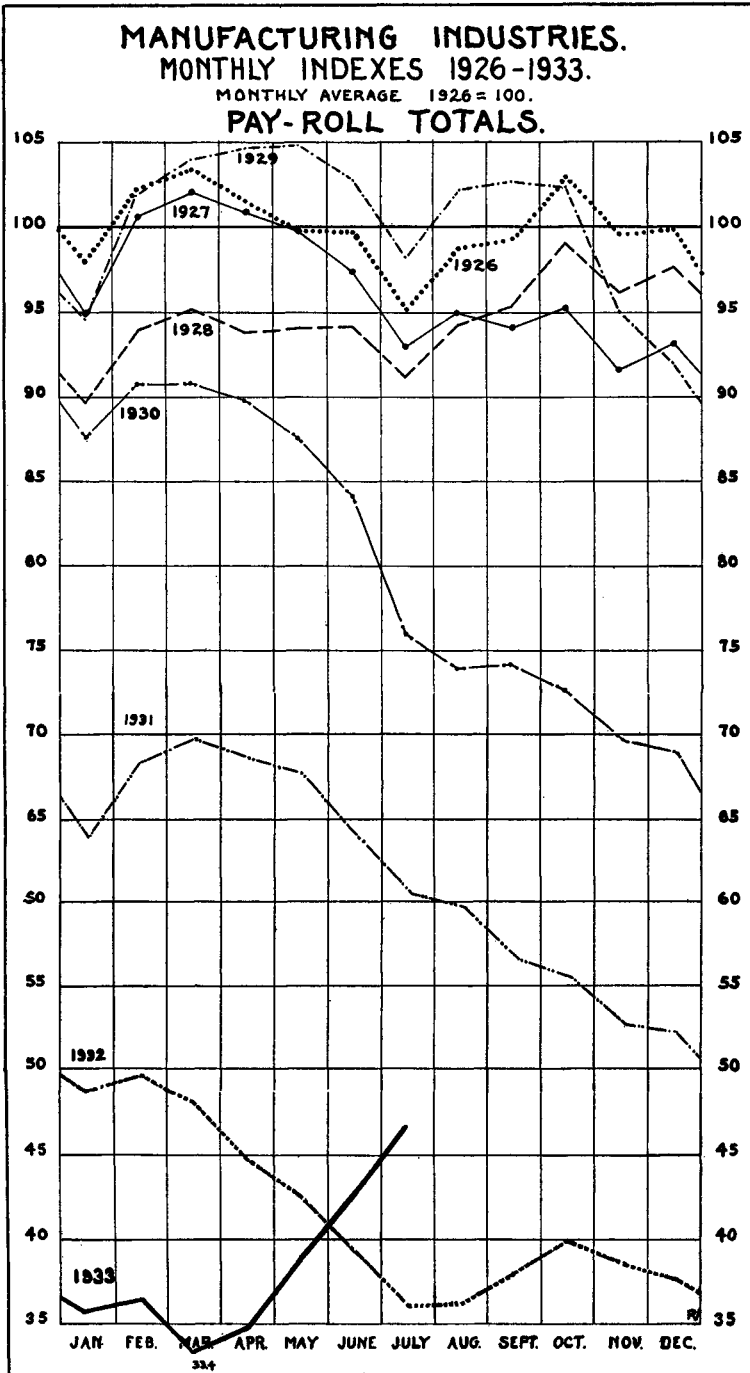


TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JULY 1933

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>2,486</b>	<b>1</b>	<b>74</b>	<b>25</b>	<b>95</b>	<b>80</b>
Baking.....	769	(1)	82	18	97	83
Beverages.....	279	—	86	14	98	81
Butter.....	250	1	80	20	97	84
Confectionery.....	265	3	36	61	83	73
Flour.....	382	(1)	70	30	93	76
Ice cream.....	275	1	70	29	96	85
Slaughtering and meat packing.....	203	(1)	74	26	97	88
Sugar, beet.....	53	—	98	2	100	80
Sugar refining, cane.....	10	—	100	—	100	—
<b>Textiles and their products</b> .....	<b>2,535</b>	<b>5</b>	<b>75</b>	<b>21</b>	<b>96</b>	<b>81</b>
Fabrics:						
Carpets and rugs.....	15	13	53	33	93	82
Cotton goods.....	617	(1)	89	10	99	86
Cotton small wares.....	100	1	60	39	93	81
Dyeing and finishing textiles.....	138	1	73	26	97	87
Hats, fur-felt.....	20	—	70	30	92	66
Knit goods.....	377	2	79	20	96	82
Silk and rayon goods.....	215	2	75	23	96	82
Woolen and worsted goods.....	221	1	83	16	98	86
Wearing apparel:						
Clothing, men's.....	282	7	67	26	95	82
Clothing, women's.....	316	24	58	19	93	70
Corsets and allied garments.....	29	3	66	31	94	80
Men's furnishings.....	49	2	61	37	94	85
Millinery.....	75	—	45	47	89	78
Shirts and collars.....	81	2	73	25	96	85
<b>Iron and steel and their products, not including machinery</b> .....	<b>1,058</b>	<b>3</b>	<b>38</b>	<b>59</b>	<b>85</b>	<b>75</b>
Bolts, nuts, washers, and rivets.....	60	—	33	67	87	80
Cast-iron pipe.....	29	21	17	62	71	63
Cutlery (not including silver and plated cutlery), and edge tools.....	103	—	43	57	87	77
Forgings, iron and steel.....	41	—	34	66	85	77
Hardware.....	63	2	37	62	85	76
Iron and steel.....	138	7	40	53	83	71
Plumbers' supplies.....	53	—	55	45	90	77
Steam and hot-water heating apparatus and steam fittings.....	82	2	27	71	75	66
Stoves.....	136	5	42	53	87	77
Structural and ornamental metalwork.....	144	2	31	67	86	80
Tin cans and other tinware.....	55	4	62	35	94	82
Tools (not including edge tools, machine tools, files, and saws).....	104	1	27	72	82	75
Wirework.....	50	—	52	48	89	77
<b>Machinery, not including transportation equipment</b> .....	<b>1,359</b>	<b>1</b>	<b>32</b>	<b>67</b>	<b>82</b>	<b>74</b>
Agricultural implements.....	52	—	27	73	80	72
Cash registers, adding machines, and calculating machines.....	31	—	55	45	88	74
Electrical machinery, apparatus, and supplies.....	204	(1)	29	70	84	77
Engines, turbines, tractors, and water wheels.....	69	1	26	72	82	75
Foundry and machine-shop products.....	807	1	34	66	81	72
Machine tools.....	123	5	25	70	81	75
Radios and phonographs.....	30	—	23	77	83	78
Textile machinery and parts.....	33	—	45	55	94	88
Typewriters and supplies.....	10	—	40	60	87	76
<b>Nonferrous metals and their products</b> .....	<b>492</b>	<b>3</b>	<b>37</b>	<b>60</b>	<b>86</b>	<b>78</b>
Aluminum manufactures.....	21	—	48	52	93	85
Brass, bronze, and copper products.....	155	—	32	68	86	80
Clocks and watches and time-recording devices.....	18	—	33	67	75	62
Jewelry.....	107	7	33	66	85	76
Lighting equipment.....	42	5	26	69	86	80
Silverware and plated ware.....	37	8	43	49	84	68
Smelting and refining—copper, lead, and zinc.....	30	—	73	27	94	79
Stamped and enameled ware.....	72	—	43	57	89	80

¹ Less than one half of 1 percent.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JULY 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>Transportation equipment.....</b>	<b>292</b>	<b>5</b>	<b>56</b>	<b>45</b>	<b>90</b>	<b>79</b>
Aircraft.....	26	4	58	38	93	83
Automobiles.....	134	6	46	48	90	80
Cars, electric and steam railroad.....	35	11	20	69	80	73
Locomotives.....	7		57	43	84	63
Shipbuilding.....	90	1	64	34	94	81
<b>Railroad repair shops.....</b>	<b>676</b>	<b>1</b>	<b>38</b>	<b>61</b>	<b>88</b>	<b>81</b>
Electric railroad.....	281		62	38	94	85
Steam railroad.....	395	1	21	78	84	79
<b>Lumber and allied products.....</b>	<b>1, 145</b>	<b>2</b>	<b>56</b>	<b>48</b>	<b>89</b>	<b>77</b>
Furniture.....	342	1	49	50	89	78
Lumber:						
Millwork.....	326	1	47	52	87	76
Sawmills.....	456	2	53	45	90	77
Turpentine and rosin.....	21	5	48	48	94	86
<b>Stone, clay, and glass products.....</b>	<b>690</b>	<b>13</b>	<b>49</b>	<b>38</b>	<b>89</b>	<b>74</b>
Brick, tile, and terra cotta.....	196	26	29	46	84	75
Cement.....	78	8	82	10	97	71
Glass.....	143	11	74	15	96	78
Marble, granite, slate, and other products.....	181	9	42	49	86	74
Pottery.....	92	4	38	58	84	73
<b>Leather and its manufactures.....</b>	<b>375</b>	<b>3</b>	<b>63</b>	<b>34</b>	<b>94</b>	<b>83</b>
Boots and shoes.....	251	4	61	35	94	83
Leather.....	124		68	32	94	81
<b>Paper and printing.....</b>	<b>1, 616</b>	<b>1</b>	<b>57</b>	<b>42</b>	<b>92</b>	<b>81</b>
Boxes, paper.....	259	(1)	49	51	90	80
Paper and pulp.....	313	3	58	39	91	78
Printing and publishing:						
Book and job.....	644		49	51	90	80
Newspapers and periodicals.....	400	(1)	77	23	97	87
<b>Chemicals and allied products.....</b>	<b>817</b>	<b>2</b>	<b>66</b>	<b>32</b>	<b>95</b>	<b>84</b>
Chemicals.....	78	3	73	24	97	87
Cottonseed, oil, cake, and meal.....	55	9	53	38	91	80
Druggists' preparations.....	29		52	48	92	84
Explosives.....	12		17	83	84	81
Fertilizers.....	150	1	71	28	95	82
Paints and varnishes.....	302	1	67	33	95	84
Petroleum refining.....	95	3	74	23	97	88
Rayon and allied products.....	11		73	27	95	80
Soap.....	85		64	36	94	84
<b>Rubber products.....</b>	<b>117</b>	<b>1</b>	<b>54</b>	<b>45</b>	<b>92</b>	<b>81</b>
Rubber boots and shoes.....	7		43	57	93	88
Rubber goods, other than boots, shoes, tires, and inner tubes.....	81	1	54	44	91	80
Rubber tires and inner tubes.....	29		55	45	93	82
<b>Tobacco manufactures.....</b>	<b>298</b>	<b>4</b>	<b>32</b>	<b>64</b>	<b>85</b>	<b>77</b>
Chewing and smoking tobacco and snuff.....	82	6	47	47	85	70
Cigars and cigarettes.....	176	3	29	68	85	77
<b>Total, 89 industries.....</b>	<b>13, 856</b>	<b>3</b>	<b>57</b>	<b>40</b>	<b>91</b>	<b>78</b>

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

### Employment in Nonmanufacturing Industries in July 1933

INCREASED employment in July 1933, as compared with June, was reported in 12 of the 15 nonmanufacturing industries appearing in the following table. Data for the building-construction industry are not presented here but are shown in more detail under the section "Building construction." The canning and preserving industry reported the most pronounced gains in both employment and pay roll over the month interval, the increase of 37.8 percent in employment

and 25.8 percent in pay rolls indicating the usual seasonal expansion in this industry. An increased demand is indicated in the rising employment in the anthracite and bituminous coal-mining industries, the anthracite-mining industry reporting an increase of 11 percent in employment coupled with an increase of 11.5 percent in pay rolls. The bituminous coal-mining industry reported a gain of 3.1 percent in employment coupled with an increase of 15.1 percent in earnings. The quarrying and nonmetallic mining industry reported a gain of 4.8 percent in number of workers in July 1933, compared with June, and the metalliferous-mining industry reported an increase of 4.7 percent in employment. The crude-petroleum-producing industry reported a gain of 2.7 percent in number of employees from June to July; hotels, due largely to the opening of seasonal resort hotels, reported an increase of 2.6 percent; and the wholesale-trade industry reported an increase of 1.6 percent in number of employees over the month interval. The gains in the remaining 4 industries reporting increased employment were less than 1 percent and were as follows: Laundries and banks, brokerage, real estate, and insurance, 0.4 percent each; power and light, 0.3 percent; and electric-railroad and motor-bus operation, 0.1 percent. In the four industries in which decreases in employment were reported the retail-trade group showed a falling off in employment, which is customary at this time of year. This decline of 4.7 percent appeared largely in the department, variety, and limited-price group of establishments. The dyeing and cleaning industry reported a seasonal loss of 3.2 percent, and the telephone and telegraph industry reported a drop of 1 percent in number of employees.

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 JULY 1933 WITH JUNE 1933 AND JULY 1932

Industrial groups	Estab-lish-ments reporting in both June and July 1933	Employment			Pay-roll totals			Index num-bers, July 1933 (average 1929=100)	
		Number on pay roll, July 1933	Percent of change		Amount of pay roll (1 week), July 1933	Percent of change			
			June to July 1933	July 1932 to July 1933		June to July 1933	July 1932 to July 1933	Em-ploy-ment	Pay-roll totals
Coal mining:									
Anthracite.....	160	59,940	+11.0	-1.6	\$1,518,796	+11.5	+10.7	43.8	38.2
Bituminous.....	1,471	191,024	+3.1	+7.8	2,644,739	+15.1	+37.7	63.2	33.6
Metalliferous mining	278	22,365	+4.7	+11.9	420,408	+3.7	+12.4	33.0	19.0
Quarrying and nonmetallic mining	1,134	33,044	+4.8	(1)	498,991	+3.6	-2.4	49.5	28.4
Crude-petroleum producing	239	24,189	+2.7	+7.4	673,689	+4.0	-5.4	59.5	42.2
Public utilities:									
Telephone and telegraph	8,316	247,238	-1.0	-13.4	6,507,178	+1	-16.2	68.5	66.7
Power and light.....	3,204	195,565	+3	-5.8	5,551,531	+2	-11.1	77.5	70.0
Electric-railroad and motor-bus operation and maintenance.....	560	130,995	+1	-8.2	3,431,484	-1.1	-13.6	69.4	57.4
Trade:									
Wholesale.....	2,924	75,870	+1.6	+4	1,982,011	+3.3	-8.7	76.9	59.1
Retail.....	17,560	334,147	-4.7	(1)	6,329,075	-4.0	-8.2	74.6	58.1
Hotels (cash payments only) <sup>1</sup>	2,702	136,190	+2.6	-3.6	1,673,710	+1.8	-13.8	75.6	53.3
Canning and preserving.....	874	65,865	+37.8	+4.9	666,704	+25.8	-2.7	76.6	46.2
Laundries.....	906	54,715	+4	-5.0	797,683	-1.2	-15.4	76.3	56.1
Dyeing and cleaning.....	311	10,427	-3.2	+6	172,823	-6.9	-12.0	82.9	52.8
Banks, brokerage, insurance, and real estate.....	4,475	168,656	+4	-7	5,551,826	+6	-5.4	97.8	85.2

<sup>1</sup> No change. <sup>2</sup> The additional value of board, room, and tips cannot be computed. <sup>3</sup> Weighted.

Per capita weekly earnings in July 1933 for 15 nonmanufacturing industries included in the Bureau's monthly trend-of-employment survey, together with the percents of change in July 1933 as compared with June 1933 and July 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 JULY 1933 AND COMPARISON WITH JUNE 1933 AND JULY 1932

Industrial group	Per capita weekly earnings in July 1933	Percent of change July 1933 compared with—	
		June 1933	July 1932
Coal mining:			
Anthracite.....	\$25.34	+0.4	+12.5
Bituminous.....	13.85	+11.7	+27.9
Metalliferous mining.....	18.80	— .9	+ .5
Quarrying and nonmetallic mining.....	15.10	—1.2	—2.4
Crude-petroleum producing.....	27.85	+1.2	—11.9
Public utilities:			
Telephone and telegraph.....	26.32	+1.0	—3.2
Power and light.....	28.39	— .1	—6.6
Electric-railroad and motor-bus operation and maintenance.....	26.20	—1.1	—6.8
Trade:			
Wholesale.....	26.12	+1.6	—9.0
Retail.....	18.94	+ .7	—8.2
Hotels (cash payments only) <sup>1</sup> .....	12.33	— .8	—10.6
Canning and preserving.....	10.12	—8.7	—7.4
Laundries.....	14.58	—1.6	—11.0
Dyeing and cleaning.....	16.57	—3.8	—12.6
Banks, brokerage, insurance, and real estate.....	32.92	<sup>2</sup> + .1	<sup>2</sup> —4.8

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

<sup>2</sup> Weighted.

### 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 July 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 JULY 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	43.8	84.0	53.7	34.5	38.2	88.0	76.4	58.6	63.2	68.9	50.4	24.4	33.6
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	66.2	37.8	-----
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	49.1	95.3	75.4	53.7	41.2	93.4	83.2	67.4	65.2	81.3	57.5	35.6	31.5
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	62.8	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	90.7	75.0	50.6	43.4	90.2	62.3	32.3	23.8
June.....	84.6	60.0	32.2	31.1	81.6	46.1	20.1	18.3	90.3	72.3	49.5	47.3	90.9	60.1	30.1	27.5
July.....	80.5	56.2	29.5	33.0	71.9	41.3	16.9	19.0	89.9	71.0	49.5	49.5	85.5	57.3	29.0	28.4
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	31.1	78.0	44.8	21.6	17.7	84.3	67.4	49.0	40.6	79.3	53.4	29.1	21.9
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	67.8	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	59.5	88.5	59.2	44.6	42.2	100.0	86.6	79.1	68.5	106.6	93.3	79.6	66.7
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	57.4	85.9	61.7	44.1	41.2	97.9	86.6	79.1	71.7	102.9	93.7	81.1	69.3
Month	Power and light								Electric-railroad and motor-bus operation and maintenance <sup>1</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	97.2	84.0	76.9	104.5	98.7	84.2	69.9	94.3	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	77.5	106.7	97.4	78.7	70.0	95.8	85.6	75.6	69.4	95.6	83.3	66.4	57.4
August.....	106.4	95.9	81.5	-----	106.6	96.2	76.6	-----	92.9	84.8	74.1	-----	92.1	81.9	63.8	-----
September.....	105.2	94.7	81.0	-----	106.1	94.3	74.7	-----	91.8	84.0	73.5	-----	90.5	81.2	62.5	-----
October.....	104.8	92.7	79.9	-----	105.6	93.2	74.4	-----	91.0	82.7	72.3	-----	88.9	79.0	61.5	-----
November.....	103.4	91.3	79.1	-----	103.7	93.3	73.2	-----	89.3	81.5	71.8	-----	87.7	79.7	61.7	-----
December.....	103.2	90.3	78.4	-----	106.3	91.2	73.2	-----	88.8	79.9	71.4	-----	88.6	77.8	61.9	-----
Average.....	103.0	95.6	83.0	177.2	104.3	96.7	79.8	170.8	93.4	84.7	75.5	169.7	93.5	83.4	68.0	158.9

<sup>1</sup> Average for 7 months.

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

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

[12-month average, 1929=100]

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
	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	73.3	96.7	89.1	71.3	57.1	93.9	87.8	81.4	71.4	95.5	87.5	73.2	55.1
April.....	97.3	87.4	78.9	73.3	97.9	85.2	68.9	56.0	97.3	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	69.2	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	76.9	96.0	83.3	64.7	59.1	89.0	83.9	74.6	74.6	91.7	83.3	63.3	58.1
August.....	95.0	86.5	76.4	---	93.6	82.1	63.2	---	85.6	81.8	72.6	---	87.6	80.3	60.7	---
September.....	94.8	86.1	77.1	---	93.6	81.4	63.1	---	92.0	86.6	77.8	---	92.4	83.5	64.6	---
October.....	94.2	85.2	77.8	---	92.9	79.9	63.9	---	95.5	89.8	81.3	---	95.1	84.6	67.1	---
November.....	92.6	84.1	77.6	---	91.0	79.7	63.3	---	98.4	90.9	81.7	---	96.8	85.4	66.9	---
December.....	92.0	83.7	77.0	---	91.3	77.8	62.6	---	115.1	106.2	95.2	---	107.7	94.1	73.6	---
Average.....	96.0	86.6	78.2	174.6	95.9	83.6	67.0	158.2	95.9	89.4	80.9	175.7	96.2	86.6	69.4	159.2
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
	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	35.2	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	74.8	59.6	47.0	49.2	72.6	67.1	37.9	33.5
May.....	98.0	92.5	80.1	71.9	98.4	87.7	67.0	51.8	65.7	56.0	40.5	45.5	66.9	56.0	36.0	31.8
June.....	98.0	91.6	78.0	73.6	98.1	85.4	63.8	52.3	83.0	70.6	55.5	55.6	81.5	58.6	40.5	36.7
July.....	101.3	93.3	78.4	75.0	99.8	85.2	61.8	53.3	126.3	102.2	73.0	76.6	112.7	74.2	47.5	46.2
August.....	101.1	92.8	77.6	---	98.6	83.8	59.6	---	135.7	142.9	99.0	---	172.0	104.7	65.6	---
September.....	100.1	90.6	77.0	---	97.1	81.9	59.1	---	246.6	180.1	125.3	---	214.8	120.4	75.1	---
October.....	97.5	87.4	75.4	---	95.5	79.7	58.6	---	164.7	108.1	81.1	---	140.0	77.6	51.8	---
November.....	96.2	84.9	74.3	---	93.6	77.1	57.5	---	96.7	60.8	50.5	---	82.9	48.1	34.4	---
December.....	93.5	83.1	73.2	---	91.5	75.4	56.6	---	61.6	40.7	33.7	---	57.4	36.9	25.6	---
Average.....	99.2	91.7	79.0	173.3	98.5	85.4	64.5	153.5	103.9	80.9	59.5	147.0	96.1	65.6	42.6	131.9
Month	Laundries *						Dyeing and cleaning *						Banks, brokerage, insurance, and real estate *			
	Employment			Pay rolls			Employment			Pay rolls			Employment		Pay rolls	
	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1932	1933	1932	1933
	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1932	1933	1932	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	84.3	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	82.6	86.6	67.3	53.9	98.2	96.4	93.2	83.6
June.....	91.0	81.0	78.0	87.1	68.6	56.7	99.0	85.1	85.0	89.1	65.8	56.6	98.1	97.4	90.4	84.7
July.....	91.8	80.3	76.3	87.4	66.3	56.1	98.6	82.4	82.9	86.2	60.0	52.8	98.5	97.8	90.1	85.2
August.....	90.2	78.9	---	84.0	63.9	---	93.5	79.5	---	80.0	56.3	---	98.7	---	88.5	---
September.....	89.3	78.6	---	84.1	62.9	---	95.3	83.3	---	82.6	61.0	---	98.6	---	87.3	---
October.....	88.1	77.5	---	81.8	61.2	---	94.2	82.3	---	81.4	58.8	---	98.7	---	86.5	---
November.....	86.2	76.2	---	78.9	59.1	---	90.1	78.0	---	74.7	52.3	---	98.2	---	86.0	---
December.....	85.3	75.9	---	77.4	58.7	---	84.9	75.2	---	67.0	48.4	---	98.0	---	85.7	---
Average.....	89.4	80.1	174.6	84.4	67.0	155.4	92.7	81.4	178.1	80.3	60.5	149.7	98.5	197.0	90.1	184.4

\* Monthly data for previous years not available.

## Average Man-Hours Worked and Average Hourly Earnings

**I**N 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 June and July 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 group 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 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN 15 INDUSTRIAL GROUPS, JUNE AND JULY 1933.**

Industrial group	Average hours per week		Average hourly earnings	
	June 1933	July 1933	June 1933	July 1933
	Hours	Hours	Cents	Cents
Manufacturing.....	42.6	42.5	41.8	42.1
Coal mining:				
Anthracite.....	30.7	31.3	81.6	81.8
Bituminous.....	28.5	32.0	45.3	45.0
Metalliferous mining.....	39.9	39.5	47.2	47.4
Quarrying and nonmetallic mining.....	41.2	41.5	37.6	37.5
Crude-petroleum producing.....	50.4	50.0	48.8	48.8
Public utilities:				
Telephone and telegraph.....	37.5	38.0	71.1	70.8
Power and light.....	46.0	44.7	61.9	63.4
Electric-railroad and motor-bus operation and maintenance.....	46.5	46.1	56.5	56.4
Trade:				
Wholesale.....	47.2	46.6	53.3	54.8
Retail.....	44.8	44.2	40.5	40.9
Hotels.....	50.5	50.9	23.1	22.8
Canning and preserving.....	43.1	39.0	31.0	31.3
Laundries.....	42.8	42.4	33.2	33.1
Dyeing and cleaning.....	47.0	45.7	37.6	36.8
Total.....	43.3	43.1	43.5	43.8

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, JUNE AND JULY 1933

Industry	Average hours per week		Average hourly earnings	
	June 1933	July 1933	June 1933	July 1933
	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
<b>Food and kindred products:</b>				
Baking.....	47.0	47.2	42.7	42.9
Beverages.....	47.7	44.8	60.0	61.6
Confectionery.....	37.8	37.0	34.6	35.1
Flour.....	47.6	47.7	41.3	42.0
Ice cream.....	52.9	51.1	47.0	48.4
Slaughtering and meat packing.....	48.2	49.3	41.9	40.9
Sugar, beet.....	47.3	43.6	47.9	52.3
Sugar refining, cane.....	54.1	54.5	44.0	43.8
<b>Textiles and their products:</b>				
Fabrics:				
Carpets and rugs.....	44.3	44.8	38.7	37.7
Cotton goods.....	49.2	48.9	22.7	23.1
Cotton small wares.....	46.2	46.3	33.6	34.4
Dyeing and finishing textiles.....	50.4	49.6	37.0	36.6
Knit goods.....	46.7	45.9	29.5	29.2
Silk and rayon goods.....	42.2	41.8	30.4	31.1
Woolen and worsted goods.....	48.3	49.0	34.8	35.2
<b>Iron and steel and their products, not including machinery:</b>				
Bolts, nuts, washers, and rivets.....	40.7	41.2	42.6	42.4
Cast-iron pipe.....	29.0	35.8	45.1	40.0
Cutlery (not including silver and plated cutlery) and edge tools.....	39.8	42.2	48.4	47.9
Forgings, iron and steel.....	41.9	42.9	43.5	43.7
Hardware.....	35.0	40.2	41.1	40.5
Iron and steel.....	37.9	40.0	42.2	43.3
Plumbers' supplies.....	43.2	38.1	43.0	42.3
Steam and hot-water heating apparatus and steam fittings.....	38.1	38.8	47.0	47.1
Stoves.....	40.0	41.3	42.7	42.9
Structural and ornamental metalwork.....	35.2	33.6	41.7	42.4
Tools (not including edge tools, machine tools, files, and saws).....	38.5	40.9	45.4	44.6
<b>Machinery, not including transportation equipment:</b>				
Agricultural implements.....	36.4	34.5	45.6	45.8
Cash registers, adding machines, and calculating machines.....	40.6	39.8	62.0	63.7
Electrical machinery, apparatus, and supplies.....	37.9	38.1	53.1	53.7
Engines, turbines, tractors, and water wheels.....	37.3	37.5	54.2	54.7
Foundry and machine-shop products.....	35.7	37.8	49.3	49.0
Machine tools.....	36.3	36.8	53.6	54.0
Radios and phonographs.....	40.9	35.3	38.2	38.1
Textile machinery and parts.....	42.6	44.7	52.8	52.3
Typewriters and supplies.....	35.2	39.4	44.0	42.9
<b>Nonferrous metals and their products:</b>				
Aluminum manufactures.....	43.1	42.5	40.1	40.2
Brass, bronze, and copper products.....	41.5	42.9	46.1	45.6
Clocks and watches and time-recording devices.....	41.5	43.7	35.4	35.5
Jewelry.....	36.6	38.0	43.8	43.7
Silverware and plated ware.....	38.0	40.3	44.6	44.4
Smelting and refining—copper, lead, and zinc.....	40.4	42.0	48.0	47.4
Stamped and enameled ware.....	41.0	41.6	38.5	37.4
<b>Transportation equipment:</b>				
Aircraft.....	43.4	44.3	65.4	65.4
Automobiles.....	40.7	38.1	56.6	57.0
Locomotives.....	39.9	42.3	49.6	49.9
Shipbuilding.....	31.2	33.0	55.5	55.7
<b>Railroad repair shops:</b>				
Electric railroad.....	44.1	43.4	55.7	56.1
Steam railroad.....	36.6	34.4	62.9	63.6

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

Industry	Average hours per week		Average hourly earnings	
	June 1933	July 1933	June 1933	July 1933
Lumber and allied products:	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Furniture.....	39.7	41.9	32.2	31.0
Lumber:				
Millwork.....	43.1	44.7	33.0	32.7
Sawmills.....	43.5	44.1	27.1	27.9
Stone, clay, and glass products:				
Brick, tile, and terra cotta.....	36.7	37.2	32.0	32.4
Cement.....	38.7	38.1	40.5	41.9
Glass.....	40.9	39.5	44.7	44.9
Marble, granite, slate, and other products.....	35.7	36.4	51.8	52.5
Pottery.....	35.8	35.9	39.8	38.9
Leather and its manufactures: Leather.....	47.1	46.3	40.9	41.7
Paper and printing:				
Boxes, paper.....	44.6	45.8	39.9	39.4
Paper and pulp.....	45.6	46.1	40.8	41.1
Printing and publishing:				
Book and job.....	37.1	37.7	66.1	66.0
Newspapers and periodicals.....	40.9	40.8	73.6	73.2
Chemicals and allied products:				
Chemicals.....	44.5	44.3	54.2	54.3
Cottonseed, oil, cake, and meal.....	59.5	60.4	20.0	19.3
Druggists' preparations.....	40.3	40.2	46.5	46.5
Explosives.....	36.5	38.3	54.3	54.5
Fertilizers.....	43.7	43.0	27.6	28.6
Paints and varnishes.....	47.6	44.6	46.9	47.8
Petroleum refining.....	39.7	40.0	63.4	62.3
Rayon and allied products.....	44.9	44.1	37.3	37.5
Soap.....	43.8	43.9	45.2	45.6
Rubber products:				
Rubber goods, other than boots, shoes, tires, and inner tubes.....	44.1	43.5	42.4	43.5
Rubber tires and inner tubes.....	42.1	38.4	57.8	62.0
Tobacco manufactures:				
Chewing and smoking tobacco and snuff.....	41.4	39.6	32.2	33.6
Cigars and cigarettes.....	42.3	42.6	29.5	29.5

### Employment in Building Construction in July 1933

**E**MPLOYMENT in the building-construction industry decreased 0.4 percent in July as compared with June, and pay rolls decreased 0.8 percent over the month interval.

The percents of change of employment and pay-roll totals in July as compared with June are based on returns made by 10,657 firms employing in July 79,127 workers in the various trades in the building-construction industry and whose combined weekly earnings during the pay period ending nearest July 15 were \$1,679,130. 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, JUNE AND JULY 15, 1933

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		June 15	July 15		June 15	July 15	
Alabama: Birmingham.....	76	339	351	+3.5	\$4,564	\$4,660	+2.1
California:							
Los Angeles <sup>1</sup> .....	24	711	861	+21.1	15,024	18,791	+25.1
San Francisco-Oakland <sup>1</sup> .....	29	737	818	+11.0	13,618	17,498	+27.8
Other reporting localities <sup>1</sup> .....	23	705	599	-15.0	15,576	12,986	-16.6

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

**COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING-CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, JUNE AND JULY 15, 1933—Con.**

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		June 15	July 15		June 15	July 15	
Colorado: Denver.....	195	616	600	-2.6	\$12,067	\$12,001	-0.5
Connecticut:							
Bridgeport.....	128	530	531	+1.2	10,965	10,779	-1.7
Hartford.....	205	989	994	+1.5	22,142	22,406	+1.2
New Haven.....	179	1,054	959	-9.0	25,541	22,997	-10.0
Delaware: Wilmington.....	120	1,025	955	-6.8	19,886	17,517	-11.9
District of Columbia.....	519	8,475	8,593	+1.4	241,468	241,059	-2
Florida:							
Jacksonville.....	53	375	448	+19.5	5,833	7,278	+24.8
Miami.....	75	639	778	+21.8	9,861	11,567	+17.3
Georgia: Atlanta.....	142	1,250	1,173	-6.2	17,682	16,309	-7.8
Illinois:							
Chicago <sup>1</sup> .....	124	1,930	1,190	-38.3	35,997	29,629	-17.7
Other reporting localities <sup>1</sup> .....	70	643	585	-9.0	13,209	13,448	+1.8
Indiana:							
Evansville.....	52	308	323	+4.9	4,806	4,766	-.8
Fort Wayne.....	88	262	275	+5.0	3,639	3,812	+4.8
Indianapolis.....	164	1,087	1,020	-6.2	21,323	19,344	-9.3
South Bend.....	37	117	131	+12.0	1,914	2,166	+13.2
Iowa: Des Moines.....	105	584	453	-17.3	10,852	8,315	-23.4
Kansas: Wichita.....	63	307	297	-3.0	5,056	4,450	-11.4
Kentucky: Louisville.....	118	885	1,044	+18.0	16,104	16,301	+1.2
Louisiana: New Orleans.....	123	1,159	1,019	-12.1	18,684	16,303	-12.7
Maine: Portland.....	106	387	372	-3.9	7,952	6,671	-16.1
Maryland: Baltimore <sup>1</sup> .....	105	755	735	-2.6	12,210	12,798	+4.8
Massachusetts: All reporting localities <sup>1</sup> .....	717	4,395	4,384	-.3	105,854	106,647	+7
Michigan:							
Detroit.....	466	3,220	3,721	+15.6	63,121	70,845	+12.2
Flint.....	55	225	188	-16.4	3,213	3,153	-.9
Grand Rapids.....	98	360	373	+3.6	5,585	5,068	-9.3
Minnesota:							
Duluth.....	51	291	324	+11.3	4,091	4,292	+4.9
Minneapolis.....	204	1,251	1,362	+8.9	26,717	28,109	+5.0
St. Paul.....	162	837	847	+1.2	15,261	17,750	+16.3
Missouri:							
Kansas City <sup>2</sup> .....	265	1,382	1,495	+8.2	28,720	31,000	+7.9
St. Louis.....	513	2,480	2,560	+3.2	64,390	66,711	+3.6
Nebraska: Omaha.....	147	1,187	942	-20.6	21,400	18,503	-13.5
New York:							
New York City <sup>1</sup> .....	294	4,905	4,387	-10.6	161,817	143,387	-11.4
Other reporting localities <sup>1</sup> .....	206	4,898	5,217	+6.5	119,248	127,514	+6.9
North Carolina: Charlotte.....	39	230	235	+2.2	2,782	2,311	-16.9
Ohio:							
Akron.....	81	310	304	-1.9	4,480	4,410	-1.6
Cincinnati <sup>3</sup> .....	439	2,149	2,222	+3.4	47,779	47,018	-1.6
Cleveland.....	566	2,656	2,362	-11.1	63,884	57,774	-9.6
Dayton.....	119	526	551	+4.8	9,165	10,533	+14.9
Youngstown.....	73	269	228	-15.2	4,991	3,511	-29.7
Oklahoma:							
Oklahoma City.....	82	413	482	+16.7	6,465	7,023	+8.6
Tulsa.....	58	235	241	+2.6	3,466	3,865	+11.5
Oregon: Portland.....	172	727	734	+1.0	13,533	13,923	+2.9
Pennsylvania: <sup>4</sup>							
Erie area <sup>1</sup> .....	30	191	211	+10.5	2,499	2,396	-4.1
Philadelphia area <sup>1</sup> .....	525	4,876	4,901	+1.5	88,468	88,926	+5
Pittsburgh area <sup>1</sup> .....	272	1,684	1,813	+7.7	34,519	36,319	+5.2
Reading-Lebanon area <sup>1</sup> .....	52	277	299	+7.9	4,525	4,933	+9.0
Scranton area <sup>1</sup> .....	38	229	225	-1.7	5,103	5,071	-.6
Other reporting areas <sup>1</sup> .....	339	2,371	2,460	+3.8	40,869	40,632	-.6
Rhode Island: Providence.....	240	1,355	1,471	+8.6	28,401	31,408	+10.6
Tennessee:							
Chattanooga.....	42	283	305	+7.8	5,085	4,120	-19.0
Knoxville.....	48	425	432	+1.6	5,037	5,502	+9.2
Memphis.....	84	460	463	+1.7	6,418	6,236	-2.8
Nashville.....	74	1,060	891	-15.9	13,108	10,715	-18.3
Texas:							
Dallas.....	176	1,362	1,153	-15.3	20,213	17,050	-15.6
El Paso.....	27	161	164	+1.9	1,813	1,831	+1.2
Houston.....	152	854	1,020	+19.4	12,313	15,152	+23.1
San Antonio.....	120	842	824	-2.1	11,161	10,881	-2.5
Utah: Salt Lake City.....	82	364	299	-17.9	5,780	4,622	-20.0

<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 8 counties.

**COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING-CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, JUNE AND JULY 15, 1933—Con.**

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		June 15	July 15		June 15	July 15	
<b>Virginia:</b>							
Norfolk-Portsmouth.....	87	969	910	-6.1	\$15,645	\$14,316	-8.5
Richmond.....	146	863	899	+4.2	16,266	16,236	-.2
<b>Washington:</b>							
Seattle.....	156	585	699	+19.5	10,167	13,334	+31.1
Spokane.....	51	180	250	+38.9	2,868	4,908	+71.1
Tacoma.....	82	121	164	+35.5	1,831	2,307	+26.0
West Virginia: Wheeling.....	45	189	175	-7.4	3,497	2,990	-14.5
Wisconsin: All reporting localities <sup>1</sup> .....	59	902	831	-7.9	14,321	15,377	+7.4
<b>Total, all localities.....</b>	<b>10,657</b>	<b>79,418</b>	<b>79,127</b>	<b>-.4</b>	<b>1,691,851</b>	<b>1,679,130</b>	<b>-.8</b>

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

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

IN THE following table are shown the fluctuations in employment and pay-roll totals in July 1933 as compared with June 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 June and July 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 JUNE AND JULY 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, July 1933	Percent of change	Amount of pay roll (1 week), July 1933	Percent of change	Number of establishments	Number on pay roll, July 1933	Percent of change	Amount of pay roll (1 week), July 1933	Percent of change
Alabama.....	495	60,550	+4.8	\$717,200	+11.9	203	43,656	+6.9	\$499,774	+10.8
Arizona.....	397	7,600	-2.3	145,549	-8.1	57	1,966	+6.4	35,690	-3.8
Arkansas.....	<i>1,480</i>	<i>16,467</i>	<i>+1.1</i>	<i>215,335</i>	<i>+5.1</i>	<i>173</i>	<i>10,538</i>	<i>+1.5</i>	<i>129,225</i>	<i>+4.0</i>
California.....	<i>2,180</i>	<i>237,717</i>	<i>+3.1</i>	<i>5,535,929</i>	<i>+1.9</i>	<i>1,097</i>	<i>189,167</i>	<i>+7.4</i>	<i>2,743,395</i>	<i>+2.9</i>
Colorado.....	807	28,287	+5	572,863	+1.3	120	10,483	+1	209,346	+5.4
Connecticut.....	1,099	148,391	+5.8	2,905,865	+8.9	642	127,978	+6.8	2,376,222	+10.9
Delaware.....	131	11,054	+12.5	228,976	+10.0	48	7,493	+10.8	160,392	+12.6
Dist. of Columbia.....	622	29,235	-2.5	669,210	-3.7	53	2,933	-9	87,883	-3.0
Florida.....	551	22,200	-2.5	358,965	+2.0	125	13,026	+1.4	177,202	+5.6
Georgia.....	650	92,604	+8.0	1,102,915	+7.8	306	80,090	+9.8	840,088	+10.6
Idaho.....	204	7,356	+9.4	133,649	+14.6	39	3,588	+12.7	66,438	+23.2
Illinois.....	<i>1,672</i>	<i>304,734</i>	<i>+4.7</i>	<i>6,526,538</i>	<i>+5.2</i>	<i>1,073</i>	<i>193,445</i>	<i>+6.5</i>	<i>5,685,216</i>	<i>+7.2</i>
Indiana.....	1,214	123,669	+6.6	2,298,589	+4.8	544	94,135	+10.5	1,769,551	+7.8
Iowa.....	1,187	44,101	+3.2	837,902	+3.8	435	25,159	+6.4	470,185	+6.1
Kansas.....	<i>1,121</i>	<i>59,792</i>	<i>+6.6</i>	<i>1,320,541</i>	<i>+1.1</i>	<i>437</i>	<i>38,722</i>	<i>+3.8</i>	<i>470,630</i>	<i>+5.4</i>
Kentucky.....	811	64,244	+6.0	992,288	+7.8	197	26,215	+9.9	431,824	+7.6
Louisiana.....	469	30,754	+5.1	455,812	+6.2	208	20,145	+10.0	271,496	+10.92
Maine.....	548	46,639	+8.5	800,256	+11.4	179	39,056	+7.9	662,927	+13.7
Maryland.....	<i>1,826</i>	<i>32,084</i>	<i>+6.6</i>	<i>1,669,267</i>	<i>+7.1</i>	<i>466</i>	<i>68,012</i>	<i>+11.1</i>	<i>1,071,696</i>	<i>+13.9</i>
Massachusetts.....	<i>8,053</i>	<i>360,068</i>	<i>+4.2</i>	<i>7,430,874</i>	<i>+5.7</i>	<i>1,143</i>	<i>187,059</i>	<i>+9.7</i>	<i>5,446,136</i>	<i>+12.7</i>
Michigan.....	1,597	279,603	+9.8	5,987,376	+4.9	<i>432</i>	<i>223,589</i>	<i>+11.2</i>	<i>5,040,785</i>	<i>+2.3</i>
Minnesota.....	1,027	62,670	+4.6	1,271,605	+3.4	267	29,851	+6.8	583,887	+5.0
Mississippi.....	364	8,968	+6.1	110,768	+3.9	70	5,680	+9.4	60,113	+3.9
Missouri.....	1,195	113,664	+2.9	2,256,099	+2.0	522	65,728	+6.0	1,242,227	+5.8
Montana.....	345	8,927	+7.0	212,503	+7.9	46	2,523	+7.2	50,881	+3.0
Nebraska.....	720	21,630	-5	453,095	+1.3	123	10,699	+2.4	222,297	+4.2
Nevada.....	136	1,469	+9.1	35,264	+6.7	22	286	+9.6	7,267	+14.0
New Hampshire.....	503	39,192	+7.2	639,211	+10.2	185	34,673	+7.3	539,193	+10.6
New Jersey.....	1,639	195,602	+4.2	4,239,153	+2.7	<i>778</i>	<i>170,485</i>	<i>+4.6</i>	<i>3,696,483</i>	<i>+4.6</i>
New Mexico.....	194	4,916	+4.4	78,946	+6.0	26	790	+25.4	13,228	+44.4
New York.....	7,991	526,007	+2.1	12,545,813	+2.7	<i>1,710</i>	<i>326,780</i>	<i>+4.5</i>	<i>7,309,466</i>	<i>+6.5</i>
North Carolina.....	888	133,905	+9.9	1,573,352	+10.9	529	128,906	+10.3	1,489,494	+11.4
North Dakota.....	354	3,969	+2.9	80,053	+1.5	60	1,095	+6.8	23,988	+4.9
Ohio.....	4,911	409,606	+6.5	8,148,813	+7.1	1,900	306,216	+6.8	6,111,667	+9.8
Oklahoma.....	698	26,997	+2.2	529,751	+2.0	134	10,565	+5.6	191,783	+5.2
Oregon.....	653	30,846	+15.9	551,585	+12.0	145	16,357	+7.7	274,708	+9.2
Pennsylvania.....	5,134	602,948	+4.2	11,272,925	+6.5	<i>1,731</i>	<i>346,677</i>	<i>+4.8</i>	<i>5,780,137</i>	<i>+7.5</i>
Rhode Island.....	903	63,812	+5.6	1,199,959	+7.1	259	51,940	+6.9	918,893	+9.4
South Carolina.....	318	60,967	+6.8	628,132	+10.1	179	57,826	+7.3	580,444	+11.6
South Dakota.....	257	5,698	+3.2	135,367	+4.7	47	2,009	+1.8	38,772	+7.5
Tennessee.....	742	68,774	+6.2	949,061	+5.9	264	52,154	+8.3	679,320	+7.6
Texas.....	<i>821</i>	<i>64,429</i>	<i>+2.6</i>	<i>1,405,724</i>	<i>+1.3</i>	<i>397</i>	<i>37,673</i>	<i>+4.1</i>	<i>757,418</i>	<i>+2.4</i>
Utah.....	281	13,892	+16.4	239,265	+7.1	83	4,161	+9	81,336	+5.9
Vermont.....	377	10,542	+6.5	201,879	+7.2	116	5,933	+9.3	113,490	+12.8
Virginia.....	1,278	85,887	+4.5	1,314,039	+4.6	419	60,753	+5.8	878,472	+5.4
Washington.....	1,140	51,119	+6.3	1,009,390	+5.2	239	25,351	+9.5	471,072	+8.5
West Virginia.....	853	97,556	+5.0	1,627,034	+8.6	173	37,783	+8.6	685,729	+1.7
Wisconsin.....	<i>9,109</i>	<i>148,977</i>	<i>+7.1</i>	<i>2,469,489</i>	<i>+5.1</i>	<i>777</i>	<i>115,134</i>	<i>+7.5</i>	<i>1,903,828</i>	<i>+5.9</i>
Wyoming.....	196	5,426	-1.5	122,204	+5	26	1,275	+2.7	34,413	+3.3

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

<sup>2</sup> Includes banks, insurance, and office employment.

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

<sup>4</sup> Includes transportation, financial institutions, restaurants, theaters, 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 services.

<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 JUNE AND JULY 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, July 1933	Per cent of change	Amount of pay roll (1 week), July 1933	Per cent of change	Number of establishments	Number on pay roll, July 1933	Per cent of change	Amount of pay roll (1 week), July 1933	Per cent of change
Alabama.....	15	559	-0.4	\$14,778	+17.1	60	1,827	-3.3	\$27,063	-3.0
Arizona.....	20	170	+6	4,383	+8	173	1,347	-8.2	22,509	-7.6
Arkansas.....	16	410	+2	9,189	-1.4	190	1,368	-6	21,709	-1.3
California.....	105	5,048	+3	139,518	+2.4	181	21,512	-2.6	439,080	-1.9
Colorado.....	27	910	+7	25,307	+3.2	274	3,835	-4.3	74,594	-2.8
Connecticut.....	59	1,286	+1.8	34,798	+5	117	4,909	-7.7	93,558	+ <sup>(10)</sup>
Delaware.....	7	108	+1.9	2,294	+8.6	9	197	+52.7	2,438	+15.6
Dist. of Columbia.....	31	405	-1.7	11,887	-1.5	404	10,394	-4.2	204,667	-6.3
Florida.....	49	750	+1.1	17,340	+1.1	73	1,120	+7.7	19,721	+3.9
Georgia.....	32	440	+1.4	12,740	+6.5	28	1,866	-5.9	28,613	-4.3
Idaho.....	8	112	+9	3,080	+3.7	50	353	+4.1	6,439	+2.5
Illinois.....	34	1,950	+9	45,240	+1.0	184	20,117	-6	421,134	+8
Indiana.....	54	1,074	+2.8	26,055	+3.3	174	5,684	-6.1	89,711	-6.7
Iowa.....	32	1,032	+7	25,459	+4.8	126	2,945	-4.7	46,780	-8.4
Kansas.....	75	1,775	-5	43,188	+1.1	416	5,255	-2.5	98,438	+1.6
Kentucky.....	22	348	<sup>(11)</sup>	7,369	-1	27	1,609	-5.5	24,163	-6.2
Louisiana.....	30	679	+1.5	14,316	+1.7	21	2,562	-1.2	35,072	-3.2
Maine.....	17	441	+7.0	10,807	+5.9	71	895	-7	16,307	+3.1
Maryland.....	59	787	-1.2	16,880	+4.9	39	5,332	-9.9	34,161	-8.4
Massachusetts.....	711	14,208	+1.2	374,883	+2.2	4,206	68,720	-3.1	1,159,498	-8
Michigan.....	59	1,481	+1.3	37,296	+2.4	161	9,477	-6.4	170,759	-2
Minnesota.....	59	3,979	+6.2	105,010	+5.6	248	6,594	-16.8	110,074	-10.7
Mississippi.....	4	106	+1.9	2,103	+6.2	47	344	-6	3,416	+2.1
Missouri.....	52	4,270	+1.4	104,373	+2.4	129	8,212	-7.5	148,346	-5.6
Montana.....	15	239	+3.5	6,628	+2.9	81	749	+2.0	15,969	+2.4
Nebraska.....	36	917	+1	24,085	+2.0	186	1,565	-4.0	28,259	-3.6
Nevada.....	6	85	+1.2	2,636	+7.2	39	240	+2.6	5,658	+3.9
New Hampshire.....	18	207	+10.1	5,109	+5.1	71	741	-8.7	12,184	+3.0
New Jersey.....	24	571	+5	16,350	-1.9	408	6,683	-6.5	142,273	-7.7
New Mexico.....	8	86	-3.4	3,122	-2	53	259	+2.0	5,555	+1.3
New York.....	399	10,705	+1.4	325,405	+1.8	3,900	58,815	-9.3	1,196,394	-8.7
North Carolina.....	16	225	-3.8	5,302	+3	159	529	-2.0	10,457	-1.5
North Dakota.....	14	199	+8.2	5,610	+10.5	34	394	-7.1	6,184	-3.9
Ohio.....	227	4,739	+1.0	118,173	+4.9	1,555	31,712	+9	541,494	-3.2
Oklahoma.....	59	886	+1.1	21,026	+1.4	65	1,366	-6.7	21,420	-4.5
Oregon.....	46	1,005	+6.1	26,307	+3.5	168	2,034	-1.0	39,392	+5
Pennsylvania.....	127	3,520	+5	92,601	+1.8	326	24,689	-4.5	455,584	-4.8
Rhode Island.....	42	964	-3	22,665	+1.6	487	4,574	-1.4	92,959	+8
South Carolina.....	13	168	-6	4,087	-2.0	14	387	-2.5	3,580	-1.5
South Dakota.....	9	120	+4.3	3,067	+5.2	7	40	-11.1	572	-9.5
Tennessee.....	33	691	+5.2	14,829	+9.4	51	3,035	-6.3	44,747	+5.6
Texas.....	148	2,868	+7	70,558	+1.4	71	5,866	-4.8	83,897	-6.8
Utah.....	14	469	+3.8	11,855	+14.1	17	427	-2.1	5,777	+5.1
Vermont.....	5	114	-4.2	2,654	-4.8	34	408	+2.3	5,625	+1.4
Virginia.....	43	955	+7	23,265	+2.7	473	4,417	+1.4	81,041	+3.9
Washington.....	81	2,025	-1.1	51,234	+7	412	5,691	-2.9	105,454	-2.2
West Virginia.....	29	607	+4.1	15,411	+3.9	48	830	-2.5	13,470	-1.1
Wisconsin.....	46	1,780	+1.6	39,489	+3.7	61	8,725	- <sup>(10)</sup>	121,841	-5
Wyoming.....	9	53	<sup>(11)</sup>	1,708	+5.6	41	209	+3.0	4,827	+3.8

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

<sup>11</sup> No change.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN JUNE AND JULY 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, July 1933	Per cent of change	Amount of pay roll (1 week), July 1933	Per cent of change	Number of establishments	Number on pay roll, July 1933	Per cent of change	Amount of pay roll (1 week), July 1933	Per cent of change
Alabama.....	18	735	-9.4	\$7,369	-15.3	7	862	+11.8	\$11,853	+59.3
Arizona.....	3	58	+18.4	703	+9.5	21	1,888	-8.9	36,524	-20.6
Arkansas.....	9	357	-13.8	3,635	-5.6					
California.....	38	980	-1.5	17,101	-13.4	34	2,470	-1.9	54,484	-11.6
Colorado.....	5	37	+85.0	596	+137.5	14	851	-6	21,132	-1.1
Connecticut.....	25	245	-6.5	3,860	-23.1					
Delaware.....										
Dist. of Columbia.....										
Florida.....	15	635	-11.4	7,245	-7.3					
Georgia.....	23	1,090	-8.4	9,305	-17.5					
Idaho.....						9	2,005	+2.7	36,331	+8.9
Illinois.....	25	726	+26.0	12,322	+16.3					
Indiana.....	58	1,418	+9.5	21,579	-1					
Iowa.....	30	438	+14.4	6,224	+12.8					
Kansas.....	18	810	-9	19,151	-1.7	10	559	+43.5	9,848	+46.1
Kentucky.....	37	1,035	+11.8	8,682	-2.5					
Louisiana.....	7	665	+8.5	8,124	+18.0					
Maine.....	9	305	+9.7	5,916	-9.9					
Maryland.....	14	505	+52.0	5,818	+2.6					
Massachusetts.....	23	439	-3.1	9,897	-4.6					
Michigan.....	48	1,462	+7.2	22,668	+15.8	39	3,108	+11.9	34,904	+1.4
Minnesota.....	23	325	-1.6	4,558	-1.1	31	801	-25.4	12,858	+48.8
Mississippi.....	8	158	+22.5	1,715	+19.6					
Missouri.....	43	1,127	+11.6	15,490	+26.9	13	1,592	-1	17,671	+6.6
Montana.....	8	151	+64.1	2,141	+106.3	17	2,102	+14.4	58,279	+19.5
Nebraska.....	8	166	-36.6	1,583	-55.8					
Nevada.....						12	187	+15.4	4,261	+3.3
New Hampshire.....	12	85	+3.5	1,774	+14.2					
New Jersey.....	40	633	+1.4	11,467	-5.7	3	11	+83.3	198	+35.6
New Mexico.....						5	929	-3	15,461	-1.0
New York.....	79	2,152	+8.4	43,913	+4.9					
North Carolina.....	13	115	-8.0	1,295	-9.0					
North Dakota.....										
Ohio.....	134	3,585	+7.0	48,523	+2.0					
Oklahoma.....	12	101	+9.8	960	+6.7	32	1,170	-2.8	20,021	+6.9
Oregon.....	5	87	-5.6	1,066	+4.6	4	48	(11)	908	+6.4
Pennsylvania.....	151	5,500	+16.3	86,044	+24.1					
Rhode Island.....										
South Carolina.....	4	90	+38.5	912	+19.8					
South Dakota.....	6	45	+12.5	840	+4.5					
Tennessee.....	28	1,499	+8.9	17,751	+4.1	4	209	-9	3,218	+8.1
Texas.....	20	871	+7.5	14,017	-3.2					
Utah.....	5	75	+1.4	1,517	+36.5	12	1,904	-7	31,648	-8.6
Vermont.....	38	2,081	-2.2	41,473	+5					
Virginia.....	23	1,312	+5.9	12,298	-10.9					
Washington.....	16	204	-1.4	3,406	+17.4					
West Virginia.....	18	580	-4.0	8,555	-2.7					
Wisconsin.....	14	165	-8.8	2,569	+8.4					
Wyoming.....										

<sup>11</sup> No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN JUNE AND JULY 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, July 1933	Per cent of change	Amount of pay roll (1 week), July 1933	Per cent of change	Number of establishments	Number on pay roll, July 1933	Per cent of change	Amount of pay roll (1 week), July 1933	Per cent of change
Alabama.....	54	9,076	+0.5	\$98,959	+31.1	.....	.....	.....	.....	.....
Arizona.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Arkansas.....	9	205	+12.6	3,668	+44.0	9	372	-2.4	\$8,300	+2.1
California.....	.....	.....	.....	.....	.....	40	6,909	+1.6	201,928	+1.6
Colorado.....	46	2,695	-15.9	34,735	-23.9	.....	.....	.....	.....	.....
Connecticut.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delaware.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dist. of Columbia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Florida.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Georgia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Idaho.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Illinois.....	37	5,536	+11.8	95,298	+6.2	6	102	+4.1	1,785	+1.4
Indiana.....	46	5,244	-1.0	80,906	-5.3	4	25	(11)	426	+6.2
Iowa.....	23	1,057	-2.2	18,285	+6.0	.....	.....	.....	.....	.....
Kansas.....	15	1,013	-2.6	15,734	+39.0	29	1,094	-3.2	23,654	-1.5
Kentucky.....	151	24,997	+5.2	317,768	+16.7	4	206	+8.4	2,735	+ .9
Louisiana.....	.....	.....	.....	.....	.....	8	128	+12.3	2,929	+7.4
Maine.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Maryland.....	15	1,246	+2.7	10,511	+30.9	.....	.....	.....	.....	.....
Massachusetts.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Michigan.....	3	23	+21.1	503	(11)	.....	.....	.....	.....	.....
Minnesota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mississippi.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Missouri.....	21	1,416	-2.2	14,865	-1.7	.....	.....	.....	.....	.....
Montana.....	9	375	+5.6	8,648	+8.9	3	16	+6.7	491	+1.7
Nebraska.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nevada.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Hampshire.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Mexico.....	14	1,687	+ .8	21,508	+ .8	4	42	-6.7	1,305	-2.6
New York.....	.....	.....	.....	.....	.....	4	132	+15.8	2,598	-1.0
North Carolina.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Dakota.....	5	251	(11)	3,016	-24.9	.....	.....	.....	.....	.....
Ohio.....	79	10,998	+11.3	147,264	+20.0	5	42	-2.3	500	+10.1
Oklahoma.....	20	435	+38.5	5,641	+13.6	51	4,281	+2.3	106,187	+3.3
Oregon.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pennsylvania.....	454	58,923	+5.3	805,129	+20.8	18	306	+4.1	7,281	+2.3
Rhode Island.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tennessee.....	22	2,627	+4.6	31,105	+24.5	.....	.....	.....	.....	.....
Texas.....	5	337	+7.3	6,363	-1.7	3	7,889	+3.5	265,074	+1.6
Utah.....	17	1,264	-5.7	22,891	-7.7	.....	.....	.....	.....	.....
Vermont.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Virginia.....	38	8,394	+1.5	111,825	+7.7	.....	.....	.....	.....	.....
Washington.....	10	432	-66.2	7,953	-60.0	.....	.....	.....	.....	.....
West Virginia.....	347	49,420	+3.6	716,557	+19.1	8	300	-1.6	7,131	+ .8
Wisconsin.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wyoming.....	33	2,912	-4.2	59,820	-1.9	7	152	-4.4	3,816	+ .8

<sup>11</sup> No change.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN JUNE AND JULY 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, July 1933	Percent of change	Amount of pay roll (1 week), July 1933	Percent of change	Number of establishments	Number on pay roll, July 1933	Percent of change	Amount of pay roll (1 week), July 1933	Percent of change
Alabama.....	89	1,702	-1.0	\$34,124	+0.9	24	1,107	-1.9	\$8,805	-5.5
Arizona.....	67	1,215	+2.8	29,895	+1.3	17	364	-6.2	5,480	+1.6
Arkansas.....	62	1,678	-1.1	59,867	+2.5	12	563	-5.1	4,001	-6.2
California.....	47	45,866	-1.1	1,169,750	+2.2	203	8,966	-2.2	153,480	-1.7
Colorado.....	196	5,184	-2	130,237	+5	65	1,520	+4.4	20,000	+7.4
Connecticut.....	135	9,312	-3	286,015	+2.3	30	1,163	+3.7	14,559	+1.7
Delaware.....	28	1,056	-3	30,052	+4.4	6	256	+1.6	3,243	+8.8
Dist. of Columbia.....	22	8,090	+8	228,057	-9	49	3,543	-6.3	48,685	-8.9
Florida.....	184	3,834	-1.1	100,880	+3.4	59	984	-6.9	8,640	-13.3
Georgia.....	186	6,289	-1.8	173,643	+1.0	28	1,373	+2.7	10,239	-2.6
Idaho.....	55	653	+2.8	12,873	+4.8	23	324	-6	3,697	+1.8
Illinois.....	77	66,662	+7	1,803,649	+1.8	13	10,863	+8.4	160,408	+11.1
Indiana.....	133	8,706	+1	201,514	-1.4	79	2,896	-1.2	28,512	-1.5
Iowa.....	423	9,375	+2.0	204,427	+3.0	74	2,236	-3.7	20,332	-4.8
Kansas.....	87	4,601	-2.7	109,591	+2	34	660	-1.2	6,374	-5.5
Kentucky.....	293	6,153	-3	138,786	-8	35	1,601	+1.5	15,055	-6.0
Louisiana.....	150	4,107	-7	90,271	+1.7	23	1,764	-3.9	17,701	-4.2
Maine.....	166	2,419	-9.4	66,950	-8.3	33	1,491	+61.7	16,958	+60.8
Maryland.....	94	18,287	-2	324,516	-1.8	32	1,063	-8.8	12,810	-9.4
Massachusetts.....	13	44,667	+7	1,239,892	+1.4	84	3,261	-1.6	45,480	-3.0
Michigan.....	413	20,063	-1.3	556,341	-3.2	107	4,693	-2.1	48,591	+2.4
Minnesota.....	225	11,734	+1.1	300,359	-7	76	3,099	+6.0	34,557	+6.7
Mississippi.....	190	1,626	+9	32,485	+3.8	19	537	+1.9	3,773	+2.3
Missouri.....	187	18,937	-10	475,507	-4.2	95	4,607	-1.0	53,448	+4
Montana.....	100	1,764	+1	50,698	+3.4	28	413	+2.2	5,711	+4.4
Nebraska.....	299	5,521	+7	135,443	+1.8	43	1,466	-4.5	13,742	-4.8
Nevada.....	37	377	+3	10,170	-2.8	14	213	+40.1	3,460	+38.5
New Hampshire.....	140	2,075	-2.6	59,295	+4.9	22	623	+118.6	6,328	+124.2
New Jersey.....	265	21,120	+6	595,278	+6	85	5,816	+37.5	64,601	+31.4
New Mexico.....	49	519	+8.1	10,226	+3.3	16	334	-3	3,400	-2
New York.....	881	96,408	-2	2,998,990	-6	278	29,675	+2.6	436,826	+6
North Carolina.....	96	1,683	-9	36,148	+8.7	33	1,113	+3	9,632	+6
North Dakota.....	171	1,177	+3.1	27,973	+1.5	24	402	+3.6	3,932	+2.8
Ohio.....	489	31,011	-1.2	789,824	-7	153	8,695	+3	101,464	-1.6
Oklahoma.....	245	5,763	-3	125,000	-2.4	49	1,027	-8.1	10,086	-6.9
Oregon.....	183	5,472	-4	130,486	+6	58	1,102	+2.4	13,338	+3
Pennsylvania.....	316	62,475	-7	1,562,056	-2	183	9,357	-1.9	108,992	-4.3
Rhode Island.....	42	3,316	-1.8	93,733	-2.4	19	562	+44.8	6,853	+34.1
South Carolina.....	70	1,606	-4.5	30,869	-9.1	13	387	-1.8	2,651	-5.5
South Dakota.....	129	929	+1.2	23,367	+2.3	20	317	-2.5	3,537	-2.7
Tennessee.....	244	4,176	+2	91,716	+1.5	40	2,195	+7	18,447	+1
Texas.....	139	6,536	+2.4	171,608	+1.0	43	2,836	-3.4	33,457	+3
Utah.....	68	1,766	+8.1	36,122	+4.4	12	442	-9	5,454	-5
Vermont.....	122	1,013	+3.3	24,252	-4.4	27	696	+24.5	6,986	+24.3
Virginia.....	179	5,567	-2	132,446	+2.5	34	1,842	-1.2	19,021	-1.8
Washington.....	200	9,495	+4	247,766	+2.8	88	2,413	-1.4	26,322	+5
West Virginia.....	120	5,521	+1.2	139,792	+1.3	39	1,054	-1.3	11,066	-1.1
Wisconsin.....	14	10,291	+2.7	279,113	+8.9	12	1,369	-7	(11)	-----
Wyoming.....	48	418	+1.5	10,087	+1.3	14	167	-6	2,242	+9

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

<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 JUNE AND JULY 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, July 1933	Per cent of change	Amount of pay roll (1 week), July 1933	Per cent of change	Number of establishments	Number on pay roll, July 1933	Per cent of change	Amount of pay roll (1 week), July 1933	Per cent of change
Alabama.....	5	487	+1.2	\$3,582	+1.0					
Arizona.....	9	307	-1.3	4,636	-3.2					
Arkansas.....	13	574	+1.5	3,474	+2.5					
California.....	<sup>16</sup> 68	4,686	+1.1	83,306	+2.1					
Colorado.....	9	596	+1.0	7,692	+1.8	8	134	+4.7	\$2,140	-3.9
Connecticut.....	25	1,265	+1.5	20,222	-7	7	182	-2.7	3,854	-5.0
Delaware.....	4	298	-2.0	4,598	-3.4					
Dist. of Columbia.....	16	2,245	-4.1	32,770	-6.9	5	134	-6.9	2,268	-7.0
Florida.....	9	398	( <sup>11</sup> )	3,808	-4					
Georgia.....	11	622	+3	5,384	-2	4	83	+5.1	883	+3.2
Idaho.....										
Illinois.....	<sup>16</sup> 29	1,884	+2.3	28,287	+7.0					
Indiana.....	17	1,339	-2.1	16,967	-3.1	10	169	-12.0	2,519	-16.6
Iowa.....	3	206	-5	2,851	-6					
Kansas.....	<sup>16</sup> 43	1,086	+9	12,986	-5.0					
Kentucky.....	15	736	-4	9,192	-1.1	4	152	-2.6	2,228	-11.8
Louisiana.....										
Maine.....	16	408	+19.6	5,741	+28.3					
Maryland.....	25	1,891	-1.8	26,614	-5.2	10	454	-2.2	5,790	-5.4
Massachusetts.....	114	2,702	-8	58,429	-2.0	77	1,042	-8.2	81,721	-6.4
Michigan.....	17	1,061	+5	12,053	-1.2	14	546	-7.3	9,187	-12.2
Minnesota.....	13	674	-6	10,467	-3.2	10	372	-5.6	5,963	-7.9
Mississippi.....	5	210	( <sup>11</sup> )	1,720	+3.7					
Missouri.....	30	2,308	+2.3	29,730	-2.0	11	394	-6.2	6,233	-9.2
Montana.....	13	299	+2.7	5,004	+8	3	21	( <sup>11</sup> )	417	-3.0
Nebraska.....	7	532	-5.0	7,068	-6.6					
Nevada.....	3	47	+9.3	911	+14.7					
New Hampshire.....	14	288	+11.6	4,296	+13.0					
New Jersey.....	26	2,894	-1.9	55,340	-4.2	8	241	-6.9	5,990	-7.4
New Mexico.....	4	192	( <sup>11</sup> )	2,940	+3.1					
New York.....	70	6,929	-1.1	113,424	-2.9	13	446	-2.0	8,472	-9.5
North Carolina.....	11	747	+1.8	7,262	-2.6					
North Dakota.....	9	190	+1.1	2,619	+2.1					
Ohio.....	73	3,974	+8	55,656	-2.2	40	1,575	-5.2	24,468	-12.2
Oklahoma.....	8	683	+5.4	8,053	+5.2					
Oregon.....	3	229	+9	3,442	+6.0	3	43	+4.9	913	+10.5
Pennsylvania.....	41	3,089	-6	42,622	-3.6	18	976	-3.3	15,808	-12.8
Rhode Island.....	17	1,067	+1.4	18,263	-8	5	308	-9.9	5,336	-11.5
South Carolina.....	7	285	+2.5	2,491	-2.2					
South Dakota.....	6	123	-8	1,570	-6					
Tennessee.....	13	919	+5	7,474	+8	4	47	+4.4	537	-6.6
Texas.....	18	943	+5	10,089	+2.6	11	362	+1.4	5,667	+2.8
Utah.....	7	503	( <sup>11</sup> )	6,826	-5	5	60	-1.6	896	-12.5
Vermont.....	3	49	+40.0	567	+20.9					
Virginia.....	12	814	+3.0	8,819	-4	19	315	+3	4,303	+4
Washington.....	9	428	( <sup>11</sup> )	7,862	-1	11	158	+6	2,699	-6.5
West Virginia.....	18	620	+2.5	7,461	+3	8	187	-2.1	2,383	-1.8
Wisconsin.....	<sup>16</sup> 28	980	+3	12,416	-1.6					
Wyoming.....	5	94	+4.4	1,490	-4.7					

<sup>11</sup> No change.

<sup>16</sup> Includes dyeing and cleaning.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN JUNE AND JULY 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, July 1933	Percent of change	Amount of pay roll (1 week), July 1933	Percent of change
Alabama.....	16	341	+0.3	\$9,122	-1.9
Arizona.....	27	183	-3.7	4,827	-9.5
Arkansas.....	17	224	-3.4	5,403	-4.0
California.....	1,113	23,005	+6	757,041	+8
Colorado.....	26	1,046	+5	35,803	+2.6
Connecticut.....	58	2,036	+5	72,517	-7
Delaware.....	15	598	+7	19,673	+1
District of Columbia.....	40	1,318	+1.2	48,641	+8
Florida.....	17	515	+2	17,577	-1.4
Georgia.....	24	647	-9	21,276	+1
Idaho.....	16	138	+3.0	3,462	+1.7
Illinois.....	95	10,259	-2.5	358,495	-2.4
Indiana.....	39	1,194	+1.0	39,785	-7
Iowa.....	19	1,151	+1.3	37,466	+6
Kansas.....	28	767	-1.5	22,689	-2.2
Kentucky.....	19	843	-4	29,601	+1
Louisiana.....	9	375	-3	13,597	-3.1
Maine.....	13	132	+1.1	4,453	-1.7
Maryland.....	24	864	+1.6	31,846	-2.1
Massachusetts.....	210	6,078	+8	188,859	+7
Michigan.....	137	4,129	-4.8	132,560	-4.5
Minnesota.....	52	2,838	+4.6	80,425	+5.7
Mississippi.....	16	170	-4.0	3,946	+1.3
Missouri.....	82	4,717	+1	141,889	-3
Montana.....	20	229	+2.2	7,084	+3.0
Nebraska.....	13	488	+2	17,410	-1.3
Nevada.....					
New Hampshire.....	39	471	+4	11,678	+6
New Jersey.....	104	12,190	+2	348,593	-1.6
New Mexico.....	13	71	(u)	2,063	-3.5
New York.....	720	49,699	+1.8	1,753,523	+2.8
North Carolina.....	29	523	+1.0	13,200	+8
North Dakota.....	35	243	+3.8	6,202	+4.0
Ohio.....	200	5,635	-2.4	191,402	-1.2
Oklahoma.....	20	609	-1.1	18,808	-1.2
Oregon.....	13	715	+9.3	24,872	+32.6
Pennsylvania.....	803	23,764	+4	715,300	+1.3
Rhode Island.....	29	1,006	+6	40,643	+3.2
South Carolina.....	9	89	(u)	2,510	+1.7
South Dakota.....	31	240	-4	5,742	-2.2
Tennessee.....	31	1,088	-9.0	37,794	-5.2
Texas.....	22	1,274	+1	33,896	-4
Utah.....	14	449	+1.1	15,772	+6
Vermont.....	29	220	+1.9	6,349	+4.0
Virginia.....	32	1,314	+1.9	41,444	-1
Washington.....	30	1,306	(u)	42,340	-2
West Virginia.....	44	654	-2.7	19,474	-7
Wisconsin.....	17	915	-3	30,920	+5
Wyoming.....	10	90	+4.7	2,721	+6.3

<sup>11</sup> No change.

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

**I**N THE following table are presented the fluctuations in employment and pay-roll totals in July 1933 as compared with June 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 JULY 1933 AS COMPARED WITH JUNE 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
		June 1933	July 1933		June 1933	July 1933	
New York City.....	5, 190	309, 716	303, 188	-2. 1	\$8, 121, 275	\$8, 065, 567	-0. 7
Chicago, Ill.....	1, 800	194, 134	201, 176	+3. 6	4, 557, 441	4, 766, 927	+4. 6
Philadelphia, Pa.....	862	129, 893	134, 746	+3. 7	2, 780, 926	2, 865, 928	+3. 1
Detroit, Mich.....	553	165, 117	180, 946	+9. 6	3, 840, 981	4, 062, 632	+5. 8
Los Angeles, Calif.....	857	62, 543	63, 924	+2. 2	1, 470, 505	1, 508, 693	+2. 6
Cleveland, Ohio.....	1, 051	86, 147	88, 714	+3. 0	1, 755, 511	1, 801, 879	+2. 6
St. Louis, Mo.....	502	66, 330	68, 762	+3. 7	1, 402, 578	1, 449, 337	+3. 3
Baltimore, Md.....	569	47, 019	47, 557	+1. 1	904, 247	927, 223	+2. 5
Boston, Mass.....	3, 063	89, 264	89, 101	-0. 2	2, 081, 488	2, 115, 412	+1. 6
Pittsburgh, Pa.....	434	52, 440	51, 752	-1. 3	1, 065, 038	1, 073, 886	+0. 8
San Francisco, Calif.....	1, 157	47, 240	48, 867	+3. 4	1, 130, 272	1, 144, 349	+1. 2
Buffalo, N. Y.....	420	37, 068	39, 430	+6. 4	803, 631	861, 555	+7. 2
Milwaukee, Wis.....	455	40, 835	42, 849	+4. 9	806, 032	825, 963	+2. 5

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

**T**HERE were 18,006 fewer employees on the pay roll of the United States Government in July 1933 than in July 1932, and 10,380 fewer employees in July 1933 than in June 1933.

These figures do not include the legislative, judicial, or Army and Navy services. The information as shown in table 1 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. Information is not yet available as to amount of pay roll. The table shows the number of Federal employees inside the District of Columbia, the number of such employees outside the District of Columbia, and the total for the entire service. 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, JULY 1932, JUNE AND JULY 1933**

Item	District of Columbia			Outside District of Columbia			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
<b>Number of employees:</b>									
July 1932.....	65,098	2,454	67,552	472,900	32,606	505,506	537,998	35,060	573,058
June 1933.....	63,067	2,370	65,437	466,443	33,552	499,995	529,510	35,922	565,432
July 1933.....	62,309	3,753	66,062	460,160	28,830	488,990	522,469	32,583	555,052
<b>Gain or loss:</b>									
July 1932-July 1933.....	-2,789	+1,299	-1,490	-12,740	-3,776	-16,516	-15,529	-2,477	-18,006
June 1933-July 1933.....	-758	+1,383	+625	-6,283	-4,722	-11,005	-7,041	-3,339	-10,380
<b>Percent of change:</b>									
July 1932-July 1933.....	-4.3	+52.9	-2.2	-2.7	-11.6	-3.3	-2.9	-7.1	-3.1
June 1933-July 1933.....	-1.2	+58.4	+1.0	-1.3	-14.1	-2.2	-1.3	-9.3	-1.8
<b>Labor turnover, July 1933:</b>									
Additions.....	698	2,024	2,722	4,896	9,635	14,531	5,594	11,659	17,253
Separations.....	1,456	641	2,097	11,179	14,357	25,536	12,635	14,998	27,633
Turnover rate per 100.....	1.11	20.93	3.19	1.06	30.89	2.94	1.06	34.04	3.08

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

There was a decrease of 4.3 percent in the number of permanent employees in the District of Columbia comparing July 1933 with July 1932. Comparing July 1933 with June 1933, the decrease in permanent employees was 1.2 percent. While there was a substantial increase in the number of temporary employees, the total Federal employment in the District of Columbia decreased 2.2 percent, comparing July 1933 with the same month of the previous year, but increased 1 percent, comparing July 1933 with June 1933.

Employees for four new Federal agencies are included in the above figures. The Federal Emergency Relief Administration, the Federal Coordinator of Transportation, the Tennessee Valley Authority, and the Public Works Administration added to the Federal pay roll in July, 310 permanent and 72 temporary employees. The Department of Agriculture, due to agriculture aid administration work, had a net increase of 1,435 temporary employees. This explains the big increase in temporary employees as compared with July 1932 and June 1933.

Outside of the District of Columbia the number of permanent employees decreased 2.7 percent and the number of temporary employees decreased 11.6 percent, comparing July 1933 with July 1932. Total Federal employment throughout the United States decreased 3.1 percent during the same period.

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

**TABLE 2.—EMPLOYMENT AND PAY ROLLS IN THE EMERGENCY CONSERVATION CORPS, JUNE AND JULY**

	Number		Pay rolls	
	June	July	June	July
Enrolled personnel.....	272,219	293,525	\$8,501,403	\$9,166,782
Reserve officers, line.....	1,132	1,293	( <sup>1</sup> )	( <sup>1</sup> )
Reserve officers, medical.....	867	842	( <sup>1</sup> )	( <sup>1</sup> )
Supervisory and technical.....	7,236	11,103	\$873,593	\$1,314,528
<b>Total.....</b>	<b>281,454</b>	<b>306,763</b>	<b>\$ 9,374,996</b>	<b>\$10,481,310</b>

<sup>1</sup> Data not available.<sup>2</sup> Not including pay rolls of Reserve officers, line or medical.



The data in the above table were collected by the Bureau of Labor Statistics from the War Department and the Forest Service of the Department of Agriculture.

On the last day of July there were 293,525 enrolled men in the Forest Service. This is an increase of over 21,000 as compared with June. There were on the pay roll in the Forest Service 11,103 supervisory and technical civilians on July 31, an increase of nearly 4,000. The Forest Service as a whole increased over 25,000, comparing July with June.

The pay of the enrolled personnel is \$30 per month, except that 5 percent of the members are being paid \$45 per month, and an additional 8 percent are paid \$36 per month. The pay roll as shown for the enrolled personnel were figured on this basis. During the month of July nearly \$10,500,000 was paid to enrolled personnel and civilian supervisors in the Emergency Conservation Corps. Pay-roll data for Reserve officers, line and medical, are not available.

### 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 945,382 on June 15, 1933, to 976,998 on July 15, 1933, or 3.3 per cent. Data are not yet available concerning total compensation of employees for July 1933. The latest pay-roll information available shows an increase from \$108,411,242 in May to \$110,360,300 in June, or 1.8 percent.

The monthly trend of employment from January 1923 to July 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 JULY 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	55.4
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	52.9

<sup>1</sup> Average for 7 months.

# Wage-Rate Changes in American Industries

## Manufacturing Industries

IN THE following table is presented information concerning wage-rate adjustments occurring between June 15 and July 15, 1933, as shown by reports received from manufacturing establishments supplying employment data to this Bureau. Of the 18,090 manufacturing establishments included in the July survey, 17,422 establishments, or 96.3 percent of the total, reported no change in wage rates over the month interval. The 2,819,636 employees not affected by changes in wage rates constituted 93.2 percent of the total number of employees covered by the July trend of employment survey of manufacturing industries.

Six hundred and thirty manufacturing establishments in 69 industries reported increases in wage rates during the period June 15 to July 15, affecting 202,371 workers and averaging 10.7 percent. These increases represent voluntary raises in practically all instances, as the N.R.A. codes did not become effective until after July 15.

The number of establishments reporting wage-rate decreases continued to decline, only 1,824 workers being affected in the 38 establishments reporting decreases in wage rates, which averaged 11.4 percent.

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING JULY 15, 1933

Industry	Estab- lish- ments report- ing	Total number of em- ployees	Number of establish- ments reporting—			Number of employees having—		
			No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases
All manufacturing industries.....	18, 090	3, 023, 831	17, 422	630	38	2, 819, 636	202, 371	1, 824
Percent of total.....	100. 0	100. 0	96. 3	3. 5	0. 2	93. 2	6. 7	(1)
Food and kindred products:								
Baking.....	965	63, 873	951	13	1	63, 444	423	6
Beverages.....	359	22, 943	349	9	1	22, 167	765	11
Butter.....	311	5, 857	310	1	—	5, 851	6	—
Confectionery.....	320	32, 095	317	1	2	31, 946	102	47
Flour.....	423	16, 540	415	8	—	15, 615	925	—
Ice cream.....	365	12, 711	361	4	—	12, 611	100	—
Slaughtering and meat pack- ing.....	247	94, 877	241	6	—	94, 518	359	—
Sugar, beet.....	61	4, 710	61	—	—	4, 710	—	—
Sugar refining, cane.....	13	8, 275	13	—	—	8, 275	—	—
Textiles and their products:								
Fabrics:								
Carpets and rugs.....	27	16, 133	27	—	—	16, 133	—	—
Cotton goods.....	670	310, 445	604	66	—	281, 608	28, 837	—
Cotton small wares.....	111	11, 122	104	6	1	10, 437	610	75
Dyeing and finishing tex- tiles.....	153	40, 683	148	5	—	38, 988	1, 695	—
Hats, fur-felt.....	27	5, 275	27	—	—	5, 275	—	—
Knit goods.....	440	114, 229	414	26	—	106, 177	8, 052	—
Silk and rayon goods.....	238	53, 031	220	17	1	47, 795	5, 166	70
Woolen and worsted goods.....	237	77, 753	209	27	1	60, 348	8, 241	164
Wearing apparel:								
Clothing, men's.....	397	70, 285	365	32	—	62, 369	7, 916	—
Clothing, women's.....	543	25, 802	538	5	—	25, 584	218	—
Corsets and allied gar- ments.....	35	6, 060	35	—	—	6, 060	—	—
Men's furnishings.....	73	7, 817	71	2	—	7, 767	50	—
Millinery.....	140	8, 195	139	1	—	7, 762	433	—
Shirts and collars.....	115	17, 381	108	7	—	16, 332	999	—

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

Industry	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate increases	Wage-rate decreases	No wage-rate changes	Wage-rate increases	Wage-rate decreases
Iron and steel and their products, not including machinery:								
Bolts, nuts, washers, and rivets.....	70	10,920	67	3	—	10,391	529	—
Cast-iron pipe.....	33	4,368	32	1	—	4,228	140	—
Cutlery (not including silver and plated cutlery) and edge tools.....	126	8,552	122	3	1	8,340	187	25
Forgings, iron and steel.....	66	6,651	65	1	—	6,639	12	—
Hardware.....	105	22,964	103	2	—	22,647	317	—
Iron and steel.....	205	227,159	198	7	—	221,876	5,283	—
Plumbers' supplies.....	68	8,682	67	1	—	8,547	135	—
Steam and hot-water heating apparatus and steam fittings.....	98	16,233	96	2	—	15,944	289	—
Stoves.....	160	19,220	151	5	4	18,892	239	89
Structural and ornamental metalwork.....	194	14,722	192	—	2	14,665	—	57
Tin cans and other tinware.....	61	9,543	59	2	—	9,447	96	—
Tools (not including edge tools, machine tools, files, and saws).....	124	7,677	118	6	—	7,185	492	—
Wirework.....	69	6,848	67	2	—	6,549	299	—
Machinery, not including transportation equipment:								
Agricultural implements.....	78	7,192	75	3	—	6,935	257	—
Cash registers, adding machines, and calculating machines.....	37	14,372	36	1	—	14,358	14	—
Electrical machinery, apparatus, and supplies.....	282	89,748	261	19	2	72,293	17,410	45
Engines, turbines, tractors, and waterwheels.....	88	17,198	87	1	—	16,176	1,022	—
Foundry and machine-shop products.....	1,048	109,377	1,022	25	1	101,137	8,204	36
Machine tools.....	146	11,265	142	4	—	11,201	64	—
Radios and phonographs.....	42	22,730	41	1	—	22,450	280	—
Textile machinery and parts.....	48	8,832	45	3	—	8,812	20	—
Typewriters and supplies.....	16	8,297	16	—	—	8,297	—	—
Nonferrous metals and their products:								
Aluminum manufactures.....	26	5,682	26	—	—	5,682	—	—
Brass, bronze, and copper products.....	206	34,474	201	5	—	33,857	617	—
Clocks and watches and time-recording devices.....	24	6,612	24	—	—	6,612	—	—
Jewelry.....	134	6,918	134	—	—	6,918	—	—
Lighting equipment.....	52	2,951	51	—	1	2,943	—	8
Silverware and plated ware.....	51	6,038	50	1	—	5,047	991	—
Smelting and refining—copper, lead, and zinc.....	39	10,335	35	4	—	8,772	1,563	—
Stamped and enameled ware.....	88	14,173	88	—	—	14,173	—	—
Transportation equipment:								
Aircraft.....	29	7,113	29	—	—	7,113	—	—
Automobiles.....	233	226,145	223	10	—	222,741	3,404	—
Cars, electric and steam railroad.....	42	5,198	42	—	—	5,198	—	—
Locomotives.....	11	1,663	11	—	—	1,663	—	—
Shipbuilding.....	96	24,246	96	—	—	24,246	—	—
Railroad repair shops:								
Electric railroad.....	390	19,437	388	—	2	19,278	—	159
Steam railroad.....	524	72,647	524	—	—	72,647	—	—
Lumber and allied products:								
Furniture.....	440	46,074	413	27	—	39,884	6,190	—
Lumber:								
Millwork.....	471	21,129	454	14	3	19,354	1,722	53
Sawmills.....	599	69,068	529	69	1	51,215	17,538	315
Turpentine and rosin.....	23	1,317	21	2	—	1,196	121	—
Stone, clay, and glass products:								
Brick, tile, and terra cotta.....	652	21,842	614	37	1	18,120	3,687	35
Cement.....	122	16,072	108	14	—	13,482	2,590	—
Glass.....	186	41,694	181	5	—	40,298	1,396	—
Marble, granite, slate, and other products.....	217	5,369	214	2	1	5,217	146	6
Pottery.....	116	16,067	111	5	—	15,628	459	—

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

Industry	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate increases	Wage-rate decreases	No wage-rate changes	Wage-rate increases	Wage-rate decreases
Leather and its manufactures:								
Boots and shoes.....	339	121, 735	329	10	-----	118, 997	2, 738	-----
Leather.....	153	29, 613	142	11	-----	25, 763	3, 850	-----
Paper and printing:								
Boxes, paper.....	318	22, 606	311	6	1	21, 938	633	35
Paper and pulp.....	400	84, 026	374	26	-----	79, 389	4, 637	-----
Printing and publishing:								
Book and job.....	766	41, 296	757	4	5	40, 960	231	105
Newspapers and periodicals.....	465	68, 384	458	3	4	67, 517	473	394
Chemicals and allied products:								
Chemicals.....	109	23, 483	107	2	-----	21, 861	1, 622	-----
Cottonseed, oil, cake, and meal.....	107	3, 485	101	6	-----	3, 362	123	-----
Druggists' preparations.....	45	7, 604	45	-----	-----	7, 604	-----	-----
Explosives.....	30	3, 645	30	-----	-----	3, 645	-----	-----
Fertilizers.....	173	5, 690	170	3	-----	5, 611	179	-----
Paints and varnishes.....	348	16, 751	340	7	1	15, 624	1, 118	9
Petroleum refining.....	126	49, 487	125	1	-----	49, 476	11	-----
Rayon and allied products.....	22	28, 006	14	8	-----	17, 697	10, 309	-----
Soap.....	95	15, 104	91	4	-----	15, 079	25	-----
Rubber products:								
Rubber boots and shoes.....	9	10, 385	8	1	-----	9, 501	884	-----
Rubber goods, other than boots, shoes, tires, and inner tubes.....	98	21, 025	94	4	-----	20, 254	771	-----
Rubber tires and inner tubes.....	41	57, 497	32	9	-----	23, 424	34, 073	-----
Tobacco manufactures:								
Chewing and smoking tobacco and snuff.....	33	9, 674	32	1	-----	9, 596	78	-----
Cigars and cigarettes.....	208	43, 459	206	1	1	43, 373	6	80

## Nonmanufacturing Industries

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

No changes in wage rates were reported in the anthracite mining and telephone and telegraph industries. Both increases and decreases were reported in 10 of the remaining 13 industries over the month interval. The average percents of increase reported were as follows: Metalliferous mining and canning and preserving, 14.8 percent each; dyeing and cleaning, 13.9 percent; quarrying and nonmetallic mining, 13.5 percent; laundries, 12.9 percent; retail trade, 12.8 percent; bituminous-coal mining, 11.9 percent; banks, brokerage, insurance, real estate, 11.4 percent; wholesale trade, 9 percent; and hotels, 3 percent. The average percents of decrease reported were as follows: Laundries, 15 percent; banks, brokerage, insurance, and real estate, 12.7 percent; dyeing and cleaning, 12.5 percent; quarrying and non-metallic mining, 12.1 percent; hotels, 11.6 percent; retail trade, 11.3 percent; electric-railroad operation and maintenance, 7.5 percent; power and light, 7.4 percent; crude-petroleum producing, 7.3 percent; and canning and preserving, 3 percent.

TABLE 2.—WAGE-RATE CHANGES IN NONMANUFACTURING INDUSTRIES DURING MONTH ENDING JULY 15, 1933

Industrial group	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage-rate changes	Wage-rate increases	Wage-rate decreases	No wage-rate changes	Wage-rate increases	Wage-rate decreases
Anthracite mining.....	160	59,940	160	—	—	59,940	—	—
Percent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Bituminous-coal mining.....	1,471	191,024	1,359	112	—	165,455	25,569	—
Percent of total.....	100.0	100.0	92.4	7.6	—	86.6	13.4	—
Metalliferous mining.....	278	22,365	256	22	—	19,850	2,515	—
Percent of total.....	100.0	100.0	92.1	7.9	—	88.8	11.2	—
Quarrying and nonmetallic mining.....	1,134	33,044	1,115	17	2	32,264	751	29
Percent of total.....	100.0	100.0	98.3	1.5	.2	97.6	2.3	.1
Crude-petroleum producing.....	239	24,189	234	—	5	24,146	—	43
Percent of total.....	100.0	100.0	97.9	—	2.1	99.8	—	.2
Telephone and telegraph.....	8,318	247,238	8,316	—	—	247,238	—	—
Percent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Power and light.....	3,204	195,565	3,201	—	3	194,205	—	1,360
Percent of total.....	100.0	100.0	99.9	—	.1	99.3	—	.7
Electric-railroad and motor-bus operation and maintenance.....	560	130,995	558	—	2	129,999	—	996
Percent of total.....	100.0	100.0	99.6	—	.4	99.2	—	.8
Wholesale trade.....	2,924	75,870	2,899	25	—	75,365	505	—
Percent of total.....	100.0	100.0	99.1	.9	—	99.3	.7	—
Retail trade.....	17,560	334,147	17,510	18	32	333,765	182	200
Percent of total.....	100.0	100.0	99.7	.1	.2	99.9	.1	.1
Hotels.....	2,702	136,190	2,691	4	7	135,968	123	99
Percent of total.....	100.0	100.0	99.6	.1	.3	99.8	.1	.1
Canning and preserving.....	874	65,865	850	23	1	62,988	2,872	5
Percent of total.....	100.0	100.0	97.3	2.6	.1	95.6	4.4	(1)
Laundries.....	909	54,715	906	2	1	54,652	21	42
Percent of total.....	100.0	100.0	99.7	.2	.1	99.9	(1)	.1
Dyeing and cleaning.....	311	10,427	307	3	1	10,308	114	5
Percent of total.....	100.0	100.0	98.7	1.0	.3	98.9	1.1	(1)
Banks, brokerage, insurance, and real estate.....	4,475	168,656	4,425	36	14	167,346	1,190	120
Percent of total.....	100.0	100.0	93.9	.8	.3	99.2	.7	.1

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