

UNITED STATES DEPARTMENT OF LABOR

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BUREAU OF LABOR STATISTICS

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TREND OF EMPLOYMENT

FEBRUARY 1933



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UNITED STATES

GOVERNMENT PRINTING OFFICE

WASHINGTON : 1933

TREND OF EMPLOYMENT

February 1933

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

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

Employment in Selected Manufacturing Industries in February 1933

Comparison of Employment and Pay-Roll Totals in February 1933 with January 1933 and February 1932

EMPLOYMENT in manufacturing industries increased 1.6 percent in February 1933 as compared with January 1933, and pay-roll totals increased 1.7 percent over the month interval. Comparing February 1933 with February 1932, decreases of 12.3 percent in employment and 26.6 percent in pay rolls are shown over the 12-month period.

The percents of change in employment and pay-roll totals in February 1933 as compared with January 1933 are based on returns made by 17,773 establishments in 89 of the principal manufacturing industries in the United States, having in February 2,593,672 employees, whose combined earnings in one week were \$42,885,896.

The index of employment in February 1933 was 57.5 as compared with 56.6 in January 1933, 58.3 in December 1932, and 65.6 in February 1932; the pay-roll index in February 1933 was 36.4 as compared with 35.8 in January 1933, 37.7 in December 1932, and 49.6 in February 1932. The 12-month average for 1926 equals 100.

In table 1, which follows, are shown the number of identical establishments reporting in both January and February 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 February 15, the amount of their weekly earnings in February, the percents of change over the month and year intervals, and the indexes of employment and pay roll in February 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 two 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 FEBRUARY 1933 WITH JANUARY 1933 AND FEBRUARY 1932

Industry	Estab- lish- ments report- ing in both Jan. and Feb. 1933	Employment				Pay-roll totals				Index num- bers Feb. 1933 (average 1926=100)	
		Number on pay roll Feb. 1933	Percent of change		Amount of pay roll (1 week) Feb. 1933	Percent of change					
			Jan. to Feb. 1933	Feb. 1932 to Feb. 1933		Jan. to Feb. 1933	Feb. 1932 to Feb. 1933	Em- ploy- ment	Pay- roll totals		
Food and kindred products.	2,996	233,171	-1.7	-4.6	\$4,664,216	-3.2	-17.4			77.4	60.1
Baking.....	955	60,216	-.4	-7.5	1,298,470	-2.1	-18.7			77.0	62.1
Beverages.....	317	9,210	+2.0	-10.1	221,374	+6	-18.0			64.8	49.7
Butter.....	289	4,867	+5	+5.7	102,115	-3.1	-13.6			89.0	68.8
Confectionery.....	315	33,712	-1.1	+1.3	448,038	-2.6	-16.4			75.5	52.6
Flour.....	424	15,650	-1.4	-3.9	314,926	-6.9	-14.3			81.0	61.9
Ice cream.....	381	10,636	+7	-9.8	267,154	-1.0	-25.8			61.7	46.6
Slaughtering and meat packing.....	241	86,641	+2	-5.8	1,749,377	-1.8	-16.8			84.6	65.9
Sugar, beet.....	59	4,348	-57.1	+91.8	83,272	-49.6	+10.2			49.1	33.6
Sugar refining, cane.....	15	7,891	+3.2	-2.1	179,490	+2.7	-14.4			74.1	57.7
Textiles and their products.	3,078	624,295	+3.6	-4.0	7,892,179	+8.5	-20.5			72.1	45.8
Fabrics:											
Carpets and rugs.....	32	12,973	-3.2	-19.7	173,393	-6.4	-37.9			49.6	25.2
Cotton goods.....	673	230,848	-.6	-1.7	2,327,970	-.8	-17.9			74.3	48.0
Cotton small wares.....	113	9,394	+5.0	-8.8	139,821	+11.7	-24.4			79.8	56.8
Dyeing and finishing textiles.....	150	34,315	+1.1	-9.3	633,392	+8.0	-24.8			78.2	56.7
Knit goods.....	448	100,650	+5	-2.3	1,224,695	+3.4	-21.0			79.7	50.1
Silk and rayon goods.....	242	45,021	-.2	-14.0	547,760	+1.9	-28.8			59.6	36.5
Woolen and worsted goods.....	239	58,953	+9.7	+6.1	951,630	+14.5	-9.9			78.3	57.1
Wearing apparel:											
Clothing, men's.....	368	61,908	+9.7	-5.0	364,157	+24.7	-18.2			68.2	39.1
Clothing, women's.....	440	27,481	+9.3	-6.6	483,233	+21.3	-23.8			69.5	42.2
Corsets and allied garments.....	33	5,837	+6.3	-2.8	87,473	+17.7	-15.5			102.6	80.7
Hats, fur-felt.....	35	5,387	+2.5	-.7	90,382	-4.3	-7.7			66.5	37.1
Men's furnishings.....	68	7,288	+2.6	-1.6	73,303	+5.2	-30.3			63.3	33.8
Millinery.....	121	9,403	+10.9	-12.2	140,705	+8.6	-34.4			72.0	43.2
Shirts and collars.....	116	14,837	+9.0	-4.3	144,265	+14.4	-17.7			58.2	34.5
Iron and steel and their products, not including machinery.	1,348	288,189	+4.7	-17.7	3,999,330	+8.4	-33.4			51.3	24.5
Bolts, nuts, washers, and rivets.....	67	7,494	+1.9	-13.7	112,071	+5.5	-30.0			61.1	32.6
Cast-iron pipe.....	39	4,463	-13.3	-44.4	51,812	-14.8	-59.7			23.4	11.2
Cutlery (not including silver and plated cutlery) and edge tools.....	121	7,873	+2.7	-20.2	134,240	+6.5	-33.3			59.3	37.6
Forgings, iron and steel.....	60	4,904	-2.9	-23.2	71,411	-7.9	-40.3			51.4	24.9
Hardware.....	100	20,411	+1.4	-16.2	257,029	+3.4	-35.6			49.0	23.2
Iron and steel.....	199	177,531	+4.8	-15.6	2,363,018	+10.2	-31.2			53.0	23.6
Plumbers' supplies.....	68	5,910	+23.6	-20.9	80,314	+33.9	-39.3			54.5	25.9
Steam and hot-water heat- ing apparatus and steam fittings.....	97	13,441	+11.3	-22.7	209,405	+9.3	-35.9			34.8	18.2
Stoves.....	154	13,533	+14.0	-15.0	216,026	+25.1	-24.4			43.0	23.2
Structural and ornamental metal work.....	194	13,032	-2.2	-32.9	180,594	-6.2	-52.5			37.3	17.4
Tin cans and other tinware.....	60	8,215	+3.9	-3.4	148,664	-.1	-12.4			70.3	39.7
Tools (not including edge tools, machine tools, files, and saws).....	125	6,539	-.3	-22.9	95,902	-7.1	-39.9			59.2	30.6
Wirework.....	64	4,843	+5.1	-12.9	78,844	+15.8	-31.2			89.1	58.6

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN FEBRUARY 1933 WITH JANUARY 1933 AND FEBRUARY 1932—Con.

Industry	Estab- lish- ments report- ing in both Jan. and Feb. 1933	Employment			Pay-roll totals				Index num- bers Feb. 1933 (average 1926=100)	
		Number on pay roll Feb. 1933	Percent of change		Amount of pay roll (1 week) Feb. 1933	Percent of change		Em- ploy- ment	Pay- roll totals	
			Jan. to Feb. 1933	Feb. 1932 to Feb. 1933		Jan. to Feb. 1933	Feb. 1932 to Feb. 1933			
Machinery, not including transportation equip- ment.	1,805	269,793	+1.2	-26.6	\$4,802,053	+1.6	-40.0	43.9	25.4	
Agricultural implements...	79	7,583	+8.9	-27.8	120,454	+14.0	-38.8	29.9	21.6	
Cash registers, adding ma- chines, and calculating machines.	40	12,733	+4	-19.1	281,659	-5	-23.3	62.5	42.7	
Electrical machinery, ap- paratus and supplies...	293	99,211	-1	-34.5	1,932,281	-4	-46.4	46.4	30.3	
Engines, turbines, trac- tors, and water wheels.	90	14,930	+3	-23.1	291,226	+1.5	-29.0	40.0	24.7	
Foundry and machine- shop products.	1,060	94,453	+1.7	-22.7	1,471,076	+3.6	-38.1	42.3	21.6	
Machine tools.	145	10,410	-2.3	-34.5	194,103	-3.7	-45.3	31.0	18.8	
Radios and phonographs.	39	15,488	+6.9	-14.0	280,654	+8.6	-25.9	61.9	45.5	
Textile machinery and parts.	43	6,697	+1.0	-19.9	110,365	-3.3	-41.2	55.0	32.7	
Typewriters and supplies.	16	8,288	-6.3	-25.4	120,235	-9.1	-38.3	53.8	29.8	
Nonferrous metals and their parts.	607	71,882	+1.4	-17.3	1,114,495	+1.7	-33.3	50.8	30.4	
Aluminum manufactures.	24	4,881	+2.2	-13.2	79,060	+5.6	-24.7	47.8	29.6	
Brass, bronze, and copper products.	200	25,357	+2	-19.9	380,654	-2.2	-38.9	48.7	26.5	
Clocks and watches and time-recording devices.	23	4,477	-2.9	-30.5	57,191	-3.0	-41.3	38.0	22.3	
Jewelry.	139	6,841	+5.2	-20.5	114,872	+1.0	-39.0	34.8	21.1	
Lighting equipment.	54	2,688	-3.3	-20.8	46,347	-5.0	-31.4	60.5	40.4	
Silverware and plated ware	53	7,290	+6.6	-9.8	116,813	+6.0	-31.8	58.7	31.8	
Smelting and refining, cop- per, lead, and zinc.	30	8,015	-4.7	-19.1	132,381	-4.9	-31.8	55.9	35.0	
Stamped and enameled ware.	84	12,333	+10.4	-7.8	187,177	+16.3	-25.4	60.5	35.9	
Transportation equipment.	424	227,943	-2.0	-25.2	4,263,101	-10.3	-38.6	48.5	30.6	
Aircraft.	29	5,884	+1.7	-17.2	175,883	+3.6	-17.6	185.8	187.7	
Automobiles.	242	192,021	-1.5	-24.4	3,487,789	-11.3	-38.1	50.8	31.3	
Cars, electric and steam railroad.	41	4,745	-4.5	-19.2	76,784	-9.9	-34.3	17.2	9.0	
Locomotives.	14	2,098	-7.0	-44.1	39,084	-8.5	-57.5	11.8	7.6	
Shipbuilding.	98	23,195	-5.9	-32.1	483,561	-5.1	-44.2	61.1	43.4	
Railroad repair shops.	914	90,465	-1.7	-9.4	2,067,208	+3	-15.7	47.3	35.9	
Electric railroad.	405	20,728	-9	-10.2	526,806	-7	-19.5	65.0	52.5	
Steam railroad.	509	69,737	-1.8	-9.3	1,540,402	+3	-15.4	45.9	34.6	
Lumber and allied products	1,514	107,537	-1.5	-19.9	1,229,280	-6	-36.7	33.4	16.2	
Furniture.	442	39,770	+2.2	-23.3	492,236	+7.1	-37.1	43.1	21.2	
Lumber, millwork.	458	16,672	+2.8	-24.6	206,985	-2.7	-42.5	31.2	15.8	
Lumber, sawmills.	593	50,138	-4.0	-17.2	517,578	-4.7	-34.8	29.8	13.3	
Turpentine and rosin.	21	957	-5.9	-12.6	12,481	-12.8	-22.8	40.9	32.1	
Stone, clay, and glass prod- ucts.	1,305	74,517	+3.7	-23.4	1,150,042	+3.5	-38.1	36.7	20.8	
Brick, tile, and terra cotta.	665	13,192	+1.2	-34.2	142,230	+	-48.0	19.4	7.7	
Cement.	114	9,633	-9	-31.4	145,296	-8	-49.1	29.7	14.9	
Glass.	188	32,980	+4.4	-12.6	570,995	+3.6	-27.0	55.4	37.9	
Marble, granite, slate, and other products.	217	4,357	+8.9	-31.7	82,084	+2.0	-45.8	36.6	21.3	
Pottery.	121	14,355	+4.9	-16.8	209,437	+10.3	-35.7	57.5	31.0	
Leather and its manufac- tures.	479	133,856	+5.5	-3.3	2,015,958	+14.4	-18.4	76.5	48.4	
Boots and shoes.	322	108,806	+6.3	-4.0	1,558,989	+17.3	-20.9	77.7	47.0	
Leather.	157	25,050	+2.2	-1	456,969	+6.0	-9.7	71.6	53.1	

¹ Less than one tenth of 1 percent.

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN FEBRUARY 1933 WITH JANUARY 1933 AND FEBRUARY 1932—Con.

Industry	Estab- lish- ments report- ing in both Jan. and Feb. 1933	Employment			Pay-roll totals			Index num- bers Feb. 1933 (average 1926 = 100)	
		Number on pay roll Feb. 1933	Percent of change		Amount of pay roll (1 week) Feb. 1933	Percent of change		Em- ploy- ment	Pay- roll totals
			Jan. to Feb. 1933	Feb. 1932 to Feb. 1933		Jan. to Feb. 1933	Feb. 1932 to Feb. 1933		
Paper and printing	1,898	206,545	-0.1	-8.1	\$4,868,489	-1.8	-21.0	78.1	61.2
Boxes, paper.....	305	19,576	+1.4	-6.9	330,631	+4.6	-17.5	68.3	53.7
Paper and pulp.....	402	76,195	+4	-6.7	1,312,046	+3.4	-24.0	72.5	46.5
Printing and publishing:									
Book and job.....	743	47,367	-1.0	-13.8	1,216,616	-4.6	-26.2	71.0	54.9
Newspapers and peri- odicals.....	448	63,407	-4	-4.5	2,009,196	-2.9	-16.4	96.8	80.2
Chemicals and allied prod- ucts	1,008	143,209	+1.7	-4.7	3,053,350	+3	-15.4	76.5	59.7
Chemicals.....	117	20,837	+1.6	-2.4	486,871	+1.7	-13.2	86.8	61.4
Cottonseed, oil, cake, and meal.....	54	2,494	+11.1	-15.8	26,887	+2.9	-31.1	40.6	34.1
Druggists' preparations.....	39	6,534	-4.7	-10.5	129,789	-3.5	-13.8	70.5	70.0
Explosives.....	25	3,054	+4	-9.6	54,933	+9	-19.8	76.2	47.0
Fertilizers.....	206	7,991	+13.6	+2	87,257	+5	-19.3	56.7	32.6
Paints and varnishes.....	344	13,324	+1.0	-13.1	277,505	+3.0	-26.4	64.2	47.3
Petroleum refining.....	113	45,523	+1.0	-5.6	1,203,665	-6	-14.4	62.7	53.0
Rayon and allied products.....	23	29,173	-1	-1	481,326	-2.0	-11.4	149.1	121.0
Soap.....	87	14,279	+9	-1.5	305,117	+1.3	-13.0	95.1	78.0
Rubber products	151	70,600	+6	-10.1	1,190,534	+5	-29.5	62.6	36.8
Rubber boots and shoes....	9	9,388	-4.3	-20.6	149,127	-4.0	-17.9	49.2	34.0
Rubber goods, other than boots, shoes, tires, and inner tubes.....	97	18,313	+5	-2.8	310,837	-2	-16.1	82.0	51.7
Rubber tires and inner tubes.....	45	42,899	+2.2	-10.9	730,570	+2.5	-37.2	58.6	32.3
Tobacco manufactures	246	51,670	+5.0	-11.5	585,661	+4.6	-24.8	65.5	42.8
Chewing and smoking to- bacco and snuff.....	34	10,323	-5	-3.1	126,238	-11.9	-19.4	89.5	65.4
Cigars and cigarettes.....	212	41,347	+5.9	-12.8	459,423	+8.5	-25.7	62.4	40.1
Total, 89 industries	17,773	2,593,672	+1.6	-12.3	42,885,896	+1.7	-26.6	57.5	36.4

Per Capita Earnings in Manufacturing Industries

PER CAPITA weekly earnings in February 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 February 1933 as compared with January 1933 and February 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 FEBRUARY 1933 AND COMPARISON WITH JANUARY 1933 AND FEBRUARY 1932

Industry	Per capita weekly earnings in February 1933	Percent of change compared with—	
		January 1933	February 1932
Food and kindred products:			
Baking.....	\$21.56	-1.7	-12.5
Beverages.....	24.04	-1.3	-9.2
Butter.....	20.98	-3.7	-18.1
Confectionery.....	13.29	-1.5	-17.7
Flour.....	20.12	-5.6	-10.8
Ice cream.....	25.12	-1.6	-17.8
Slaughtering and meat packing.....	20.19	-2.0	-11.8
Sugar, beet.....	19.15	+17.4	-42.4
Sugar refining, cane.....	22.75	-.4	-12.4
Textiles and their products:			
Fabrics:			
Carpets and rugs.....	13.37	-3.3	-22.8
Cotton goods.....	10.08	-.2	-16.5
Cotton small wares.....	14.88	+6.4	-16.9
Dyeing and finishing textiles.....	18.46	+6.8	-17.1
Knit goods.....	12.17	+2.9	-19.0
Silk and rayon goods.....	12.17	+2.2	-16.9
Woolen and worsted goods.....	16.14	+4.3	-14.9
Wearing apparel:			
Clothing, men's.....	13.96	+13.7	-14.1
Clothing, women's.....	17.58	+10.9	-18.6
Corsets and allied garments.....	14.99	+10.8	-13.0
Hats, fur-felt.....	16.78	-6.6	-7.0
Men's furnishings.....	10.06	+2.4	-29.7
Millinery.....	14.96	-2.1	-25.3
Shirts and collars.....	9.72	+4.9	-13.4
Iron and steel and their products, not including machinery:			
Bolts, nuts, washers, and rivets.....	14.95	+3.5	-19.0
Cast-iron pipe.....	11.61	-1.7	-27.9
Cutlery (not including silver and plated cutlery) and edge tools.....	17.05	+3.7	-16.4
Forgings, iron and steel.....	14.56	-5.1	-22.3
Hardware.....	12.59	+1.9	-22.8
Iron and steel.....	13.31	+5.1	-18.9
Plumbers' supplies.....	13.59	+8.4	-23.2
Steam and hot-water heating apparatus and steam fittings.....	15.58	-1.8	-17.2
Stoves.....	15.96	+9.7	-11.2
Structural and ornamental metal work.....	13.86	-4.1	-20.0
Tin cans and other tinware.....	18.10	-3.8	-9.2
Tools (not including edge tools, machine tools, files, and saws).....	14.67	-6.8	-21.8
Wirework.....	16.28	+10.2	-21.0
Machinery, not including transportation equipment:			
Agricultural implements.....	15.88	+4.7	-15.2
Cash registers, adding machines, and calculating machines.....	22.12	-.9	-5.4
Electrical machinery, apparatus, and supplies.....	19.48	-.2	-17.6
Engines, turbines, tractors, and water wheels.....	19.51	+1.2	-8.0
Foundry and machine-shop products.....	15.57	+1.8	-19.9
Machine tools.....	18.65	-1.4	-16.3
Radios and phonographs.....	18.12	+1.6	-13.4
Textile machinery and parts.....	16.48	-4.3	-26.5
Typewriters and supplies.....	14.51	-2.9	-17.4
Nonferrous metals and their parts:			
Aluminum manufactures.....	16.20	+3.3	-13.2
Brass, bronze, and copper products.....	15.01	-2.3	-23.7
Clocks and watches and time-recording devices.....	12.77	-.1	-15.7
Jewelry.....	16.79	-4.1	-22.9
Lighting equipment.....	17.24	-1.7	-13.1
Silverware and plated ware.....	16.02	-.6	-24.4
Smelting and refining—copper, lead, and zinc.....	16.52	-.1	-15.6
Stamped and enameled ware.....	15.18	+5.4	-19.4
Transportation equipment:			
Aircraft.....	29.89	+1.9	-.5
Automobiles.....	18.16	-10.0	-18.2
Cars, electric and steam railroad.....	16.18	-5.6	-18.7
Locomotives.....	18.63	-1.6	-24.5
Shipbuilding.....	20.85	+9	-17.7
Railroad repair shops:			
Electric railroad.....	25.42	+2	-10.4
Steam railroad.....	22.09	+2.1	-6.7
Lumber and allied products:			
Furniture.....	12.38	+4.8	-18.4
Lumber:			
Millwork.....	12.42	-5.3	-23.8
Sawmills.....	10.32	-.8	-21.4
Turpentine and rosin.....	13.04	-7.4	-11.7

TABLE 2.—PER CAPITA WEEKLY EARNINGS IN **MANUFACTURING INDUSTRIES** IN FEBRUARY 1933 AND COMPARISON WITH JANUARY 1933 AND FEBRUARY 1932—Con.

Industry	Per capita weekly earnings in February 1933	Percent of change compared with—	
		January 1933	February 1932
Stone, clay, and glass products:			
Brick, tile, and terra cotta.....	\$10.78	-1.1	-20.6
Cement.....	15.08	+1	-25.9
Glass.....	17.31	-8	-16.8
Marble, granite, slate, and other products.....	18.84	-6.4	-20.8
Pottery.....	14.59	+5.2	-22.5
Leather and its manufactures:			
Boots and shoes.....	14.33	+10.4	-17.6
Leather.....	18.24	+3.7	-9.7
Paper and printing:			
Boxes, paper.....	16.89	+3.2	-11.0
Paper and pulp.....	17.22	+3.0	-18.6
Printing and publishing:			
Book and job.....	25.68	-3.6	-14.4
Newspapers and periodicals.....	31.69	-2.6	-12.6
Chemicals and allied products:			
Chemicals.....	23.37	+1	-11.0
Cottonseed, oil, cake, and meal.....	10.78	-7.4	-18.8
Druggists' preparations.....	19.86	+1.3	-3.8
Explosives.....	17.99	+5	-11.3
Fertilizers.....	10.92	-11.5	-19.1
Paints and varnishes.....	20.83	+2.0	-15.6
Petroleum refining.....	26.44	-1.6	-9.5
Rayon and allied products.....	16.50	-2.0	-11.5
Soap.....	21.37	+4	-11.7
Rubber products:			
Rubber boots and shoes.....	15.88	+3	+3.7
Rubber goods, other than boots, shoes, tires, and inner tubes.....	16.97	-8	-13.7
Rubber tires and inner tubes.....	17.03	+2	-29.5
Tobacco manufactures:			
Chewing and smoking tobacco and snuff.....	12.23	-11.5	-16.7
Cigars and cigarettes.....	11.11	+2.5	-14.8
Total, 89 industries.....	16.53	(¹)	-16.3

¹ No change.

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 February 1933, together with average indexes for each of the years from 1926 to 1932, and for the months of January and February 1933 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 for each of the years 1926 to 1932, inclusive, and for January and February 1933.

TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES, JANUARY 1926 TO FEBRUARY 1933
[12-month average, 1926=100]

Month	Employment								Pay rolls							
	1926	1927	1928	1929	1930	1931	1932	1933	1926	1927	1928	1929	1930	1931	1932	1933
January.....	100.4	97.3	91.6	95.2	90.7	74.6	64.8	56.6	98.0	94.9	89.6	94.5	88.1	63.7	48.6	35.8
February.....	101.5	99.0	93.0	97.4	90.9	75.3	65.6	57.5	102.2	100.6	93.9	101.8	91.3	68.1	49.6	36.4
March.....	102.0	99.5	93.7	98.6	90.5	75.9	64.5	57.5	103.4	102.0	95.2	103.0	91.6	69.6	48.2	35.8
April.....	101.0	98.6	93.3	99.1	89.9	75.7	62.2	57.5	101.5	100.8	93.8	104.6	90.7	68.5	44.7	35.8
May.....	99.8	97.6	93.0	99.2	88.6	75.2	59.7	57.5	99.8	99.8	94.1	104.8	88.6	67.7	42.5	35.8
June.....	99.3	97.0	93.1	98.8	86.5	73.4	57.5	57.5	99.7	97.4	94.2	102.8	85.2	63.8	39.3	35.8
July.....	97.7	95.0	92.2	98.2	82.7	71.7	55.2	57.5	95.2	93.0	91.2	98.2	77.0	60.3	36.2	35.8
August.....	98.7	95.1	93.6	98.6	81.0	71.2	56.0	57.5	98.7	95.0	94.2	102.1	75.0	59.7	36.3	35.8
September.....	100.3	95.8	95.0	99.3	80.9	70.9	58.5	57.5	99.3	94.1	95.4	102.6	75.4	56.7	38.1	35.8
October.....	100.7	95.3	95.9	98.4	79.9	68.9	59.9	57.5	102.9	95.2	99.0	102.4	74.0	55.3	39.9	35.8
November.....	99.5	93.5	95.4	95.0	77.9	67.1	59.4	57.5	99.6	91.6	96.1	95.4	69.6	52.5	38.6	35.8
December.....	98.9	92.6	95.5	92.3	76.6	66.7	58.3	57.5	99.8	93.2	97.7	92.4	68.8	52.2	37.7	35.8
Average...	100.0	96.4	93.8	97.5	84.7	72.2	60.1	57.1	100.0	96.5	94.5	100.5	81.3	61.5	41.6	36.1

¹ Average for 2 months.

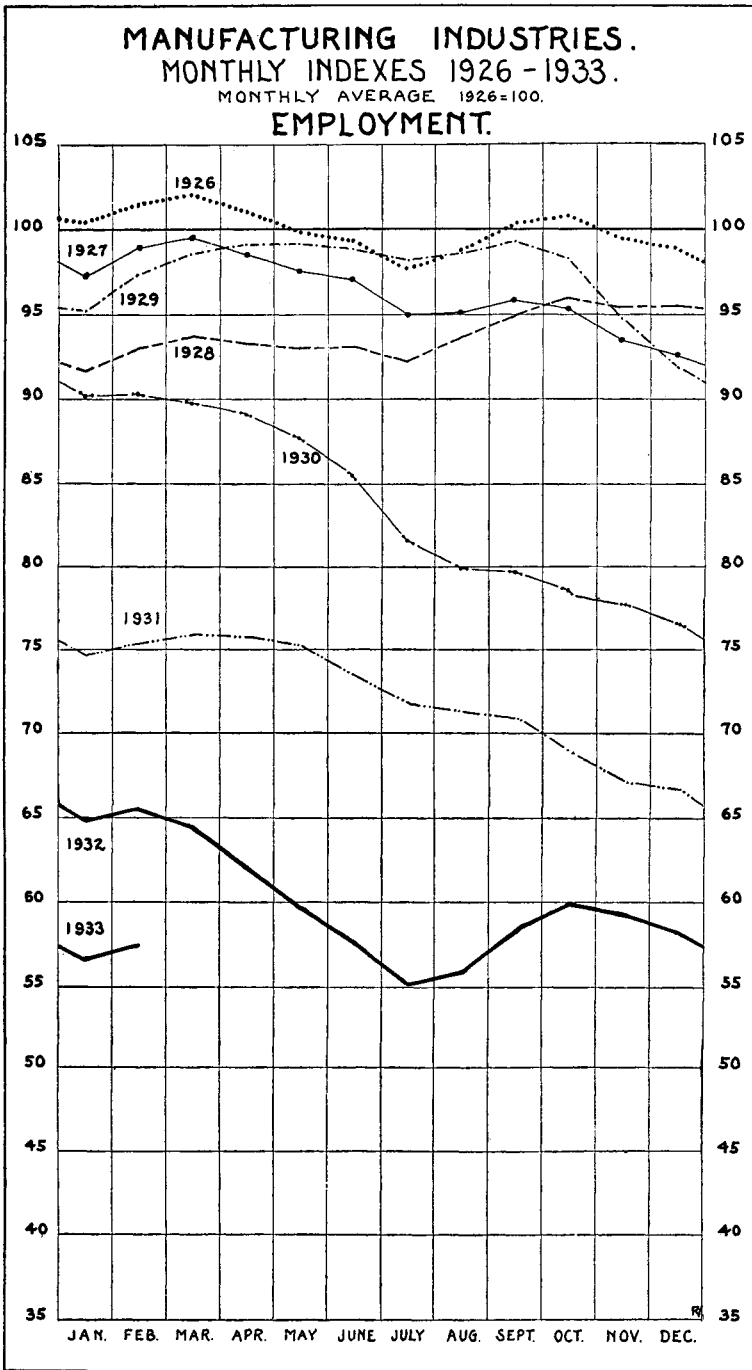
Time Worked in Manufacturing Industries in February 1933

REPORTS as to working time in February were received from 13,111 establishments in 89 manufacturing industries. Three percent of these establishments were idle, 45 percent operated on a full-time basis, and 51 percent worked on a part-time schedule.

An average of 85 percent of full-time operation in February was shown by reports received from all the operating establishments included in table 4. The establishments working part time in February averaged 72 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. Such establishments have been classified under full-time establishments in the following tabulation. The heading of the column concerning full-time plants has therefore been changed to read "Percent of establishments operating full time" instead of "Percent of establishments in which employees worked full time."

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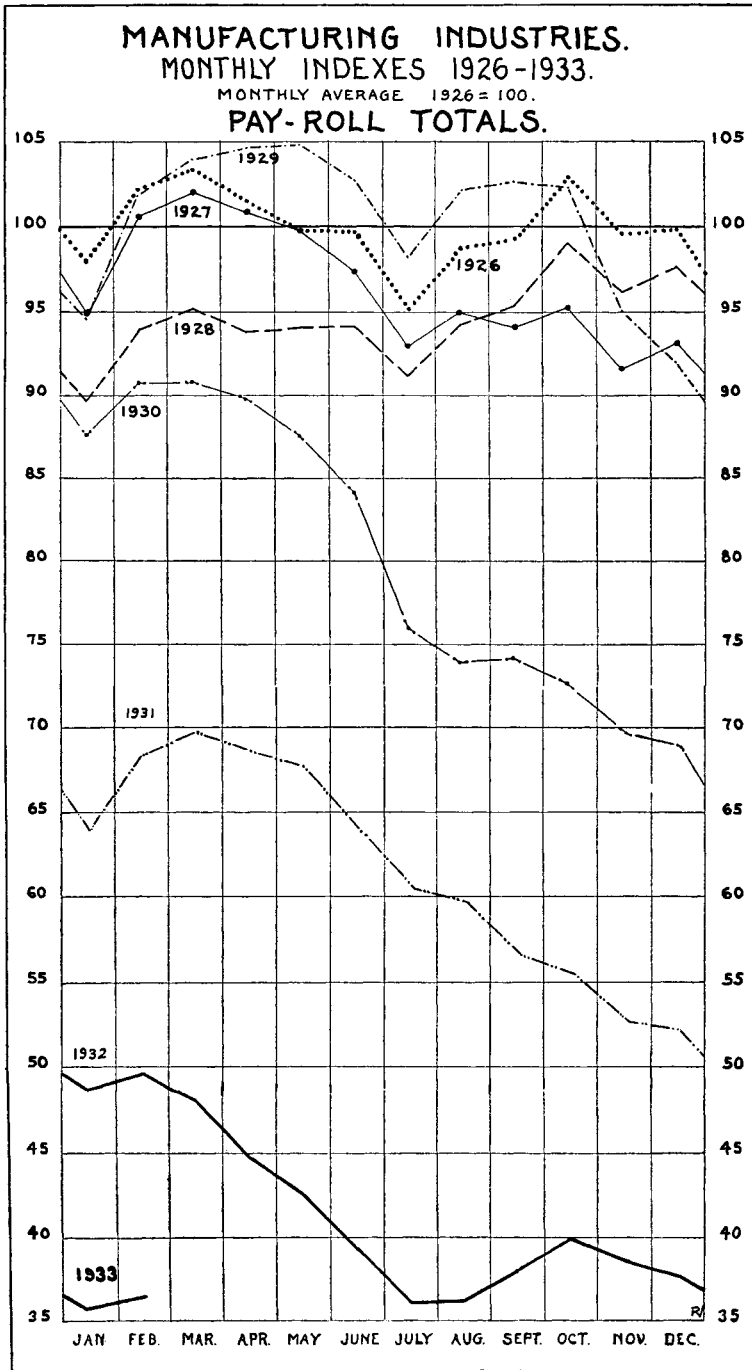


TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN FEBRUARY 1933

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
Food and kindred products	2,366	1	67	32	93	78
Baking.....	729	(1)	81	19	96	80
Beverages.....	267	1	61	38	88	69
Butter.....	235	(1)	73	27	95	81
Confectionery.....	248	2	42	56	87	76
Flour.....	378	1	65	34	92	76
Ice cream.....	286	2	58	40	92	81
Slaughtering and meat packing.....	178	—	70	30	96	86
Sugar, beet.....	31	13	52	35	94	85
Sugar refining, cane.....	14	21	29	50	81	70
Textiles and their products	2,356	3	58	38	90	74
Fabrics:						
Carpets and rugs.....	27	4	44	52	79	61
Cotton goods.....	610	3	55	42	88	71
Cotton small wares.....	97	2	48	49	89	78
Dyeing and finishing textiles.....	131	2	47	51	89	79
Knit goods.....	375	3	60	37	89	71
Silk and rayon goods.....	222	9	64	27	92	74
Woolen and worsted goods.....	217	4	66	30	93	77
Wearing apparel:						
Clothing, men's.....	252	2	55	43	89	75
Clothing, women's.....	215	4	66	30	92	73
Corsets and allied garments.....	23	—	61	39	93	82
Hats, fur-felt.....	19	—	53	47	87	69
Men's furnishings.....	46	—	54	46	89	75
Millinery.....	70	1	66	33	94	81
Shirts and collars.....	82	10	52	38	91	80
Iron and steel and their products, not including machinery	971	5	21	74	72	64
Bolts, nuts, washers, and rivets.....	58	—	17	83	70	64
Cast-iron pipe.....	36	22	8	69	49	43
Cutlery (not including silver and plated cutlery) and edge tools.....	99	4	34	62	74	60
Forgings, iron and steel.....	32	—	13	88	66	61
Hardware.....	54	—	19	81	70	64
Iron and steel.....	117	11	26	63	71	59
Plumbers' supplies.....	50	—	20	80	71	64
Steam and hot-water heating apparatus and steam fittings.....	76	7	7	87	55	52
Stoves.....	125	7	18	75	74	68
Structural and ornamental metal work.....	132	5	18	77	80	75
Tin cans and other tinware.....	53	2	43	55	85	74
Tools (not including edge tools, machine tools, files, and saws).....	99	3	20	77	75	68
Wirework.....	40	3	18	80	78	74
Machinery, not including transportation equipment	1,302	2	23	75	74	66
Agricultural implements.....	51	2	27	71	78	69
Cash registers, adding machines, and calculating machines.....	33	—	27	73	82	76
Electrical machinery, apparatus and supplies.....	189	1	15	84	75	70
Engines, turbines, tractors and water wheels.....	68	1	18	81	72	66
Foundry and machine-shop products.....	782	2	26	72	72	63
Machine tools.....	113	4	15	81	73	68
Radios and phonographs.....	27	—	48	52	89	79
Textile machinery and parts.....	28	—	14	86	76	72
Typewriters and supplies.....	11	—	27	73	76	65
Nonferrous metals and their parts	480	1	24	75	77	69
Aluminum manufactures.....	16	—	31	69	89	83
Brass, bronze, and copper products.....	145	1	17	82	73	67
Clocks and watches and time-recording devices.....	18	—	28	72	67	54
Jewelry.....	119	2	24	74	75	66
Lighting equipment.....	42	—	24	76	82	76
Silverware, and plated ware.....	50	—	22	78	75	68
Smelting and refining—copper, lead, and zinc.....	21	—	57	43	89	72
Stamped and enameled ware.....	69	—	28	72	83	77

¹ Less than one half of 1 percent.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN FEBRUARY 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
Transportation equipment.....	296	7	39	55	86	76
Aircraft.....	26	4	62	35	95	86
Automobiles.....	139	8	27	65	82	75
Cars, electric and steam railroad.....	30	10	20	70	74	66
Locomotives.....	11		73	27	90	63
Shipbuilding.....	90	6	52	42	92	82
Railroad repair shops.....	681	(1)	44	55	89	80
Electric railroad.....	300		72	28	95	83
Steam railroad.....	381	(1)	23	77	84	79
Lumber and allied products.....	1,000	3	29	67	77	66
Furniture.....	313	3	35	62	80	70
Lumber, millwork.....	285	3	25	73	75	66
Lumber, sawmills.....	383	4	28	68	74	64
Turpentine and rosin.....	19	5	42	53	92	85
Stone, clay, and glass products.....	653	27	35	38	83	68
Brick, tile, and terra cotta.....	185	48	12	39	72	63
Cement.....	69	32	62	6	99	83
Glass.....	131	9	72	19	95	75
Marble, granite, slate, and other products.....	171	26	21	53	79	71
Pottery.....	97	9	31	60	78	67
Leather and its manufactures.....	344	2	48	50	90	80
Boots and shoes.....	222	2	45	53	89	80
Leather.....	122	1	54	45	90	79
Paper and printing.....	1,549	1	48	52	88	77
Boxes, paper.....	239		29	71	82	75
Paper and pulp.....	290	3	29	68	79	70
Printing and publishing:						
Book and job.....	626		44	56	89	80
Newspapers and periodicals.....	394		78	22	97	88
Chemicals and allied products.....	759	1	52	47	90	78
Chemicals.....	73	1	67	32	94	81
Cottonseed, oil, cake, and meal.....	33	9	67	24	94	74
Druggists' preparations.....	25		56	44	92	82
Explosives.....	17		12	88	78	75
Fertilizers.....	159		65	35	92	77
Paints and varnishes.....	289	(1)	37	63	85	76
Petroleum refining.....	78	4	67	29	96	88
Rayon and allied products.....	13		77	23	96	83
Soap.....	72		51	49	92	84
Rubber products.....	121		26	74	82	76
Rubber boots and shoes.....	8		25	75	90	87
Rubber goods, other than boots, shoes, tires, and inner tubes.....	83		31	69	85	77
Rubber tires and inner tubes.....	30		13	87	74	70
Tobacco manufactures.....	203	9	27	65	79	70
Chewing and smoking tobacco and snuff.....	31	6	52	42	84	63
Cigars and cigarettes.....	172	9	22	69	78	71
Total, 89 industries.....	13,111	3	45	51	85	72

¹ Less than one half of 1 percent.**Employment in nonmanufacturing industries in February 1933**

IN THE following table are presented employment and pay-roll data for 15 groups of nonmanufacturing industries. Data concerning the building-construction industry is not included in the following tabulation, but is shown in more detail under the section "Building construction."

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN NONMANUFACTURING ESTABLISHMENTS IN FEBRUARY 1933 WITH JANUARY 1933 AND FEBRUARY 1932

Industrial group	Estab-lishments reporting in both Jan. and Feb. 1933	Employment			Pay-roll totals				Index num-bers, Feb. 1933 (average 1929=100)	
		Number on pay roll, Feb. 1933	Percent of change		Amount of pay roll (1 week), Feb. 1933	Percent of change		Em-ploy-ment	Pay-roll totals	
			Jan. to Feb. 1933	Feb. 1932 to Feb. 1933		Jan. to Feb. 1933	Feb. 1932 to Feb. 1933			
Anthracite mining.....	160	80,390	+11.9	-17.6	\$2,259,501	+31.4	-0.9	58.7	56.8	
Bituminous-coal mining.....	1,283	179,810	-7	-10.5	2,528,610	+2.9	-20.9	69.3	37.2	
Metalliferous mining.....	267	21,229	-2.8	-32.8	389,922	-1.5	-36.0	31.5	17.8	
Quarrying and nonmetallic mining.....	605	16,138	-7	-26.6	219,668	-4.0	-41.2	34.8	17.4	
Crude petroleum producing.....	255	23,858	-2	+4.8	678,306	+4.5	-11.1	57.0	41.7	
Telephone and telegraph.....	8,325	282,201	-1.0	-9.9	7,383,773	-4	-19.6	73.9	72.0	
Power and light.....	3,342	204,929	-4	-11.2	5,952,600	-1.9	-16.7	77.4	71.6	
Electric-railroad and motor-bus operation and maintenance.....	548	133,915	-2	-10.8	3,656,894	-5	-19.0	70.4	60.6	
Wholesale trade.....	2,779	73,580	-1.5	-8.4	1,911,091	-5.0	-19.2	74.1	58.6	
Retail trade.....	14,863	316,377	-4.5	-8.8	6,154,310	-6.9	-20.8	73.4	58.4	
Hotels.....	2,544	131,683	(¹)	-12.5	1,756,153	+3	-24.4	73.8	55.9	
Canning and preserving.....	843	32,262	+2.8	-5.4	393,069	+4.6	-20.8	35.1	25.9	
Laundries.....	926	53,318	-1.4	-10.3	782,596	-4.2	-24.3	74.4	55.5	
Dyeing and cleaning.....	318	9,045	-2.8	-11.9	138,843	-9.1	-31.8	70.9	42.4	
Banks, brokerage, insurance, and real estate.....	3,273	125,979	-2	(²)	4,411,930	-7	(²)	-----	-----	

¹ Less than one tenth of 1 percent.

² Not available.

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

Industrial group	Per capita weekly earnings in February 1933	Percent of change February 1933 compared with—	
		January 1933	February 1932
Coal mining:			
Anthracite.....	\$28.11	+17.4	+20.2
Bituminous.....	14.06	+3.5	-11.5
Metalliferous mining.....	18.37	+1.3	-4.7
Quarrying and nonmetallic mining.....	13.61	-3.4	-19.9
Crude petroleum producing.....	28.43	+4.7	-15.1
Public utilities:			
Telephone and telegraph.....	26.16	+1.4	-10.9
Power and light.....	29.05	-1.5	-6.2
Electric-railroad and motor-bus operation and maintenance.....	27.31	-3	-9.2
Trade:			
Wholesale.....	25.97	-3.5	-11.7
Retail.....	19.45	-2.5	-13.1
Hotels (cash payments only) ¹	13.34	+4	-13.7
Canning and preserving.....	12.18	+1.7	-16.2
Laundries.....	14.68	-2.8	-15.6
Dyeing and cleaning.....	15.35	-6.5	-22.6
Banks, brokerage, insurance, and real estate.....	35.02	-5	(²)

¹ The additional value of board, room, and tips cannot be computed.

² Not available.

Indexes of Employment and Pay-Roll Totals for Nonmanufacturing Industries

INDEX numbers of employment and pay-roll totals for 14 nonmanufacturing industries are presented in the following table. The index numbers show the variation in employment and pay rolls in these groups, by months, from January 1929 to February 1933 with the exception of laundries and the dyeing and cleaning groups, for which information over the entire period is not available. The Bureau recently secured data concerning employment and pay rolls for the index base year 1929 from establishments in the laundries and the dyeing and cleaning groups, and has computed index numbers for these two groups, which now appear in this tabulation. The monthly collection of trend-of-employment statistics in these two groups did not begin until the later months of 1930, and, therefore, indexes for each month of the entire period are not available.

TABLE 2.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR NONMANUFACTURING INDUSTRIES, JANUARY TO DECEMBER 1930, 1931, AND 1932, AND JANUARY AND FEBRUARY 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	---	78.5	71.3	61.2	---	98.6	88.8	75.2	---	86.4	65.2	46.8	---
April.....	84.1	85.2	70.1	---	75.0	75.2	72.0	---	94.4	85.9	65.5	---	81.7	58.6	33.9	---
May.....	93.8	80.3	66.9	---	98.8	76.1	58.0	---	90.4	82.4	62.6	---	77.5	54.4	30.7	---
June.....	90.8	76.1	53.0	---	94.3	66.7	37.4	---	88.4	78.4	60.5	---	75.6	52.4	27.3	---
July.....	91.6	65.1	44.5	---	84.0	53.7	34.5	---	88.0	76.4	58.6	---	68.9	50.4	24.4	---
August.....	80.2	67.3	49.2	---	78.8	56.4	41.4	---	89.2	77.0	59.4	---	71.1	50.6	26.4	---
September.....	93.8	80.0	65.8	---	91.6	64.9	47.0	---	90.5	80.4	62.4	---	74.9	53.6	30.2	---
October.....	99.0	86.8	63.9	---	117.2	91.1	66.7	---	91.8	81.3	67.0	---	79.4	56.2	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	55.6	95.3	75.4	53.7	49.9	93.4	83.2	67.4	69.6	81.3	57.5	35.6	36.7
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	---	90.8	52.8	26.5	---	83.0	70.0	46.0	---	80.0	58.2	28.7	---
April.....	89.3	63.9	43.3	---	88.3	51.4	25.0	---	87.4	76.1	48.6	---	85.4	62.6	30.0	---
May.....	87.5	62.4	38.3	---	85.6	49.3	23.8	---	90.8	75.0	50.6	---	90.2	62.3	32.3	---
June.....	84.6	60.0	32.2	---	81.6	46.1	20.1	---	90.3	72.3	49.5	---	90.9	60.1	30.0	---
July.....	80.5	56.2	29.5	---	71.9	41.3	16.9	---	89.9	71.0	49.5	---	85.5	57.3	29.1	---
August.....	79.0	55.8	28.6	---	71.0	40.2	16.5	---	89.3	68.9	51.1	---	85.8	55.1	29.7	---
September.....	78.1	55.5	29.3	---	69.9	40.0	17.0	---	87.7	66.6	52.4	---	82.5	51.2	30.5	---
October.....	77.2	53.8	30.5	---	68.6	37.4	18.0	---	84.7	64.5	52.4	---	79.3	48.7	30.1	---
November.....	72.8	52.8	31.9	---	63.4	35.1	18.7	---	78.3	59.3	49.4	---	66.8	43.3	27.1	---
December.....	70.1	51.2	33.3	---	59.9	34.3	18.7	---	70.2	53.9	42.3	---	59.9	36.9	22.1	---
Average.....	83.2	59.1	36.5	32.0	78.0	44.8	21.6	18.0	84.3	67.4	49.0	35.0	79.3	53.4	29.1	17.8
Month	Crude petroleum producing								Telephone and telegraph							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	92.7	74.8	54.9	57.2	94.0	71.5	46.5	39.9	101.6	90.5	83.0	74.6	105.1	96.3	89.1	71.7
February.....	90.8	73.2	54.4	57.0	88.6	70.0	46.9	41.7	100.2	89.2	82.0	73.9	101.9	94.8	89.6	72.0
March.....	89.3	72.2	51.4	---	91.3	73.2	43.2	---	99.4	88.6	81.7	---	105.8	97.9	88.2	---
April.....	86.8	69.8	54.9	---	86.6	66.3	44.5	---	98.9	88.1	81.2	---	103.4	95.0	83.4	---
May.....	89.8	67.8	54.5	---	85.4	64.7	47.1	---	99.7	87.4	80.6	---	103.2	94.1	82.8	---
June.....	90.2	65.0	54.2	---	87.1	62.7	44.8	---	99.8	86.9	79.9	---	103.4	95.0	82.1	---
July.....	89.9	65.3	55.4	---	88.5	59.2	44.6	---	100.0	86.6	79.1	---	106.6	93.3	79.6	---
August.....	87.7	62.4	57.4	---	86.0	56.3	42.9	---	98.8	85.9	78.1	---	102.5	92.3	79.1	---
September.....	85.0	61.2	56.2	---	84.0	55.2	41.9	---	96.8	85.0	77.4	---	102.2	92.1	75.9	---
October.....	85.2	60.4	56.8	---	82.6	54.4	42.5	---	94.5	84.1	76.2	---	100.9	91.6	75.7	---
November.....	83.6	57.6	56.5	---	80.0	52.0	42.4	---	93.0	83.5	75.5	---	97.9	89.7	74.3	---
December.....	77.4	58.2	57.2	---	77.2	54.9	41.7	---	91.6	83.1	74.8	---	101.3	92.7	73.5	---
Average.....	87.4	65.7	55.3	57.1	85.9	61.7	44.1	40.8	97.9	86.6	79.1	74.3	102.9	93.7	81.1	71.9

¹ Average for 2 months.

TABLE 2.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR **NONMANUFACTURING** INDUSTRIES, JANUARY TO DECEMBER 1930, 1931, AND 1932, AND JANUARY AND FEBRUARY 1933—Continued

[12-month average, 1929=100]

Month	Power and light								Electric-railroad and motor-bus operation and maintenance ¹							
	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	.....	102.1	102.4	85.4	.....	94.4	86.4	77.6	.....	95.4	88.1	73.6	.....
April.....	100.7	97.1	84.8	.....	102.6	97.6	82.4	.....	95.2	86.8	78.0	.....	97.1	86.6	71.8	.....
May.....	103.4	97.6	84.0	.....	104.5	98.7	84.2	.....	95.2	85.9	76.9	.....	96.0	85.1	72.2	.....
June.....	104.6	97.2	83.2	.....	107.8	98.3	80.5	.....	94.8	85.3	76.5	.....	97.0	84.8	70.2	.....
July.....	105.9	96.7	82.3	.....	106.7	97.4	78.7	.....	95.3	85.6	75.6	.....	95.6	83.3	66.4	.....
August.....	106.4	95.9	81.5	.....	106.6	96.2	76.7	.....	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	77.6	104.3	96.7	79.8	72.3	93.4	84.7	75.5	70.5	93.5	83.4	68.0	60.8
Month	Wholesale trade								Retail trade							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	100.0	89.5	81.8	75.3	100.0	87.5	74.1	61.7	98.9	90.0	84.3	76.9	99.7	89.4	78.0	62.7
February.....	98.5	88.2	80.9	74.1	98.3	88.4	72.5	58.6	94.4	87.1	80.5	73.4	96.0	86.7	73.7	58.4
March.....	97.7	87.4	79.8	.....	99.7	89.1	71.3	.....	93.9	87.8	81.4	.....	95.5	87.5	73.4	.....
April.....	97.3	87.4	78.9	.....	97.9	85.2	68.9	.....	97.3	90.1	81.6	.....	97.5	88.3	72.7	.....
May.....	96.8	87.1	77.9	.....	97.4	84.7	69.7	.....	96.7	89.9	80.9	.....	97.3	88.0	71.1	.....
June.....	96.5	87.1	77.0	.....	98.6	84.1	66.2	.....	93.9	89.1	79.4	.....	96.8	87.6	68.2	.....
July.....	96.0	86.8	76.6	.....	96.0	83.3	64.7	.....	89.0	83.9	74.6	.....	91.7	83.3	63.3	.....
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	74.7	95.9	83.6	67.0	60.2	95.9	89.4	80.9	75.2	96.2	86.6	69.4	60.6
Month	Hotels								Canning and preserving							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	100.4	95.0	83.2	73.8	100.3	91.0	73.9	55.7	46.1	48.9	35.0	34.1	50.3	46.1	31.8	24.8
February.....	102.4	96.8	84.3	73.8	103.8	93.7	73.9	55.9	45.7	48.3	37.1	35.1	51.5	48.6	32.7	25.9
March.....	102.4	96.8	84.0	.....	104.4	93.4	72.4	.....	49.7	53.0	36.3	.....	50.8	50.3	31.9	.....
April.....	100.1	95.9	82.7	.....	100.3	89.9	69.6	.....	74.8	59.6	47.0	.....	72.6	57.1	37.9	.....
May.....	98.0	92.5	80.1	.....	98.4	87.7	67.0	.....	65.7	56.0	40.5	.....	66.9	56.0	36.0	.....
June.....	98.0	91.6	78.0	.....	98.1	85.4	63.8	.....	83.0	70.6	55.5	.....	81.5	58.6	40.5	.....
July.....	101.3	93.3	78.4	.....	99.8	85.2	61.8	.....	126.3	102.2	73.0	.....	112.7	74.2	47.5	.....
August.....	101.5	92.8	77.6	.....	98.6	83.8	59.6	.....	185.7	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	129.4	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.....	95.2	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	73.8	98.5	85.4	64.5	55.8	103.9	80.9	59.5	34.6	96.1	65.6	42.6	25.4
Month	Laundries								Dyeing and cleaning							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	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
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
March.....	.....	89.5	82.0	.....	.....	85.6	71.6	.....	.....	88.0	80.6	.....	.....	76.6	61.7	.....
April.....	.....	90.5	82.0	.....	.....	86.8	71.4	.....	.....	95.7	83.3	.....	.....	86.3	65.9	.....
May.....	.....	90.3	81.4	.....	.....	86.5	70.6	.....	.....	96.7	84.5	.....	.....	86.6	67.3	.....
June.....	.....	91.0	81.0	.....	.....	87.1	68.6	.....	.....	99.0	85.1	.....	.....	89.1	65.8	.....
July.....	.....	91.8	80.3	.....	.....	87.4	66.3	.....	.....	98.6	82.4	.....	.....	86.2	60.0	.....
August.....	.....	90.2	78.9	.....	.....	84.6	63.9	.....	.....	93.5	79.5	.....	.....	80.0	56.3	.....
September.....	.....	89.3	78.6	.....	.....	84.1	62.9	.....	.....	95.3	83.3	.....	.....	82.6	61.0	.....
October.....	.....	88.1	77.5	.....	.....	81.8	61.2	.....	.....	94.2	82.3	.....	.....	81.4	58.8	.....
November.....	.....	86.2	76.2	.....	.....	78.9	59.1	.....	.....	90.1	78.0	.....	.....	74.7	52.3	.....
December.....	.....	85.3	75.9	.....	.....	77.4	58.7	.....	.....	84.9	75.2	.....	.....	67.9	48.4	.....
Average.....	.....	89.4	80.1	74.9	.....	84.4	67.0	56.7	.....	92.7	81.4	72.0	.....	80.3	60.5	44.5

¹ Average for 2 months.

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

Average Man-Hours Worked and Average Hourly Earnings

IN THE following tables the Bureau presents a tabulation of man-hours worked per week and average hourly earnings, based on reports supplied by identical establishments in January and February 1933 in 15 industrial groups and 72 manufacturing industries. Man-hour data for the building construction group and for the insurance, real estate, banking, and brokerage groups are not available, and data for several of the 89 manufacturing industries surveyed monthly are omitted from these tables due to lack of adequate information.

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

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

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

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

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 to 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 1.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN 15 INDUSTRIAL GROUPS, JANUARY AND FEBRUARY 1933

Industrial group	Average hours per week		Average hourly earnings	
	January 1933	February 1933	January 1933	February 1933
	Hours	Hours	Cents	Cents
Manufacturing.....	37.4	38.1	42.7	42.4
Anthracite mining.....	28.1	35.0	83.6	81.5
Bituminous coal mining.....	28.8	30.6	48.3	46.4
Metalliferous mining.....	38.7	38.8	47.3	46.9
Quarrying and nonmetallic mining.....	35.3	34.5	39.5	39.9
Crude petroleum producing.....	45.0	46.3	57.7	62.0
Telephone and telegraph.....	37.6	36.9	69.3	71.6
Power and light.....	46.6	46.4	63.3	62.0
Electric-railroad and motor-bus operation and maintenance.....	45.5	45.5	59.5	59.2
Wholesale trade.....	46.8	46.5	56.5	54.4
Retail trade.....	45.2	43.7	43.1	43.5
Hotels.....	51.5	51.8	24.3	24.1
Canning and preserving.....	39.8	39.3	36.0	35.2
Laundries.....	42.0	41.8	35.0	33.8
Dyeing and cleaning.....	44.1	43.2	37.6	36.2
Total.....	40.8	41.0	45.5	45.0

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

Industry	Average hours per week		Average hourly earnings	
	January 1933	February 1933	January 1933	February 1933
	Hours	Hours	Cents	Cents
Food and kindred products:				
Baking.....	46.7	46.9	43.3	42.5
Beverages.....	39.6	39.7	60.8	60.7
Confectionery.....	40.9	40.1	33.0	32.9
Flour.....	47.7	46.7	43.2	42.5
Ice cream.....	48.7	48.7	51.5	50.1
Slaughtering and meat packing.....	46.4	45.2	44.3	44.2
Sugar, beet.....	47.2	46.1	42.8	55.4
Sugar refining, cane.....	46.6	47.7	41.1	41.0
Textiles and their products:				
Carpets and rugs.....	34.5	34.0	40.1	39.5
Cotton goods.....	45.2	45.3	22.1	21.9
Cotton small wares.....	39.9	42.4	34.3	34.4
Dyeing and finishing textiles.....	45.0	47.8	38.5	39.1
Knit goods.....	37.8	39.2	32.5	32.3
Silk and rayon goods.....	39.8	40.3	29.3	29.5
Woolen and worsted goods.....	44.9	46.7	34.4	34.7
Iron and steel and their products, not including machinery:				
Bolts, nuts, washers, and rivets.....	29.3	31.8	45.7	44.5
Cast-iron pipe.....	25.5	27.0	48.0	44.9
Cutlery (not including silver and plated cutlery) and edge tools.....	34.3	36.5	48.9	49.0
Forgings, iron and steel.....	30.3	30.1	48.2	49.3
Hardware.....	28.1	29.8	44.9	43.3
Iron and steel.....	25.7	26.9	48.4	48.5
Plumbers' supplies.....	27.3	31.1	45.6	43.9
Steam and hot-water heating apparatus and steam fittings.....	29.1	29.1	50.1	49.9
Stoves.....	28.4	31.2	47.8	45.8
Structural and ornamental metal work.....	29.1	29.7	45.3	42.9
Tools (not including edge tools, machine tools, files, and saws).....	31.0	29.4	47.7	45.9
Machinery, not including transportation equipment:				
Agricultural implements.....	30.5	33.3	49.1	47.4
Cash registers, adding machines, and calculating machines.....	33.7	33.0	67.4	68.0
Electrical machinery, apparatus, and supplies.....	29.5	30.3	59.5	57.3
Engines, turbines, tractors, and water wheels.....	32.0	32.8	57.1	55.4
Foundry and machine-shop products.....	28.2	29.6	51.5	51.2
Machine tools.....	32.3	32.4	56.5	55.8
Radios and phonographs.....	32.5	39.9	42.8	38.7
Textile machinery and parts.....	29.6	28.3	57.4	57.2
Typewriters and supplies.....	32.1	33.1	47.1	45.8

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

Industry	Average hours per week		Average hourly earnings	
	January 1933	February 1933	January 1933	February 1933
Nonferrous metals and their parts:	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Brass, bronze, and copper products.....	29.8	30.0	46.7	46.5
Clocks and watches and time-recording devices.....	31.9	26.9	47.0	48.9
Jewelry.....	33.1	34.2	48.5	47.6
Silverware and plated ware.....	32.7	33.3	46.5	44.6
Smelting and refining—copper, lead, and zinc.....	31.1	31.6	47.9	48.6
Stamped and enameled ware.....	35.8	37.0	38.4	38.4
Transportation equipment:				
Aircraft.....	42.6	44.3	65.7	64.3
Automobiles.....	35.7	31.2	55.6	56.7
Locomotives.....	24.9	27.7	52.9	53.1
Shipbuilding.....	29.7	29.5	59.8	61.2
Railroad repair shops:				
Electric railroad.....	43.8	43.9	57.6	56.9
Steam railroad.....	34.5	35.8	63.0	62.4
Lumber and allied products:				
Furniture.....	31.5	34.3	34.9	33.2
Lumber:				
Millwork.....	35.5	35.8	34.3	32.8
Sawmills.....	32.4	33.4	30.6	29.1
Stone, clay, and glass products:				
Brick, tile, and terra cotta.....	29.0	27.5	36.3	36.6
Cement.....	30.7	32.5	44.4	42.6
Glass.....	34.7	34.4	43.8	44.9
Marble, granite, slate, and other products.....	32.2	28.5	54.9	59.1
Pottery.....	36.0	38.0	40.0	40.1
Leather and its manufactures: Leather.....	42.6	43.3	39.2	39.3
Paper and printing:				
Boxes, paper.....	37.3	39.9	42.7	41.5
Paper and pulp.....	38.9	40.2	42.8	42.4
Printing and publishing:				
Book and job.....	37.1	37.0	66.2	65.8
Newspapers and periodicals.....	40.9	40.6	75.9	74.7
Chemicals and allied products:				
Chemicals.....	40.2	41.9	52.0	51.7
Druggists' preparations.....	43.8	42.3	42.4	45.1
Explosives.....	35.3	36.0	54.3	54.1
Fertilizers.....	43.1	41.2	28.4	25.7
Paints and varnishes.....	38.0	40.2	52.5	51.1
Petroleum refining.....	39.7	38.3	63.0	62.8
Rayon and allied products.....	45.5	44.3	37.7	38.2
Soap.....	40.2	42.3	43.6	43.6
Rubber products:				
Rubber goods, other than boots, shoes, tires, and inner tubes.....	36.7	39.5	43.6	42.0
Rubber tires and inner tubes.....	28.9	28.6	58.5	58.1
Tobacco manufactures:				
Chewing and smoking tobacco and snuff.....	43.0	39.7	31.8	31.6
Cigars and cigarettes.....	35.2	36.2	29.9	29.8

Employment in Building Construction in February 1933

EMPLOYMENT in the building construction industry decreased 9.1 percent in February as compared with January and pay rolls decreased 16.5 percent over the month interval.

The percents of change of employment and pay-roll totals in February as compared with January are based on returns made by 9,775 firms employing in February 57,665 workers in the various trades in the building construction industry. These reports cover building operations in various localities in 34 States and the District of Columbia.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, JANUARY AND FEBRUARY 1933

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		Jan. 15	Feb. 15		Jan. 15	Feb. 15	
Alabama: Birmingham.....	67	439	340	-22.6	\$4,925	\$3,691	-25.1
California:							
Los Angeles ¹							
San Francisco-Oakland ¹							
Other reporting localities ¹							
Colorado: Denver.....	179	563	558	- .9	12,205	11,079	-9.2
Connecticut:							
Bridgeport.....	122	392	352	-10.2	8,297	7,045	-15.1
Hartford.....	197	745	684	-8.2	16,868	14,357	-14.9
New Haven.....	165	1,019	874	-14.2	26,917	21,485	-20.2
Delaware: Wilmington.....	116	951	849	-10.7	19,000	14,896	-21.6
District of Columbia.....	522	7,776	7,386	-5.0	211,308	175,582	-16.9
Florida:							
Jacksonville.....	46	290	406	+40.0	4,341	4,944	+13.9
Miami.....	73	504	489	-3.0	10,431	9,083	-12.9
Georgia: Atlanta.....	128	930	966	+3.9	14,501	12,709	-12.4
Illinois:							
Chicago ¹	131	1,079	1,035	-4.1	27,789	24,440	-12.1
Other reporting localities ¹	77	388	302	-22.2	7,235	5,067	-30.0
Indiana:							
Evansville.....	50	220	208	-5.5	3,754	3,650	-2.8
Fort Wayne.....	92	235	275	+17.0	3,656	4,388	+20.0
Indianapolis.....	154	760	629	-17.2	14,531	12,016	-17.3
South Bend.....	39	219	222	+1.4	3,685	4,477	+21.5
Iowa: Des Moines.....	103	583	464	-20.4	13,473	8,837	-34.4
Kansas: Wichita.....	57	354	307	-13.3	6,501	5,390	-18.0
Kentucky: Louisville.....	118	628	502	-20.1	10,128	7,212	-28.8
Louisiana: New Orleans.....	124	1,244	1,311	+5.4	19,379	20,794	+7.3
Maine: Portland.....	95	303	284	-6.3	6,066	5,474	-8.9
Maryland: Baltimore ¹	114	868	701	-19.2	14,422	11,070	-23.2
Massachusetts: All reporting localities ¹	725	3,510	3,160	-10.0	85,668	74,107	-13.5
Michigan:							
Detroit.....	378	1,979	1,747	-11.7	38,628	33,139	-14.2
Flint.....	46	112	144	+28.6	1,653	1,936	+17.1
Grand Rapids.....	95	378	289	-23.5	7,217	4,458	-38.2
Minnesota:							
Duluth.....	55	301	292	-3.0	6,579	6,198	-5.8
St. Louis.....	215	890	868	-2.5	17,239	17,298	+ .3
St. Paul.....	146	427	360	-15.7	7,488	6,292	-16.0
Missouri:							
Kansas City ²	234	1,081	930	-14.0	22,132	20,847	-5.8
St. Louis.....	436	2,214	1,755	-20.7	58,649	40,708	-30.6
Nebraska: Omaha.....	128	520	528	+1.5	8,016	8,817	+10.0
New York:							
New York City ¹	303	6,746	5,670	-16.0	241,847	181,059	-25.1
Other reporting localities ¹	166	2,997	2,981	-0.5	80,014	67,847	-15.2
North Carolina: Charlotte.....	38	191	192	+0.5	2,582	2,438	-5.6
Ohio:							
Akron.....	75	253	191	-24.5	3,496	2,899	-17.1
Cincinnati ³	465	2,521	2,224	-11.8	61,216	48,766	-20.3
Cleveland.....	476	1,909	1,736	-13.2	48,714	41,340	-15.1
Dayton.....	108	436	376	-13.8	7,744	6,134	-20.8
Youngstown.....	69	183	222	+21.3	3,082	3,627	+17.7
Oklahoma:							
Oklahoma City.....	73	285	282	-1.1	4,297	4,872	+13.4
Tulsa.....	49	223	224	+0.4	3,322	3,538	+6.5
Oregon: Portland.....	175	569	507	-10.9	11,041	9,135	-17.3
Pennsylvania: ⁴							
Erie area ¹	15	50	87	+74.0	1,006	1,210	+20.3
Philadelphia area ¹	393	2,532	2,418	-4.5	50,069	38,803	-22.5
Pittsburgh area ¹	224	1,153	1,051	-8.8	30,873	28,176	-8.7
Reading-Lebanon area ¹	42	189	156	-17.5	3,462	1,975	-43.0
Scranton area ¹	36	194	187	-3.6	3,949	4,145	+5.0
Other reporting areas ¹	247	1,590	1,438	-9.6	29,016	25,705	-11.4
Rhode Island: Providence.....	223	1,048	836	-20.2	22,027	16,527	-25.0
Tennessee:							
Chattanooga.....	36	330	220	-33.3	3,768	2,638	-30.0
Knoxville.....	48	360	261	-27.5	4,118	2,588	-37.2
Memphis.....	85	375	366	-2.4	6,839	6,171	-9.8
Nashville.....	64	524	451	-13.9	7,280	7,007	-3.7
Texas:							
Dallas.....	146	926	834	-9.9	14,097	13,845	-1.8
El Paso.....	24	238	247	+3.8	3,300	3,086	-6.5
Houston.....	142	647	495	-23.5	10,029	7,325	-27.0
San Antonio.....	97	477	496	+4.0	7,244	7,314	+1.0

¹ Data supplied by cooperating State bureaus.

² Includes both Kansas City, Mo., and Kansas City, Kans.

³ Includes Covington and Newport, Ky.

⁴ Each separate area includes from 2 to 8 counties.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE **BUILDING CONSTRUCTION** INDUSTRY IN IDENTICAL FIRMS, JANUARY AND FEBRUARY 1933—Con.

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Percent of change
		Jan. 15	Feb. 15		Jan. 15	Feb. 15	
Utah: Salt Lake City.....	79	211	166	-21.3	\$3,524	\$2,561	-27.3
Virginia:							
Norfolk-Portsmouth.....	84	415	440	+6.0	5,968	6,119	+2.5
Richmond.....	135	752	664	-11.7	13,530	11,035	-18.4
Washington:							
Seattle.....	147	512	480	-6.2	9,399	9,661	+2.8
Spokane.....	48	155	109	-29.7	2,019	1,269	-37.1
Tacoma.....	74	107	122	+14.0	1,771	1,732	-2.2
West Virginia: Wheeling.....	44	125	93	-25.6	2,012	1,593	-20.8
Wisconsin: All reporting localities ¹	60	792	639	-19.3	14,754	11,024	-25.3
Total, all localities.....	9,775	63,466	57,665	-9.1	1,459,349	1,218,780	-16.5

¹ Data supplied by cooperating State bureaus.

Trend of Employment in February 1933 by States

IN THE following table are shown the fluctuations in employment and pay-roll totals in February 1933 as compared with January 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, laundries, and dyeing and cleaning groups are 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 January and February 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 JANUARY AND FEBRUARY 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 estab- lish- ments	Number on pay roll, Feb- ruary 1933	Per- cent of change	Amount of pay roll (1 week), February 1933	Per- cent of change	Number of estab- lish- ments	Number on pay roll, Feb- ruary 1933	Per- cent of change	Amount of pay roll (1 week), February 1933	Per- cent of change
Alabama.....	434	49,186	+2.3	\$522,294	+4.2	204	34,013	+2.8	\$337,245	+3.4
Arizona.....	379	7,884	+1.8	161,400	+1.8	50	1,598	+2.8	33,591	+4.5
Arkansas.....	¹ 441	<i>14,811</i>	-9	<i>197,078</i>	-9	180	<i>9,181</i>	-9	<i>106,523</i>	-2.4
California.....	² 1,840	<i>223,753</i>	-1	<i>5,371,658</i>	+6	¹ 1,108	<i>109,567</i>	+1.0	<i>2,480,489</i>	+2.9
Colorado.....	748	26,048	+3	524,992	+1.5	121	9,330	+4.4	168,212	+7
Connecticut.....	1,032	127,881	+4	2,210,486	+2.4	639	109,770	+1.0	1,744,035	+3.0
Delaware.....	125	8,870	-1.7	176,975	-9	52	6,717	-2.2	129,600	-1.9
District of Colum- bia.....	³ 312	34,334	-1	726,443	-3.0	52	3,217	-2.7	94,898	-2.8
Florida.....	575	27,410	+9.2	395,398	+9.9	130	11,959	+15.3	159,954	+20.1
Georgia.....	622	69,112	-6	813,620	-1.0	299	56,962	-3	564,942	-3
Idaho.....	201	5,895	-20.6	102,033	-12.8	38	2,266	-35.2	32,165	-30.0
Illinois.....	³ 1,571	<i>265,222</i>	+1.3	<i>5,354,796</i>	+1.9	¹ 1,039	<i>160,451</i>	+2.7	<i>2,816,703</i>	+4.0
Indiana.....	1,139	103,732	+5	1,837,601	-1.1	548	76,965	+1.7	1,310,629	-1.2
Iowa.....	1,339	39,658	+1.0	741,385	-8	440	21,265	+2.6	376,821	-2
Kansas.....	⁴ 1,147	<i>57,890</i>	-1.7	<i>1,250,676</i>	-1.6	414	<i>22,236</i>	-9	<i>432,246</i>	-1.8
Kentucky.....	789	56,264	+1.5	816,624	+2.2	201	19,409	+5.3	287,841	+2.0
Louisiana.....	482	28,015	-1.2	405,474	-2.6	211	17,686	-1.5	226,457	-2.4
Maine.....	517	37,123	+3.7	597,138	+7.4	179	31,406	+4.2	473,464	+9.7
Maryland.....	⁵ 800	<i>70,462</i>	+1.1	<i>1,289,780</i>	+4	430	<i>48,894</i>	+3.2	<i>775,284</i>	+2.2
Massachusetts.....	⁶ 7,971	<i>329,407</i>	+2.5	<i>6,650,903</i>	+2.0	¹ 1,093	<i>187,910</i>	+3.8	<i>2,656,331</i>	+6.4
Michigan.....	1,379	244,759	-1.3	4,529,213	-8.5	337	<i>176,465</i>	-1.3	<i>2,877,957</i>	-18.7
Minnesota.....	974	54,972	-2.4	1,126,693	-3.3	268	27,058	-2.1	520,755	-2.1
Mississippi.....	361	7,780	-1.9	95,014	-2.1	63	4,329	+1.1	42,533	-7
Missouri.....	1,057	97,178	+3	1,930,952	+7	511	57,023	+1.7	1,020,687	+2.4
Montana.....	324	7,249	-14.4	174,137	-11.4	49	2,080	-30.7	41,098	-26.4
Nebraska.....	701	19,462	-1.1	419,134	-9	121	9,482	-1.6	202,798	+1.4
Nevada.....	136	1,191	+5.9	29,880	+5.5	20	205	+3.0	4,882	-1.6
New Hampshire.....	439	32,560	-1	516,077	+3.6	182	29,296	+1	436,883	+4.7
New Jersey.....	1,404	166,398	+7	3,525,886	+7	⁸ 689	<i>163,745</i>	+1.9	<i>3,141,391</i>	+2.6
New Mexico.....	169	4,030	-1.5	69,276	-2.1	25	406	-8.8	6,199	+3.5
New York.....	5,191	460,524	+1	10,355,156	-2	⁹ 1,663	<i>295,688</i>	+1.7	<i>6,194,662</i>	+1.7
North Carolina.....	862	104,240	-1.2	1,107,788	-1.1	529	99,836	-1.3	1,038,682	-1.4
North Dakota.....	311	3,167	-4.7	64,698	-7.9	61	930	-4.8	20,617	-7.8
Ohio.....	4,493	347,114	+2.7	6,226,111	+2.4	1,880	255,607	+4.0	4,416,333	+5.2
Oklahoma.....	677	24,345	-8	471,705	-2.6	117	8,096	-2	145,572	-6.3
Oregon.....	748	23,712	-1.0	435,086	-1.8	152	13,041	-9	201,195	-5
Pennsylvania.....	3,930	576,158	+1.9	10,380,429	+6.3	¹ 1,737	<i>306,979</i>	+1.3	<i>4,308,404</i>	+3.2
Rhode Island.....	863	51,901	-1	905,748	+1.0	267	41,723	+3	672,904	+2.0
South Carolina.....	300	48,797	-4	464,898	+2	168	45,420	-7	413,593	+1
South Dakota.....	228	5,076	-7.2	122,918	-2.1	47	1,881	-14.7	34,755	-15.1
Tennessee.....	818	55,538	-2.7	746,479	-3.2	258	40,755	-1.7	517,676	-9
Texas.....	777	<i>48,458</i>	-1.3	<i>968,209</i>	-9	358	<i>30,241</i>	-1	<i>677,543</i>	-7
Utah.....	315	12,666	-3.8	240,786	-9	74	4,260	-10.4	68,287	-22.5
Vermont.....	346	8,747	+7.6	155,194	+7.5	115	4,871	+11.4	79,370	+11.4
Virginia.....	1,242	77,298	-9	1,160,937	-2.7	429	54,894	-7	777,500	-2.6
Washington.....	1,107	41,975	-5.2	850,477	-3.7	255	19,888	-7.3	356,269	-5.0
West Virginia.....	786	83,124	+5	1,313,712	-8	179	29,576	+2.7	520,151	+1.3
Wisconsin.....	¹⁰ 1,082	<i>117,295</i>	+1.7	<i>1,842,297</i>	+8.0	798	<i>91,004</i>	+2.7	<i>1,319,602</i>	+5.5
Wyoming.....	194	5,988	-4.4	142,173	+4.9	30	1,294	-13.6	33,512	-3.8

¹ Includes automobile dealers and garages, and sand, gravel, and building construction.

² Includes banks, insurance, and office employment.

³ Includes building and contracting.

⁴ Includes transportation, financial institutions, restaurants, and building construction.

⁵ Weighted percent of change.

⁶ Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional and transportation services.

⁷ Less than one tenth of 1 per cent.

⁸ Includes laundries.

⁹ Includes laundering and cleaning.

¹⁰ Includes construction, but does not include hotels and restaurants.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JANUARY AND FEBRUARY 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, February 1933	Per-cent of change	Amount of pay roll (1 week), February 1933	Per-cent of change	Number of establishments	Number on pay roll, February 1933	Per-cent of change	Amount of pay roll (1 week), February 1933	Per-cent of change
Alabama.....	15	526	-0.6	\$13,204	-4.4	27	1,913	+7.9	\$27,605	-0.9
Arizona.....	20	169	-6	4,532	-5.8	186	1,427	-2.6	24,102	-3.4
Arkansas.....	15	383	-4.4	10,953	-5.7	132	1,512	+1.9	27,456	+5
California.....	100	5,352	-5	151,261	-2.5	112	22,683	-2.5	451,980	-6.1
Colorado.....	28	818	(11)	21,247	-8.7	273	3,393	-7.4	67,699	-12.6
Connecticut.....	57	1,214	-4	33,732	-1.4	112	4,417	-10.1	88,407	-7.3
Delaware.....	10	176	+6	4,781	-1.5	9	156	+4.7	2,159	-5
District of Columbia.....	26	317	-3	9,812	-3.2	401	9,685	-2.7	199,921	-4.5
Florida.....	50	812	(11)	18,716	-2.4	80	1,323	+8.9	24,952	+4.9
Georgia.....	32	396	-2.0	10,297	-3.5	28	1,800	-1	28,686	-6.0
Idaho.....	7	108	(11)	2,898	-6.7	68	639	-26.8	10,821	-12.4
Illinois.....	16	937	+2.1	21,441	+1.5	96	19,857	-8	390,130	-3.8
Indiana.....	53	1,016	-1.9	25,581	-5.4	164	5,232	-3.0	91,801	-4.6
Iowa.....	34	998	-8	24,584	-9.9	115	2,816	-5.1	46,282	-12.6
Kansas.....	69	1,729	-7	40,681	-3.0	309	5,565	-2.3	100,292	-3.4
Kentucky.....	15	276	+2.6	5,865	+5	28	1,278	-8.8	18,413	-16.0
Louisiana.....	26	560	-2.3	12,834	-7.6	47	2,800	-1.5	41,298	-1.8
Maine.....	17	407	-8.1	9,735	-6.8	69	988	-3	18,739	-5
Maryland.....	33	717	-3.0	14,843	-6.6	85	4,844	-4.0	81,806	-4.5
Massachusetts.....	691	15,741	-1.0	367,709	-1.8	4,132	56,406	-1.8	1,110,474	-2.9
Michigan.....	59	1,527	-1.0	41,109	-4.8	136	9,058	-5.6	168,422	-8.0
Minnesota.....	59	4,313	-1.1	110,465	-4.7	277	6,660	-9.6	117,211	-8.8
Mississippi.....	5	120	+8	2,157	-4.7	45	384	-1.9	3,540	-8.9
Missouri.....	57	4,963	-2.0	122,240	-6.2	103	5,106	-4.4	96,755	-8.6
Montana.....	11	213	+3.9	6,330	+8	82	736	-4.3	15,387	-9.8
Nebraska.....	36	831	(11)	21,355	-5.9	189	1,632	-3.8	31,083	-4.7
Nevada.....	7	76	-7.3	2,670	-2.0	39	225	-2.6	5,374	-4.7
New Hampshire.....	18	178	-4.3	4,807	-3	57	477	-3.4	9,841	-3.6
New Jersey.....	26	565	-1.2	16,946	-2.7	420	7,050	-2.2	154,896	-7
New Mexico.....	4	28	(11)	957	+7	50	245	+8	5,867	-5.0
New York.....	340	9,019	-9	267,670	-4.2	2,113	51,514	-7.6	1,121,527	-8.6
North Carolina.....	16	204	+5.7	4,229	-9	171	475	-6.7	9,550	-6.0
North Dakota.....	16	211	-1.9	5,585	-6.1	32	338	-14.9	5,463	-12.3
Ohio.....	223	4,753	-4.7	120,332	-7.6	1,463	27,904	-6	508,994	-3.9
Oklahoma.....	45	831	+2	21,351	-3.4	107	1,739	-9	26,803	-5.3
Oregon.....	53	1,082	-1.0	28,661	-6.4	265	2,012	-3.4	37,874	-7.4
Pennsylvania.....	126	3,393	-1.3	91,117	-4.2	312	22,988	-7.8	440,199	-9.0
Rhode Island.....	42	990	-7	24,004	-1.2	479	4,436	-3.3	91,235	-5.1
South Carolina.....	14	216	-4.8	4,461	-2.5	14	354	+3	3,625	-7
South Dakota.....	10	122	-8	3,442	-6.4	12	70	-17.4	1,173	-18.9
Tennessee.....	34	644	-1.5	13,610	-7.0	48	3,156	-6.0	50,743	-8.3
Texas.....	140	2,778	-3.8	73,262	-4.8	71	5,600	-5.6	100,989	-2.9
Utah.....	13	418	-1.2	10,286	-1.6	83	620	-15.6	11,785	-19.4
Vermont.....	5	105	-3.7	2,539	-5.4	41	378	-5	6,623	-7.3
Virginia.....	41	874	-8	19,999	-3.9	477	4,225	-4.3	75,377	-6.1
Washington.....	80	1,973	-2.8	51,446	-7.4	422	5,491	-4.6	106,966	-5.6
West Virginia.....	34	627	+1.8	16,062	-1.6	47	824	-2.4	13,187	-8.1
Wisconsin.....	48	1,918	+4.5	45,001	+8.4	56	7,530	-7.0	114,239	-6.4
Wyoming.....	8	57	+1.8	1,594	-5.9	48	225	-11.1	5,721	-15.6

¹¹ No change.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JANUARY AND FEBRUARY 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, February 1933	Per-cent of change	Amount of pay roll (1 week), February 1933	Per-cent of change	Number of establishments	Number on pay roll, February 1933	Per-cent of change	Amount of pay roll (1 week), February 1933	Per-cent of change
Alabama.....	9	530	+4.3	\$4,920	-4.7	9	697	+15.0	\$5,135	-14.3
Arizona.....						20	2,265	+2.6	51,311	+2.9
Arkansas.....	6	178	+12.7	1,380	-1.2					
California.....	29	847	-5.0	16,009	-3.3	31	2,224	-5.0	50,294	-7.4
Colorado.....	3	6	-33.3	33	-69.4	15	578	+5.5	13,827	+8.7
Connecticut.....	11	80	+5.3	1,166	-15.2					
Delaware.....										
District of Columbia.....										
Florida.....	8	503	+8	5,481	-12.0					
Georgia.....	19	755	-7.5	6,834	-13.0					
Idaho.....						9	1,937	-1.1	38,582	+6
Illinois.....	24	273	-2.5	5,133	-3.1					
Indiana.....	35	618	+7	8,096	+4.1					
Iowa.....	13	165	+17.0	1,766	-2.3					
Kansas.....	18	738	-1.6	16,852	+4.1	12	527	-7.4	8,701	-11.6
Kentucky.....	26	570	-22.1	3,478	-40.5					
Louisiana.....	4	513	+5.8	4,796	-7					
Maine.....	7	22	-4.3	743	-7.7					
Maryland.....	14	279	-19.8	3,384	-9.8					
Massachusetts.....	15	148	-16.9	2,494	-9.9					
Michigan.....	20	303	-2.3	4,053	-15.5	42	4,772	-6.0	50,403	+2
Minnesota.....	4	69	+245.0	1,019	+123.0	21	713	-2.6	8,890	+5.7
Mississippi.....	3	46	-27.0	505	-38.6					
Missouri.....	19	225	-4.7	3,016	-3.4	13	1,010	-1.4	19,678	-3
Montana.....	5	14	+600.0	75	+275.0	16	1,023	-15.9	27,599	-18.5
Nebraska.....	3	31	-8.8	164	-27.1					
Nevada.....						15	122	+31.2	3,431	+47.8
New Hampshire.....	8	92	-29.2	2,332	-29.5					
New Jersey.....	3	36	+50.0	614	+31.5	3	10	(1)	167	-8.7
New Mexico.....						5	792	(1)	14,471	-7.6
New York.....	42	778	+1.4	14,343	-2.1	2	107	-9.3	1,072	-6.5
North Carolina.....	5	100	-2.9	743	-12.0					
North Dakota.....										
Ohio.....	66	1,402	-2.6	19,457	-7.8					
Oklahoma.....	4	53	-10.2	589	-21.4	32	1,234	-12.3	16,531	-11.2
Oregon.....										
Pennsylvania.....	54	1,737	+9.9	15,080	+14.5					
Rhode Island.....										
South Carolina.....	6	82	+22.4	524	+19.9					
South Dakota.....	5	18	-56.1	229	-53.2					
Tennessee.....	19	1,046	-5	11,714	-19.2	4	188	-5.1	2,351	-9.2
Texas.....	22	401	-21.8	8,215	-15.7					
Utah.....						10	1,092	-2	36,912	+2.6
Vermont.....	36	1,908	+9.1	37,500	+11.1					
Virginia.....	16	793	+6	6,595	+8.5					
Washington.....	6	104	-16.1	1,838	-13.0					
West Virginia.....	7	229	+16.2	1,913	+4.4					
Wisconsin.....	14	77	-11.5	878	-23.1					
Wyoming.....										

¹¹ No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS
IN JANUARY AND FEBRUARY 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, February 1933	Per cent of change	Amount of pay roll (1 week), February 1933	Per cent of change	Number of establishments	Number on pay roll, February 1933	Per cent of change	Amount of pay roll (1 week), February 1933	Per cent of change
Alabama.....	45	7,879	+0.5	\$81,894	+19.4					
Arizona.....										
Arkansas.....	7	321	-35.0	6,178	-18.2	10	376	+1.9	\$8,856	-7.1
California.....						45	7,078	(?)	210,186	-3.6
Colorado.....	40	4,588	-7	91,783	+25.5					
Connecticut.....										
Delaware.....										
District of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	29	5,838	-2	133,456	+9.8	9	175	+2.3	3,438	+1
Indiana.....	44	5,207	+1.2	121,125	+11.1	4	25	+4.2	470	+7.3
Iowa.....	19	2,079	+3	47,967	+22.7					
Kansas.....	23	1,805	+2	27,089	+19.0	30	1,141	-6.5	25,349	-2.2
Kentucky.....	155	24,731	-6	306,048	+5.3	5	234	+18.2	3,594	-1.0
Louisiana.....						8	161	-9.0	4,079	-20.2
Maine.....										
Maryland.....	14	1,433	-1.6	12,562	-5.5					
Massachusetts.....										
Michigan.....	3	840	-3.8	20,229	-4.6					
Minnesota.....										
Mississippi.....										
Missouri.....	17	1,243	+1.0	25,000	+9.4					
Montana.....	11	688	-7.8	21,677	+9	4	33	+17.9	1,028	+45.8
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	11	1,566	-1.1	25,361	-4	4	31	+3.3	834	+20.9
New York.....						4	152	-1.9	3,933	+3.7
North Carolina.....										
North Dakota.....										
Ohio.....	60	10,171	+7	146,237	+4.8	5	40	+2.6	985	+88.0
Oklahoma.....	14	603	+11.9	9,502	+19.4	52	4,122	-1.1	101,651	+1.6
Oregon.....										
Pennsylvania.....	363	48,971	-1.4	546,457	-3.8	17	384	-3.3	9,558	-1.8
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	16	2,467	(?)	25,339	-1.2					
Texas.....						42	9,446	+1.0	293,043	+15.0
Utah.....	16	2,204	+3.1	55,887	-6.4					
Vermont.....										
Virginia.....	31	8,076	-1.5	111,954	-4.0					
Washington.....	10	1,389	+1.2	32,563	+13.9					
West Virginia.....	319	43,922	-8	588,744	-1.3	8	305	-9.5	7,255	-7.9
Wisconsin.....										
Wyoming.....	32	3,567	-9	82,879	+13.0	7	139	-2.8	3,589	-21.4

¹ Less than one tenth of 1 percent.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JANUARY AND FEBRUARY 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, February 1933	Per cent of change	Amount of pay roll (1 week), February 1933	Per cent of change	Number of establishments	Number on pay roll, February 1933	Per cent of change	Amount of pay roll (1 week), February 1933	Per cent of change
Alabama.....	88	1,572	-6.7	\$32,239	-4.6	24	1,149	+2.8	\$9,727	+1.8
Arizona.....	67	1,195	-1.8	30,650	+7	23	788	+13.2	10,773	+9.4
Arkansas.....	<i>52</i>	<i>1,339</i>	<i>+11.5</i>	<i>31,546</i>	<i>+9.0</i>	<i>15</i>	<i>799</i>	<i>+9</i>	<i>7,651</i>	<i>+2.5</i>
California.....	<i>49</i>	<i>46,283</i>	<i>-6</i>	<i>1,255,599</i>	<i>+1.4</i>	<i>200</i>	<i>9,594</i>	<i>+4.8</i>	<i>150,497</i>	<i>-4</i>
Colorado.....	196	5,249	-9	132,013	-1.3	40	1,296	-3	17,593	-2
Connecticut.....	145	9,785	-4	305,185	+3.6	30	1,104	-1	13,631	-2.9
Delaware.....	28	1,081	-2	30,843	+3.9	6	249	(¹¹)	2,890	-2.2
District of Columbia.....	22	8,138	-1.9	233,589	-2.5	52	3,329	+1.0	52,709	+5.0
Florida.....	186	4,214	-2	109,948	+1.2	89	3,742	+21.0	41,091	+13.4
Georgia.....	186	6,610	-2.0	180,531	-1.3	34	1,735	+1.3	15,084	-2.1
Idaho.....	56	620	-5.8	13,094	+3.0	22	295	-3	3,815	-1.2
Illinois.....	<i>69</i>	<i>67,023</i>	<i>+9</i>	<i>1,815,069</i>	<i>+7</i>	<i>12 41</i>	<i>7,601</i>	<i>-2.2</i>	<i>120,955</i>	<i>+1.4</i>
Indiana.....	142	9,559	+1.5	221,463	-4.4	80	2,756	-1.0	29,154	-1.2
Iowa.....	432	9,659	+7	216,558	-2.1	72	2,206	-4.8	20,417	-9
Kansas.....	<i>27</i>	<i>6,718</i>	<i>-1.2</i>	<i>154,408</i>	<i>-4</i>	<i>82</i>	<i>768</i>	<i>+1.7</i>	<i>7,917</i>	<i>+3.8</i>
Kentucky.....	296	7,075	+4.2	160,508	+2.1	36	1,477	-3.5	15,486	-3.4
Louisiana.....	154	4,207	-3.0	94,136	-3.5	22	1,847	+2.3	20,180	+3.4
Maine.....	170	2,739	-2.1	74,321	-3	21	691	-2.8	8,746	-2.9
Maryland.....	<i>92</i>	<i>12,266</i>	<i>-7</i>	<i>344,794</i>	<i>-2.2</i>	<i>24</i>	<i>1,171</i>	<i>-4</i>	<i>14,813</i>	<i>-1.0</i>
Massachusetts.....	<i>11 136</i>	<i>45,468</i>	<i>+5</i>	<i>1,287,215</i>	<i>+2.8</i>	<i>83</i>	<i>3,394</i>	<i>-3</i>	<i>49,122</i>	<i>-1.7</i>
Michigan.....	412	21,821	-7	613,518	-8	92	4,291	-1.7	51,516	-4.5
Minnesota.....	230	12,019	-7	315,725	-3.1	71	2,875	+1.6	34,921	+1.0
Mississippi.....	213	1,901	-9.5	37,674	-2.8	19	499	-4.2	4,234	-3.6
Missouri.....	215	21,038	-3	558,970	-1.0	89	4,474	-4.0	54,479	-1.0
Montana.....	101	1,766	-1.5	50,468	+5	27	348	-2.8	4,574	-2.3
Nebraska.....	302	5,543	-1.2	141,484	-3.0	38	1,436	+1.8	15,819	+3.9
Nevada.....	39	379	+17.3	10,298	+13.1	11	126	-9.4	2,078	-12.6
New Hampshire.....	143	2,042	-6	55,917	-4	12	168	+5.0	1,930	+9.9
New Jersey.....	276	21,954	-1.2	644,892	-1.2	74	4,153	-7	52,270	+1.6
New Mexico.....	50	477	-2	10,133	-2.7	14	262	(¹¹)	2,723	+7
New York.....	882	103,489	-2	3,135,782	-2	265	30,043	-8	476,527	-1.0
North Carolina.....	96	1,766	-1.0	37,095	+7.1	35	1,230	+2.5	11,226	+1.0
North Dakota.....	170	1,160	-2.6	26,702	-7.7	22	327	-3.0	3,290	-2.9
Ohio.....	481	32,068	-4	812,300	-5.0	147	8,460	-1.9	106,647	(⁷)
Oklahoma.....	246	5,901	-1.0	130,457	-1.5	49	1,069	+6.3	10,872	+4.0
Oregon.....	183	5,603	-1.2	142,363	-7	57	1,086	-3.7	13,674	-8.2
Pennsylvania.....	640	78,932	-5	2,161,421	+1.1	166	9,079	+8	113,852	+1
Rhode Island.....	43	3,352	-4	95,824	+1.9	11	220	-9	2,719	+2
South Carolina.....	71	1,636	+3.3	34,851	+2	13	461	+8.7	3,855	+10.6
South Dakota.....	129	904	-3.0	23,653	-2.8	16	275	+1.5	3,109	+3
Tennessee.....	384	4,595	-10.1	100,932	-9.4	32	1,755	-2.2	15,687	-1.9
Texas.....	<i>185</i>	<i>6,180</i>	<i>-5</i>	<i>168,542</i>	<i>+3</i>	<i>51</i>	<i>3,308</i>	<i>-3</i>	<i>39,658</i>	<i>-2.0</i>
Utah.....	68	1,780	+4.3	37,789	+7.0	11	415	-2.1	5,333	-2.8
Vermont.....	120	992	-3.1	24,026	-1.5	21	404	+1.3	4,179	+9
Virginia.....	179	5,677	+3	139,082	-7	32	1,567	+9	16,993	-1.4
Washington.....	201	9,586	-1.7	254,195	-1.5	73	2,102	-1	23,722	-1.9
West Virginia.....	123	5,604	-1.6	144,030	-3.5	40	1,144	+8.7	11,665	+2.1
Wisconsin.....	<i>14 42</i>	<i>10,539</i>	<i>-4</i>	<i>284,841</i>	<i>+9</i>	<i>12 44</i>	<i>1,137</i>	<i>-1.8</i>	<i>(15)</i>	<i>-</i>
Wyoming.....	48	406	-2.2	9,734	+3.8	14	183	(¹¹)	2,853	+10.0

¹ Less than one tenth of 1 per cent.

¹¹ No change.

¹² Includes restaurants.

¹³ Includes steam railroads.

¹⁴ Includes railways and express.

¹⁵ Data not supplied.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN JANUARY AND FEBRUARY 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, February 1933	Per cent of change	Amount of pay roll (1 week), February 1933	Per cent of change	Number of establishments	Number on pay roll, February 1933	Per cent of change	Amount of pay roll (1 week), February 1933	Per cent of change
Alabama.....	5	454	-0.7	\$3,566	-7	4	140	-6.7	\$1,328	-8.2
Arizona.....	10	402	+2	5,603	-1.9					
Arkansas.....	18	417	-4.5	4,046	-4.4	3	36	(11)	337	-12.5
California.....	¹⁶ 75	5,372	-2.3	93,507	-6.0					
Colorado.....	7	432	-1.4	6,023	-3	9	117	+2.6	1,960	-2.0
Connecticut.....	26	1,303	-1.2	20,403	-1.3	11	197	-8.4	3,741	-14.1
Delaware.....	4	303	-1.6	4,403	-3.2	4	39	-4.9	552	-10.4
District of Columbia.....										
Florida.....	19	2,377	+8	35,617	-2.7	5	99	-2.9	1,862	-4.4
Georgia.....	8	424	+8.2	4,821	+18.7					
Idaho.....	12	629	-1.1	5,288	-6.3	3	69	-2.8	766	-8.4
Illinois.....	¹⁶ 24	1,391	-2.0	18,197	-2.7					
Indiana.....	16	1,012	-3.3	12,911	-2.2	8	137	-7	1,896	-4.8
Iowa.....										
Kansas.....	¹⁶ 40	997	-2.6	12,086	-3					
Kentucky.....	15	671	+1	8,289	-2.8	5	215	-2.7	2,876	-9.6
Louisiana.....										
Maine.....	17	337	-6	4,391	-3.5					
Maryland.....	24	1,740	-1.5	26,214	-5.0	9	398	-5	4,551	-5.3
Massachusetts.....	108	3,649	+1.0	56,650	-2.1	75	1,583	-3.8	23,188	-8.7
Michigan.....	22	1,546	-8	18,363	-3.1	12	422	+2	6,108	-6.4
Minnesota.....	14	731	-4.2	10,962	-8.2	7	191	-2.6	2,754	-6.5
Mississippi.....	6	302	(11)	2,635	+4					
Missouri.....	20	1,491	-1.7	20,088	-5.5	9	300	-3.8	4,603	-8.1
Montana.....	13	314	+6	5,243	-7.3	3	18	-14.3	362	-12.3
Nebraska.....	5	372	+9.4	4,837	+6.4	3	24	-7.7	391	+20.3
Nevada.....	4	51	(11)	989	-2.8					
New Hampshire.....	17	286	-1.0	4,045	-5.0					
New Jersey.....	25	2,569	-8	48,177	-5.0	8	217	-6.5	5,260	-4.8
New Mexico.....	5	217	-2.3	3,096	-1.2					
New York.....	70	6,762	-2.2	111,044	-4.6	14	302	-7.1	5,289	-18.5
North Carolina.....	9	604	-1.0	6,113	-3.0					
North Dakota.....	9	185	-2.6	2,794	-11.5					
Ohio.....	74	3,999	-1.4	56,708	-5.2	38	1,379	-1.7	20,476	-9.3
Oklahoma.....	7	616	+1.3	7,537	+3.2	3	69	-1.4	685	-6.2
Oregon.....	4	303	-1.3	4,284	-5.7	4	48	+2.1	823	-4.6
Pennsylvania.....	41	2,993	-1.5	43,029	-4.1	18	920	-1.5	13,577	-11.6
Rhode Island.....	15	985	+9	15,741	-4.2	4	187	-3.1	3,128	-3.3
South Carolina.....	6	225	-1.3	2,101	-3.0					
South Dakota.....	7	129	-8	1,646	-6					
Tennessee.....	12	811	-1.3	6,620	-6.2	3	26	-7.1	305	+7
Texas.....	20	1,008	+1.9	10,672	-6	12	284	+3.3	4,203	-9
Utah.....	7	505	-1.2	6,941	-3.2	7	114	-9	1,770	-7.2
Vermont.....	5	57	-12.3	604	-11.3					
Virginia.....	14	869	-6	9,604	-1.1	17	190	-5.0	2,527	-11.3
Washington.....	12	535	-1.3	9,700	-2.4	12	142	-4.1	2,144	-3.9
West Virginia.....	20	689	+1	8,260	-21.3	9	204	-1.4	2,445	-11.7
Wisconsin.....	¹⁶ 28	918	-3.2	11,270	-7.3					
Wyoming.....	3	67	(11)	1,169	+2.2					

¹¹ No change.

¹⁶ Includes dyeing and cleaning.

Employment and Pay Rolls in February 1933 in Cities of Over 500,000 Population

IN THE following table are presented the fluctuations in employment and pay-roll totals in February 1933 as compared with January 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 ROLLS IN FEBRUARY 1933 AS COMPARED WITH JANUARY 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
		January 1933	February 1933		January 1933	February 1933	
New York City.....	3,320	298,501	299,229	+0.2	\$7,992,773	\$7,956,161	-0.5
Chicago, Ill.....	1,814	188,163	188,177	+ ⁽¹⁾	4,406,150	4,416,153	+0.2
Philadelphia, Pa.....	770	132,542	130,619	-1.5	2,907,087	2,903,059	-0.1
Detroit, Mich.....	685	162,537	159,256	-2.0	3,262,699	2,868,238	-12.1
Los Angeles, Calif.....	698	57,333	57,195	-0.2	1,348,903	1,318,129	-2.3
Cleveland, Ohio.....	1,067	80,687	83,198	+3.1	1,665,183	1,684,687	+1.2
St. Louis, Mo.....	473	63,957	63,882	-0.1	1,295,627	1,308,451	+1.0
Baltimore, Md.....	550	43,931	44,952	+2.3	858,951	865,228	+0.7
Boston, Mass.....	2,949	80,722	80,550	-0.2	1,899,338	1,901,670	+0.1
Pittsburgh, Pa.....	372	51,516	51,259	-0.5	1,040,795	1,029,325	-1.1
San Francisco, Calif.....	1,137	42,247	42,678	+1.0	1,033,412	1,024,780	-0.8
Buffalo, N.Y.....	312	34,385	34,334	-0.1	749,020	726,443	-3.0
Milwaukee, Wis.....	456	34,645	34,232	-1.2	659,457	654,758	-0.7

¹ Less than one tenth of 1 percent.

Employment in the Executive Civil Service of the United States, February 1933

THE number of employees in the executive civil service of the United States was 9,277 less in February 1933 than in February 1932. Comparing February 1933 with January 1933 there was an increase of 326.

These figures do not include the legislative, judicial, or Army and Navy services. The data as shown in the table below were compiled by the various Federal departments and offices and sent to the United States Civil Service Commission where they are assembled. They are tabulated by the United States Bureau of Labor Statistics, and published here by courtesy of the Civil Service Commission and in compliance with the direction of Congress. No information has as yet been collected relative to the amounts of pay rolls. Because of the importance of Washington as a Government center, the figures for the District of Columbia, and for the Government service outside of the District of Columbia, are shown separately.

Approximately 12 percent of the total number of Federal employees are employed in the District of Columbia. The number of employees in the District of Columbia showed a decrease of 3.5 percent in February 1933 as compared with February 1932. The number of permanent employees in the District of Columbia decreased 3 percent, and the number of temporary employees decreased 12.3 percent comparing February 1933 with the same month of 1932.

EMPLOYEES IN THE EXECUTIVE CIVIL SERVICE OF THE UNITED STATES FEBRUARY 1932 AND JANUARY AND FEBRUARY 1933¹

Item	District of Columbia			Outside the District			Entire service		
	Perma- nent	Tempo- rary ²	Total	Perma- nent	Tempo- rary ²	Total	Perma- nent	Tempo- rary ²	Total
Number of employees:									
February 1932.....	65,927	3,265	69,192	478,784	24,788	503,572	544,711	28,053	572,764
January 1933.....	64,086	2,714	66,800	469,080	27,281	496,361	533,166	29,995	563,161
February 1933.....	63,940	2,862	66,802	468,943	27,742	496,685	532,883	30,604	563,487
Gain or loss:									
February 1932-February 1933.....	-1,987	-403	-2,390	-9,841	+2,954	-6,887	-11,828	+2,551	-9,277
January 1933-February 1933.....	-146	+148	+2	-137	+461	+324	-283	+609	+326
Percent of change:									
February 1932-February 1933.....	-3.0	-12.3	-3.5	-2.1	+11.9	-1.4	-2.2	+9.1	-1.6
January 1933-February 1933.....	-0.2	+5.5	+ (°)	- (°)	+1.7	+0.1	-0.1	+2.0	-0.1
Labor turnover, February 1933:									
Additions.....	125	211	336	1,685	8,707	10,392	1,810	8,918	10,728
Separations.....	271	63	338	1,822	8,246	10,068	2,093	8,309	10,402
Turnover rate per 100.....	0.20	2.26	0.50	0.36	30.00	2.03	0.34	27.42	1.85

¹ Certain revisions have been made from time to time by the Civil Service Commission in dropping certain classes of employees, previously carried in the tabulations. Thus, in the District of Columbia, 68 mail contractors and special-delivery messengers were eliminated in May 1932, and in the service outside the District of Columbia, 35,800 star route and other contractors, clerks in charge of mail contract stations, clerks in third-class post offices and special-delivery messengers were eliminated in April 1932 and 835 collaborators of the Department of Agriculture in June 1932. In the table in order to make the figures comparable for the months shown, it was assumed that the number of these employees was the same in 1932 as in the month they were dropped (actual figures not being available from the Civil Service Commission) and the data for this month has been revised accordingly in this table.

² Not including the field service of the post office.

³ Less than one tenth of 1 percent.

Employment on Class I Steam Railroads in the United States

DATA are not yet available concerning railroad employment for February 1933. Reports of the Interstate Commerce Commission for class I railroads show that the number of employees (exclusive of executive and officials) decreased from 980,501 on December 15, 1932, to 947,327 on January 15, 1933, or 3.4 percent; the amount of pay roll decreased from \$114,284,718 in December 1932 to \$110,229,285 in January, or 3.5 percent.

The monthly trend of employment from January 1923 to January 1932 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 JANUARY 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	73.7	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	-----
March.....	100.5	97.4	95.2	96.7	95.8	89.9	90.1	85.5	72.9	60.5	-----
April.....	102.0	98.9	96.6	98.9	97.4	91.7	92.2	87.0	73.5	60.0	-----
May.....	105.0	99.2	97.8	100.2	99.4	94.5	94.9	88.6	73.9	59.7	-----
June.....	107.1	98.0	98.6	101.6	100.9	95.9	96.1	86.5	72.8	57.8	-----
July.....	108.2	98.1	99.4	102.9	101.0	95.6	96.6	84.7	72.4	56.4	-----
August.....	109.4	99.0	99.7	102.7	99.5	95.7	97.4	83.7	71.2	55.0	-----
September.....	107.8	99.7	99.9	102.8	99.1	95.3	96.8	82.2	69.3	55.8	-----
October.....	107.3	100.8	100.7	103.4	98.9	95.3	96.9	80.4	67.7	57.0	-----
November.....	105.2	99.0	99.1	101.2	95.7	92.9	93.0	77.0	64.5	55.9	-----
December.....	99.4	96.0	97.1	98.2	91.9	89.7	88.8	74.9	62.6	54.8	-----
Average.....	104.1	98.3	97.9	100.0	97.5	92.9	93.3	83.5	70.6	57.9	-----

Wage-Rate Changes in American Industries

Manufacturing Industries

IN THE following table is presented information concerning wage-rate adjustments occurring between January 15, 1933, and February 15, 1933, as shown by reports received from manufacturing establishments supplying employment data to this Bureau. Of the 17,773 manufacturing establishments included in the February survey, 17,218 establishments, or 96.9 percent of the total, reported no change in wage rates over the month interval. The 2,529,943 employees not affected by changes in wage rates constituted 97.5 percent of the total number of employees covered by the February trend-of-employment survey of manufacturing industries.

Decreases in wage rates were reported by 552 establishments in 71 of the 89 industries surveyed. These establishments represented 3.1 percent of the total number of establishments covered. The wage-rate decreases reported averaged 11.5 percent and affected 62,178 employees, or 2.4 percent of all employees in the establishments reporting.

Three establishments in three industries reported wage-rate increases in February, averaging 17.9 percent, and affecting 1,551 employees.

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

Industry	Estab- lish- ments report- ing	Total number of em- ployees	Number of establish- ments reporting—			Number of employees having—		
			No wage changes	Wage in- creases	Wage de- creases	No wage changes	Wage in- creases	Wage de- creases
All manufacturing industries.....	17, 773	2, 593, 672	17, 218	3	552	2, 529, 943	1, 551	62, 178
Percent of total.....	100.0	100.0	96.9	(1)	3.1	97.5	0.1	2.4
Food and kindred products:								
Baking.....	955	60, 216	932	23	58, 626	1, 590		
Beverages.....	317	9, 210	311	6	8, 751	459		
Butter.....	289	4, 867	281	8	4, 349	518		
Confectionery.....	315	33, 712	304	11	31, 354	2, 358		
Flour.....	424	15, 650	400	24	14, 766	884		
Ice cream.....	381	10, 636	375	6	10, 400	236		
Slaughtering and meat pack- ing.....	241	86, 641	230	11	85, 124	1, 517		
Sugar, beet.....	59	4, 348	59		4, 348			
Sugar refining, cane.....	15	7, 891	15		7, 891			
Textiles and their products:								
Fabrics:								
Carpets and rugs.....	32	12, 973	32		12, 973			
Cotton goods.....	673	230, 848	659	14	226, 307	4, 541		
Cotton small wares.....	113	9, 394	110	3	9, 101	293		
Dyeing and finishing textiles.....	150	34, 315	146	4	34, 147	168		
Knit goods.....	448	100, 650	432	16	95, 933	4, 717		
Silk and rayon goods.....	242	45, 021	236	1	42, 586	2, 410		
Woolen and worsted goods.....	239	58, 953	224	15	55, 389	3, 564		
Wearing apparel:								
Clothing, men's.....	368	61, 908	365	3	61, 825	83		
Clothing, women's.....	440	27, 481	436	4	27, 101	380		
Corsets and allied gar- ments.....	33	5, 837	32	1	5, 574	263		
Hats, fur-felt.....	35	5, 387	35		5, 387			
Men's furnishings.....	68	7, 288	64	4	7, 175	113		
Millinery.....	121	9, 403	119	2	9, 350	53		
Shirts and collars.....	116	14, 837	114	2	14, 709	128		
Iron and steel and their products, not including machinery:								
Bolts, nuts, washers, and rivets.....	67	7, 494	64	3	7, 216	278		
Cast-iron pipe.....	39	4, 463	39		4, 463			
Cutlery (not including silver and plated cutlery) and edge tools.....	121	7, 873	119	2	7, 664	209		
Forgings, iron and steel.....	60	4, 904	57	3	4, 559	345		
Hardware.....	100	20, 411	95	5	19, 787	624		
Iron and steel.....	199	177, 531	194	5	175, 778	1, 753		
Plumbers' supplies.....	68	5, 910	65	3	5, 778	132		
Steam and hot-water heat- ing apparatus and steam fittings.....	97	13, 441	94	3	13, 315	126		
Stoves.....	154	13, 533	145	1	12, 759	760		
Structural and ornamental metal work.....	194	13, 032	189	5	12, 954	78		
Tin cans and other tinware.....	60	8, 215	59	1	8, 179	36		
Tools (not including edge tools, machine tools, files, and saws).....	125	6, 539	118	7	5, 797	742		
Wirework.....	64	4, 843	62	2	4, 815	28		
Machinery, not including trans- portation equipment:								
Agricultural implements.....	79	7, 583	77	2	7, 573	10		
Cash registers, adding ma- chines, and calculating ma- chines.....	40	12, 733	39	1	11, 975	758		
Electrical machinery, appa- ratus, and supplies.....	293	99, 211	280	13	97, 585	1, 626		
Engines, turbines, tractors, and water wheels.....	90	14, 930	84	6	14, 746	184		
Foundry and machine-shop products.....	1, 060	94, 453	1, 009	51	90, 893	3, 560		
Machine tools.....	145	10, 410	143	2	10, 402	8		
Radios and phonographs.....	39	15, 488	39		15, 488			
Textile machinery and parts.....	43	6, 697	42	1	6, 690	7		
Typewriters and supplies.....	16	8, 288	16		8, 288			

Less than one tenth of 1 percent.

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

Industry	Establishments reporting	Total number of employees	Number of establishments reporting—			Number of employees having—		
			No wage changes	Wage increases	Wage decreases	No wage changes	Wage increases	Wage decreases
Nonferrous metals and their parts:								
Aluminum manufactures.....	24	4, 881	23	-----	1	4, 703	-----	178
Brass, bronze, and copper products.....	200	25, 357	198	-----	2	25, 309	-----	48
Clocks and watches and time-recording devices.....	23	4, 477	23	-----	-----	4, 477	-----	-----
Jewelry.....	139	6, 841	135	-----	4	6, 696	-----	145
Lighting equipment.....	54	2, 688	53	-----	1	2, 681	-----	7
Silverware and plated ware.....	53	7, 290	52	-----	1	7, 161	-----	129
Smelting and refining—copper, lead, and zinc.....	30	8, 015	28	-----	2	7, 613	-----	402
Stamped and enameled ware.....	84	12, 333	77	-----	7	11, 321	-----	1, 012
Transportation equipment:								
Aircraft.....	29	5, 884	29	-----	-----	5, 884	-----	-----
Automobiles.....	242	192, 021	234	1	7	189, 687	1, 512	822
Cars, electric and steam railroad.....	41	4, 745	41	-----	-----	4, 745	-----	-----
Locomotives.....	14	2, 098	14	-----	-----	2, 098	-----	-----
Shipbuilding.....	98	23, 195	97	-----	1	22, 789	-----	406
Railroad repair shops:								
Electric railroad.....	405	20, 728	400	-----	5	20, 103	-----	625
Steam railroad.....	509	69, 737	494	-----	15	67, 053	-----	2, 684
Lumber and allied products:								
Furniture.....	442	39, 770	416	-----	26	37, 593	-----	2, 177
Lumber:								
Millwork.....	458	16, 672	435	-----	23	15, 604	-----	1, 068
Sawmills.....	593	50, 138	575	-----	18	46, 722	-----	3, 416
Turpentine and rosin.....	21	957	21	-----	-----	957	-----	-----
Stone, clay, and glass products:								
Brick, tile, and terra cotta.....	665	13, 192	656	-----	9	12, 640	-----	552
Cement.....	114	9, 633	107	-----	7	8, 826	-----	807
Glass.....	188	32, 980	181	-----	7	32, 660	-----	320
Marble, granite, slate, and other products.....	217	4, 357	210	-----	7	4, 053	-----	304
Pottery.....	121	14, 355	117	-----	4	14, 013	-----	342
Leather and its manufactures:								
Boots and shoes.....	322	108, 806	317	-----	5	107, 955	-----	851
Leather.....	157	25, 050	153	-----	4	24, 129	-----	921
Paper and printing:								
Boxes, paper.....	305	19, 576	294	-----	11	19, 076	-----	500
Paper and pulp.....	402	76, 195	379	-----	23	73, 041	-----	3, 154
Printing and publishing:								
Book and job.....	743	47, 367	725	-----	18	46, 022	-----	1, 345
Newspapers and periodicals.....	448	63, 407	428	-----	20	62, 159	-----	1, 248
Chemicals and allied products:								
Chemicals.....	117	20, 837	112	-----	5	20, 663	-----	174
Cottonseed, oil, cake, and meal.....	54	2, 494	54	-----	-----	2, 494	-----	-----
Druggists' preparations.....	39	6, 534	39	-----	-----	6, 534	-----	-----
Explosives.....	25	3, 054	25	-----	-----	3, 054	-----	-----
Fertilizers.....	206	7, 991	202	-----	4	7, 822	-----	169
Paints and varnishes.....	344	13, 324	332	-----	12	12, 921	-----	403
Petroleum refining.....	113	45, 523	112	-----	1	44, 693	-----	830
Rayon and allied products.....	23	29, 173	23	-----	-----	29, 173	-----	-----
Soap.....	87	14, 279	83	-----	4	13, 810	-----	469
Rubber products:								
Rubber boots and shoes.....	9	9, 388	9	-----	-----	9, 388	-----	-----
Rubber goods, other than boots, shoes, tires, and inner tubes.....	97	18, 313	94	-----	3	18, 088	-----	225
Rubber tires and inner tubes.....	45	42, 899	43	-----	2	42, 543	-----	356
Tobacco manufactures:								
Chewing and smoking tobacco and snuff.....	34	10, 323	34	-----	-----	10, 323	-----	-----
Cigars and cigarettes.....	212	41, 347	204	-----	8	40, 797	-----	550

Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between January 15, 1933, and February 15, 1933, in 14 groups of nonmanufacturing industries are presented in the following table.

No changes in wage rates were reported in the anthracite mining group. In the remaining 13 groups decreases in wage rates were reported over the month interval. The average percents of decrease in rates reported in each of the several groups were as follows: Hotels, 5.8 percent; power and light, 7.3 percent; electric railroad and motor-bus operation, 7.7 percent; metalliferous mining, 8 percent; quarrying and nonmetallic mining, 8.1 percent; canning and preserving, 8.8 percent; laundries, 9.9 percent; telephone and telegraph, 10 percent; dyeing and cleaning, 10.7 percent; wholesale trade, 11.7 percent; retail trade, 11.9 percent; bituminous-coal mining, 13.2 percent and crude-petroleum producing, 17.5 percent.

TABLE 2.—WAGE CHANGES IN **NONMANUFACTURING** INDUSTRIES DURING MONTH ENDING FEBRUARY 15, 1933

Industrial group	Estab- lish- ments report- ing	Total number of em- ployees	Number of establish- ments reporting—			Number of employees having—		
			No wage changes	Wage in- creases	Wage de- creases	No wage changes	Wage in- creases	Wage de- creases
Anthracite mining.....	160	80,390	160	-----	-----	80,390	-----	-----
Percent of total.....	100.0	100.0	100.0	-----	-----	100.0	-----	-----
Bituminous-coal mining.....	1,283	179,810	1,201	82	-----	164,662	-----	13,148
Percent of total.....	100.0	100.0	93.6	6.4	-----	91.6	-----	8.4
Metalliferous mining.....	267	21,229	265	2	-----	21,144	-----	85
Percent of total.....	100.0	100.0	99.3	.7	-----	99.6	-----	.4
Quarrying and nonmetallic mining.....	605	16,138	594	11	-----	15,350	-----	788
Percent of total.....	100.0	100.0	98.2	1.8	-----	95.1	-----	4.9
Crude petroleum producing.....	255	23,858	249	6	-----	23,781	-----	77
Percent of total.....	100.0	100.0	97.6	2.4	-----	99.7	-----	.3
Telephone and telegraph.....	8,325	282,201	8,287	38	-----	281,418	-----	783
Percent of total.....	100.0	100.0	99.5	.5	-----	99.7	-----	.3
Power and light.....	3,342	204,929	3,312	30	-----	201,628	-----	3,301
Percent of total.....	100.0	100.0	99.1	.9	-----	98.4	-----	1.6
Electric-railroad and motor-bus operation and maintenance.....	548	133,915	539	9	-----	130,085	-----	3,830
Percent of total.....	100.0	100.0	98.4	1.6	-----	97.1	-----	2.9
Wholesale trade.....	2,779	73,580	2,715	64	-----	72,351	-----	1,229
Percent of total.....	100.0	100.0	97.7	2.3	-----	98.3	-----	1.7
Retail trade.....	14,863	316,377	13,715	1,148	-----	310,429	-----	5,948
Percent of total.....	100.0	100.0	92.3	7.7	-----	98.1	-----	1.9
Hotels.....	2,544	131,683	2,528	16	-----	130,117	-----	1,566
Percent of total.....	100.0	100.0	99.4	.6	-----	98.8	-----	1.2
Canning and preserving.....	843	32,262	835	8	-----	32,118	-----	144
Percent of total.....	100.0	100.0	99.1	.9	-----	99.6	-----	.4
Laundries.....	926	53,318	897	29	-----	51,313	-----	2,005
Percent of total.....	100.0	100.0	96.9	3.1	-----	96.2	-----	3.8
Dyeing and cleaning.....	318	9,045	304	14	-----	8,298	-----	747
Percent of total.....	100.0	100.0	95.6	4.4	-----	91.7	-----	8.3