

# UNITED STATES DEPARTMENT OF LABOR

W. N. DOAK, Secretary

## BUREAU OF LABOR STATISTICS

CHARLES E. BALDWIN, Acting Commissioner

# TREND OF EMPLOYMENT

JANUARY, 1933



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UNITED STATES  
GOVERNMENT PRINTING OFFICE  
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# TREND OF EMPLOYMENT

## Summary for January, 1933

**E**MPLOYMENT decreased 3.9 per cent in January, 1933, as compared with December, 1932, and pay-roll totals decreased 5 per cent. These figures are based on the pay rolls ending nearest the 15th of the month.

The industrial groups surveyed, the number of establishments reporting in each group, the number of employees covered, and the pay rolls for one week, for both December, 1932, and January, 1933, together with the per cents of change in January are shown in the following tabulation:

SUMMARY OF EMPLOYMENT AND PAY ROLLS, DECEMBER, 1932, AND JANUARY, 1933

Industrial groups	Estab- lish- ments	Employment		Per cent of change	Amount of pay roll (1 week)		Per cent of change
		December, 1932	January, 1933		December, 1932	January, 1933	
<b>Manufacturing</b> .....	17,762	2,626,492	2,557,837	1-2.9	\$44,755,487	\$42,657,894	<sup>1</sup> -5.0
<b>Coal mining</b> .....	1,398	258,766	244,832	-5.4	4,689,542	4,069,795	-13.2
Anthracite.....	160	85,284	71,822	-18.8	2,235,194	1,719,317	-23.1
Bituminous.....	1,238	173,482	173,010	-.3	2,454,348	2,350,478	-4.2
<b>Metalliferous mining</b> .....	279	22,928	22,364	-2.5	420,339	407,320	-3.1
<b>Quarrying and nonmetallic mining</b> .....	592	18,569	15,419	-17.0	263,049	216,072	-17.9
<b>Crude petroleum producing</b> .....	262	23,369	22,359	-( <sup>2</sup> )	657,650	630,031	-4.2
<b>Public utilities</b> .....	12,287	609,812	605,430	-.7	16,836,097	16,598,973	-1.4
Telephone and telegraph.....	8,274	266,950	266,129	-.3	7,016,009	6,847,078	-2.4
Power and light.....	3,508	210,045	208,066	-.9	6,142,081	6,131,669	-.2
Electric-railroad and motor- bus operation and main- tenance.....	505	132,817	131,235	-1.2	3,678,007	3,620,226	-1.6
<b>Trade</b> .....	19,145	482,782	401,909	-16.8	9,703,704	8,523,540	-12.2
Wholesale.....	2,734	71,176	69,612	-2.2	1,916,619	1,889,697	-1.4
Retail.....	16,411	411,606	332,297	-19.3	7,787,085	6,633,843	-14.8
<b>Hotels</b> .....	2,402	129,972	130,945	+7.7	<sup>3</sup> 1,773,671	<sup>3</sup> 1,744,665	-1.6
<b>Canning and preserving</b> .....	829	29,910	30,251	+1.1	377,504	364,717	-3.4
<b>Laundries</b> .....	908	53,215	52,918	-.6	817,186	806,259	-1.3
<b>Dyeing and cleaning</b> .....	374	10,842	10,525	-2.9	179,016	172,454	-3.7
<b>Building construction</b> .....	10,144	67,117	63,673	-5.1	1,529,675	1,466,498	-4.1
<b>Banks, brokerage, insur-   ance and real estate</b> .....	3,010	116,550	116,098	-.4	4,039,283	4,049,001	+2.4
<b>Total</b> .....	69,392	4,450,314	4,275,560	-3.9	86,042,303	81,707,219	-5.0

<sup>1</sup> Weighted per cent of change for the combined 89 manufacturing industries, wherein the proper allowance is made for the relative importance of the several industries so that the figures represent all establishments of the country in the 89 industries surveyed; the remaining per cents of change, including total, are unweighted.

<sup>2</sup> Less than one-tenth of 1 per cent.

<sup>3</sup> The amount of pay roll given represents cash payments only; the additional value of board, room, and tips can not be computed.

Data are not yet available concerning railroad employment for January, 1933. (See section "Class I steam railroads" for latest figures reported.)

Per capita weekly earnings in January, 1933, for each of the 17 industrial groups included in the bureau's monthly trend-of-employment survey, together with the per cents of change in January, 1933, as compared with December, 1932, and January, 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).

PER CAPITA WEEKLY EARNINGS IN 17 INDUSTRIAL GROUPS IN JANUARY, 1933, AND COMPARISON WITH DECEMBER, 1932, AND JANUARY, 1932

Industrial group	Per capita weekly earnings in January, 1933	Per cent of change January, 1933, compared with—	
		December, 1932	January, 1932
Manufacturing.....	\$16.68	-2.2	-15.6
Coal mining:			
Anthracite.....	23.94	-8.7	2.0
Bituminous.....	13.59	-4.0	-11.2
Metalliferous mining.....	18.21	-7	-7.1
Quarrying and nonmetallic mining.....	14.01	-1.1	-16.5
Crude petroleum producing.....	26.97	-4.2	-17.6
Public utilities:			
Telephone and telegraph.....	25.73	-2.1	-10.4
Power and light.....	29.47	+8	-5.1
Electric-railroad and motor bus operation and maintenance.....	27.59	-4	-9.0
Trade:			
Wholesale.....	27.15	+8	-9.6
Retail.....	19.96	+5.4	-11.9
Hotels (cash payments only) <sup>1</sup> .....	13.32	-2.4	-15.0
Canning and preserving.....	12.06	-4.4	-20.0
Laundries.....	15.24	-8	-14.9
Dyeing and cleaning.....	16.39	-7	-20.3
Building construction.....	23.03	+1.1	( <sup>2</sup> )
Banks, brokerage, insurance, and real estate.....	34.88	+6	( <sup>2</sup> )
Total.....	18.60	-1.4	-13.0

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

<sup>2</sup> Data not available.

<sup>3</sup> Not including building construction or banks, etc.

### Employment in Selected Manufacturing Industries in January, 1933

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

**E**MPLOYMENT in manufacturing industries decreased 2.9 per cent in January, 1933, as compared with December, 1932, and pay-roll totals decreased 5 per cent over the month interval. Comparing January, 1933, with January, 1932, decreases of 12.7 per cent in employment and 26.3 per cent in pay rolls are shown over the 12-month period.

The per cents of change in employment and pay-roll totals in January, 1933, as compared with December, 1932, are based on returns made by 17,762 establishments in 89 of the principal manufacturing industries in the United States, having in January 2,557,837 employees, whose combined earnings in one week were \$42,657,894.

The index of employment in January, 1933, was 56.6, as compared with 58.3 in December, 1932, 59.4 in November, 1932, and 64.8 in

January, 1932; the pay-roll index in January, 1933, was 35.8 as compared with 37.7 in December, 1932, 38.6 in November, 1932, and 48.6 in January, 1932. The 12-month average for 1926 equals 100.

In Table 1, which follows, are shown the number of identical establishments reporting in both December, 1932, and January, 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 January 15, the amount of their weekly earnings in January, the per cents of change over the month and year intervals, and the indexes of employment and pay roll in January, 1933.

The monthly per cents 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 per cents 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 per cents 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 JANUARY, 1933, WITH DECEMBER, 1932, AND JANUARY, 1932

Industry	Establishments reporting in both December, 1932, and January, 1933	Employment			Pay-roll totals			Index numbers, January, 1933, (average 1926=100)	
		Number on pay roll January, 1933	Per cent of change		Amount of pay roll (1 week) January, 1933	Per cent of change		Employment	Pay-roll totals
			December, 1932, to January, 1933	January, 1932, to January, 1933		December, 1932, to January, 1933	January, 1932, to January, 1933		
<b>Food and kindred products.</b>	<b>2,989</b>	<b>235,954</b>	<b>-5.4</b>	<b>-5.8</b>	<b>4,791,710</b>	<b>-4.3</b>	<b>-17.4</b>	<b>78.7</b>	<b>62.1</b>
Baking.....	962	61,981	-2.0	-8.3	1,365,629	-1.9	-18.5	77.3	63.4
Beverages.....	321	8,756	-5	-13.4	211,314	-2.5	-19.6	63.5	49.4
Butter.....	294	4,994	-5.6	-3.2	108,552	-3.5	-14.1	88.6	71.0
Confectionery.....	320	34,270	-11.7	-8.8	464,300	-15.3	-18.4	76.3	54.0
Flour.....	427	15,952	-7	-3.4	341,179	-3	-9.6	82.2	66.5
Ice cream.....	360	10,240	-9	-10.1	263,531	+2	-25.0	61.3	47.1
Slaughtering and meat packing.....	234	82,979	-2.0	-7.7	1,713,525	-1.5	-19.2	84.5	67.1
Sugar, beef.....	57	9,622	-43.1	+124.3	158,965	-40.4	+57.3	114.4	66.7
Sugar refining, cane.....	14	7,160	-3.9	-9.3	164,715	-8.2	-17.6	71.8	56.2
<b>Textiles and their products.</b>	<b>3,041</b>	<b>601,601</b>	<b>-2.4</b>	<b>-3.6</b>	<b>7,312,013</b>	<b>-5.8</b>	<b>-21.9</b>	<b>69.6</b>	<b>42.2</b>
Fabrics:									
Carpets and rugs.....	31	13,300	-2.3	-18.6	183,672	-12.9	-39.3	51.2	27.0
Cotton goods.....	669	229,251	-5	+2.6	2,316,371	-3.1	-12.5	74.8	48.4
Cotton small wares.....	111	8,843	-3.6	-10.4	123,971	-7.0	-29.3	76.0	50.8
Dyeing and finishing textiles.....	146	33,598	-9	-6.9	581,207	-1.5	-25.0	77.3	52.5
Knit goods.....	436	98,137	-6.9	-1.0	1,152,606	-18.4	-18.2	79.3	48.4
Silk and rayon goods.....	241	44,445	+1	-14.1	528,244	-7.0	-32.3	59.7	35.8
Woolen and worsted goods.....	250	56,054	-1	+6.1	870,786	-3.4	-12.3	71.4	49.9
Wearing apparel:									
Clothing, men's.....	359	53,676	-4.4	-6.8	675,502	+2.0	-27.9	62.1	31.3
Clothing, women's.....	420	24,479	-4	-11.0	387,026	-3.3	-30.5	63.6	34.8
Corsets and allied garments.....	31	5,447	-1.8	-4.7	73,551	-10.5	-20.3	96.6	68.6
Hats, fur-felt.....	34	4,841	-5	-6.1	86,220	-6.5	-8.3	64.9	38.8
Men's furnishings.....	68	6,927	-11.2	-1.1	67,581	-21.2	-31.4	61.7	32.1
Millinery.....	134	9,041	+8.4	-15.7	139,522	+12.6	-34.6	64.9	39.8
Shirts and collars.....	111	13,562	-16.6	-11.0	125,754	-27.1	-24.5	53.4	30.2

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN JANUARY, 1933, WITH DECEMBER, 1932, AND JANUARY, 1932—Continued

Industry	Estab- lish- ments report- ing in both De- cem- ber, 1932, and Janu- ary, 1933	Employment			Pay-roll totals			Index num- bers, Janu- ary, 1933, (average 1926=100)	
		Number on pay roll January, 1933	Per cent of change		Amount of pay roll (1 week) January, 1933	Per cent of change		Em- ploy- ment	Pay- roll totals
			De- cem- ber, 1932, to Janu- ary, 1933	Janu- ary, 1932, to Janu- ary, 1933		De- cem- ber, 1932, to Janu- ary, 1933	Janu- ary, 1932, to Janu- ary, 1933		
<b>Iron and steel and their products, not including machinery</b>	<b>1,355</b>	<b>271,558</b>	<b>-4.7</b>	<b>-21.1</b>	<b>3,651,193</b>	<b>-6.6</b>	<b>-37.2</b>	<b>49.0</b>	<b>22.6</b>
Bolts, nuts, washers, and rivets	65	7,174	-2.6	-16.2	103,464	-8.4	-35.2	59.9	30.9
Cast-iron pipe	37	5,049	-6.7	-40.7	60,499	-11.5	-57.0	27.0	13.1
Cutlery (not including silver and plated cutlery), and edge tools	124	7,785	-5.8	-18.2	127,488	-10.3	-32.5	57.8	35.3
Forgings, iron and steel	60	4,938	-8	-21.3	76,137	-2.6	-35.4	52.9	27.0
Hardware	102	20,125	-3.1	-18.5	249,756	-10.3	-40.7	48.3	22.4
Iron and steel	208	166,759	-3.0	-19.0	2,119,812	-2.1	-35.0	50.6	21.4
Plumbers' supplies	64	4,793	-4.3	-37.5	50,566	-8.4	-55.4	44.1	19.3
Steam and hot water heating apparatus and steam fittings	93	11,938	-8.0	-29.0	188,270	-12.1	-37.9	31.3	16.7
Stoves	163	12,387	-23.8	-14.9	182,274	-28.2	-29.9	37.8	18.5
Structural and ornamental metalwork	188	12,266	-4.7	-35.2	173,579	-15.1	-54.1	38.1	18.5
Tin cans and other tinware	60	8,026	-4.8	-9.0	151,659	-6.4	-17.1	67.7	39.8
Tools (not including edge tools, machine tools, files, and saws)	126	5,829	-2.8	-23.4	91,836	-5.0	-33.5	59.4	33.0
Wirework	65	4,549	-2.9	-15.8	66,853	-4.1	-34.4	84.7	50.6
<b>Machinery, not including transportation equipment</b>	<b>1,787</b>	<b>266,262</b>	<b>-4.4</b>	<b>-27.4</b>	<b>4,715,482</b>	<b>-7.4</b>	<b>-41.0</b>	<b>43.4</b>	<b>25.0</b>
Agricultural implements	77	6,844	+5.4	-29.4	103,970	+5.5	-31.5	27.4	18.9
Cash registers, adding machines, and calculating machines	39	12,434	-1.4	-19.9	278,967	-5.9	-28.0	62.2	42.9
Electrical machinery, apparatus, and supplies	299	99,239	-4.4	-35.5	1,933,712	-6.4	-47.3	46.4	30.5
Engines, turbines, tractors, and water wheels	87	14,686	-5	-9.7	285,042	-2.7	-20.8	39.9	24.3
Foundry and machine shop products	1,041	91,691	-5.6	-24.4	1,395,002	-10.3	-39.4	41.6	20.9
Machine tools	145	10,949	+1.3	-33.7	207,566	+3.9	-43.7	31.7	19.6
Radio and phonographs	40	14,951	-17.8	-25.7	264,887	-17.7	-42.6	57.9	41.9
Textile machinery and parts	43	6,625	+6	-19.9	114,111	-2.2	-40.6	54.5	33.8
Typewriters and supplies	16	8,843	+10.7	-22.5	132,225	+1.9	-29.4	57.4	32.7
<b>Nonferrous metals and their products</b>	<b>622</b>	<b>74,551</b>	<b>-5.6</b>	<b>-17.6</b>	<b>1,187,873</b>	<b>-11.0</b>	<b>-32.7</b>	<b>50.1</b>	<b>29.9</b>
Aluminum manufactures	24	4,738	-1.5	-14.3	74,608	-3.5	-27.6	46.8	28.0
Brass, bronze, and copper products	206	26,820	-4.7	-20.2	429,395	-8.3	-37.7	48.6	27.1
Clocks and watches and time-recording devices	24	5,436	-9.8	-30.2	69,965	-18.9	-39.2	39.1	23.0
Jewelry	145	6,717	-11.9	-20.9	116,477	-22.0	-37.2	33.0	20.9
Lighting equipment	54	4,588	-6.8	-19.2	90,277	-8.7	-28.2	62.6	42.5
Silverware and platedware	53	6,847	-11.5	-14.3	110,204	-20.8	-31.8	55.1	30.0
Smelting and refining, copper, lead, and zinc	29	7,753	-1	-15.3	127,915	-2.4	-27.1	58.7	36.8
Stamped and enameled ware	87	11,652	-8.2	-13.0	169,032	-11.0	-29.2	54.8	30.8
<b>Transportation equipment</b>	<b>416</b>	<b>236,239</b>	<b>+8.3</b>	<b>-21.1</b>	<b>4,804,779</b>	<b>+8.6</b>	<b>-26.3</b>	<b>49.5</b>	<b>34.1</b>
Aircraft	26	5,417	-2.6	-19.9	158,805	-6.4	-22.4	182.7	181.1
Automobiles	246	199,317	+11.7	-20.5	4,015,198	+13.8	-23.9	51.6	35.3
Cars, electric and steam railroad	41	4,971	-9.8	+2.9	85,219	-14.0	-2.9	18.0	10.0
Locomotives	10	1,905	-8.7	-38.9	37,262	-12.9	-52.3	12.7	8.3
Shipbuilding	93	24,629	-2.7	-27.9	508,295	-11.1	-42.5	65.0	45.8

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN JANUARY, 1933, WITH DECEMBER, 1932, AND JANUARY, 1932—Continued.

Industry	Estab-lishments report- ing in both De- cember, 1932, and Janu- ary, 1933	Employment			Pay-roll totals			Index num- bers, Janu- ary, 1933, (average 1926=100)	
		Number on pay roll January, 1933	Per cent of change		Amount of pay roll (1 week) January, 1933	Per cent of change		Em- ploy- ment	Pay- roll totals
			De- cember, 1932, to Janu- ary, 1933	Janu- ary, 1933, to Janu- ary, 1933		De- cember, 1932, to Janu- ary, 1933	Janu- ary, 1933, to Janu- ary, 1933		
<b>Railroad repair shops</b> .....	924	97,555	-2.8	-6.6	2,171,192	-8.2	-19.4	48.1	35.8
Electric railroad.....	397	20,677	-4	-10.5	524,295	-3.0	-21.5	65.6	52.9
Steam railroad.....	527	76,878	-3.2	-6.2	1,646,897	-8.7	-19.0	46.7	34.5
<b>Lumber and allied products</b> .....	1,506	106,135	-7.4	-19.7	1,211,903	-13.3	-38.0	33.9	16.3
Furniture.....	436	38,401	-8.0	-20.8	455,160	-17.0	-40.7	42.2	19.8
Lumber, millwork.....	458	15,099	-7.8	-29.8	205,093	-11.4	-46.2	30.4	16.2
Lumber, sawmills.....	593	51,772	-7.0	-17.1	538,153	-11.4	-33.6	31.0	14.0
Turpentine and rosin.....	19	863	-5.0	-8.8	13,497	-1.6	-8.0	43.5	36.8
<b>Stone, clay, and glass prod- ucts</b> .....	1,281	69,268	-13.0	-24.8	1,065,136	-15.9	-37.2	35.4	20.1
Brick, tile, and terra cotta.....	653	12,735	-19.6	-38.1	138,837	-22.4	-51.6	19.2	7.7
Cement.....	115	9,808	-9.0	-32.1	146,929	-12.8	-48.6	30.0	15.0
Glass.....	190	30,934	-7.3	-11.6	541,379	-4.6	-19.9	53.1	36.6
Marble, granite, slate, and other products.....	208	3,648	-22.2	-35.8	74,323	-25.4	-46.7	33.6	20.9
Pottery.....	115	12,143	-12.1	-16.3	163,668	-23.9	-36.7	54.8	28.1
<b>Leather and its manufac- tures</b> .....	486	125,038	+4.6	-3.2	1,731,351	+3.9	-17.9	72.5	42.3
Boots and shoes.....	320	100,871	+5.9	-3.8	1,308,156	+7.6	-20.4	73.1	40.1
Leather.....	160	24,167	-9	-3	423,195	-5.7	-9.6	70.1	50.1
<b>Paper and printing</b> .....	1,925	211,059	-1.6	-9.6	5,114,716	-4.0	-21.5	78.2	62.3
Boxes, paper.....	302	18,373	-6.4	-9.8	304,598	-11.4	-21.6	67.3	51.4
Paper and pulp.....	404	76,073	-1.1	-6.7	1,262,446	-3.7	-22.3	72.2	45.0
Printing and publishing—									
Book and job.....	752	47,612	-1.4	-16.5	1,280,032	-2.9	-27.6	71.7	57.6
Newspapers and peri- odicals.....	467	69,001	-9	-5.5	2,287,641	-3.8	-16.1	97.1	82.6
<b>Chemicals and allied prod- ucts</b> .....	1,039	145,950	-5	-6.2	3,195,769	-3	-15.1	75.2	59.5
Chemicals.....	121	20,702	+1.0	-5.0	478,299	+1.0	-15.0	85.4	60.4
Cottonseed, oil, cake, and meal.....	53	1,969	-28.4	-19.6	22,711	-25.2	-32.4	36.6	33.1
Druggists' preparations.....	39	6,849	+3.6	-8.4	134,109	+2.3	-12.4	73.9	72.5
Explosives.....	25	3,043	-4.3	-12.6	54,464	-9.9	-16.8	75.9	46.6
Fertilizers.....	205	7,048	+14.7	-2.5	85,992	+6.7	-20.0	49.9	32.5
Paints and varnishes.....	357	13,394	-3.3	-13.4	273,544	-6.9	-27.4	63.6	45.9
Petroleum refining.....	130	51,262	-7	-7.6	1,385,383	+2.8	-14.7	62.1	53.3
Rayon and allied products.....	23	29,197	+1.6	-4	491,386	+8	-3.9	148.3	123.5
Soap.....	86	12,486	-3	-1.8	269,881	-2.8	-12.4	94.2	77.0
<b>Rubber products</b> .....	157	70,693	-3.6	-10.6	1,190,557	-9.9	-28.8	62.2	36.6
Rubber boots and shoes.....	9	9,806	-12.8	-21.6	155,274	-27.5	-21.5	51.4	35.5
Rubber goods, other than boots, shoes, tires, and inner tubes.....	103	19,120	-2.4	-1.6	325,070	-8.0	-16.2	81.6	51.8
Rubber tires and inner tubes.....	45	41,767	-1.6	-12.1	710,207	-5.4	-36.0	57.4	31.5
<b>Tobacco manufactures</b> .....	240	45,974	-11.9	-12.4	514,220	-23.6	-27.6	62.4	40.9
Chewing and smoking to- bacco and snuff.....	33	10,070	+3.6	-2.2	136,717	+6.9	-11.2	90.0	74.2
Cigars and cigarettes.....	207	35,904	-14.4	-14.0	377,503	-28.4	-30.6	58.9	36.9
<b>Total, 89 industries</b> .....	17,762	2,557,837	-2.9	-12.7	42,657,894	-5.0	-26.3	56.6	35.8

## Per Capita Earnings in Manufacturing Industries

PER CAPITA weekly earnings in January, 1933, for each of the 89 manufacturing industries surveyed by the Bureau of Labor Statistics, together with the per cents of change in January, 1933, as compared with December, 1932, and January, 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 JANUARY, 1933, AND COMPARISON WITH DECEMBER, 1932, AND JANUARY, 1932

Industry	Per capita weekly earnings in January, 1933	Per cent of change compared with—	
		December, 1932	January, 1932
<b>Food and kindred products:</b>			
Baking.....	\$22.03	+ (1)	-11.3
Beverages.....	24.13	-2.0	-7.9
Butter.....	21.74	+2.3	-10.9
Confectionery.....	13.55	-4.2	-19.3
Flour.....	21.39	+4	-6.3
Ice cream.....	25.74	+1.2	-16.5
Slaughtering and meat packing.....	20.65	+5	-12.4
Sugar, beet.....	16.52	+4.8	-29.8
Sugar refining, cane.....	23.00	-4.5	-9.1
<b>Textiles and their products:</b>			
Fabrics—			
Carpets and rugs.....	13.81	-10.8	-26.0
Cotton goods.....	10.10	-2.7	-14.6
Cotton small wares.....	14.02	-3.5	-20.9
Dyeing and finishing textiles.....	17.30	-6	-19.4
Knit goods.....	11.74	-12.4	-17.4
Silk and rayon goods.....	11.89	-7.0	-20.9
Woolen and worsted goods.....	15.53	-3.3	-17.2
Wearing apparel—			
Clothing, men's.....	12.58	+6.7	-22.8
Clothing, women's.....	15.81	-2.9	-22.0
Corsets and allied garments.....	13.50	-8.8	-16.2
Hats, fur-felt.....	17.81	-6.0	-2.7
Men's furnishings.....	9.76	-11.3	-30.9
Millinery.....	15.43	+4.1	-22.4
Shirts and collars.....	9.27	-12.6	-14.9
<b>Iron and steel and their products, not including machinery:</b>			
Bolts, nuts, washers, and rivets.....	14.42	-6.0	-22.9
Cast-iron pipe.....	11.98	-5.1	-27.8
Cutlery (not including silver and plated cutlery) and edge tools.....	16.38	-4.8	-17.6
Forgings, iron and steel.....	15.42	-1.8	-17.9
Hardware.....	12.41	-7.4	-26.9
Iron and steel.....	12.71	+9	-20.0
Plumbers' supplies.....	12.43	-4.2	-28.6
Steam and hot-water heating apparatus and steam fittings.....	15.77	-4.4	-12.5
Stoves.....	14.71	-5.8	-17.5
Structural and ornamental metal work.....	14.22	-10.9	-29.0
Tin cans and other tinware.....	18.00	-1.7	-8.9
Tools (not including edge tools, machine tools, files, and saws).....	15.76	-2.2	-13.2
Wirework.....	14.70	-1.2	-22.1
<b>Machinery, not including transportation equipment:</b>			
Agricultural implements.....	15.19	+1	-2.9
Cash registers, adding machines, and calculating machines.....	22.44	-4.6	-10.4
Electrical machinery, apparatus, and supplies.....	19.49	-2.1	-18.1
Engines, turbines, tractors, and water wheels.....	19.41	-2.2	-12.3
Foundry and machine shop products.....	15.21	-5.1	-20.1
Machine tools.....	18.96	+2.5	-15.2
Radios and phonographs.....	17.72	+1	-22.6
Textile machinery and parts.....	17.22	-2.7	-25.8
Typewriters and supplies.....	14.95	-7.9	-8.8
<b>Nonferrous metals and their parts:</b>			
Aluminum manufactures.....	15.75	-2.1	-15.6
Brass, bronze, and copper products.....	16.01	-3.8	-21.8
Clocks and watches and time-recording devices.....	12.87	-10.1	-13.0
Jewelry.....	17.34	-11.4	-20.5
Lighting equipment.....	19.68	-2.1	-10.8
Silverware and plated ware.....	16.10	-10.5	-20.4
Smelting and refining, copper, lead, and zinc.....	16.50	-2.3	-14.1
Stamped and enameled ware.....	14.61	-3.0	-18.7

**TABLE 2—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN JANUARY, 1933, AND COMPARISON WITH DECEMBER, 1932, AND JANUARY 1932—Continued**

Industry	Per capita weekly earnings in January, 1933	Per cent of change compared with—	
		December, 1932	January, 1932
<b>Transportation equipment:</b>			
Aircraft.....	\$29.32	-3.9	-3.1
Automobiles.....	20.14	+1.9	-4.1
Cars, electric and steam railroad.....	17.14	-4.8	-6.5
Locomotives.....	19.56	-4.6	-21.9
Shipbuilding.....	20.64	-8.6	-20.3
<b>Railroad repair shops:</b>			
Electric railroad.....	25.36	-2.6	-12.5
Steam railroad.....	21.42	-5.6	-13.5
<b>Lumber and allied products:</b>			
Furniture.....	11.85	-9.9	-25.2
Lumber—			
Millwork.....	13.58	-3.9	-23.0
Sawmills.....	10.39	-4.8	-20.3
Turpentine and rosin.....	15.64	+3.5	+1.0
<b>Stone, clay, and glass products:</b>			
Brick, tile, and terra cotta.....	10.90	-3.5	-21.3
Cement.....	14.98	-4.2	-24.0
Glass.....	17.50	+2.9	-9.8
Marble, granite, slate, and other products.....	20.37	-4.1	-17.3
Pottery.....	13.48	-13.4	-24.1
<b>Leather and its manufactures:</b>			
Boots and shoes.....	12.97	+1.6	-17.3
Leather.....	17.51	-4.8	-9.4
<b>Paper and printing:</b>			
Boxes, paper.....	16.58	-5.4	-13.1
Paper and pulp.....	16.60	-2.6	-16.9
Printing and publishing—			
Book and job.....	26.46	-1.6	-13.5
Newspapers and periodicals.....	33.15	-3.0	-11.3
<b>Chemicals and allied products:</b>			
Chemicals.....	23.10	+ <sup>(1)</sup>	-10.5
Cottonseed, oil, cake, and meal.....	11.53	+4.4	-16.3
Druggists' preparations.....	19.58	-1.2	-4.7
Explosives.....	17.90	-5.9	-4.8
Fertilizers.....	12.20	-6.9	-17.6
Paints and varnishes.....	20.42	-3.7	-16.4
Petroleum refining.....	27.03	+3.5	-7.9
Rayon and allied products.....	16.83	-2.8	-3.8
Soap.....	21.61	-2.5	-11.0
<b>Rubber products:</b>			
Rubber boots and shoes.....	15.83	-16.9	+1.2
Rubber goods, other than boots, shoes, tires, and inner tubes.....	17.00	-5.7	-14.8
Rubber tires and inner tubes.....	17.00	-3.9	-27.3
<b>Tobacco manufactures:</b>			
Chewing and smoking tobacco and snuff.....	13.58	+3.2	-9.3
Cigars and cigarettes.....	10.51	-16.3	-19.3

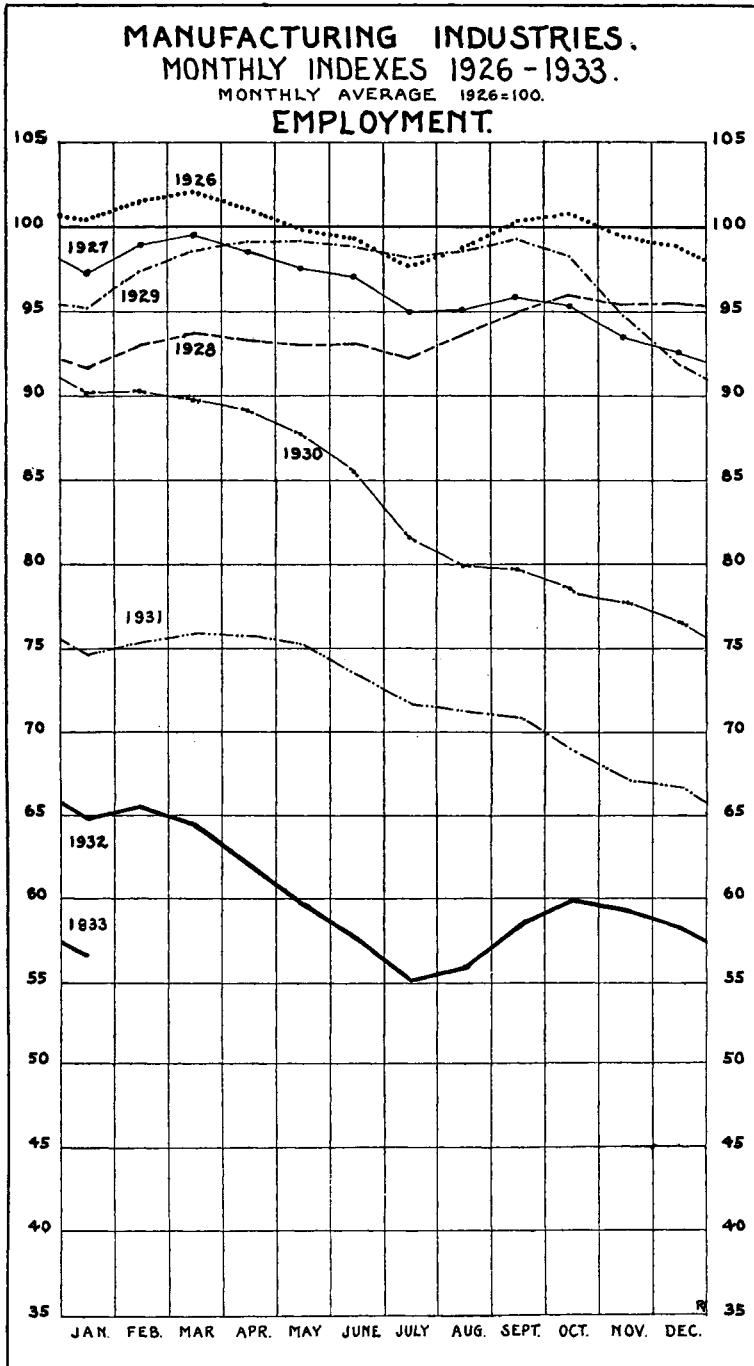
<sup>1</sup> Less than one-tenth of 1 per cent.

### 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 January, 1933, together with the average indexes for each of the years from 1926 to 1932, inclusive, are shown in the following table. In computing these general indexes, the index numbers of each of the separate industries are weighted according to their relative importance in the total. Preceding 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, 1933.

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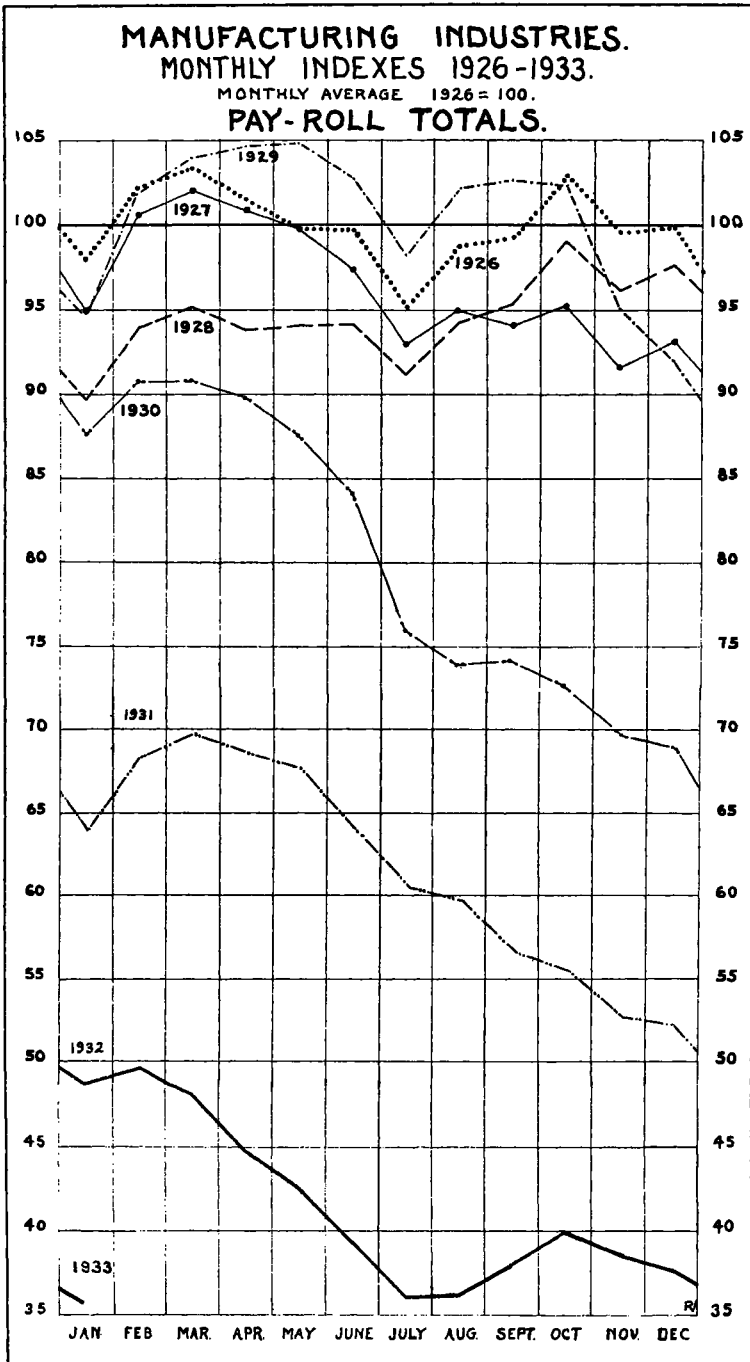


TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES, JANUARY, 1926, TO JANUARY, 1933

[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	95.5	88.1	63.7	48.6	35.8
February.....	101.5	99.0	93.0	97.4	90.9	75.3	65.6	-----	102.2	100.6	93.9	101.8	91.3	68.1	49.6	-----
March.....	102.0	99.5	93.7	98.6	90.5	75.9	64.5	-----	103.4	102.0	95.2	103.9	91.6	69.6	48.2	-----
April.....	101.0	98.6	93.3	99.1	89.9	75.7	62.2	-----	101.5	100.8	93.8	104.6	90.7	68.5	44.7	-----
May.....	99.8	97.6	93.0	99.2	88.6	75.2	59.7	-----	99.8	99.8	94.1	104.8	88.6	67.7	42.5	-----
June.....	99.3	97.0	93.1	98.8	86.5	73.4	57.5	-----	99.7	97.4	94.2	102.8	85.2	63.8	39.3	-----
July.....	97.7	95.0	92.2	98.2	82.7	71.7	55.2	-----	95.2	93.0	91.2	98.2	77.0	60.3	36.2	-----
August.....	98.7	95.1	93.6	98.6	81.0	71.2	56.0	-----	98.7	95.0	94.2	102.1	75.0	59.7	36.3	-----
September.....	100.3	95.8	95.0	99.3	80.9	70.9	58.5	-----	99.3	94.1	95.4	102.6	75.4	56.7	38.1	-----
October.....	100.7	95.3	95.9	98.4	79.9	68.9	59.9	-----	102.9	95.2	99.0	102.4	74.0	55.3	39.9	-----
November.....	99.5	93.5	95.4	95.0	77.9	67.1	59.4	-----	99.6	91.6	96.1	95.4	69.6	52.5	38.6	-----
December.....	98.9	92.6	95.5	92.3	76.6	66.7	58.3	-----	99.8	93.2	97.7	92.4	68.8	52.2	37.7	-----
<b>Average....</b>	<b>100.0</b>	<b>96.4</b>	<b>93.8</b>	<b>97.5</b>	<b>84.7</b>	<b>72.2</b>	<b>60.1</b>	<b>-----</b>	<b>100.0</b>	<b>96.5</b>	<b>94.5</b>	<b>100.5</b>	<b>81.5</b>	<b>61.5</b>	<b>41.6</b>	<b>-----</b>

## Time Worked in Manufacturing Industries in January, 1933

REPORTS as to working time in January were received from 13,408 establishments in 89 manufacturing industries. Four per cent of these establishments were idle, 43 per cent operated on a full-time basis, and 53 per cent worked on a part-time schedule.

An average of 84 per cent of full-time operation in January was shown by reports received from all the operating establishments included in Table 4. The establishments working part time in January averaged 72 per cent 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 "Per cent of establishments operating full time" instead of "Per cent of establishments in which employees worked full time."

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

Industry	Establishments reporting		Per cent of establishments operating—		Average per cent of full time reported by—	
	Total number	Per cent idle	Full time	Part time	All operating establishments	Establishments operating part time
<b>Food and kindred products.....</b>	<b>2,393</b>	<b>1</b>	<b>71</b>	<b>28</b>	<b>94</b>	<b>78</b>
Baking.....	729		86	14	97	78
Beverages.....	284	1	58	41	89	73
Butter.....	246	1	72	28	95	84
Confectionery.....	256	1	53	46	90	78
Flour.....	377	(1)	65	35	91	75
Ice cream.....	284	1	68	31	94	80
Slaughtering and meat packing.....	174		74	26	96	86
Sugar, beet.....	32	6	88	6	99	85
Sugar refining, cane.....	11	27	45	27	85	56
<b>Textiles and their products.....</b>	<b>2,397</b>	<b>5</b>	<b>54</b>	<b>40</b>	<b>89</b>	<b>74</b>
Fabrics:						
Carpets and rugs.....	22	5	32	64	77	65
Cotton goods.....	617	3	51	46	88	74
Cotton small wares.....	100	1	47	52	86	74
Dyeing and finishing textiles.....	133	2	41	56	89	81
Knit goods.....	370	5	62	34	91	75
Silk and rayon goods.....	227	5	67	28	92	73
Woolen and worsted goods.....	235	5	60	35	91	75
Wearing apparel:						
Clothing, men's.....	246	9	44	46	86	73
Clothing, women's.....	193	16	57	27	89	68
Corsets, and allied garments.....	25		44	56	87	77
Hats, fur-felt.....	21		48	52	87	70
Men's furnishings.....	50	2	48	50	86	72
Millinery.....	91	5	57	37	90	76
Shirts and collars.....	67	7	55	37	92	80
<b>Iron and steel and their products not including machinery.....</b>	<b>987</b>	<b>5</b>	<b>19</b>	<b>76</b>	<b>70</b>	<b>63</b>
Bolts, nuts, washers, and rivets.....	61		13	87	65	60
Cast-iron pipe.....	35	9	9	83	52	47
Cutlery (not including silver and plated cutlery) and edge tools.....	100	4	31	65	74	61
Forgings, iron and steel.....	37		27	73	68	56
Hardware.....	58	2	12	86	67	62
Iron and steel.....	125	10	19	70	67	58
Plumbers' supplies.....	48		19	81	70	63
Steam and hot water heating apparatus and steam fittings.....	76	8	9	83	55	49
Stoves.....	130	7	12	82	71	67
Structural and ornamental metal work.....	118	4	21	75	79	73
Tin cans and other tinware.....	54		44	56	86	75
Tools (not including edge tools, machine tools, files, and saws).....	101	4	19	77	73	67
Wirework.....	44	2	20	77	77	70
<b>Machinery, not including transportation equipment.....</b>	<b>1,322</b>	<b>2</b>	<b>22</b>	<b>76</b>	<b>73</b>	<b>66</b>
Agricultural implements.....	55		24	76	75	67
Cash registers, adding machines, and calculating machines.....	32		44	56	86	75
Electrical machinery, apparatus, and supplies.....	210	1	18	81	76	70
Engines, turbines, tractors, and water wheels.....	68	1	15	84	73	68
Foundry and machine-shop products.....	781	2	23	76	71	63
Machine tools.....	111	4	19	77	74	68
Radios and phonographs.....	26		42	58	88	78
Textile machinery and parts.....	29	3	21	76	81	76
Typewriters and supplies.....	10		20	80	72	64
<b>Nonferrous metals and their parts.....</b>	<b>493</b>	<b>1</b>	<b>28</b>	<b>71</b>	<b>78</b>	<b>70</b>
Aluminum manufactures.....	18		22	78	77	71
Brass, bronze, and copper products.....	152	1	21	78	75	68
Clocks and watches and time-recording devices.....	18		33	67	72	58
Jewelry.....	121	2	33	65	80	70
Lighting equipment.....	43		28	72	82	75
Silverware and plated ware.....	49	2	22	76	75	66
Smelting and refining, copper, lead, and zinc.....	20	5	55	40	88	71
Stamped and enameled ware.....	72		28	72	81	74

<sup>1</sup> Less than one-half of 1 per cent.

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

Industry	Establishments reporting		Per cent of establishments operating—		Average per cent of full time reported by—	
	Total number	Per cent idle	Full time	Part time	All operating establishments	Establishments operating part time
<b>Transportation equipment.....</b>	<b>285</b>	<b>6</b>	<b>45</b>	<b>49</b>	<b>87</b>	<b>75</b>
Aircraft.....	23	4	57	39	95	87
Automobiles.....	140	7	36	56	85	75
Cars, electric and steam railroad.....	31	10	16	74	73	68
Locomotives.....	9	—	44	56	79	63
Shipbuilding.....	82	4	66	30	95	83
<b>Railroad repair shops.....</b>	<b>757</b>	<b>1</b>	<b>46</b>	<b>53</b>	<b>89</b>	<b>80</b>
Electric railroad.....	325	—	70	30	95	83
Steam railroad.....	432	1	29	70	85	79
<b>Lumber and allied products.....</b>	<b>1,029</b>	<b>5</b>	<b>20</b>	<b>75</b>	<b>73</b>	<b>65</b>
Furniture.....	317	4	30	66	78	68
Lumber—						
Millwork.....	283	3	15	82	70	65
Sawmills.....	411	6	15	79	69	63
Turpentine and rosin.....	18	6	44	50	92	85
<b>Stone, clay, and glass products.....</b>	<b>666</b>	<b>27</b>	<b>30</b>	<b>43</b>	<b>85</b>	<b>75</b>
Brick, tile, and terra cotta.....	219	39	7	54	85	83
Cement.....	67	30	66	4	99	78
Glass.....	128	9	69	22	94	74
Marble, granite, slate, and other products.....	167	31	29	49	79	71
Pottery.....	85	13	25	62	74	63
<b>Leather and its manufactures.....</b>	<b>341</b>	<b>4</b>	<b>49</b>	<b>56</b>	<b>86</b>	<b>75</b>
Boots and shoes.....	219	5	33	62	82	73
Leather.....	122	2	53	45	91	80
<b>Paper and printing.....</b>	<b>1,580</b>	<b>1</b>	<b>42</b>	<b>57</b>	<b>86</b>	<b>76</b>
Boxes, paper.....	253	—	17	83	78	74
Paper and pulp.....	327	2	23	75	76	69
Printing and publishing—						
Book and job.....	608	( <sup>1</sup> )	40	60	87	79
Newspapers and periodicals.....	392	( <sup>1</sup> )	78	22	97	88
<b>Chemicals and allied products.....</b>	<b>827</b>	<b>3</b>	<b>49</b>	<b>48</b>	<b>89</b>	<b>77</b>
Chemicals.....	80	—	59	41	89	74
Cottonseed, oil, cake, and meal.....	47	36	43	21	92	73
Druggists' preparations.....	26	—	62	38	94	85
Explosives.....	17	—	6	94	75	74
Fertilizers.....	159	1	62	38	92	78
Paints and varnishes.....	320	1	34	65	84	75
Petroleum refining.....	83	5	69	27	96	87
Rayon and allied products.....	15	—	80	20	97	87
Soap.....	80	1	55	44	92	83
<b>Rubber products.....</b>	<b>127</b>	<b>2</b>	<b>24</b>	<b>74</b>	<b>81</b>	<b>74</b>
Rubber boots and shoes.....	8	13	38	50	91	85
Rubber goods, other than boots, shoes, tires, and inner tubes.....	88	2	28	69	84	77
Rubber tires and inner tubes.....	31	—	6	94	69	66
<b>Tobacco manufactures.....</b>	<b>204</b>	<b>18</b>	<b>25</b>	<b>57</b>	<b>80</b>	<b>71</b>
Chewing and smoking tobacco and snuff.....	32	6	53	41	91	78
Cigars and cigarettes.....	172	20	19	60	78	70
<b>Total, 89 industries.....</b>	<b>13,408</b>	<b>4</b>	<b>43</b>	<b>53</b>	<b>84</b>	<b>72</b>

<sup>1</sup> Less than one-half of 1 per cent.

## Employment in nonmanufacturing industries in January, 1933

IN THE following table are presented employment and pay-roll data for 14 groups of nonmanufacturing industries, the totals of which also appear in the summary table of employment and pay-roll totals.

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

Industrial group	Estab- lish- ments report- ing in both De- cem- ber, 1932, and Janu- ary, 1933	Employment			Pay-roll totals			Index num- bers, January 1933 (average 1929 = 100)	
		Number on pay roll, Janu- ary, 1933	Per cent of change		Amount of pay roll (1 week) January, 1933	Per cent of change		Em- ploy- ment	Pay- roll totals
			De- cem- ber, 1932, to Janu- ary, 1933	Janu- ary, 1932, to Janu- ary, 1933		De- cem- ber, 1932, to Janu- ary, 1933	Janu- ary, 1932, to Janu- ary, 1933		
Anthracite mining.....	160	71,822	-15.8	-31.1	\$1,719,317	-23.1	-29.8	52.5	43.2
Bituminous-coal mining.....	1,238	173,010	-.3	-13.6	2,350,478	-4.2	-23.2	69.8	36.1
Metalliferous mining.....	279	22,364	-2.5	-34.3	407,320	-3.1	-39.1	32.4	18.1
Quarrying and nonmetallic min- ing.....	592	15,419	-17.0	-28.2	216,072	-17.9	-40.1	35.1	18.1
Crude petroleum producing.....	262	23,359	-(1)	+4.2	630,031	-4.2	-14.2	57.2	39.9
Telephone and telegraph.....	8,274	266,129	-.3	-10.1	6,847,078	-2.4	-19.5	74.6	71.7
Power and light.....	3,508	208,066	-.9	-13.0	6,131,669	-.2	-17.4	77.7	73.0
Electric-railroad and motor-bus operation.....	505	131,235	-1.2	-11.2	3,620,226	-1.6	-19.2	70.6	60.9
Wholesale trade.....	2,734	69,612	-2.2	-7.9	1,889,697	-1.4	-16.7	75.3	61.7
Retail trade.....	16,411	332,297	-19.3	-8.8	6,633,843	-14.8	-19.6	76.9	62.7
Hotels.....	2,402	130,945	+7	-11.3	1,744,665	-1.6	-24.6	73.8	55.7
Canning and preserving.....	829	30,251	+1.1	-2.6	364,717	-3.4	-22.0	34.1	24.8
Laundries.....	908	52,918	-.6	-11.0	806,259	-1.3	-24.2	75.4	57.9
Dyeing and cleaning.....	374	10,525	-2.9	-11.1	172,454	-3.7	-29.2	73.0	46.6

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

### 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 January, 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, 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	.....	121.5	101.9	57.3	.....	102.4	91.5	77.4	.....	102.1	68.3	47.0	.....
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	63.7	34.5	.....	88.0	76.4	58.6	.....	68.9	50.4	24.4	.....
August.....	80.2	67.3	49.2	.....	78.8	56.4	41.4	.....	89.2	77.0	59.4	.....	71.1	50.6	26.4	.....
September.....	93.8	80.0	55.8	.....	91.6	64.9	47.0	.....	90.5	80.4	62.4	.....	74.9	53.6	30.2	.....
October.....	99.0	86.8	63.9	.....	117.2	91.1	66.7	.....	91.8	81.3	67.0	.....	79.4	56.2	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	.....	95.3	75.4	53.7	.....	93.4	83.2	67.4	.....	81.3	57.5	35.6	.....
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	.....	92.5	54.6	27.8	.....	79.8	66.6	47.4	.....	73.5	54.4	29.6	.....
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	.....	84.4	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	.....	78.0	44.8	21.6	.....	84.3	67.4	49.0	.....	79.3	53.4	29.1	.....
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	.....	88.6	70.0	46.9	.....	100.2	89.2	82.0	.....	101.9	94.8	89.6	.....
March.....	89.3	72.2	51.4	.....	91.3	73.2	43.2	.....	99.4	88.8	81.7	.....	105.8	97.9	88.2	.....
April.....	86.8	69.8	54.9	.....	86.6	66.3	44.5	.....	99.9	88.6	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	91.2	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	.....	85.9	61.7	44.1	.....	97.9	86.6	79.1	.....	102.9	93.7	81.1	.....
Month	Power and light								Electric-railroad and motor-bus operation and maintenance <sup>1</sup>							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	99.6	99.2	89.3	77.7	99.7	98.6	88.4	73.0	97.1	86.9	79.5	70.6	97.8	85.6	75.4	60.9
February.....	98.8	87.8	87.2	.....	100.4	99.7	86.0	.....	95.1	86.6	78.9	.....	95.7	87.1	74.8	.....
March.....	96.7	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	.....	104.3	96.7	79.8	.....	93.4	84.7	75.5	.....	93.5	83.4	68.0	.....

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

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

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	.....	98.3	88.4	72.5	.....	94.4	87.1	80.5	.....	96.0	86.7	73.7	.....
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	.....	95.9	83.6	67.0	.....	95.9	89.4	80.9	.....	96.2	86.6	69.4	.....
Month	Hotels								Canning and preserving							
	Employment				Pay rolls				Employment				Pay rolls			
	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
January.....	100.4	95.0	83.2	73.8	100.3	91.0	73.9	55.7	46.1	48.9	35.0	34.1	50.3	46.1	31.8	24.8
February.....	102.4	96.8	84.3	.....	103.8	93.7	73.9	.....	46.7	48.3	37.1	.....	51.5	48.6	32.7	.....
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	.....	98.5	85.4	64.5	.....	103.9	80.9	59.5	.....	96.1	65.6	42.6	.....
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	.....	.....	85.6	73.3	.....	.....	87.4	80.5	.....	.....	75.1	62.2	.....
March.....	.....	89.5	82.0	.....	.....	85.6	71.6	.....	.....	88.0	80.6	.....	.....	75.6	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	.....	.....	84.4	67.0	.....	.....	92.7	81.4	.....	.....	80.3	60.5	.....

## 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 December, 1932, and January, 1933, in 15 industrial groups and 73 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 per cent 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 per cent 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 per cent of the establishments reporting monthly employment data.

**TABLE 1.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN 15 INDUSTRIAL GROUPS, DECEMBER, 1932, AND JANUARY, 1933**

Industrial group	Average hours per week		Average hourly earnings	
	December, 1932	January, 1933	December, 1932	January, 1933
	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Manufacturing.....	38.4	37.5	43.3	42.7
Anthracite mining.....	32.0	28.1	82.3	83.6
Bituminous coal mining.....	30.5	29.0	47.5	48.1
Metalliferous mining.....	39.3	39.4	45.7	45.5
Quarrying and nonmetallic mining.....	34.0	34.6	41.0	40.4
Crude petroleum producing.....	45.0	44.6	63.7	58.0
Telephone and telegraph.....	38.7	37.6	68.9	69.3
Power and light.....	44.1	43.4	55.6	66.9
Electric-railroad and motor-bus operation and maintenance.....	46.4	46.2	59.2	59.3
Wholesale trade.....	46.9	47.0	55.8	56.7
Retail trade.....	44.4	44.8	41.6	43.1
Hotels.....	51.7	51.4	24.9	24.3
Canning and preserving.....	39.9	40.6	34.5	34.0
Laundries.....	42.2	42.0	35.5	35.4
Dyeing and cleaning.....	43.9	44.1	37.1	37.4
Total.....	41.5	41.1	45.8	46.1

TABLE 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS, IN SELECTED MANUFACTURING INDUSTRIES, DECEMBER, 1932, AND JANUARY, 1933

Industry	Average hours per week		Average hourly earnings	
	December, 1932	January, 1933	December, 1932	January, 1933
	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Food and kindred products:				
Baking.....	45.7	46.4	43.8	43.2
Beverages.....	39.0	39.4	61.2	61.0
Confectionery.....	42.2	40.6	33.5	33.1
Flour.....	47.3	48.1	43.6	43.0
Ice cream.....	48.1	48.8	51.6	51.0
Slaughtering and meat packing.....	46.0	46.4	44.4	44.2
Sugar, beet.....	34.3	43.8	39.5	48.7
Sugar refining, cane.....	48.8	44.2	43.6	42.6
Textiles and their products:				
Carpets and rugs.....	32.9	34.5	42.4	40.1
Cotton goods.....	45.6	45.0	22.6	22.4
Cotton small wares.....	40.5	39.6	36.0	34.7
Dyeing and finishing textiles.....	45.1	45.2	39.1	38.5
Knit goods.....	46.0	41.3	31.6	30.4
Silk and rayon goods.....	41.2	39.8	30.9	29.4
Woolen and worsted goods.....	45.3	45.2	35.3	34.2
Iron and steel and their products, not including machinery:				
Bolts, nuts, washers, and rivets.....	31.4	29.2	46.7	45.6
Cast-iron pipe.....	28.3	25.3	44.7	48.2
Cutlery (not including silver and plated cutlery), and edge tools.....	35.3	33.8	50.1	49.2
Forgings—iron and steel.....	32.3	30.4	48.2	48.7
Hardware.....	31.0	28.2	44.8	44.9
Iron and steel.....	24.9	25.3	48.7	48.4
Plumbers' supplies.....	28.0	27.3	47.3	45.1
Steam and hot-water heating apparatus and steam fittings.....	30.2	29.2	50.8	49.8
Stoves.....	28.3	28.5	48.1	47.8
Structural and ornamental metal work.....	30.7	28.4	48.1	45.3
Tin cans and other tinware.....	41.9	39.5	40.7	39.8
Tools (not including edge tools, machine tools, files, and saws).....	32.7	30.6	46.6	47.1
Machinery, not including transportation equipment:				
Agricultural implements.....	29.9	30.5	48.9	48.8
Cash registers, adding machines, and calculating machines.....	34.8	33.9	67.7	67.5
Electrical machinery, apparatus, and supplies.....	31.1	29.4	57.6	59.6
Engines, turbines, tractors, and water wheels.....	32.6	32.2	56.5	57.3
Foundry and machine-shop products.....	29.3	27.8	51.9	51.6
Machine tools.....	31.4	32.5	56.7	56.6
Radio and phonographs.....	36.0	32.5	43.6	42.3
Textile machinery and parts.....	30.9	29.6	58.7	57.4
Typewriters and supplies.....	35.1	32.1	47.5	47.1
Nonferrous metals and their parts:				
Brass, bronze, and copper products.....	32.4	30.8	45.5	46.5
Clocks and watches and time-recording devices.....	40.1	32.6	42.7	43.9
Jewelry.....	33.9	33.6	53.0	47.5
Silverware and plated ware.....	35.2	32.6	46.2	46.5
Smelting and refining, copper, lead, and zinc.....	32.1	31.2	48.3	48.2
Stamped and enameled ware.....	37.5	36.1	37.8	38.2
Transportation equipment:				
Aircraft.....	47.4	42.5	64.3	64.9
Automobiles.....	34.3	35.8	57.6	55.6
Locomotives.....	27.7	24.9	46.5	52.9
Shipbuilding.....	33.4	29.8	60.4	59.4
Railroad repair shops:				
Electric railroad.....	45.0	43.9	57.5	57.4
Steam railroad.....	36.4	34.5	62.1	62.7
Lumber and allied products:				
Furniture.....	34.7	30.4	35.1	34.5
Lumber—				
Millwork.....	34.8	35.5	36.3	34.2
Sawmills.....	34.3	33.1	30.1	29.0
Stone, clay, and glass products:				
Brick, tile, and terra cotta.....	29.3	28.9	36.4	35.4
Cement.....	35.0	30.8	43.4	44.6
Glass.....	35.3	34.7	43.9	43.6
Marble, granite, slate, and other products.....	29.4	32.2	59.8	55.2
Pottery.....	37.4	34.5	40.5	39.4
Leather and its manufactures: Leather.....	42.8	41.8	40.1	39.3
Paper and printing:				
Boxes, paper.....	41.4	37.8	41.6	43.0
Paper and pulp.....	38.7	38.6	43.5	42.8
Printing and publishing—				
Book and job.....	37.2	37.3	67.4	66.5
Newspapers and periodicals.....	41.4	40.6	77.5	75.8

TABLE 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS, IN SELECTED MANUFACTURING INDUSTRIES, DECEMBER, 1932, AND JANUARY, 1933—Continued

Industry	Average hours per week		Average hourly earnings <sup>a</sup>	
	December, 1932	January, 1933	December, 1932	January, 1933
Chemicals and allied products:	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Chemicals.....	40.9	40.2	51.7	52.0
Druggists' preparations.....	41.8	43.8	44.3	42.5
Explosives.....	37.5	35.3	54.1	54.3
Fertilizers.....	44.0	43.1	30.4	28.4
Paints and varnishes.....	39.9	38.3	52.5	52.6
Petroleum refining.....	38.8	39.9	62.7	62.4
Rayon and allied products.....	46.1	45.5	37.6	37.7
Soap.....	40.6	40.8	44.1	41.4
Rubber products:				
Rubber goods, other than boots, shoes, tires, and inner tubes.....	37.8	36.3	44.0	44.3
Rubber tires and inner tubes.....	29.7	28.7	58.9	58.3
Tobacco manufactures:				
Chewing and smoking tobacco and snuff.....	40.5	43.0	32.7	31.8
Cigars and cigarettes.....	39.9	34.8	30.8	29.1

### Employment in Building Construction in January, 1933

**E**MPLOYMENT in the building construction industry decreased 5.1 per cent in January, 1933, as compared with December, 1932, and pay rolls decreased 4.1 per cent over the month interval.

The per cents of change of employment and pay-roll totals in January, 1933, as compared with December, 1932, are based on returns made by 10,144 firms employing in January 63,673 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, DECEMBER, 1932, AND JANUARY, 1933

Locality	Number of firms reporting	Number on pay roll		Per cent of change	Amount of pay roll		Per cent of change
		Dec. 15	Jan. 15		Dec. 15	Jan. 15	
Alabama: Birmingham.....	69	423	443	+4.7	\$4,649	\$4,917	+5.8
California:							
Los Angeles <sup>1</sup> .....	20	661	603	-8.8	11,544	12,474	+8.1
San Francisco-Oakland <sup>1</sup> .....	23	575	638	+11.0	12,757	12,649	- .8
Other reporting localities <sup>1</sup> .....	17	332	293	-11.7	7,474	5,903	-21.0
Colorado: Denver.....	183	558	501	-10.2	11,328	10,218	-9.8
Connecticut:							
Bridgeport.....	126	455	395	-13.2	10,625	8,342	-21.5
Hartford.....	212	920	797	-13.4	20,333	18,309	-10.0
New Haven.....	170	990	1,030	+4.0	25,496	27,294	+7.1
Delaware: Wilmington.....	113	1,026	943	-8.1	20,903	18,792	-10.1
District of Columbia.....	541	7,627	7,997	+4.9	204,599	219,400	+7.2
Florida:							
Jacksonville.....	51	319	309	-3.1	4,975	4,617	-7.2
Miami.....	77	546	484	-11.4	11,437	10,045	-12.2
Georgia: Atlanta.....	119	1,015	906	-10.7	12,420	13,810	+11.2
Illinois:							
Chicago <sup>1</sup> .....	142	970	1,178	+21.4	23,928	30,946	+29.3
Other reporting localities <sup>1</sup> .....	77	442	397	-10.2	7,075	7,457	+5.4
Indiana:							
Evansville.....	50	200	222	+11.0	3,334	3,770	+13.1
Fort Wayne.....	101	253	230	-9.1	3,693	3,627	-1.8
Indianapolis.....	160	643	754	+17.3	13,856	14,403	+3.9
South Bend.....	35	167	208	+24.6	2,743	3,501	+27.6

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

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, DECEMBER, 1932, AND JANUARY, 1933—Continued

Locality	Number of firms reporting	Number on pay roll		Per cent of change	Amount of pay roll		Per cent of change
		Dec. 15	Jan. 15		Dec. 15	Jan. 15	
Iowa: Des Moines.....	109	553	556	+0.5	\$10,578	\$12,947	+22.4
Kansas: Wichita.....	60	294	281	-4.4	5,061	4,962	-2.0
Kentucky: Louisville.....	122	604	649	+7.5	9,456	10,419	+10.2
Louisiana: New Orleans.....	134	1,137	1,154	+1.5	19,088	19,546	+2.4
Maine: Portland.....	100	429	306	-28.7	8,996	5,990	-33.4
Maryland: Baltimore <sup>1</sup> .....	114	841	786	-6.5	14,105	11,505	-18.4
Massachusetts: All reporting localities <sup>1</sup> .....	726	4,526	3,510	-22.4	109,647	85,668	-21.9
Michigan:							
Detroit.....	408	2,308	2,071	-10.3	48,348	40,442	-16.4
Flint.....	50	115	112	-2.6	1,910	1,655	-13.4
Grand Rapids.....	98	477	375	-21.4	9,360	7,223	-22.8
Minnesota:							
Duluth.....	55	309	306	-1.0	5,935	6,627	+11.7
Minneapolis.....	225	1,048	917	-12.5	21,073	17,622	-16.4
St. Paul.....	155	545	431	-20.9	10,433	7,451	-28.6
Missouri:							
Kansas City <sup>2</sup> .....	247	1,051	1,088	+3.5	23,390	22,320	-4.6
St. Louis.....	454	2,049	2,266	+10.6	51,670	60,047	+16.2
Nebraska: Omaha.....	133	541	527	-2.6	10,841	8,515	-21.5
New York:							
New York City <sup>1</sup> .....	332	7,299	6,696	-8.3	252,888	240,374	-4.9
Other reporting localities <sup>1</sup> .....	169	3,691	2,972	-19.5	94,023	79,437	-15.5
North Carolina: Charlotte.....	36	155	186	+12.0	2,143	2,569	+19.9
Ohio:							
Akron.....	80	271	265	-2.2	4,059	3,627	-10.6
Cincinnati <sup>2</sup> .....	488	2,246	2,548	+13.4	49,222	61,785	+25.5
Cleveland.....	495	2,271	2,001	-11.9	56,115	48,775	-13.1
Dayton.....	110	454	439	-3.3	7,776	7,808	+0.4
Youngstown.....	66	210	186	-11.4	3,771	3,173	-15.9
Oklahoma:							
Oklahoma City.....	86	259	341	+31.7	4,351	4,664	+7.2
Tulsa.....	49	147	178	+21.1	2,264	2,598	+14.8
Oregon: Portland.....	179	552	573	+3.8	9,818	11,268	+14.8
Pennsylvania: <sup>4</sup>							
Erie area <sup>1</sup> .....	24	83	79	-4.8	1,849	1,571	-15.0
Philadelphia area <sup>1</sup> .....	418	3,022	2,612	-13.6	60,381	50,677	-16.1
Pittsburgh area <sup>1</sup> .....	230	1,107	1,063	-4.0	27,188	27,783	+2.2
Reading-Lebanon area <sup>1</sup> .....	38	227	200	-11.9	4,363	4,146	-5.0
Scranton area <sup>1</sup> .....	34	167	163	-2.4	3,741	3,089	-17.4
Other reporting areas <sup>1</sup> .....	261	1,703	1,495	-12.2	30,095	26,606	-11.6
Rhode Island: Providence.....	231	1,180	1,065	-9.7	25,056	22,201	-11.4
Tennessee:							
Chattanooga.....	37	129	196	+51.9	1,783	2,477	+38.9
Knoxville.....	46	433	359	-17.1	4,683	4,133	-11.7
Memphis.....	91	388	394	+1.5	6,515	7,110	+9.1
Nashville.....	64	586	511	-12.8	8,089	7,000	-13.5
Texas:							
Dallas.....	150	706	936	+32.6	10,617	14,322	+34.9
El Paso.....	21	203	232	+14.3	2,584	3,068	+18.7
Houston.....	138	620	760	+22.6	9,247	12,045	+30.3
San Antonio.....	101	450	464	+3.1	6,385	7,025	+10.0
Utah: Salt Lake City.....	83	269	202	-24.9	5,204	3,359	-35.5
Virginia:							
Norfolk-Portsmouth.....	86	534	415	-22.3	8,116	5,995	-26.1
Richmond.....	142	831	730	-12.2	15,125	12,997	-14.1
Washington:							
Seattle.....	155	659	577	-12.4	14,379	10,951	-23.8
Spokane.....	50	148	157	+6.1	2,335	2,047	-12.3
Tacoma.....	73	103	111	+7.8	1,817	1,808	-0.8
West Virginia: Wheeling.....	45	126	112	-11.1	2,187	1,848	-15.5
Wisconsin: All reporting localities <sup>1</sup> .....	60	939	792	-15.7	18,446	14,754	-20.0
Total, all localities.....	10,144	67,117	63,673	-5.1	1,529,675	1,466,498	-4.1

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

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

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

<sup>4</sup> Each separate area includes from 2 to 8 counties.

## Employment in the Executive Civil Service of the United States, January, 1933

THE Federal pay rolls in the United States showed 9,419 fewer names in January, 1933, than in January, 1932. Comparing January, 1933, with December, 1932, there was a loss of 942.

These figures do not include the legislative, judicial, or Army and Navy services. The data as shown in the table below are 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.

The number of employees in the District of Columbia showed a decrease of 4.1 per cent in January, 1933, as compared with January, 1932. The number of permanent employees in the District of Columbia decreased 2.9 per cent, while the number of temporary employees decreased 26 per cent, comparing January, 1933, with January, 1932. There was an increase of eight-tenths of 1 per cent in the total number of Federal employees in the District of Columbia, comparing January, 1933, with December, 1932. This increase was caused by taking on in the Department of Agriculture of 581 employees (net) in the new crop-production loan office.

EMPLOYEES IN THE EXECUTIVE CIVIL SERVICE OF THE UNITED STATES JANUARY  
AND DECEMBER, 1932, AND JANUARY, 1933<sup>1</sup>

	District of Columbia			Outside the District			Entire service		
	Perma- nent	Tempo- rary <sup>2</sup>	Total	Perma- nent	Tempo- rary <sup>2</sup>	Total	Perma- nent	Tempo- rary <sup>2</sup>	Total
Number of employees:									
January, 1932.....	65,975	3,667	69,642	478,453	24,485	502,938	544,428	28,152	572,580
December, 1932.....	64,214	2,088	66,302	468,769	29,032	497,801	532,983	31,120	564,103
January, 1933.....	64,086	2,714	66,800	469,080	27,281	496,361	533,166	29,995	563,161
Gain or loss:									
January, 1932-January, 1933.....	-1,889	-953	-2,842	-9,373	+2,796	-6,577	-11,262	+1,843	-9,419
December, 1932-Janu- ary, 1933.....	-128	+626	+498	+311	-1,751	-1,440	+183	-1,125	-942
Per cent of change:									
January, 1932-January, 1933.....	-2.9	-26.0	-4.1	-2.0	+11.4	-1.3	-2.1	+6.5	-1.6
December, 1932-Janu- ary, 1933.....	-0.2	+30.0	+0.8	+0.1	-6.0	-0.3	+( <sup>3</sup> )	-3.6	-0.2
Labor turnover, January, 1933:									
Additions.....	472	843	1,315	2,758	13,550	16,308	3,230	14,393	17,623
Separations.....	600	217	817	2,447	15,301	17,748	3,047	15,518	18,565
Turnover rate per 100....	0.74	9.04	1.23	0.53	48.13	3.28	0.57	47.1	3.13

<sup>1</sup> 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 from the enumeration 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 1931, as in the month they were dropped from the tabulation (actual figures not being available from the Civil Service Commission), and the data for this month has been revised accordingly in this table.

<sup>2</sup> Not including field service of the Post Office Department.

<sup>3</sup> Less than one-tenth of 1 per cent.

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

**D**ATA are not yet available concerning railroad employment for January, 1933. Reports of the Interstate Commerce Commission for Class I railroads show that the number of employees (exclusive of executives and officials) decreased from 1,000,119 on November 15, 1932, to 980,501 on December 15, 1932, or 2.0 per cent; the amount of pay roll decreased from \$114,581,486 in November to \$114,284,718 in December, or 0.3 per cent.

The monthly trend of employment from January, 1923, to December, 1932, on Class I railroads—that is, all roads having operating revenues of \$1,000,000 or over—is shown by the 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 DECEMBER, 1932

[12-month average, 1926=100]

Month	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932
January.....	98.3	96.6	95.6	95.8	95.5	89.3	88.2	86.3	73.7	61.2
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	73.6	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

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

**I**N THE following table are shown the fluctuations in employment and pay-roll totals in January, 1933, as compared with December, 1932, 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 is presented. In this State compilation, the totals of the telephone and telegraph, power and light, and electric-railroad operation groups have been combined and are presented as one group—public utilities. Due to the extreme seasonal fluctuations in the canning and preserving industry, and the fact that during certain months the activity in this industry in a number of States is negligible, data for this industry are not presented separately. The number of employees and the amount of weekly pay roll in December,

1932, and January, 1933, as reported by identical establishments in this industry are included, however, in the combined total of "All groups."

The per cents of change shown in the accompanying tables, unless otherwise noted, are unweighted per cents 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 the summary table 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 DECEMBER, 1932, AND JANUARY, 1933, BY STATES

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

State	Total—all groups					Manufacturing				
	Number of establishments	Number on pay roll January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change	Number of establishments	Number on pay roll January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change
Alabama.....	459	46,650	-4.4	\$491,709	-5.5	196	32,247	-3.5	\$322,633	-5.9
Arizona.....	361	7,445	-5.9	153,737	-2.7	55	1,639	-10.7	34,463	-9.9
Arkansas.....	<i>1,444</i>	<i>14,007</i>	<i>-2.9</i>	<i>193,780</i>	<i>-4.7</i>	<i>179</i>	<i>9,022</i>	<i>-1.5</i>	<i>108,098</i>	<i>-4.7</i>
California.....	<i>2,842</i>	<i>220,910</i>	<i>-5.6</i>	<i>5,216,073</i>	<i>-5.3</i>	<i>1,114</i>	<i>105,715</i>	<i>-2.9</i>	<i>2,339,103</i>	<i>-4.9</i>
Colorado.....	722	26,213	-15.3	519,282	-11.5	116	8,832	-29.5	164,566	-15.9
Connecticut.....	1,033	127,119	-2.7	2,155,761	-7.9	635	108,578	-2.5	1,694,117	-8.7
Delaware.....	120	8,959	+3	177,904	-4.1	52	6,871	+2.2	132,086	-3.4
District of Columbia.....	<i>333</i>	<i>36,705</i>	<i>-2.4</i>	<i>814,569</i>	<i>-2.8</i>	<i>56</i>	<i>3,740</i>	<i>+8</i>	<i>123,763</i>	<i>-2.5</i>
Florida.....	530	23,977	+8.2	344,167	-5.5	124	9,771	-24.3	123,225	-33.3
Georgia.....	620	69,145	-8	821,231	-2.4	298	56,820	-7	567,884	-3.4
Idaho.....	198	7,540	-15.4	117,388	-22.0	41	3,763	-28.6	48,441	-39.7
Illinois.....	<i>3,583</i>	<i>258,841</i>	<i>-2.1</i>	<i>5,167,023</i>	<i>-2.6</i>	<i>1,052</i>	<i>154,643</i>	<i>-1.9</i>	<i>2,640,256</i>	<i>-2.2</i>
Indiana.....	1,151	104,078	-3.7	1,869,211	-3.8	548	76,824	-2.5	1,327,115	-4.0
Iowa.....	1,142	38,739	-7.3	735,648	-7.6	450	20,477	-10.0	371,900	-12.1
Kansas.....	<i>1,003</i>	<i>57,364</i>	<i>-3.6</i>	<i>1,265,897</i>	<i>-3.9</i>	<i>423</i>	<i>21,057</i>	<i>-6</i>	<i>434,611</i>	<i>-3.1</i>
Kentucky.....	771	52,090	-2.3	764,108	-3.4	199	17,295	-3.5	265,784	-1.9
Louisiana.....	480	25,636	-3.9	383,104	-1.1	204	15,231	-1.0	198,226	+2.3
Maine.....	528	35,622	-3.1	557,653	-5.6	180	29,958	-1.9	433,375	-5.1
Maryland.....	<i>822</i>	<i>70,352</i>	<i>-6.8</i>	<i>1,299,202</i>	<i>-6.7</i>	<i>448</i>	<i>46,235</i>	<i>-5.8</i>	<i>766,332</i>	<i>-7.7</i>
Massachusetts.....	<i>7,611</i>	<i>315,148</i>	<i>-4.8</i>	<i>6,585,933</i>	<i>-6.5</i>	<i>1,099</i>	<i>151,660</i>	<i>-1.7</i>	<i>2,489,307</i>	<i>-5.3</i>
Michigan.....	1,418	248,587	+3.2	5,013,478	+3.8	<i>378</i>	<i>181,619</i>	<i>+7.9</i>	<i>3,673,720</i>	<i>+10.6</i>
Minnesota.....	967	55,553	-6.2	1,143,238	-5.6	263	27,272	-6.6	519,923	-8.9
Mississippi.....	373	8,008	-3.8	97,262	-5.8	62	4,354	-9.3	43,170	-15.2
Missouri.....	1,079	95,050	-2.0	1,916,102	-1.1	505	54,366	-6	986,498	+1.1
Montana.....	288	8,226	-2.4	188,972	-5.4	46	2,976	-3.3	55,318	-6.3
Nebraska.....	663	19,691	-10.6	422,086	-5.1	117	9,498	-14.7	196,771	-7.2
Nevada.....	129	1,121	-8.6	28,591	-10.1	23	234	-4.5	6,191	-6.5
New Hampshire.....	431	32,055	-1.4	489,890	-3.0	175	28,616	-8	408,674	-2.2
New Jersey.....	1,413	166,014	-5.1	3,487,759	-7.6	<i>769</i>	<i>150,715</i>	<i>-4.8</i>	<i>3,060,651</i>	<i>-6.9</i>
New Mexico.....	172	4,648	-2.7	80,462	-1.8	23	444	-13.4	5,761	-33.3
New York.....	6,388	472,107	-5.2	10,734,232	-6.5	<i>1,667</i>	<i>290,591</i>	<i>-3.1</i>	<i>6,087,442</i>	<i>-6.1</i>
North Carolina.....	845	103,422	-1.7	1,086,733	-5.9	509	98,938	-1.7	1,019,343	-6.2
North Dakota.....	307	8,103	-6.0	67,349	-11.0	57	909	-2.7	21,466	-2.1
Ohio.....	4,486	336,255	-3.2	6,064,949	-1.5	1,876	243,597	-1.1	4,182,699	+1.1
Oklahoma.....	641	25,030	-3	499,087	-1.0	98	8,742	+2.8	168,538	+4.4
Oregon.....	630	22,969	-5.2	426,236	-5.2	140	12,672	-7.4	193,939	-9.5
Pennsylvania.....	3,994	545,025	-6.2	9,218,307	-11.1	<i>1,710</i>	<i>303,168</i>	<i>-4.5</i>	<i>4,162,746</i>	<i>-10.4</i>
Rhode Island.....	881	52,436	-3.0	905,565	-6.9	266	41,605	-1.9	661,129	-7.0
South Carolina.....	311	48,846	-3	462,483	-1.3	170	45,545	+3	411,758	-1.3
South Dakota.....	223	5,452	-2.4	125,123	-4.1	45	2,183	-2.2	40,329	-7.0
Tennessee.....	697	57,324	-3.7	769,760	-3.5	259	41,859	-3.2	529,318	-4.0
Texas.....	<i>761</i>	<i>54,417</i>	<i>-4.2</i>	<i>1,208,392</i>	<i>-3.0</i>	<i>356</i>	<i>29,978</i>	<i>-3.3</i>	<i>584,900</i>	<i>-2.6</i>
Utah.....	312	13,251	-5.7	265,580	-1.5	70	4,768	-14.7	87,889	-13.0
Vermont.....	340	8,066	-11.0	142,848	-14.1	116	4,372	-9.2	70,820	-15.9
Virginia.....	1,214	75,902	-3.0	1,160,550	-5.3	415	53,285	-1.4	770,426	-5.7
Washington.....	1,048	42,812	-8.1	859,705	-8.3	228	19,835	-5.4	350,344	-10.0
West Virginia.....	740	75,047	-4.3	1,219,286	-2.8	184	28,517	-7.4	510,527	-3.9
Wisconsin.....	<i>1,079</i>	<i>114,167</i>	<i>-5.6</i>	<i>1,776,504</i>	<i>-8.5</i>	<i>794</i>	<i>87,479</i>	<i>-3.4</i>	<i>1,248,473</i>	<i>-8.0</i>
Wyoming.....	183	6,062	-1.3	130,305	-10.5	26	1,464	-3.7	33,996	-10.1

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

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

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

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

<sup>5</sup> Weighted per cent of change.

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

<sup>7</sup> Includes laundries.

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

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



COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN DECEMBER, 1932, AND JANUARY, 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 January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change	Number of establishments	Number on pay roll January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change
Alabama.....	14	529	-3.6	\$13,815	+1.6	29	1,778	-27.3	\$27,255	-14.9
Arizona.....	17	125	-2.8	3,467	+6.3	178	1,396	-16.4	23,072	-5.5
Arkansas.....	17	433	-2	12,301	+2.6	138	1,518	-16.1	27,322	-14.1
California.....	93	4,935	-3.0	145,996	-3.1	115	25,732	-26.4	517,911	-20.4
Colorado.....	29	818	-1.0	23,271	+3.0	260	3,915	-17.8	82,058	-11.6
Connecticut.....	56	1,188	-1.7	33,510	-1.9	118	4,778	-11.7	92,607	-9.0
Delaware.....	8	165	+1.2	4,656	+1.8	9	149	-39.9	2,169	-31.0
District of Columbia.....	24	288	-1.7	9,272	-2.1	400	10,165	-24.2	215,430	-17.6
Florida.....	43	733	-1.5	17,080	-1.4	74	1,219	-2	23,774	+3.7
Georgia.....	33	418	+2.0	10,986	-2.3	27	1,727	-21.5	28,300	-13.3
Idaho.....	7	108	( <sup>10</sup> )	3,107	+1.9	68	793	+19.8	11,093	-4.4
Illinois.....	14	830	+7	19,739	-2.4	95	20,016	-7.5	406,947	-9.9
Indiana.....	57	1,025	-5	26,703	+1.3	188	5,650	-22.8	99,028	-17.2
Iowa.....	32	893	-1.4	23,689	+3.4	124	3,040	-16.7	53,830	-6.7
Kansas.....	66	1,731	-6.9	42,604	-8.0	306	5,761	-16.7	103,882	-7.5
Kentucky.....	21	451	-2	9,323	+2.2	26	1,034	-9.5	15,516	-9.4
Louisiana.....	28	661	-6	15,513	+2.3	46	2,726	-25.1	40,253	-23.6
Maine.....	17	443	+7.5	10,448	+6.4	75	1,068	-18.4	19,593	-13.5
Maryland.....	33	739	-1	15,896	-1.1	85	5,047	-30.8	85,745	-26.8
Massachusetts.....	644	13,159	-2.4	350,774	-1.8	3,904	54,285	-18.6	1,102,819	-12.0
Michigan.....	55	1,508	+2	43,028	+1	186	9,885	-28.6	188,185	-22.6
Minnesota.....	57	3,994	-3.3	106,740	-2.4	279	7,452	-8.1	129,087	-6.0
Mississippi.....	4	109	+1.9	1,933	-5.7	58	428	-20.1	4,492	-21.4
Missouri.....	58	4,569	-2.1	118,383	+4	133	5,691	-21.4	112,233	-16.6
Montana.....	11	196	-5	6,053	+2.6	65	681	-10.0	15,049	+1.5
Nebraska.....	35	885	-3.0	24,834	+5	158	1,606	-12.5	29,856	-7.0
Nevada.....	6	78	+5.4	2,611	-9.3	37	217	-7.3	5,403	-6.7
New Hampshire.....	14	170	-5.6	4,463	-2.9	56	513	-27.4	9,340	-12.1
New Jersey.....	28	599	-1.5	18,422	-4.4	411	7,329	-30.2	159,683	-25.0
New Mexico.....	5	38	( <sup>10</sup> )	1,288	+1.8	48	231	-15.1	5,103	-3.6
New York.....	318	7,330	-2.0	234,246	-8	3,227	56,187	-21.9	1,248,477	-18.7
North Carolina.....	16	193	-4.5	4,268	-3.5	174	556	-11.6	10,434	-3.9
North Dakota.....	15	193	-2.5	5,382	-7.2	37	281	-22.8	4,657	-13.4
Ohio.....	228	4,718	-1.7	122,355	-1.6	1,431	28,337	-22.4	529,911	-17.3
Oklahoma.....	49	944	+1	25,600	+2.5	93	1,706	-10.2	27,327	-8.7
Oregon.....	44	873	-5.0	25,353	-1.6	186	1,947	-8.5	38,125	-6.6
Pennsylvania.....	127	3,422	-7	94,600	+ <sup>(11)</sup>	310	25,132	-17.2	487,258	-15.0
Rhode Island.....	41	978	-7.0	23,751	-7.5	498	4,915	-12.2	101,090	-9.4
South Carolina.....	13	223	+5	4,502	-8	16	394	-34.7	3,871	-24.9
South Dakota.....	10	123	+8	3,679	+2.4	12	92	-29.2	1,447	-4.2
Tennessee.....	34	631	+5	13,818	+3.3	51	3,289	-17.6	53,444	-12.7
Texas.....	137	2,680	-4.7	72,992	-9	65	5,051	-15.7	89,980	-17.6
Utah.....	15	447	-4.3	11,190	-1.0	82	726	-1.1	14,256	+2.0
Vermont.....	5	109	( <sup>10</sup> )	2,684	-6.7	33	329	-34.9	6,176	-19.9
Virginia.....	40	892	+2	19,758	-1.8	460	4,480	-18.4	78,886	-15.5
Washington.....	89	1,951	-3.3	54,557	-2.7	389	6,114	-21.9	116,123	-15.7
West Virginia.....	33	583	+1.0	15,627	+2.0	49	876	-27.5	14,838	-15.0
Wisconsin.....	48	1,836	-7.7	41,532	-12.8	57	8,097	-23.5	122,040	-17.8
Wyoming.....	8	56	+3.7	1,694	-5	46	213	-9	5,551	+3.6

<sup>10</sup> No change.<sup>11</sup> Less than one-tenth of 1 per cent.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN DECEMBER, 1932, AND JANUARY, 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 January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change	Number of establishments	Number on pay roll January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change
Alabama.....	8	445	-9.4	\$3,997	-16.4	9	606	-39.6	\$5,993	-44.8
Arizona.....						19	2,206	-4.4	49,855	+7
Arkansas.....	8	321	-34.6	2,364	-31.7					
California.....	29	502	-18.6	9,273	-21.7	33	<i>2,468</i>	-1.2	<i>69,223</i>	-6.9
Colorado.....						13	620	+2	14,601	-1.6
Connecticut.....	10	76	-26.2	1,375	-20.5					
Delaware.....										
Dist. of Columbia.....										
Florida.....	8	499	+3.1	6,229	+7.7					
Georgia.....	15	817	+1.7	7,694	-3.9					
Idaho.....						10	1,964	+6	38,420	+1.5
Illinois.....	25	314	+10.6	6,047	+13.9					
Indiana.....	33	558	+7.3	7,208	+4.8					
Iowa.....	17	158	-35.0	2,047	-30.7					
Kansas.....	18	<i>884</i>	-1.4	<i>18,091</i>	-3.8	10	<i>568</i>	-7	<i>9,799</i>	-12.8
Kentucky.....	24	525	-26.1	3,777	-26.2					
Louisiana.....	4	485	-4	4,829	+2.9					
Maine.....	7	23	-76.0	805	-64.8					
Maryland.....	13	<i>178</i>	-19.6	<i>1,934</i>	-35.6					
Massachusetts.....	13	178	-21.9	2,769	-31.6					
Michigan.....	14	269	-29.9	4,133	-19.9	42	5,076	+3.9	50,291	-2.7
Minnesota.....	6	20	-70.6	457	-48.4	32	813	-26.6	9,512	-24.2
Mississippi.....	3	63	+3.3	823	+36.7					
Missouri.....	13	236	+27.6	3,122	+16.1	13	1,024	-3	19,732	-6
Montana.....	4	2	-85.7	20	-91.5	17	1,254	-5.4	34,698	-7.5
Nebraska.....	3	34	-77.0	225	-87.4					
Nevada.....						11	96	+3.2	2,250	-14.0
New Hampshire.....	10	151	-1.3	3,855	-3.2					
New Jersey.....	3	24	-41.5	467	-64.4					
New Mexico.....						5	792	-4.5	15,661	-1.2
New York.....	43	776	-47.1	14,968	-42.9					
North Carolina.....	6	123	+7.0	1,052	+14.6					
North Dakota.....										
Ohio.....	57	1,268	-19.5	18,835	-12.2					
Oklahoma.....	4	59	( <sup>10</sup> )	749	+9.0	31	1,406	+10.4	18,586	+3.2
Oregon.....						4	50	+6.4	641	-15.7
Pennsylvania.....	58	1,531	-30.6	12,910	-39.6					
Rhode Island.....										
South Carolina.....	5	54	-3.6	381	+42.2					
South Dakota.....	5	41	-25.5	489	-42.9					
Tennessee.....	19	1,051	-3.8	14,490	+7.3	4	198	-2.9	2,589	-3.0
Texas.....	22	<i>513</i>	+10.8	<i>9,740</i>	+1.0	12	2,039	+1	36,816	-3.7
Utah.....										
Vermont.....	37	1,750	-16.0	33,786	-17.6					
Virginia.....	17	806	-9.0	6,193	-18.0					
Washington.....	6	124	-12.7	2,113	-15.8					
West Virginia.....	7	197	-36.0	1,833	-43.8					
Wisconsin.....	14	87	-13.0	<i>1,142</i>	-6.0					
Wyoming.....										

<sup>10</sup> No change.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN **IDENTICAL** ESTABLISHMENTS  
IN DECEMBER, 1932, AND JANUARY, 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 January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change	Number of establishments	Number on pay roll January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change
Alabama.....	44	7,219	+1.5	\$62,169	+2.5	.....	.....	.....	.....	.....
Arizona.....	6	481	+44.9	6,254	+67.3	9	369	-9.3	\$9,532	-4
Arkansas.....	.....	.....	.....	.....	.....	41	6,389	+1.1	196,888	+5.3
California.....	42	4,843	-1.3	73,516	-20.4	.....	.....	.....	.....	.....
Colorado.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Connecticut.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delaware.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
District of Columbia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Florida.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Georgia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Idaho.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Illinois.....	29	4,908	-12.1	105,758	-14.8	9	192	-1.0	3,972	-4.7
Indiana.....	45	5,427	-3.6	115,989	-1.8	4	18	-5.3	278	-9.2
Iowa.....	18	2,038	+2.0	38,698	-10.7	.....	.....	.....	.....	.....
Kansas.....	22	1,767	-4.4	22,502	-24.0	30	1,230	+1.8	26,063	-3.1
Kentucky.....	140	23,241	-1.0	279,530	-4.6	5	198	+1.0	3,630	-3.4
Louisiana.....	.....	.....	.....	.....	.....	10	189	+9.9	5,332	+14.4
Maine.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Maryland.....	14	1,456	+1	12,991	-9.9	.....	.....	.....	.....	.....
Massachusetts.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Michigan.....	3	873	+4.1	21,208	+9	.....	.....	.....	.....	.....
Minnesota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mississippi.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Missouri.....	18	1,311	+10.5	23,708	-2.1	.....	.....	.....	.....	.....
Montana.....	8	766	+5.7	17,896	-12.6	3	16	(10)	485	-4.2
Nebraska.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nevada.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Hampshire.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Jersey.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Mexico.....	14	2,094	+3.5	33,940	+8.0	5	46	-9.8	1,197	-21.8
New York.....	.....	.....	.....	.....	.....	6	185	-2.6	4,520	-2.8
North Carolina.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ohio.....	61	10,211	+8.6	140,468	+2.3	6	45	+2.3	641	-3.5
Oklahoma.....	17	615	-14.8	9,093	-31.1	60	4,336	-2.4	103,697	-5.2
Oregon.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pennsylvania.....	381	50,861	+2	584,777	-4.2	20	617	+10.8	15,077	+12.4
Rhode Island.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Carolina.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tennessee.....	17	2,628	-5	27,291	+3.9	.....	.....	.....	.....	.....
Texas.....	.....	.....	.....	.....	.....	3	7,120	+2	246,291	+1.2
Utah.....	15	2,138	+4.7	59,733	+22.5	.....	.....	.....	.....	.....
Vermont.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Virginia.....	32	8,257	-2.9	116,988	+4	.....	.....	.....	.....	.....
Washington.....	10	1,372	+2	28,585	-15.2	.....	.....	.....	.....	.....
West Virginia.....	259	36,895	-9	493,129	-1.7	7	321	+3	7,564	+7
Wisconsin.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wyoming.....	32	3,600	-(11)	73,374	-12.1	6	59	-3.3	2,068	-10.5

<sup>10</sup> No change.

<sup>11</sup> Less than one-tenth of 1 per cent.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN DECEMBER, 1932, AND JANUARY, 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 January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change	Number of establishments	Number on pay roll January, 1933	Per cent of change	Amount of pay roll (1 week), January, 1933	Per cent of change
Alabama.....	123	1,984	+3.8	\$40,218	+3.7	24	1,111	-1.7	\$9,470	-1.8
Arizona.....	67	1,217	+ .8	30,429	-2.2	13	430	+29.9	6,072	+24.3
Arkansas.....	51	1,087	+ .2	25,844	-2.7	15	732	+4.1	7,462	-1.5
California.....	46	46,419	-1.0	1,235,057	-2.2	199	9,369	+1.3	147,695	+ .2
Colorado.....	196	5,299	- .6	133,689	-3.5	31	1,103	-5.8	15,325	-6.5
Connecticut.....	145	9,828	- .6	294,495	-3.5	30	1,097	-2.6	13,916	-5.0
Delaware.....	28	1,083	- .7	29,690	-6.4	6	249	- .8	2,955	- .2
District of Columbia.....	22	8,297	+ .1	239,636	+ .3	54	3,695	+ .8	55,540	-2.5
Florida.....	186	4,223	+1.1	108,611	- .9	65	2,694	+166.2	33,239	+206.0
Georgia.....	186	6,744	+ (11)	183,245	+ .9	35	1,716	+17.5	15,426	+25.7
Idaho.....	56	658	- .9	12,713	-8.0	15	222	- .9	2,974	-7.9
Illinois.....	65	66,418	- .5	1,795,279	- .8	12 44	7,943	- .7	121,891	-2.8
Indiana.....	147	9,562	-1.2	234,571	+1.8	57	2,409	- .8	26,075	-2.2
Iowa.....	431	9,490	-2.1	218,979	+ .3	50	2,138	+6.6	19,137	-4.6
Kansas.....	24	6,709	-2.9	153,408	-1.7	29	670	-6.8	6,942	-6.6
Kentucky.....	298	6,792	- .1	157,315	-2.9	35	1,526	-3.2	15,998	-3.9
Louisiana.....	154	4,335	+1.0	97,530	+2.9	23	1,823	-1.7	19,644	- .5
Maine.....	169	2,793	-1.3	74,449	-4.4	20	685	+2.2	8,721	-1.9
Maryland.....	88	12,462	- .7	355,893	- .2	26	1,387	-4.9	18,253	-4.2
Massachusetts.....	12 139	45,191	-1.1	1,251,225	-4.8	85	5,422	-1.6	52,032	-2.0
Michigan.....	385	16,623	- .8	479,281	-5.6	62	3,811	-1.3	47,623	-5.2
Minnesota.....	230	12,109	-3.8	325,805	+ .1	54	2,708	-2.1	33,674	-6.2
Mississippi.....	213	2,100	+9.7	38,755	+5.6	20	570	+14.2	4,963	+21.9
Missouri.....	221	21,164	- .8	565,905	-1.2	69	4,106	+1.3	48,939	-2.3
Montana.....	102	1,807	+ .3	50,527	-3.6	17	247	+4.7	3,583	+1.7
Nebraska.....	302	5,609	-2.9	145,891	- .9	33	1,460	-4.5	16,146	-4.3
Nevada.....	39	323	-20.0	9,108	-14.6	9	122	-3.2	2,010	-8.7
New Hampshire.....	143	2,055	- .6	56,150	-6.9	13	228	-2.6	2,627	-9.7
New Jersey.....	280	22,228	-1.2	652,937	-2.3	73	4,137	+6.5	51,012	+ .2
New Mexico.....	55	516	-6.0	11,931	- .4	12	272	-3.5	2,846	-3.6
New York.....	907	103,982	- .4	3,153,616	-2.9	269	30,355	-1.6	481,589	-3.0
North Carolina.....	92	1,736	+ .9	33,749	- .4	37	1,275	-3.8	11,844	- .5
North Dakota.....	171	1,205	-7.0	29,374	-17.9	17	321	+2.9	3,274	-4.5
Ohio.....	498	32,417	-1.2	860,080	+2.9	152	8,785	- .1	108,435	-4.4
Oklahoma.....	246	5,963	- .8	132,500	- .6	34	748	+1.6	6,924	+1.0
Oregon.....	186	5,702	- .3	144,664	+ .2	37	966	-2.0	12,807	-3.9
Pennsylvania.....	687	58,640	+ .2	1,692,335	- .8	177	9,240	-2.7	114,721	-7.1
Rhode Island.....	36	3,365	+ .1	94,073	-3.8	14	458	-5.7	3,224	-8.7
South Carolina.....	71	1,584	-3.1	34,794	+3.1	20	249	+23.7	3,732	+25.6
South Dakota.....	129	932	-3.2	24,336	-6.1	13	276	-3.2	3,268	-4.4
Tennessee.....	251	4,609	-1.7	101,517	+ .1	40	2,234	+ .4	19,369	-3.3
Texas.....	155	6,164	-4.4	168,916	-3.2	48	2,911	-1.8	35,673	- .2
Utah.....	68	1,707	+1.7	35,316	-2.4	10	447	-2.2	5,862	+3.8
Vermont.....	120	1,024	-1.8	24,386	-3.4	21	384	-4.7	3,890	-7.4
Virginia.....	179	5,662	-1.4	149,065	+ .9	32	1,489	-7.6	16,688	-9.7
Washington.....	205	9,768	+ .2	252,750	-1.3	57	1,854	- .1	21,354	-3.4
West Virginia.....	133	5,786	-5.1	152,248	-2.1	41	1,095	-1.2	11,943	-3.4
Wisconsin.....	14 42	10,578	-1.5	280,890	-4.1	12 44	1,168	+ .7	-----	-----
Wyoming.....	48	415	-4.2	9,377	-11.5	11	142	-2.7	2,085	-2.3

<sup>11</sup> Less than one-tenth of 1 per cent.

<sup>12</sup> Includes restaurants.

<sup>13</sup> Includes steam railroads.

<sup>14</sup> Includes railways and express.

<sup>15</sup> Data not supplied.

COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS  
IN DECEMBER, 1932, AND JANUARY, 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 January, 1933	Per cent of change	Amount of pay roll (1 week) January, 1933	Per cent of change	Number of establishments	Number on pay roll January, 1933	Per cent of change	Amount of pay roll (1 week) January, 1933	Per cent of change
Alabama.....	5	457	-2	\$3,590	-14.0	4	150	-15.7	\$1,446	-18.8
Arizona.....	9	394	-8	5,624	-2.1					
Arkansas.....	17	481	-1.1	3,902	-8	3	36	(10)	385	-5.9
California.....	16 73	5,470	-1.7	99,142	-1.1					
Colorado.....	7	438	-2	6,042	-1	10	120	-8	2,058	-5
Connecticut.....	26	1,302	+3.1	20,464	-6	12	259	-5.8	4,973	-6.0
Delaware.....	4	308	+1.0	4,549	+1.4	3	38	-7.3	600	-7.6
District of Columbia.....	15	2,219	+2	34,788	-1.2	5	102	+6.3	1,947	+2.7
Florida.....	7	335	+5.7	3,256	+9.7					
Georgia.....	11	595	+7	5,325	-1.9	5	106	-11.7	1,177	-7.7
Idaho.....										
Illinois.....	16 26	1,684	+5.8	23,195	-2.2					
Indiana.....	15	1,219	-9	15,157	-2.1	10	160	-1.8	2,395	-7
Iowa.....	3	205	-3.3	3,031	+1.4					
Kansas.....	16 39	975	-15.8	11,403	-3.2					
Kentucky.....	10	465	+1.3	5,799	+4.2	5	221	+1.8	3,180	+8
Louisiana.....										
Maine.....	17	310	-6	4,060	-2.6					
Maryland.....	24	1,595	-2	24,604	+8	10	396	-2.5	4,814	-3.2
Massachusetts.....	103	3,364	-2.1	53,218	-5.1	76	1,573	-2.8	25,692	-3.5
Michigan.....	24	1,633	+1.3	20,175	-2.2	15	497	-2.0	8,026	-2.1
Minnesota.....	11	590	+3	9,356	-1.0	11	298	-4.5	4,705	-6.6
Mississippi.....	5	212	+2.4	1,672	-9					
Missouri.....	28	1,944	-1.4	26,756	-2.9	11	353	-3.8	5,482	-5.8
Montana.....	10	254	-8	4,617	-2.4	3	21	(10)	410	-7
Nebraska.....	6	365	-9.7	4,927	-11.5	5	130	+4.0	2,090	-28.7
Nevada.....	4	51	+2.0	1,018	+8					
New Hampshire.....	15	300	-3.5	4,474	-5.1					
New Jersey.....	24	2,887	+1	57,279	-2	8	232	-4.1	5,523	-4.9
New Mexico.....	4	209	-3.2	3,011	-7.4					
New York.....	71	6,860	+2	115,552	-1.4	16	434	-2.5	7,900	-2.1
North Carolina.....	9	555	+7	5,662	-2					
North Dakota.....	8	172	-1.1	2,877	-3.0					
Ohio.....	76	4,118	+2	61,132	-8	45	1,474	-3.2	23,878	+2.9
Oklahoma.....	5	354	+2.0	4,188	-3.1	3	146	(10)	1,749	-3.0
Oregon.....	4	307	-1.3	4,545	-2.3	4	47	-4.1	863	-8.6
Pennsylvania.....	40	2,969	-2.0	44,044	-2.8	25	1,091	-1.6	17,677	-1.8
Rhode Island.....	19	1,064	-1.5	17,633	-1.7	5	252	-2.7	4,449	-4.5
South Carolina.....	6	182	+1.7	1,688	+3					
South Dakota.....	7	130	-1.5	1,656	-4.4					
Tennessee.....	10	690	-6	6,022	+1.3	3	28	+3.7	303	-14.6
Texas.....	17	825	-8.7	9,160	-8.4	14	327	-1.5	4,896	-3
Utah.....	6	435	-1.0	6,822	-1.9	8	124	-4.6	2,019	-6.8
Vermont.....	5	66	-4.3	776	-9					
Virginia.....	10	617	-1.4	6,639	-7	22	281	-4.7	3,791	-11.3
Washington.....	12	591	+3	10,979	+1	13	175	-3.3	2,557	-9.3
West Virginia.....	18	586	+2.8	9,104	+21.6	9	191	+1.6	2,473	-1.0
Wisconsin.....	16 28	948	-2.0	12,154	-1.2					
Wyoming.....	3	67	-2.9	1,144	-6.4					

<sup>10</sup> No change.<sup>10</sup> Includes dyeing and cleaning.

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

IN THE following table are presented the fluctuations in employment and pay-roll totals in January, 1933, as compared with December, 1932, 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 JANUARY, 1933, AS COMPARED WITH DECEMBER, 1932

Cities	Number of establishments reporting in both months	Number on pay roll		Per cent of change	Amount of pay roll (1 week)		Per cent of change
		December, 1932	January, 1933		December, 1932	January, 1933	
New York City.....	4, 368	321, 778	302, 410	-6.0	\$8, 525, 878	\$8, 047, 508	-5.6
Chicago, Ill.....	1, 813	187, 966	185, 985	-1.1	4, 359, 918	4, 312, 202	-1.1
Philadelphia, Pa.....	782	125, 543	121, 299	-3.4	2, 734, 695	2, 592, 246	-5.2
Detroit, Mich.....	693	158, 342	164, 531	+3.9	3, 319, 443	3, 335, 649	+1.5
Los Angeles, Calif.....	683	62, 078	57, 589	-8.1	1, 422, 106	1, 350, 740	-4.6
Cleveland, Ohio.....	1, 029	83, 157	77, 037	-7.4	1, 650, 542	1, 560, 752	-5.4
St. Louis, Mo.....	457	61, 829	60, 944	-1.4	1, 278, 577	1, 267, 704	-.9
Baltimore, Md.....	557	46, 914	42, 574	-9.3	911, 242	834, 700	-8.4
Boston, Mass.....	2, 945	84, 317	79, 576	-5.6	2, 022, 000	1, 881, 692	-6.9
Pittsburgh, Pa.....	351	47, 461	43, 610	-9.4	885, 645	810, 945	-8.4
San Francisco, Calif.....	1, 150	45, 901	43, 862	-4.4	1, 112, 301	1, 079, 361	-3.0
Buffalo, N. Y.....	333	37, 625	36, 705	-2.4	837, 696	814, 569	-2.8
Milwaukee, Wis.....	442	31, 779	29, 183	-8.2	619, 706	559, 535	-9.7

## Wage-Rate Changes in American Industries

### Manufacturing Industries

IN THE following table is presented information concerning wage-rate adjustments occurring between December 15, 1932, and January 15, 1933, as shown by reports received from manufacturing establishments supplying employment data to this bureau. Of the 17,762 manufacturing establishments included in the January survey, 17,164 establishments, or 96.6 per cent of the total, reported no change in wage rates over the month interval. The 2,499,480 employees not affected by changes in wage rates constituted 97.7 per cent of the total number of employees covered by the January trend-of-employment survey of manufacturing industries.

Decreases in wage rates were reported by 595 establishments in 75 of the 89 industries surveyed. These establishments represented 3.3 per cent of the total number of establishments covered. The wage-rate decreases reported averaged 11.4 per cent and affected 58,038 employees, or 2.3 per cent of all employees in the establishments reporting.

Three establishments in one industry reported wage-rate increases in January, averaging 14.2 per cent, and affecting 319 employees.

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING JANUARY 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.....	17,762	2,557,837	17,164	3	595	2,499,480	319	58,038
Per cent of total.....	100.0	100.0	96.6	(1)	3.3	97.7	(1)	2.3
<b>Food and kindred products:</b>								
Baking.....	962	61,981	931	—	31	60,202	—	1,779
Beverages.....	321	8,756	320	—	1	8,753	—	3
Butter.....	294	4,994	290	—	4	4,883	—	111
Confectionery.....	320	34,270	308	—	12	31,762	—	2,508
Flour.....	427	15,952	409	—	18	15,484	—	468
Ice cream.....	360	10,240	339	—	21	9,600	—	640
Slaughtering and meat pack- ing.....	234	82,979	227	—	7	82,430	—	549
Sugar, beet.....	57	9,622	57	—	—	9,622	—	—
Sugar refining, cane.....	14	7,160	14	—	—	7,160	—	—
<b>Textiles and their products:</b>								
Fabrics—								
Carpets and rugs.....	31	13,300	29	—	2	12,167	—	1,133
Cotton goods.....	669	229,251	655	3	11	225,586	319	3,346
Cotton small wares.....	111	8,843	101	—	10	8,621	—	322
Dyeing and finishing tex- tiles.....	146	33,598	138	—	8	32,432	—	1,166
Knit goods.....	436	98,137	421	—	15	93,500	—	4,637
Silk and rayon goods.....	241	44,445	238	—	3	44,229	—	216
Woolen and worsted goods.....	250	56,054	241	—	9	54,999	—	1,055
<b>Wearing apparel—</b>								
Clothing—								
Men's.....	359	53,676	348	—	11	52,959	—	717
Women's.....	420	24,479	413	—	7	23,631	—	848
Corsets and allied gar- ments.....	31	5,447	29	—	2	5,063	—	384
Hats, fur-felt.....	34	4,841	33	—	1	4,704	—	77
Men's furnishings.....	68	6,927	66	—	2	6,875	—	52
Millinery.....	134	9,041	132	—	2	8,842	—	99
Shirts and collars.....	111	13,562	110	—	1	13,351	—	211
<b>Iron and steel and their products, not including machinery:</b>								
Bolts, nuts, washers, and rivets.....	65	7,174	54	—	11	5,257	—	1,917
Cast-iron pipe.....	37	5,049	37	—	—	5,049	—	—
Cutlery (not including silver and plated cutlery) and edge tools.....	124	7,785	120	—	4	7,549	—	236
Forgings—iron and steel.....	60	4,938	58	—	2	4,920	—	18
Hardware.....	102	20,125	99	—	3	19,783	—	342
Iron and steel.....	208	166,759	205	—	3	166,501	—	258
Plumbers' supplies.....	64	4,793	57	—	7	4,227	—	566
Steam and hot-water heating apparatus and steam fit- tings.....	93	11,938	84	—	9	10,591	—	1,347
Stoves.....	163	12,387	152	—	11	11,630	—	757
Structural and ornamental metal work.....	188	12,206	172	—	16	11,164	—	1,042
Tin cans and other tinware.....	60	8,026	60	—	—	8,026	—	—
Tools (not including edge tools, machine tools, files, and saws).....	126	5,829	125	—	1	5,817	—	12
Wirework.....	65	4,549	63	—	2	4,490	—	59
<b>Machinery, not including trans- portation equipment:</b>								
Agricultural implements.....	77	6,844	76	—	1	6,806	—	38
Cash registers, adding ma- chines, and calculating machines.....	39	12,434	38	—	1	12,244	—	190
Electrical machinery, appa- ratus, and supplies.....	299	99,239	291	—	8	98,367	—	872
Engines, turbines, tractors, and water wheels.....	87	14,686	84	—	3	14,454	—	232
Foundry and machine-shop products.....	1,041	91,691	1,001	—	40	89,065	—	2,626
Machine tools.....	145	10,949	139	—	6	10,674	—	275
Radios and phonographs.....	40	14,951	39	—	1	14,813	—	138
Textile machinery and parts.....	43	6,625	42	—	1	6,623	—	2
Typewriters and supplies.....	16	8,843	15	—	1	8,500	—	343

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

TABLE 1.—WAGE CHANGES IN **MANUFACTURING** INDUSTRIES DURING MONTH ENDING JANUARY 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, 738	23	1		4, 684		54
Brass, bronze, and copper products.....	206	26, 820	196	10		26, 401		419
Clocks and watches and time-recording devices.....	24	5, 436	23	1		5, 407		29
Jewelry.....	145	6, 717	137	8		6, 354		363
Lighting equipment.....	54	4, 588	48	6		4, 228		360
Silverware and plated ware.....	53	6, 847	39	14		4, 502		2, 345
Smelting and refining—copper, lead, and zinc.....	29	7, 753	27	2		7, 570		183
Stamped and enameled ware.....	87	11, 652	77	10		9, 955		1, 697
Transportation equipment:								
Aircraft.....	26	5, 417	26			5, 417		
Automobiles.....	246	199, 317	240	6		196, 474		2, 843
Cars, electric and steam railroad.....	41	4, 971	40	1		4, 946		25
Locomotives.....	10	1, 905	10			1, 905		
Shipbuilding.....	93	24, 629	92	1		24, 613		16
Railroad repair shops:								
Electric railroad.....	397	20, 677	392	5		20, 582		95
Steam railroad.....	527	76, 878	527			76, 878		
Lumber and allied products:								
Furniture.....	436	38, 401	420	16		37, 217		1, 184
Lumber—								
Millwork.....	458	15, 099	430	28		14, 450		649
Sawmills.....	593	51, 772	567	26		50, 078		1, 694
Turpentine and rosin.....	19	863	19			863		
Stone, clay, and glass products:								
Brick, tile, and terra cotta.....	653	12, 735	644	9		12, 324		411
Cement.....	115	9, 808	115			9, 808		
Glass.....	190	30, 934	187	3		30, 716		218
Marble, granite, slate, and other products.....	208	3, 648	203	5		3, 330		318
Pottery.....	115	12, 143	113	2		12, 039		104
Leather and its manufactures:								
Boots and shoes.....	320	100, 871	312	8		99, 624		1, 247
Leather.....	160	24, 167	153	7		22, 232		1, 935
Paper and printing:								
Boxes, paper.....	302	18, 373	291	11		18, 089		284
Paper and pulp.....	404	76, 073	393	11		74, 018		2, 055
Printing and publishing—								
Book and job.....	752	47, 612	733	19		46, 966		646
Newspapers and periodicals.....	467	69, 001	443	24		66, 560		2, 441
Chemicals and allied products:								
Chemicals.....	121	20, 702	120	1		20, 680		22
Cottonseed oil, cake, and meal.....	53	1, 969	52	1		1, 919		50
Druggists' preparations.....	39	6, 849	38	1		6, 825		24
Explosives.....	25	3, 043	25			3, 043		
Fertilizers.....	205	7, 048	196	9		6, 784		264
Paints and varnishes.....	357	13, 394	335	22		12, 814		580
Petroleum refining.....	130	51, 262	130			51, 262		
Rayon and allied products.....	23	29, 197	23			29, 197		
Soap.....	86	12, 486	86			12, 486		
Rubber products:								
Rubber boots and shoes.....	9	9, 806	9			9, 806		
Rubber goods, other than boots, shoes, tires, and inner tubes.....	103	19, 120	99	4		18, 327		793
Rubber tires and inner tubes.....	45	41, 767	44	1		40, 520		1, 247
Tobacco manufactures:								
Chewing and smoking tobacco and snuff.....	33	10, 070	32	1		9, 680		390
Cigars and cigarettes.....	207	35, 904	195	12		34, 442		1, 462



## Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between December 15, 1932, and January 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, one or more establishments reported decreases in wage rates over the month interval. The average per cent of decrease in rates in each of the several groups follows: Electric-railroad and motor-bus operation and maintenance, 8.2 per cent; laundries, 10 per cent; power and light, 10.1 per cent; hotels, 11 per cent; dyeing and cleaning, 11.2 per cent; canning and preserving, 11.3 per cent; metalliferous mining and telephone and telegraph, 11.4 per cent each; retail trade, 12.1 per cent; bituminous coal mining, 13.2 per cent; wholesale trade, 13.3 per cent; crude petroleum, 14.2 per cent; and quarrying and nonmetallic mining, 14.6 per cent. One increase, averaging 11 per cent, was reported in hotels over the month interval.

TABLE 2.—WAGE CHANGES IN **NONMANUFACTURING** INDUSTRIES DURING MONTH ENDING JANUARY 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	71,822	160	—	—	71,822	—	—
Per cent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Bituminous coal mining.....	1,238	173,010	1,203	—	35	165,400	—	7,610
Per cent of total.....	100.0	100.0	97.2	—	2.8	95.6	—	4.4
Metalliferous mining.....	279	22,364	275	—	4	21,537	—	827
Per cent of total.....	100.0	100.0	98.6	—	1.4	96.3	—	3.7
Quarrying and nonmetallic mining.....	592	15,419	579	—	13	15,048	—	371
Per cent of total.....	100.0	100.0	97.8	—	2.2	97.6	—	2.4
Crude petroleum producing.....	262	23,359	260	—	2	23,311	—	48
Per cent of total.....	100.0	100.0	99.2	—	.8	99.8	—	.2
Telephone and telegraph.....	8,274	266,129	8,224	—	50	265,775	—	354
Per cent of total.....	100.0	100.0	99.4	—	.6	99.9	—	.1
Power and light.....	3,508	208,066	3,454	—	54	205,013	—	3,053
Per cent of total.....	100.0	100.0	98.5	—	1.5	98.5	—	1.5
Electric railroad and motor-bus operation and maintenance.....	505	131,235	499	—	6	130,818	—	417
Per cent of total.....	100.0	100.0	98.8	—	1.2	99.7	—	.3
Wholesale trade.....	2,734	69,612	2,664	—	70	68,297	—	1,315
Per cent of total.....	100.0	100.0	97.4	—	2.6	98.1	—	1.9
Retail trade.....	16,411	332,297	16,107	—	304	328,029	—	4,268
Per cent of total.....	100.0	100.0	98.1	—	1.9	98.7	—	1.3
Hotels.....	2,402	130,945	2,362	1	39	127,577	9	3,350
Per cent of total.....	100.0	100.0	98.3	(1)	1.6	97.4	(1)	2.6
Canning and preserving.....	829	30,251	788	—	41	29,477	—	774
Per cent of total.....	100.0	100.0	95.1	—	4.9	97.4	—	2.6
Laundries.....	908	52,918	897	—	11	52,413	—	505
Per cent of total.....	100.0	100.0	98.8	—	1.2	99.0	—	1.0
Dyeing and cleaning.....	374	10,525	369	—	5	10,491	—	34
Per cent of total.....	100.0	100.0	98.7	—	1.3	99.7	—	.3

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

