

UNITED STATES DEPARTMENT OF LABOR

W. N. DOAK, Secretary

BUREAU OF LABOR STATISTICS

CHARLES E. BALDWIN, Acting Commissioner

TREND OF EMPLOYMENT

OCTOBER, 1932



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UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1932

TREND OF EMPLOYMENT

Summary for October, 1932

EMPLOYMENT increased 1.1 per cent in October, 1932, as compared with September, 1932, and pay-roll totals increased 3.8 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 roll for one week, for both September and October, 1932, together with the per cents of change in October are shown in the following tabulation:

SUMMARY OF EMPLOYMENT AND EARNINGS, SEPTEMBER AND OCTOBER, 1932

Industrial groups	Estab- lish- ments	Employment		Per cent of change	Earnings in 1 week		Per cent of change
		Septem- ber, 1932	October, 1932		Septem- ber, 1932	October, 1932	
Manufacturing	18, 211	2, 632, 768	2, 696, 577	+2.4	\$44, 790, 253	\$46, 968, 251	+4.7
Coal mining	1, 303	232, 218	254, 869	+9.7	3, 878, 587	5, 167, 352	+33.2
Anthracite.....	160	76, 361	87, 359	+14.4	1, 868, 237	2, 652, 835	+42.0
Bituminous.....	1, 143	155, 857	167, 450	+7.4	2, 010, 350	2, 514, 517	+25.1
Metalliferous mining	287	20, 352	21, 236	+4.3	382, 438	404, 721	+5.8
Quarrying and nonmetallic mining	620	23, 672	23, 098	-1.1	362, 231	357, 693	-1.3
Crude petroleum producing	284	25, 944	23, 218	-11.2	650, 304	658, 562	+1.3
Public utilities	12, 311	627, 809	618, 596	-1.5	17, 136, 818	17, 037, 432	-.6
Telephone and telegraph.....	8, 282	274, 217	270, 117	-1.5	7, 217, 002	7, 202, 542	-.2
Power and light.....	3, 528	216, 867	214, 057	-1.3	6, 273, 003	6, 247, 291	-.4
Electric-railroad and motor- bus operation and main- tenance.....	501	136, 725	134, 422	-1.7	3, 646, 813	3, 587, 599	-1.6
Trade	16, 799	399, 169	414, 798	+3.9	8, 459, 917	8, 741, 184	+3.3
Wholesale.....	2, 664	69, 056	69, 667	+0.9	1, 850, 106	1, 872, 254	+1.2
Retail.....	14, 135	330, 113	345, 131	+4.5	6, 609, 811	6, 868, 910	+3.9
Hotels	2, 557	158, 765	135, 846	-14.4	1, 866, 594	1, 851, 301	-.8
Canning and preserving	939	87, 898	54, 898	-37.5	941, 928	650, 293	-31.0
Laundries	1, 617	61, 515	60, 661	-1.4	858, 494	932, 458	+8.6
Dyeing and cleaning	382	12, 238	12, 098	-1.2	226, 637	218, 519	-3.6
Building construction	10, 397	84, 854	85, 300	+0.5	2, 145, 665	2, 088, 348	-2.7
Banks, brokerage, insurance, and real estate	2, 881	113, 131	112, 730	-.4	4, 063, 674	4, 049, 746	-.3
Total	67, 988	4, 456, 723	4, 565, 857	+2.5	85, 863, 540	89, 125, 870	+3.8

¹ 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.

² The amount of pay roll given represents cash payments only; the additional value of board, room, and tips can not be computed.

An additional group covering employees in banks, brokerage, insurance, and real-estate offices has been added to the bureau's monthly employment survey, and data concerning this group are presented for the first time in the foregoing summary table.

Data are not yet available concerning railroad employment for October, 1932. (See section "Class I steam railroads" for latest figures reported.)

Per capita weekly earnings in October, 1932, 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 October, 1932, as compared with September, 1932, and October, 1931, 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 OCTOBER, 1932, AND COMPARISON WITH SEPTEMBER, 1932, AND OCTOBER, 1931

Industrial group	Per capita weekly earnings in October, 1932	Per cent of change October, 1932, compared with—	
		September, 1932	October, 1931
Manufacturing.....	\$17.48	+2.3	-17.1
Coal mining:			
Anthracite.....	30.37	+24.1	-.6
Bituminous.....	15.02	+16.4	-18.4
Metalliferous mining.....	19.06	+1.4	-15.1
Quarrying and nonmetallic mining.....	15.49	-1.3	-24.0
Crude petroleum producing.....	28.36	+1	-17.0
Public utilities:			
Telephone and telegraph.....	26.66	+1.3	-8.8
Power and light.....	29.19	+9	-7.4
Electric-railroad and motor-bus operation and maintenance.....	26.69	+1	-12.4
Trade:			
Wholesale.....	26.87	+3	-12.5
Retail trade.....	19.90	-.6	-12.4
Hotels (cash payments only) ¹	13.63	+1.3	-14.8
Canning and preserving.....	11.43	+6.6	-11.0
Laundries.....	15.37	-1.3	-14.9
Dyeing and cleaning.....	18.07	-2.4	-17.4
Building construction.....	24.48	-3.2	(?)
Banks, brokerage, insurance, and real estate.....	35.92	(?)	(?)
Total.....	19.26	+3.0	-14.1

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

² Data not available.

³ No change.

⁴ Does not include building construction or banks, etc.

Employment in Selected Manufacturing Industries in October, 1932

Comparison of Employment and Pay-Roll Totals in October, 1932, with September, 1932, and October, 1931

EMPLOYMENT in manufacturing industries increased 2.4 per cent in October, 1932, as compared with September, 1932, and pay-roll totals increased 4.7 per cent over the month interval. Comparing October, 1932, with October, 1931, decreases of 13.1 per cent in employment and 27.8 per cent in pay rolls are shown over the 12-month period.

The per cents of change in employment and pay-roll totals in October, 1932, as compared with September, 1932, are based on returns made by 18,211 establishments in 89 of the principal manufacturing industries in the United States, having in October 2,686,577 employees whose earnings in one week were \$46,968,281.

The index of employment in October, 1932, was 59.9 as compared with 58.5 in September, 1932, 56.0 in August, 1932, and 68.9 in

October, 1931; the pay-roll index in October, 1932, was 39.9 as compared with 38.1 in September, 1932, 36.3 in August, 1932, and 55.3 in October, 1931. The 12-month average for 1926 equals 100.

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

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 earnings 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 SEPTEMBER AND OCTOBER, 1932, AND OCTOBER, 1931

Industry	Es- tab- lish- ments report- ing in both Sep- tem- ber and Octo- ber, 1932	Employment			Pay-roll totals			Index num- bers October, 1932 (average 1926=100)	
		Number on pay roll Oc- tober, 1932	Per cent of change		Amount of pay roll (1 week) October, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			Sep- tem- ber, 1931, to Octo- ber, 1932	Octo- ber, 1931, to Octo- ber, 1932		Sep- tem- ber, 1931, to Octo- ber, 1932	Octo- ber, 1931, to Octo- ber, 1932		
Food and kindred products.	3,979	264,149	+4.2	-4.3	\$5,393,013	+1.5	-17.5	87.1	69.7
Slaughtering and meat packing.....	234	87,510	+7	-1.5	1,805,402	(1)	-16.6	87.7	70.8
Confectionery.....	325	43,294	+9.4	+4.6	626,842	+6.4	-11.8	97.3	73.6
Ice cream.....	391	11,320	-10.5	-10.7	301,235	-10.6	-23.4	68.5	55.0
Flour.....	437	16,255	+1	-4.3	364,558	+4.9	-13.9	84.7	72.3
Baking.....	972	63,343	+5	-10.2	1,423,888	-4	-19.5	80.9	68.5
Sugar refining, cane.....	15	8,268	+5	-2.5	200,000	-5.6	-14.2	77.8	64.7
Beet sugar.....	57	18,012	+241.7	+20.2	297,231	+154.6	-3.2	213.9	125.7
Beverages.....	332	10,400	-5.7	-13.5	247,267	-10.9	-26.6	72.6	55.2
Butter.....	316	5,747	-4.9	-8.2	126,590	-5.9	-17.9	96.8	78.5
Textiles and their products.	3,063	648,623	+5.1	-2.2	8,990,715	+5.3	-16.9	74.7	52.1
Cotton goods.....	694	239,434	+5.5	+2.4	2,654,146	+6.7	-10.8	75.9	53.6
Hosiery and knit goods.....	458	109,616	+7.3	+2.7	1,602,868	+14.3	-5.5	86.8	66.7
Silk goods.....	244	48,488	+6.1	-11.1	662,473	+8.8	-28.0	64.9	44.9
Woolen and worsted goods.....	252	58,643	+1.0	+12.1	958,477	+6	-2.4	76.9	56.7
Carpets and rugs.....	29	14,048	+14.7	-22.0	236,018	+36.8	-32.0	54.2	34.6
Dyeing and finishing tex- tiles.....	149	34,051	+1	-6.0	640,236	-4.0	-18.8	77.9	57.6
Clothing, men's.....	370	63,185	+3.8	-7.9	939,745	+2.3	-19.9	70.9	43.9
Shirts and collars.....	115	16,288	+11.2	-15.9	176,668	+21.2	-26.3	63.8	42.0
Clothing, women's.....	385	27,166	+5.7	-12.0	510,058	+5.6	-28.6	70.6	48.1
Millinery.....	131	10,085	+1.3	+2.0	161,657	-15.9	-16.8	76.7	49.9
Corsets and allied garments.....	30	5,590	+5.0	-2.2	90,143	+21.0	-6.7	101.0	85.6
Cotton small wares.....	112	9,489	+10.9	-6.4	151,449	+15.9	-18.3	81.0	61.5
Hats, fur-felt.....	38	6,110	-4	-5.5	126,989	-9.4	+1.2	74.1	51.7
Men's furnishings.....	76	6,430	+14.4	-10.5	79,788	+20.6	-33.6	68.8	45.4

¹ Less than one-tenth of 1 per cent.

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN SEPTEMBER AND OCTOBER, 1932, AND OCTOBER, 1931—Con.

Industry	Es- tab- lish- ments report- ing in both Sep- tem- ber and October, 1932	Employment			Pay-roll totals				Index num- bers October, 1932 (average 1926=100)	
		Number on pay roll Oc- tober, 1932	Per cent of change		Amount of pay roll (1 week) October, 1932	Per cent of change			Em- ploy- ment	Pay- roll totals
			Sep- tem- ber to October, 1932	Oc- tober, 1931, to October, 1932		Sep- tem- ber to October, 1932	Oc- tober, 1931, to October, 1932			
Iron and steel and their products, not including machinery	1,399	297,467	+2.5	-19.4	\$4,373,977	+8.9	-38.7		53.1	26.6
Iron and steel	209	175,105	+3.3	-16.5	2,310,501	+13.5	-39.4		53.0	23.2
Cast-iron pipe	42	5,749	+5.3	-42.1	70,354	-6.2	-59.4		29.6	14.9
Structural and ornamental ironwork	190	14,375	-3.5	-37.2	252,634	-1.2	-51.8		41.2	23.6
Hardware	110	20,845	+2.1	-20.4	275,807	+7.2	-42.4		49.2	24.3
Steam fittings and steam and hot-water heating apparatus	97	14,103	+5.2	-30.1	267,237	+15.6	-38.4		37.3	23.6
Stoves	162	17,571	+7.2	-13.8	347,235	+17.6	-23.6		55.4	37.2
Bolts, nuts, washers, and rivets	69	8,406	+2.1	-14.8	124,945	+13.8	-33.6		62.3	33.6
Cutlery (not including silver and plated cutlery) and edge tools	128	9,023	+1.3	-12.0	166,640	+12.0	-23.8		64.4	43.8
Forgings, iron and steel	61	5,416	+10.7	-19.7	73,201	+18.0	-43.4		55.2	25.9
Plumbers' supplies	70	5,935	+1.9	-31.7	96,993	+4.6	-61.8		51.2	28.7
Tin cans and other tinware	59	9,088	-5.4	-4	180,925	-9.5	-7.2		76.8	47.4
Tools (not including edge tools, machine tools, files, or saws)	132	6,796	+2.1	-27.4	111,913	+8.3	-39.4		60.2	35.1
Wirework	70	5,055	-1.3	-14.0	89,692	+1.8	-29.1		91.5	64.4
Lumber and allied products	1,616	127,356	+3.4	-21.5	\$1,696,024	+8.7	-41.0		39.0	22.2
Lumber, sawmill	643	61,721	+2.5	-21.0	722,481	+5.5	-42.5		36.1	19.1
Lumber, millwork	469	18,230	-7	-28.7	266,004	+2	-45.1		34.2	20.1
Furniture	483	46,355	+6.8	-21.3	693,013	+11.6	-38.0		48.4	28.7
Turpentine and rosin	21	1,050	+7.5	-7.9	14,526	+7.3	-22.2		45.2	37.6
Leather and its manufac- ture	512	138,324	+1.4	-3	2,219,727	+8	-2.7		78.1	53.1
Leather	163	24,289	+4.3	-6.3	469,244	+7.7	-15.5		69.9	55.4
Boots and shoes	349	114,035	+7	+1.1	1,750,483	-9	+1.9		80.1	52.5
Paper and printing	1,944	220,144	+1.8	-9.9	5,614,154	+2.6	-21.4		80.2	66.7
Paper and pulp	406	78,871	+1.5	-5.5	1,470,560	+5.3	-20.5		75.2	52.0
Paper boxes	310	20,833	+5.5	-13.1	386,569	+8.2	-22.9		73.6	63.8
Printing, book and job	759	49,145	+1.2	-14.9	1,333,026	+1.5	-25.4		72.6	59.5
Printing, newspapers and periodicals	469	71,295	+1.2	-7.3	2,423,999	+8	-18.7		97.4	85.4
Chemicals and allied prod- ucts	1,017	137,750	+2.9	-9.1	3,064,678	+2.4	-22.9		75.5	60.9
Chemicals	114	20,359	+2.9	-11.7	489,403	+5.5	-25.0		84.7	61.7
Fertilizers	200	5,962	+6.3	-8.0	74,153	+1.6	-27.1		45.1	30.1
Petroleum refining	114	43,049	-2.4	-10.2	1,160,290	-4.5	-21.6		61.8	52.2
Cottonseed oil, cake, and meal	50	2,907	+16.9	+33.6	30,440	+11.4	-6.8		54.1	44.9
Druggists' preparations	41	7,526	+2.9	-17.1	152,568	+3.4	-25.7		71.7	70.4
Explosives	24	3,025	+5.7	-20.3	60,465	+14.1	-37.5		75.7	51.2
Paints and varnishes	364	15,355	+2.0	-12.1	342,253	+5.8	-23.5		68.2	54.6
Rayon	22	27,073	+6.6	-9.1	467,979	+6.8	-22.5		139.6	118.3
Soap	88	12,494	+2.5	-4.6	287,127	+1.3	-17.0		96.9	84.4
Stone, clay, and glass prod- ucts	1,347	88,148	+2.5	-25.0	1,452,451	+5.8	-41.1		44.6	27.5
Cement	125	14,715	+2.4	-24.6	258,887	+2.8	-44.4		42.9	25.2
Brick, tile, and terra cotta	680	18,984	-2.7	-33.3	228,697	-5.1	-52.9		28.8	13.0
Pottery	119	14,335	+10.2	-18.1	236,890	+25.8	-32.1		60.2	37.5
Glass	195	33,975	+5.0	-17.7	594,609	+8.1	-32.1		57.0	39.4
Marble, granite, slate, and other stone products	228	6,139	-2.2	-31.0	133,368	-9	-46.2		51.8	35.3

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		Number on pay roll Oc- tober, 1932	Per cent of change		Amount of pay roll (1 week) October, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			Sep- tem- ber to October, 1932	Oc- to- ber, 1931, to Oc- to- ber, 1932		Sep- tem- ber to October, 1932	Oc- to- ber, 1931, to Oc- to- ber, 1932		
Nonferrous metals and their products	627	77,952	+3.1	-17.7	\$1,496,053	+10.1	-30.3	54.6	37.0
Stamped and enameled ware.....	88	12,584	-2.1	-12.7	214,405	+2	-26.4	60.4	40.1
Brass, bronze, and copper products.....	209	27,263	+1.6	-19.3	467,118	+7.3	-33.0	51.1	31.5
Aluminum manufactures.....	26	4,894	+4	-18.0	79,797	+14.7	-23.0	47.7	29.5
Clocks, time-recording devices, and clock move- ments.....	22	3,877	+3.7	-33.2	61,407	+16.5	-42.2	41.6	31.4
Gas and electric fixtures, lamps, lanterns, and re- flectors.....	54	4,858	+5.4	-21.6	98,691	+3.9	-34.3	66.6	46.8
Plated ware.....	54	7,715	+5.2	-11.0	163,527	+20.1	-25.5	63.7	45.5
Smelting and refining cop- per, lead, and zinc.....	27	7,363	+7.1	-17.6	127,949	+9.9	-34.2	58.8	39.3
Jewelry.....	147	9,398	+8.1	-15.7	193,159	+17.0	-25.6	44.0	32.6
Tobacco manufactures	245	56,585	+2.8	-9.7	731,262	+3.0	-18.5	73.9	55.8
Chewing and smoking to- bacco and snuff.....	33	10,330	+2.6	+5.8	141,094	-1.2	-6.0	89.8	73.3
Cigars and cigarettes.....	212	46,255	+2.7	-11.7	589,568	+3.7	-20.2	71.9	53.7
Transportation equipment	421	190,769	-12.2	-25.3	3,068,837	+4.7	-41.2	39.5	24.7
Automobiles.....	245	151,233	-15.6	-26.1	2,692,370	+5.3	-43.7	38.2	22.7
Aircraft.....	30	5,698	+3.3	-25.9	178,407	+4.1	-24.6	166.8	174.1
Cars, electric and steam railroad.....	39	5,770	+9.5	-7.5	104,432	+11.8	-15.6	21.1	12.4
Locomotives.....	15	2,449	-4.3	-37.6	48,286	+9	-51.0	13.8	9.4
Shipbuilding.....	92	25,610	-1.8	-24.6	580,342	+1.4	-36.1	67.7	52.4
Rubber products	150	63,661	+2.6	-10.6	1,168,306	+9.3	-23.6	63.9	41.1
Rubber tires and inner tubes.....	40	34,387	-4	-9.9	617,740	+7.2	-26.8	59.0	34.5
Rubber boots and shoes.....	8	9,562	+5.1	-25.2	167,279	+6.4	-30.4	52.0	39.7
Rubber goods, other than boots, shoes, tires, and inner tubes.....	102	19,712	+7.0	-3.5	383,281	+14.8	-13.7	84.3	61.2
Machinery, not including transportation equip- ment	1,833	250,164	+7	-29.2	5,129,011	+3.4	-43.4	45.6	27.1
Agricultural implements.....	81	4,978	-7.8	-39.4	79,177	-3.8	-40.4	19.4	14.0
Electrical machinery, ap- paratus, and supplies.....	292	104,177	-2.5	-34.8	2,062,386	-4	-47.7	49.3	32.8
Engines, turbines, trac- tors, and water wheels.....	88	15,087	+1.3	-29.9	304,456	+10.0	-37.9	39.8	24.9
Cash registers, adding machines, and calculating machines.....	44	12,898	+1.4	-16.6	306,224	+3.1	-23.0	63.8	46.8
Foundry and machine- shop products.....	1,075	97,001	+1.4	-25.0	1,561,011	+5.1	-41.9	44.0	23.3
Machine tools.....	150	10,259	-2.2	-45.6	182,499	-2.9	-57.5	29.6	17.1
Textile machinery and parts.....	43	6,459	+2.4	-23.1	113,313	+3.0	-36.1	53.6	34.0
Typewriters and supplies.....	18	8,655	+2	-24.0	123,743	+4.3	-42.6	55.9	30.4
Radio.....	42	20,650	+17.2	-28.4	396,202	+12.2	-41.0	79.8	62.9
Railroad repair shops	938	95,494	+4.5	-15.0	2,125,979	+8.1	-30.0	48.6	36.2
Electric railroad.....	395	20,562	-1.4	-11.7	511,764	-3.6	-25.4	65.5	51.8
Steam railroad.....	543	74,932	+5.4	-15.4	1,614,215	+9.5	-30.4	47.3	35.0
Total, 89 industries	18,211	2,686,577	+2.4	-13.1	46,968,281	+4.7	-27.8	59.9	39.9

Per Capita Earnings in Manufacturing Industries

PER capita weekly earnings in October, 1932, for each of the 89 manufacturing industries surveyed by the Bureau of Labor Statistics, together with the per cents of change in October, 1932, as compared with September, 1932, and October, 1931, 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 EARNINGS¹ IN MANUFACTURING INDUSTRIES IN OCTOBER, 1932, AND COMPARISON WITH SEPTEMBER, 1932, AND OCTOBER, 1931

Industry	Per capita weekly earnings in October, 1932	Per cent of change compared with—	
		September, 1932	October, 1931
Food and kindred products:			
Slaughtering and meat packing.....	\$20.63	-0.8	-15.4
Confectionery.....	14.48	-2.7	-15.8
Ice cream.....	26.61	(¹)	-14.2
Flour.....	22.43	-4.8	-8.9
Baking.....	22.48	-1.0	-10.2
Sugar refining, cane.....	24.19	-6.1	-11.9
Beet sugar.....	16.50	-25.5	-19.4
Beverages.....	23.78	-5.5	-15.3
Butter.....	22.03	-1.1	-10.4
Textiles and their products:			
Cotton goods.....	11.09	+1.3	-12.5
Hosiery and knit goods.....	14.62	+6.6	-8.1
Silk goods.....	13.66	+2.6	-19.1
Woolen and worsted goods.....	16.34	-3	-12.8
Carpets and rugs.....	16.80	+19.2	-13.0
Dyeing and finishing textiles.....	18.80	-4.1	-13.5
Clothing, men's.....	14.87	-1.5	-12.9
Shirts and collars.....	10.85	+9.0	-11.8
Clothing, women's.....	18.78	-2	-19.2
Millinery.....	16.03	-16.9	-18.0
Corsets and allied garments.....	16.13	+15.2	-4.6
Cotton small wares.....	15.96	+4.5	-12.6
Hats, fur-felt.....	20.78	-9.1	+6.9
Men's furnishings.....	12.41	+5.4	-26.0
Iron and steel and their products, not including machinery:			
Iron and steel.....	13.19	+9.8	-27.8
Cast-iron pipe.....	12.24	-10.9	-29.9
Structural and ornamental ironwork.....	17.57	+2.4	-23.4
Hardware.....	13.23	+5.0	-27.4
Steam fittings and steam and hot-water heating apparatus.....	18.95	+10.0	-12.0
Stoves.....	19.76	+9.7	-11.8
Bolts, nuts, washers, and rivets.....	14.86	+11.5	-22.1
Cutlery (not including silver and plated cutlery) and edge tools.....	18.47	+10.6	-13.1
Forgings, iron and steel.....	14.44	+6.6	-29.8
Plumbers' supplies.....	16.34	+2.6	-29.4
Tin cans and other tinware.....	19.91	-4.3	-6.9
Tools (not including edge tools, machine tools, files, or saws).....	16.47	+6.1	-16.5
Wirework.....	17.74	+3.1	-17.5
Lumber and allied products:			
Lumber.....			
Sawmills.....	11.71	+2.9	-26.9
Millwork.....	14.59	+7.8	-23.0
Furniture.....	14.95	+4.5	-21.1
Turpentine and rosin.....	13.83	-1	-15.2
Leather and its manufactures:			
Leather.....	19.32	+3.3	-10.0
Boots and shoes.....	15.35	-1.5	+1.3
Paper and printing:			
Paper and pulp.....	18.65	+3.8	-15.9
Paper boxes.....	18.56	+2.5	-11.4
Printing—			
Book and job.....	27.12	+3	-12.5
Newspapers and periodicals.....	34.00	-4.4	-12.3

¹ Less than one-tenth of 1 per cent.

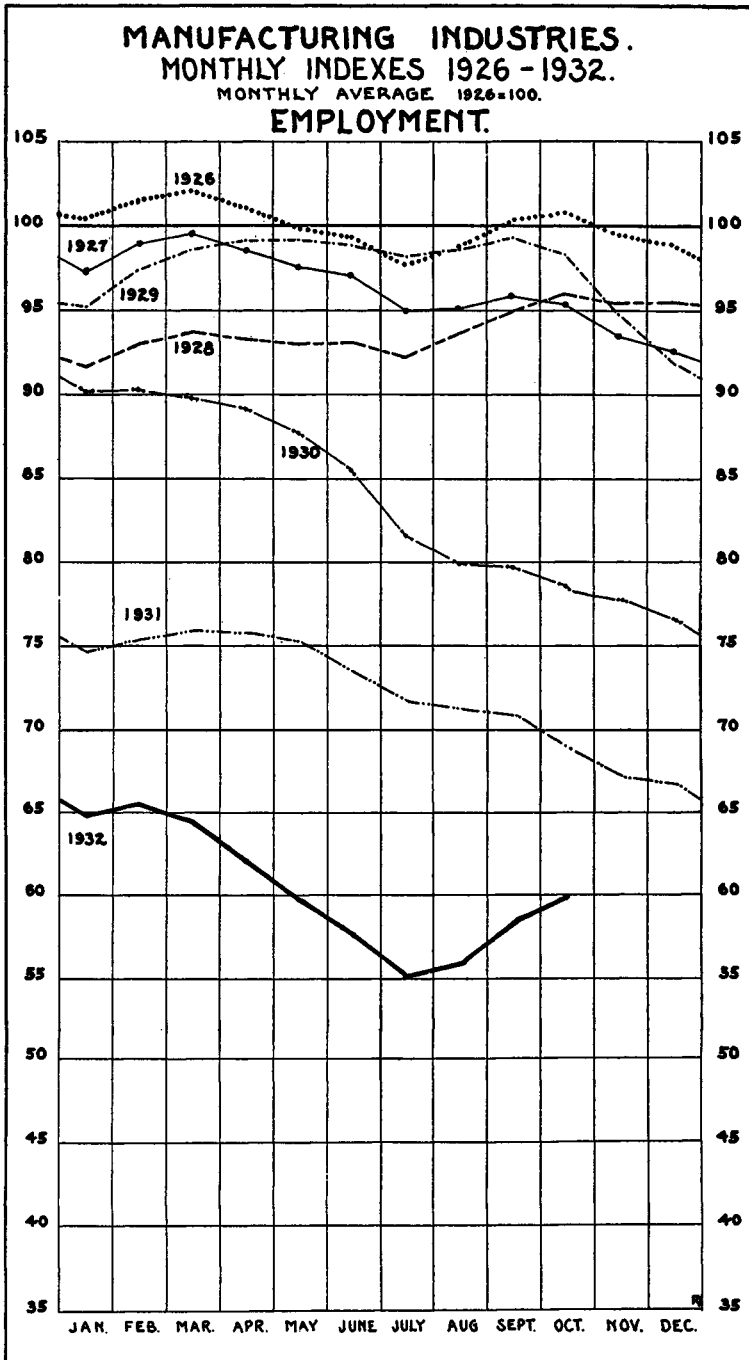
TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN OCTOBER, 1932, AND COMPARISON WITH SEPTEMBER, 1932, AND OCTOBER, 1931—Continued

Industry	Per capita weekly earnings in October, 1932	Per cent of change compared with—	
		September, 1932	October, 1931
Chemicals and allied products:			
Chemicals.....	\$24.04	+2.5	-15.2
Fertilizers.....	12.44	-4.4	-21.0
Petroleum refining.....	26.95	-2.2	-13.0
Cottonseed oil, cake, and meal.....	10.47	-4.7	-30.3
Druggists' preparations.....	20.27	+5	-10.4
Explosives.....	19.99	+7.9	-21.6
Paints and varnishes.....	22.29	+3.7	-13.5
Rayon.....	17.29	+2	-14.9
Soap.....	22.98	-1.2	-13.2
Stone, clay, and glass products:			
Cement.....	17.59	+5	-26.1
Brick, tile, and terra cotta.....	12.05	-2.4	-29.3
Pottery.....	16.53	+14.2	-16.8
Glass.....	17.50	+2.9	-17.6
Marble, granite, slate, and other stone products.....	21.72	+1.3	-22.3
Nonferrous metals and their products:			
Stamped and enameled ware.....	17.04	+2.3	-15.9
Brass, bronze, and copper products.....	17.13	+5.5	-17.2
Aluminum manufactures.....	16.31	+14.3	-5.8
Clocks, time-recording devices, clock movements.....	15.84	+12.3	-13.7
Gas and electric fixtures, lamps, lanterns, and reflectors.....	20.32	-1.4	-15.9
Plated ware.....	21.20	+14.2	-16.2
Smelting and refining—copper, lead, and zinc.....	17.38	+2.6	-20.3
Jewelry.....	20.55	+8.2	-11.7
Tobacco manufactures:			
Chewing and smoking tobacco and snuff.....	13.72	-3.7	-11.0
Cigars and cigarettes.....	12.75	+1.0	-9.8
Transportation equipment:			
Automobiles.....	17.80	+24.7	-23.7
Aircraft.....	31.31	+8	+1.7
Cars, electric and steam railroad.....	13.10	+2.1	-9.6
Locomotives.....	18.72	+5.5	-21.6
Shipbuilding.....	22.66	+3.3	-15.5
Rubber products:			
Rubber tires and inner tubes.....	17.96	+7.6	-18.8
Rubber boots and shoes.....	17.49	+1.2	-7.2
Rubber goods, other than boots, shoes, tires, and inner tubes.....	19.44	+7.3	-10.6
Machinery, not including transportation equipment:			
Agricultural implements.....	15.91	+4.4	-1.3
Electrical machinery, apparatus, and supplies.....	19.80	+2.3	-19.5
Engines, turbines, tractors, and water wheels.....	20.18	+8.6	+8.7
Cash registers, adding machines, and calculating machines.....	23.74	+1.6	-7.8
Foundry and machine-shop products.....	16.09	+3.6	-22.3
Machine tools.....	17.79	-7	-21.4
Textile machinery and parts.....	17.54	+6	-16.8
Typewriters and supplies.....	14.30	+4.2	-24.5
Radio.....	19.19	-4.2	-17.6
Railroad repair shops:			
Electric-railroad repair shops.....	24.89	-2.3	-15.5
Steam-railroad repair shops.....	21.54	+3.9	-18.0

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 October, 1932, together with average indexes for each of the years from 1926 to 1931, and for the 10-month period, January to October, 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. Following this table are two charts prepared from these general indexes showing the course of employment and pay rolls for each of the years 1926 to 1931, inclusive, and for the months from January to October, 1932, inclusive.

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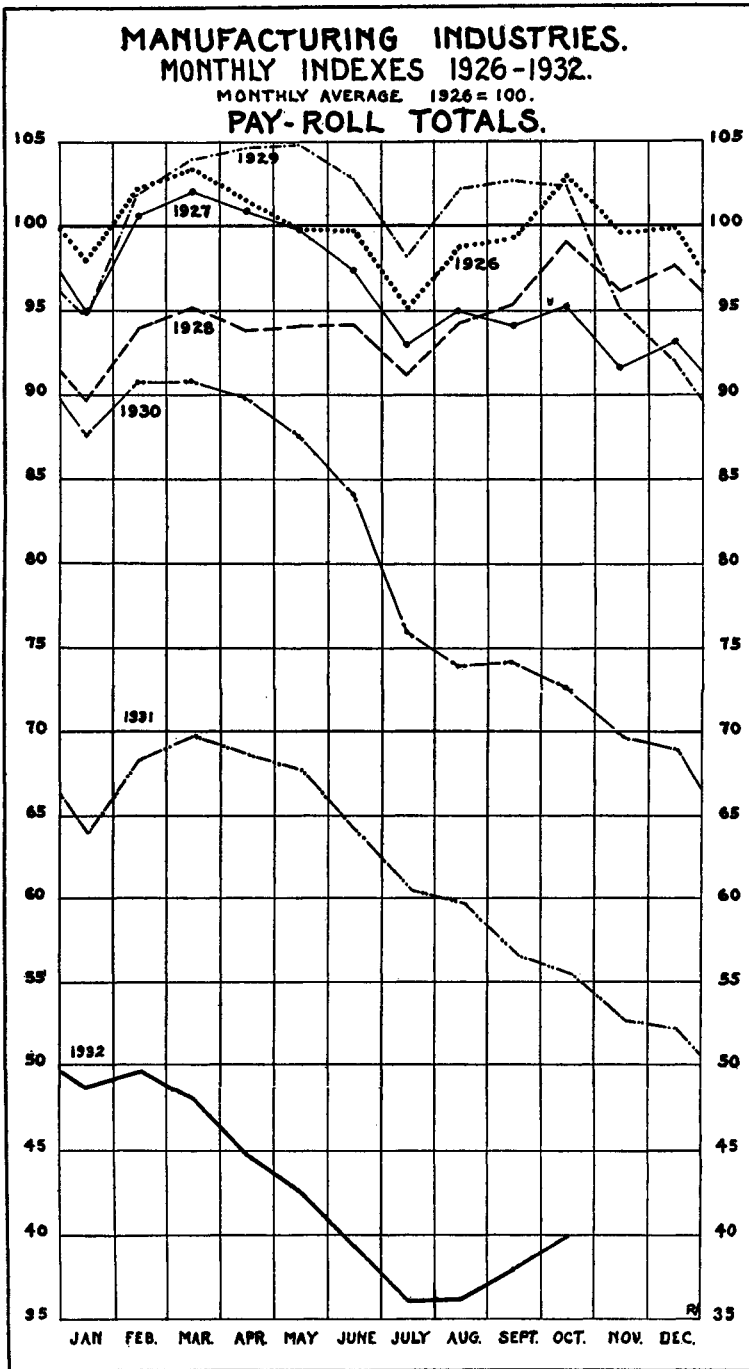


TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES, JANUARY, 1926, TO OCTOBER, 1932
[12-month average, 1926=100]

Month	Employment							Pay rolls						
	1926	1927	1928	1929	1930	1931	1932	1926	1927	1928	1929	1930	1931	1932
January.....	100.4	97.3	91.6	95.2	90.7	74.6	64.8	98.0	94.9	89.6	95.5	88.1	63.7	48.6
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	39.0
November.....	99.5	93.5	95.4	95.0	77.9	67.1	-----	99.6	91.6	96.1	95.4	69.6	52.5	-----
December.....	98.9	92.6	95.5	92.3	76.6	66.7	-----	99.8	93.2	97.7	92.4	68.8	52.2	-----
Average.....	100.0	96.4	93.8	97.5	84.7	72.2	60.4	100.0	96.5	94.5	100.5	81.3	61.5	42.8

¹ Average for 10 months.

Time Worked in Manufacturing Industries in October, 1932

REPORTS as to working time in October were received from 13,629 establishments in 89 manufacturing industries. Two per cent of these establishments were idle, 47 per cent operated on a full-time basis, and 51 per cent worked on a part-time schedule.

An average of 86 per cent of full-time operation in October was shown by reports received from all the operating establishments included in Table 4. The establishments working part time in October averaged 73 per cent of full-time operation.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN OCTOBER, 1932

Industry	Establishments reporting		Per cent of establishments in which employees worked—		Average per cent of full time reported, by—	
	Total number	Per cent idle	Full time	Part time	All operating establishments	Establishments operating part time
Food and kindred products.....	2,432	1	75	24	95	79
Slaughtering and meat packing.....	178	-----	80	20	97	86
Confectionery.....	240	1	55	44	91	79
Ice cream.....	331	2	72	26	96	83
Flour.....	385	1	69	30	93	76
Baking.....	683	-----	88	12	97	79
Sugar refining, cane.....	13	23	31	46	86	76
Beet sugar.....	53	-----	92	8	100	83
Beverages.....	283	-----	64	36	91	74
Butter.....	266	-----	80	20	97	85
Textiles and their products.....	2,426	3	67	30	94	80
Cotton goods.....	657	3	65	31	93	78
Hosiery and knit goods.....	403	3	78	19	97	84
Silk goods.....	225	4	72	23	94	75
Woolen and worsted goods.....	230	4	67	29	94	78
Carpets and rugs.....	22	5	41	55	82	68
Dyeing and finishing textiles.....	140	2	58	40	94	83
Clothing, men's.....	233	2	68	30	96	86
Shirts and collars.....	71	6	65	30	94	81
Clothing, women's.....	151	7	66	26	93	77
Millinery.....	87	3	56	40	93	82
Corsets and allied garments.....	22	-----	73	27	93	76
Cotton small wares.....	98	-----	44	56	89	81
Hats, fur-felt.....	26	-----	69	31	96	79
Men's furnishings.....	61	2	59	39	93	82

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES
BY ESTABLISHMENTS REPORTING IN OCTOBER, 1932—Continued

Industry	Establishments reporting		Per cent of establishments in which employees worked—		Average per cent of full time reported by—	
	Total number	Per cent idle	Full time	Part time	All operating establishments	Establishments operating part time
Iron and steel and their products, not including machinery	1,062	3	18	79	73	66
Iron and steel.....	160	8	8	84	72	69
Cast-iron pipe.....	39	5	8	87	54	50
Structural and ornamental ironwork.....	138	2	7	91	71	68
Hardware.....	53	-----	13	87	70	65
Steam fittings and steam and hot-water heating apparatus.....	81	2	12	85	65	60
Stoves.....	117	3	26	71	80	72
Bolts, nuts, washers, and rivets.....	63	-----	16	84	69	63
Cutlery (not including silver and plated cutlery) and edge tools.....	104	1	34	65	78	67
Forgings, iron and steel.....	40	-----	15	85	62	56
Plumbers' supplies.....	53	6	17	77	75	69
Tin cans and other tinware.....	53	2	58	40	92	79
Tools (not including edge tools, machine tools, files, or saws).....	113	3	21	76	72	64
Wirework.....	48	-----	19	81	76	71
Lumber and allied products	1,126	4	28	67	79	69
Lumber, sawmills.....	469	5	3	77	73	66
Lumber, millwork.....	288	3	25	72	78	71
Furniture.....	350	3	47	50	86	73
Turpentine and rosin.....	19	-----	42	58	91	84
Leather and its manufactures	382	1	39	60	86	76
Leather.....	125	1	45	54	88	78
Boots and shoes.....	257	1	36	63	85	76
Paper and printing	1,547	1	42	58	87	77
Paper and pulp.....	317	3	33	64	82	72
Paper boxes.....	264	-----	36	64	87	79
Printing, book and job.....	594	-----	23	77	83	77
Printing, newspapers and periodicals.....	372	-----	82	18	98	80
Chemicals and allied products	781	2	58	43	91	80
Chemicals.....	80	4	69	28	94	81
Fertilizers.....	145	1	65	34	94	82
Petroleum refining.....	68	9	68	24	96	86
Cottonseed oil, cake, and meal.....	42	-----	64	36	97	93
Druggists' preparations.....	24	-----	50	50	94	87
Explosives.....	15	-----	20	80	65	57
Paints and varnishes.....	314	(1)	45	54	88	79
Rayon.....	14	-----	57	43	93	83
Soap.....	79	-----	63	37	93	82
Stone, clay, and glass products	729	12	36	52	80	66
Cement.....	72	13	79	8	97	64
Brick, tile, and terra cotta.....	245	24	19	57	69	59
Pottery.....	89	3	21	75	75	68
Glass.....	128	5	69	26	94	77
Marble, granite, slate, and other stone products.....	195	6	27	67	79	71
Nonferrous metals and their products	484	1	28	71	80	72
Stamped and enameled ware.....	78	-----	23	77	79	72
Brass, bronze, and copper products.....	140	1	19	79	75	69
Aluminum manufactures.....	22	-----	32	68	84	77
Clocks, time-recording devices, and clock movements.....	19	5	32	63	75	63
Gas and electric fixtures, lamps, lanterns, and reflectors.....	44	-----	25	75	81	75
Plated ware.....	46	-----	24	76	82	76
Smelting and refining—copper, lead, and zinc.....	18	6	44	50	84	70
Jewelry.....	117	-----	41	59	84	72
Tobacco manufactures	201	4	28	73	79	73
Chewing and smoking tobacco and snuff.....	20	-----	33	67	83	73
Cigars and cigarettes.....	171	5	21	74	79	73
Transportation equipment	288	5	34	61	81	71
Automobiles.....	151	5	21	74	73	65
Aircraft.....	26	4	62	35	93	82
Cars, electric and steam railroad.....	28	11	14	75	83	80
Locomotives.....	13	-----	38	62	83	73
Shipbuilding.....	70	1	59	40	93	84

¹ Less than one-half of 1 per cent.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN OCTOBER, 1932—Continued

Industry	Establishments reporting		Per cent of establishments in which employees worked—		Average per cent of full time reported by—	
	Total number	Per cent idle	Full time	Part time	All operating establishments	Establishments operating part time
Rubber products.....	127	1	37	62	86	77
Rubber tires and inner tubes.....	30	-----	20	80	77	71
Rubber boots and shoes.....	6	-----	17	83	89	86
Rubber goods, other than boots, shoes, tires, and inner tubes.....	91	1	44	55	89	80
Machinery, not including transportation equipment.....	1,269	2	18	80	73	67
Agricultural implements.....	63	11	25	63	78	70
Electrical machinery, apparatus, and supplies.....	186	1	18	81	77	71
Engines, turbines, tractors, and water wheels.....	63	-----	11	89	73	69
Cash registers, adding machines, and calculating machines.....	34	6	32	62	83	73
Foundry and machine-shop products.....	727	1	18	80	72	65
Machine tools.....	117	3	11	86	71	68
Textile machinery and parts.....	31	-----	19	81	76	70
Typewriters and supplies.....	11	-----	27	73	72	61
Radio.....	28	-----	29	71	89	84
Railroad repair shops.....	784	(1)	47	53	80	81
Electric-railroad repair shops.....	361	-----	66	34	95	84
Steam-railroad repair shops.....	423	(1)	31	68	86	79
Total, 89 industries.....	13, 629	2	47	51	86	73

¹ Less than one-half of 1 per cent.

Employment in Nonmanufacturing Industries in October, 1932

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 EARNINGS IN NONMANUFACTURING ESTABLISHMENTS IN SEPTEMBER AND OCTOBER, 1932, AND OCTOBER, 1931

Industrial group	Establishments reporting in both September and October, 1932	Employment			Pay rolls			Index numbers, October, 1932 (average 1929=100)	
		Number on pay roll, October, 1932	Per cent of change		Amount of pay roll (1 week) October, 1932	Per cent of change		Employment	Pay-roll totals
			September to October, 1932	October, 1931, to October, 1932		September to October, 1932	October, 1931, to October, 1932		
Anthracite mining.....	160	87,359	+14.4	-26.4	\$2,652,835	+42.0	-26.8	63.9	66.7
Bituminous coal mining.....	1,143	167,450	+7.4	-17.6	2,514,517	+25.1	-32.7	67.0	37.8
Metalliferous mining.....	287	21,230	+4.3	-43.3	404,721	+5.8	-51.9	30.5	18.0
Quarrying and nonmetallic mining.....	620	23,098	+1	-18.8	357,693	-1.3	-38.2	52.4	30.1
Crude petroleum producing.....	284	23,218	+1.2	-6.0	658,562	+1.3	-21.9	56.8	42.5
Telephone and telegraph.....	8,282	270,117	-1.5	-9.4	7,202,542	-2	-17.4	76.2	75.7
Power and light.....	3,528	214,057	-1.3	-13.8	6,247,291	-4	-20.2	79.9	74.4
Electric-railroad and motor-bus operation and maintenance.....	501	134,422	-1.7	-12.6	3,587,599	-1.6	-23.4	72.3	60.5
Wholesale trade.....	2,664	69,667	+9	-8.7	1,872,254	+1.2	-20.0	77.8	63.9
Retail trade.....	14,135	345,131	+4.5	-9.5	6,868,910	+3.9	-20.7	81.3	67.1
Hotels.....	2,557	135,846	-2.1	-13.7	1,851,301	-8	-26.5	75.4	58.6
Canning and preserving.....	939	56,898	-35.3	-25.0	650,293	-31.0	-33.2	81.1	51.8
Laundries.....	1,017	60,661	-1.4	-12.0	932,458	-2.7	-25.2	77.5	61.2
Dyeing and cleaning.....	382	12,096	-1.2	-12.6	218,519	-3.6	-27.8	82.3	58.8

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 October, 1932, with the exception of the 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, 1929, 1930, AND 1931, AND JANUARY TO OCTOBER, 1932

[12-month average, 1929=100]

Month	Anthracite mining								Bituminous coal mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	105.7	102.1	90.6	76.2	100.7	105.8	89.3	61.5	106.4	102.5	93.9	80.8	106.1	101.4	73.3	47.0
February.....	108.0	106.9	89.5	71.2	122.1	121.5	101.9	57.3	107.7	102.4	91.5	77.4	116.6	102.1	68.3	47.0
March.....	98.0	82.6	82.0	73.7	90.8	78.5	71.3	61.2	108.6	98.6	88.8	75.2	108.6	86.4	65.2	46.8
April.....	100.7	84.1	85.2	70.1	88.3	75.0	75.2	72.0	100.2	94.4	85.9	65.5	89.2	81.7	58.6	33.9
May.....	108.7	93.8	80.3	66.9	99.0	98.8	76.1	58.0	96.6	90.4	82.4	62.6	91.9	77.5	54.4	30.7
June.....	92.9	90.8	76.1	53.0	80.7	84.3	66.7	37.4	94.7	88.4	78.4	60.5	90.0	75.6	52.4	27.3
July.....	83.2	81.6	65.1	44.5	64.7	84.0	53.7	34.5	94.1	88.0	76.4	58.0	85.6	68.9	50.4	24.4
August.....	91.1	80.2	67.3	49.2	78.4	78.8	50.4	41.4	85.7	89.2	77.0	59.4	92.8	71.1	50.6	26.4
September.....	101.9	93.8	80.0	55.8	103.8	91.6	64.9	47.0	97.2	90.5	80.4	62.4	88.6	74.9	53.6	30.2
October.....	106.1	99.0	86.8	63.9	133.9	117.2	91.1	66.7	98.8	91.8	81.3	67.0	106.8	79.4	50.2	37.8
November.....	104.0	97.2	83.5	-----	100.5	98.0	79.5	-----	101.0	92.6	81.1	-----	106.8	79.1	54.6	-----
December.....	107.1	99.1	79.8	-----	137.2	100.0	78.4	-----	101.4	92.5	81.2	-----	108.2	77.7	52.3	-----
Average.....	100.0	93.4	80.5	62.5	100.0	95.3	75.4	53.7	100.0	93.4	83.2	66.9	100.0	81.3	57.5	35.2
Month	Metalliferous mining								Quarrying and nonmetallic mining							
	Employment				Pay rolls				Employment				Pay rolls			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	93.1	95.7	68.3	49.3	88.0	92.7	55.0	29.7	91.6	79.6	64.4	48.9	85.9	71.9	50.4	30.2
February.....	94.6	92.3	65.3	46.9	91.8	92.5	54.6	27.8	91.9	79.8	66.6	47.4	88.9	73.5	54.4	29.6
March.....	97.0	90.9	63.5	45.0	99.1	90.8	52.8	26.5	96.0	83.0	70.0	46.0	95.0	80.0	58.2	28.7
April.....	100.6	89.3	63.9	43.3	104.6	88.3	51.4	25.0	99.6	87.4	76.1	48.6	100.5	85.4	62.6	30.0
May.....	100.8	87.5	62.4	38.3	104.6	85.6	49.3	23.8	104.1	90.8	75.0	50.6	107.1	90.2	62.3	32.3
June.....	103.8	84.6	60.0	32.2	105.6	81.6	46.1	20.1	106.6	90.3	72.3	49.5	110.5	90.9	60.1	30.0
July.....	101.5	80.5	58.2	28.5	99.0	71.9	41.3	16.9	104.7	89.3	71.0	49.5	104.7	85.5	57.3	29.1
August.....	103.2	79.0	55.8	28.6	100.1	71.0	40.2	16.5	106.7	89.3	68.9	51.1	110.3	85.8	55.1	29.7
September.....	102.1	78.1	55.5	29.3	102.0	69.9	40.0	17.0	106.6	87.7	66.6	52.4	109.8	82.5	51.2	30.5
October.....	101.9	77.2	53.8	30.5	103.1	68.6	37.4	18.0	103.6	84.7	64.5	52.4	105.8	79.3	48.7	30.1
November.....	103.0	72.8	52.8	-----	102.2	63.4	35.1	-----	98.6	78.3	59.3	-----	96.0	66.8	43.3	-----
December.....	98.5	70.1	51.2	-----	99.7	59.9	34.3	-----	90.1	70.2	53.9	-----	85.4	59.9	36.9	-----
Average.....	100.0	83.2	59.1	37.3	100.0	78.0	44.8	22.1	100.0	84.3	67.4	49.6	100.0	79.3	53.4	30.0
Month	Crude petroleum producing								Telephone and telegraph							
	Employment				Pay rolls				Employment				Pay rolls			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	90.0	92.7	74.8	54.9	93.1	94.0	71.5	46.5	94.3	101.6	90.5	83.0	94.5	105.1	96.3	89.1
February.....	90.4	90.8	73.2	54.4	99.0	88.6	70.0	46.9	95.3	100.2	89.2	82.0	93.0	101.9	94.8	89.6
March.....	89.6	89.3	72.2	51.4	97.4	91.3	73.2	43.2	96.5	99.4	88.6	81.7	98.7	105.8	97.9	88.2
April.....	97.6	86.8	69.8	54.9	96.7	86.6	66.3	44.5	97.8	98.9	88.1	81.2	98.3	103.4	95.0	83.4
May.....	93.9	89.8	67.8	54.5	92.4	85.4	64.7	47.1	100.4	99.7	87.4	80.6	99.4	103.2	94.1	82.8
June.....	104.1	90.2	65.0	54.2	99.4	87.1	62.7	44.8	101.5	99.8	86.9	79.9	100.0	103.4	95.0	82.1
July.....	106.0	89.9	65.3	55.4	100.7	88.5	59.2	44.6	102.6	100.0	86.6	79.1	104.1	106.6	93.3	79.6
August.....	113.2	87.7	62.4	57.4	104.7	86.0	56.3	42.9	103.7	98.8	85.9	78.1	101.8	102.5	92.3	79.1
September.....	108.9	85.0	61.2	56.2	110.7	84.0	55.2	41.9	102.5	96.8	85.0	77.4	100.4	102.2	92.1	75.9
October.....	107.9	85.2	60.4	56.8	100.1	82.6	54.4	42.5	101.9	94.5	84.1	76.2	105.1	100.9	91.6	75.7
November.....	101.1	83.6	57.6	-----	103.8	80.0	52.0	-----	101.9	93.0	83.5	-----	101.2	97.9	89.7	-----
December.....	97.0	77.4	58.2	-----	102.1	77.2	54.9	-----	101.8	91.6	83.1	-----	103.9	101.3	92.7	-----
Average.....	100.0	87.4	65.7	55.0	100.0	85.9	61.7	44.5	100.0	97.9	86.6	79.9	100.0	102.9	93.7	82.6

¹Average for 10 months.

TABLE 2.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR NONMANUFACTURING INDUSTRIES, JANUARY TO DECEMBER, 1929, 1930, AND 1931, AND JANUARY TO OCTOBER, 1932—Continued

[12-month average, 1929=100]

Month	Power and light								Electric-railroad and motor-bus operation and maintenance ¹							
	Employment				Pay rolls				Employment				Pay rolls			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	92.9	99.6	99.2	89.3	91.7	99.7	98.6	88.4	99.7	97.1	86.9	79.5	98.7	97.8	85.6	74.3
February.....	92.6	98.8	97.8	87.2	91.8	100.4	99.7	86.0	99.1	95.1	86.6	78.9	97.6	95.7	87.1	73.6
March.....	92.8	99.7	96.7	87.5	94.5	102.1	102.4	85.4	97.0	94.4	86.4	77.6	97.0	96.0	85.4	72.4
April.....	95.9	100.7	97.1	84.8	95.5	102.6	97.6	82.4	98.5	95.2	86.9	78.0	99.5	97.1	86.0	70.7
May.....	98.4	103.4	97.6	84.0	98.1	104.5	98.7	84.2	101.4	94.8	85.3	76.9	101.7	96.0	85.1	71.2
June.....	100.7	104.6	97.2	83.2	100.4	107.8	98.3	80.5	101.2	94.8	85.3	76.5	101.7	97.0	84.8	69.2
July.....	102.2	105.9	96.7	82.3	102.3	106.7	97.4	78.7	102.2	95.3	85.6	75.6	101.7	97.0	83.3	65.3
August.....	104.4	106.4	95.9	81.5	103.8	106.6	96.2	76.7	102.2	92.9	84.8	74.1	102.0	92.1	81.9	62.8
September.....	105.5	105.2	94.7	81.0	106.6	106.1	94.3	74.7	101.4	91.8	84.0	73.5	101.5	90.5	81.2	60.5
October.....	105.7	104.8	92.7	79.9	106.0	105.6	93.2	74.4	100.5	91.0	82.7	72.3	100.0	88.9	79.0	60.5
November.....	104.7	103.4	91.3	-----	104.1	103.7	93.3	-----	99.4	89.3	81.5	-----	98.4	87.7	79.7	-----
December.....	102.5	103.2	90.3	-----	105.8	106.3	91.2	-----	98.3	88.8	79.9	-----	99.8	88.6	77.8	-----
Average.....	100.0	103.0	95.6	83.9	100.0	104.3	96.7	81.1	100.0	93.4	84.7	76.3	100.0	93.5	83.4	68.2
Month	Wholesale trade								Retail trade							
	Employment				Pay rolls				Employment				Pay rolls			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	97.7	100.0	89.5	81.8	96.7	100.0	87.5	74.1	99.2	98.9	90.0	84.3	99.0	99.7	89.4	78.0
February.....	96.9	98.5	88.2	80.9	96.4	98.3	88.4	72.5	94.6	94.4	87.1	80.5	94.5	96.0	86.7	73.7
March.....	97.3	97.7	87.4	79.8	98.5	99.7	89.1	71.3	96.2	93.9	87.8	81.4	96.1	95.5	87.5	73.4
April.....	97.9	97.3	87.4	78.9	97.8	97.9	85.2	68.9	95.5	97.3	90.1	81.6	96.0	97.5	88.3	72.7
May.....	99.0	96.8	87.1	77.9	99.0	97.4	84.7	69.7	97.3	96.7	89.9	79.9	97.1	97.3	88.0	71.1
June.....	99.2	96.5	87.1	77.0	98.6	98.6	84.1	66.2	97.4	93.9	89.1	79.4	98.6	96.8	87.6	68.2
July.....	100.4	96.0	86.8	76.6	100.5	96.0	83.3	64.7	98.6	89.0	83.9	74.6	95.9	91.7	83.3	63.3
August.....	101.3	95.0	86.5	76.4	100.0	93.6	82.1	63.2	93.6	85.6	81.8	72.6	95.2	87.6	80.3	60.7
September.....	101.9	94.8	86.1	77.1	103.3	93.6	81.4	63.1	97.6	92.0	86.6	77.8	99.2	92.4	83.5	64.6
October.....	102.9	94.2	85.2	77.8	102.7	92.9	79.9	63.9	101.7	95.5	89.8	81.3	102.6	95.1	84.6	67.1
November.....	102.9	92.6	84.1	-----	101.9	91.0	79.7	-----	106.7	98.4	90.9	-----	105.2	96.8	85.4	-----
December.....	102.6	92.0	83.7	-----	104.7	91.3	77.8	-----	126.2	115.1	106.2	-----	120.6	107.7	94.1	-----
Average.....	100.0	96.0	86.6	78.4	100.0	95.9	83.6	67.8	100.0	95.9	89.4	79.4	100.0	96.2	86.6	69.3
Month	Hotels								Canning and preserving							
	Employment				Pay rolls				Employment				Pay rolls			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	97.1	100.4	95.0	83.2	98.5	100.3	91.0	73.9	50.8	46.1	48.9	35.0	57.3	50.3	46.1	31.8
February.....	99.8	102.4	96.8	84.3	102.0	103.8	93.7	73.9	43.9	45.7	43.3	37.1	59.2	51.5	48.6	32.7
March.....	100.9	102.4	96.8	84.0	102.4	104.4	93.4	72.4	49.4	49.7	53.0	36.3	54.9	50.8	50.3	31.9
April.....	99.7	100.1	95.9	82.7	100.6	100.3	89.9	69.6	60.6	74.8	59.6	47.0	98.9	72.6	57.1	37.9
May.....	98.1	98.0	92.5	80.1	98.9	98.4	87.7	67.0	62.0	65.7	56.0	40.5	71.2	66.9	56.0	36.0
June.....	99.3	98.0	91.6	78.0	98.7	98.1	85.4	63.8	76.6	83.0	70.6	55.5	71.9	61.5	58.6	40.5
July.....	101.1	101.3	93.3	78.4	99.8	99.8	85.2	61.8	126.3	126.3	102.2	73.0	109.2	112.7	74.2	47.5
August.....	102.6	101.5	92.8	77.6	99.4	98.0	83.8	59.6	184.8	185.7	142.9	99.0	180.1	172.0	104.7	65.6
September.....	102.8	100.1	90.6	77.0	100.2	97.1	81.9	59.1	210.1	240.6	180.1	125.8	207.9	214.8	129.4	75.1
October.....	100.6	97.5	87.4	75.4	100.2	95.5	79.7	53.6	143.3	164.7	108.1	81.1	134.5	140.0	77.6	51.8
November.....	100.0	95.2	84.9	-----	99.8	93.6	77.1	-----	95.1	90.7	60.8	-----	91.6	82.9	48.1	-----
December.....	97.7	93.5	83.1	-----	98.9	91.5	75.4	-----	61.3	61.6	40.7	-----	63.4	67.4	36.9	-----
Average.....	100.0	99.2	91.7	80.1	100.0	98.5	85.4	66.0	100.0	103.9	80.9	63.0	100.0	96.1	65.6	45.1
Month	Laundries								Dyeing and cleaning							
	Employment				Pay rolls				Employment				Pay rolls			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	-----	90.5	84.7	-----	86.6	76.4	-----	-----	88.9	82.1	-----	-----	77.7	65.8	-----	-----
February.....	-----	90.0	82.9	-----	85.6	73.3	-----	-----	87.4	80.6	-----	-----	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	77.6	-----	81.8	61.2	-----	-----	94.2	82.3	-----	-----	81.4	58.8	-----	-----
November.....	-----	86.2	-----	-----	78.9	-----	-----	-----	90.1	-----	-----	-----	74.7	-----	-----	-----
December.....	-----	85.3	-----	-----	77.4	-----	-----	-----	84.9	-----	-----	-----	67.9	-----	-----	-----
Average.....	100.0	-----	89.4	80.9	100.0	-----	84.4	68.6	100.0	-----	92.7	82.4	100.0	-----	80.3	62.5

¹ Average for 10 months.

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

Trend of Employment in October, 1932, by States

IN THE following table are shown the fluctuations in employment and pay-roll totals in October, as compared with September, 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 September and October 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 total.

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 SEPTEMBER AND OCTOBER, 1932, 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 October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change	Number of establishments	Number on pay roll October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change
Alabama.....	473	48,795	+3.9	\$539,908	+5.3	211	34,013	+4.0	\$367,795	+4.3
Arkansas.....	<i>1,449</i>	<i>14,808</i>	+2.2	<i>217,412</i>	+4.6	<i>122</i>	<i>9,866</i>	+1.0	<i>129,230</i>	+5.6
Arizona.....	362	7,928	+8.7	164,652	+9.6	61	2,004	+18.6	43,432	+17.9
California.....	<i>1,979</i>	<i>252,674</i>	-2.9	<i>6,039,505</i>	-4.4	<i>1,164</i>	<i>135,769</i>	-4.9	<i>3,062,671</i>	-8.8
Colorado.....	741	33,229	+17.7	651,787	+14.9	118	14,229	+50.5	249,819	+34.6
Connecticut.....	1,078	132,933	+4.5	2,483,979	+7.2	661	113,228	+5.2	1,987,130	+9.6
Delaware.....	127	8,903	-8.5	177,283	-4.9	51	6,053	-1.0	125,122	+1.4
District of Columbia.....										
Florida.....	<i>2,367</i>	36,801	+2.5	825,964	+2.6	55	4,071	+9.9	135,819	-1.0
Georgia.....	473	22,399	+4.3	380,889	+10.6	137	14,679	+5.6	211,430	+18.8
	639	72,593	+3.8	897,902	+3.4	311	59,220	+4.7	626,974	+3.5
Idaho.....	201	7,817	+5.6	146,029	+5.8	42	4,525	+10.7	79,996	+11.1
Illinois.....	<i>1,551</i>	<i>267,154</i>	+1.2	<i>5,554,462</i>	+1.3	<i>963</i>	<i>161,744</i>	-2.2	<i>2,555,031</i>	+1.8
Indiana.....	1,236	112,828	-1.0	2,000,943	-3.6	538	80,542	+2.7	1,398,449	+5.0
Iowa.....	1,180	44,401	+1.6	848,767	+3.8	472	24,378	+2.7	442,543	+2.8
Kansas.....	<i>1,080</i>	<i>63,277</i>	+1.9	<i>1,417,992</i>	-0.6	<i>441</i>	<i>24,504</i>	+1.8	<i>514,844</i>	+1.0
Kentucky.....	797	57,232	+2.0	909,553	+6.6	210	20,755	+3.6	330,599	+4.4
Louisiana.....	498	20,926	+2.7	434,629	+9.9	217	17,942	+4.2	237,502	+1.2
Maine.....	580	41,314	+1.1	692,176	+1.1	188	32,952	+4.5	533,318	+3.7
Maryland.....	<i>808</i>	<i>74,450</i>	+1.4	<i>1,418,566</i>	+1.7	<i>417</i>	<i>43,553</i>	+3.0	<i>856,667</i>	+4.3
Massachusetts.....	<i>7,765</i>	<i>340,636</i>	+2.4	<i>7,224,107</i>	+5.1	<i>1,113</i>	<i>166,786</i>	+4.1	<i>2,931,087</i>	+2.6
Michigan.....	1,495	217,455	-8.6	4,142,979	+6.9	391	156,791	-10.1	2,434,690	+10.3
Minnesota.....	1,004	61,881	-1.9	1,298,338	+1.6	275	31,513	+4.6	641,500	+7.3
Mississippi.....	392	9,039	-0.7	111,302	-0.6	78	5,352	-8.8	55,954	-2.2
Missouri.....	1,123	101,893	+1.1	2,071,708	+2.5	523	58,094	+1.8	1,083,352	+2.6
Montana.....	325	8,992	+13.1	214,931	+13.6	49	3,425	+50.5	64,507	+36.0
Nebraska.....	706	23,893	+8.2	496,706	+6.0	128	12,829	+17.2	256,504	+9.7
Nevada.....	133	1,391	-2.3	37,271	-3.6	23	274	-7.1	7,949	-6.3
New Hampshire.....	463	34,593	-3.9	544,059	-7.5	184	30,359	-2.0	449,433	-7.2
New Jersey.....	1,462	175,884	-1.2	3,904,856	-2.2	<i>7,700</i>	<i>161,847</i>	-4.4	<i>3,474,610</i>	+1.2
New Mexico.....	172	4,182	-2.8	75,939	+4.5	21	241	-9.1	4,921	-5.5
New York.....	3,555	474,127	+1.4	11,179,709	+1.3	<i>1,663</i>	<i>312,750</i>	+3.0	<i>7,053,213</i>	+3.2
North Carolina.....	896	112,329	+5.6	1,332,098	+6.6	558	107,690	+5.9	1,261,211	+7.1
North Dakota.....	315	3,611	-2.1	80,163	-0.6	62	1,211	-5.2	29,157	-3.0
Ohio.....	4,758	343,048	+1.1	6,385,072	+4.2	1,953	244,772	-4.4	4,376,852	+4.5
Oklahoma.....	710	25,418	-3.3	532,076	+3.3	126	8,587	-2.8	171,406	-4.3
Oregon.....	697	27,873	-3.4	530,440	+1.5	134	14,045	+4.7	243,660	+9.0
Pennsylvania.....	4,093	594,730	+3.8	11,151,532	+12.5	<i>1,747</i>	<i>329,130</i>	+2.9	<i>5,046,186</i>	+7.0
Rhode Island.....	912	57,050	+6.5	1,066,994	+7.0	273	45,873	+8.1	807,690	+9.2
South Carolina.....	326	48,526	+4.1	477,177	+8.2	178	45,219	+4.8	424,698	+9.2
South Dakota.....	229	5,553	+1.5	125,304	-8.8	47	2,077	+3.8	35,447	-3.9
Tennessee.....	739	61,177	+3.4	839,881	+5.4	278	45,265	+5.1	594,786	+6.7
Texas.....	738	<i>69,652</i>	+0.6	<i>1,287,464</i>	-9.9	<i>368</i>	<i>52,613</i>	+1.9	<i>521,891</i>	-2.2
Utah.....	326	13,727	+7.3	256,467	+13.2	83	4,883	+33.9	88,583	+22.3
Vermont.....	368	9,428	-4.3	181,591	-8.1	121	5,015	-3.1	94,062	-5.5
Virginia.....	1,279	81,566	+2.3	1,300,349	+5.0	434	56,399	+3.5	873,079	+4.9
Washington.....	1,126	51,799	+2.2	1,015,722	+1.8	269	23,664	+3.0	438,513	+5.5
West Virginia.....	729	77,638	+3.2	1,295,941	+12.1	185	31,387	+6.8	554,549	+14.2
Wisconsin.....	<i>1,082</i>	<i>122,203</i>	-0.5	<i>2,106,283</i>	+4.7	<i>809</i>	<i>93,612</i>	-2.4	<i>1,600,377</i>	+4.9
Wyoming.....	186	6,357	+7.1	163,621	+14.8	29	1,788	+36.6	44,240	+13.3

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

² Includes banks, insurance, and office employment.

³ Includes building and contracting.

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

⁵ Weighted per cent of change.

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

⁷ Includes laundries.

⁸ Includes laundering and cleaning.

⁹ Includes construction, but does not include hotels and restaurants.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER, 1932, 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 October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change	Number of establishments	Number on pay roll October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change
Alabama.....	15	558	+1.3	\$13,891	+10.0	31	2,335	+10.6	\$32,936	+5.5
Arkansas.....	17	450	+ .6	12,426	+1.0	153	1,708	+5.4	31,078	+6.3
Arizona.....	21	189	+3.8	4,935	+3.1	174	1,393	+4.9	22,889	+ .8
California.....	78	5,640	- .4	166,513	+ .2	111	26,994	+2.8	555,462	+1.7
Colorado.....	28	788	-1.3	22,311	+ .8	273	4,061	- .8	89,014	+2.0
Connecticut.....	61	1,266	+ .6	36,384	+1.8	125	5,408	+4.9	105,144	- .9
Delaware.....	9	165	+ .6	4,721	+2.2	10	170	+10.4	2,326	-6.7
District of Columbia.....	29	402	- .2	13,036	+1.0	403	11,552	+11.4	236,942	+6.2
Florida.....	42	634	+1.6	21,499	+3.6	37	930	+7.5	17,562	+8.6
Georgia.....	32	406	(10)	11,263	- .1	15	1,883	+6.1	30,015	+2.9
Idaho.....	7	114	+ .9	3,215	+3.6	68	610	+2.0	11,554	+1.0
Illinois.....	12	806	-3.2	20,457	-2.2	63	17,294	+1.3	404,323	+2.0
Indiana.....	63	1,214	- .3	32,079	+1.6	195	6,344	+2.8	110,191	+1.5
Iowa.....	35	1,034	-1.0	27,108	- .7	126	3,356	+6.6	57,240	+4.1
Kansas.....	70	1,977	+ .8	50,249	+1.2	352	6,293	+2.6	113,718	+ .8
Kentucky.....	23	576	+6.3	10,871	- .4	31	1,632	+7.7	25,771	+7.3
Louisiana.....	25	690	(10)	14,661	+1.4	54	3,189	+6.1	47,920	+5.5
Maine.....	17	428	-10.3	10,521	-2.4	79	1,167	+3.2	20,765	+1.8
Maryland.....	32	731	- .3	16,564	- .4	36	5,377	+9.3	92,012	+15.1
Massachusetts.....	659	14,276	+ .5	377,508	-1.9	3,952	53,216	+4.3	1,186,697	+1.2
Michigan.....	64	1,807	- .1	53,365	+3.3	218	10,781	-2.9	204,822	-3.9
Minnesota.....	62	3,847	+ .5	107,302	+ .4	284	7,684	-2.2	135,236	+ .3
Mississippi.....	5	116	- .9	2,359	+1.0	60	439	+7.9	4,570	+3.4
Missouri.....	59	5,206	+2.0	130,391	+3.2	135	6,118	+4.5	124,369	+1.8
Montana.....	13	218	+2.3	6,427	+4.0	82	810	-1.2	18,024	+ .2
Nebraska.....	35	907	- .8	25,735	+2.5	194	1,771	+2.9	34,241	+2.9
Nevada.....	8	101	+9.8	3,599	+5.9	30	257	+ .8	6,932	- .4
New Hampshire.....	17	193	-2.0	5,042	-2.3	65	674	+6.3	11,888	+5.0
New Jersey.....	26	488	+3.2	15,243	+4.9	428	7,938	+3.6	175,966	+4.2
New Mexico.....	6	48	-14.3	1,505	-5.2	48	278	+4.1	5,859	+4.8
New York.....	151	3,914	- .6	125,701	- .9	507	45,042	+4.8	1,009,112	+3.7
North Carolina.....	17	215	-4.9	5,458	+3.5	173	588	+12.4	10,719	+4.1
North Dakota.....	17	242	-2.4	7,094	- .2	38	437	+12.6	6,880	+2.4
Ohio.....	245	4,951	+1.2	129,619	+ .6	1,565	31,616	+4.7	602,734	+5.6
Oklahoma.....	55	821	+ .9	21,418	+4.8	110	1,979	+2.4	35,804	+8.9
Oregon.....	54	1,323	-1.6	35,981	-2.7	223	2,215	+ .7	45,276	+5.9
Pennsylvania.....	130	3,201	+ .2	87,108	+2.2	344	26,371	+9.9	512,937	+12.3
Rhode Island.....	42	1,035	+3.5	25,749	+ .9	512	4,846	+3.6	103,621	+2.5
South Carolina.....	16	248	+4.6	5,238	+2.9	16	484	+7.8	4,395	+2.3
South Dakota.....	10	127	- .8	3,838	+ .9	15	158	+2.6	2,375	-7.0
Tennessee.....	37	698	+1.3	15,005	+1.3	58	3,613	+8.6	58,026	+7.2
Texas.....	156	2,532	+5.8	67,462	+1.5	74	6,248	+4.7	126,444	+5.1
Utah.....	15	470	-3.9	11,279	- .2	82	733	+3.1	14,764	+5.1
Vermont.....	5	112	-7.4	2,933	-1.6	45	532	+5.1	8,702	+7.5
Virginia.....	46	918	+4.6	23,152	+6.8	479	4,877	+4.2	88,244	+5.4
Washington.....	89	2,220	- .1	60,608	+ .3	411	6,645	+10.1	123,158	+5.5
West Virginia.....	34	569	+1.2	15,765	+4.1	51	974	+5.4	16,664	+6.0
Wisconsin.....	46	2,080	+3.3	48,799	+6.9	64	7,667	+6.0	180,051	+4.1
Wyoming.....	8	58	+3.6	1,771	+1.3	46	241	+3.4	6,117	+2.3

¹⁰ No change.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER, 1932, 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 October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change	Number of establishments	Number on pay roll October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change
Alabama.....	7	553	+5.1	\$6,062	+12.1	8	886	+28.6	\$10,415	+206.4
Arkansas.....	9	294	+131.5	2,832	+92.1					
Arizona.....						15	2,350	+11.0	50,184	+15.7
California.....	30	546	+4.4	11,333	+19.8	24	1,522	-1.3	40,978	+3.4
Colorado.....						14	641	-6	16,565	+2.8
Connecticut.....	10	152	-22.1	3,147	+8.1					
Delaware.....										
District of Columbia.....										
Florida.....	8	519	-12.9	5,642	-13.5					
Georgia.....	19	1,168	-2.2	13,039	+8.1					
Idaho.....						10	1,578	-8	33,622	+5
Illinois.....	20	517	-3.4	9,464	-11.1					
Indiana.....	36	860	-4.6	13,481	-3.1					
Iowa.....	18	445	-2.0	8,328	-8.7					
Kansas.....	21	974	-6	21,874	-1.1	13	480	+76.1	7,748	+134.9
Kentucky.....	22	1,172	+16.7	9,225	-3.8					
Louisiana.....	4	537	-1.1	5,488	+3.7					
Maine.....	8	396	-6.8	9,563	-2.7					
Maryland.....	16	879	-6.7	4,864	+3					
Massachusetts.....										
Michigan.....	21	1,186	+7.3	16,468	+6.7	44	4,018	-4.8	45,074	-(11)
Minnesota.....	7	164	-10.4	2,842	-20.0	33	1,261	+99.8	16,268	+75.3
Mississippi.....	3	25	+108.3	151	+75.6					
Missouri.....	12	334	+15.2	4,242	+13.4	12	1,030	-9	19,784	+7.2
Montana.....	3	14	+7.7	186	-1.1	17	1,193	+1	34,341	+2.8
Nebraska.....	3	100	(10)	1,331	+7.8					
Nevada.....						15	130	-14.5	3,612	-18.0
New Hampshire.....	8	153	-15.0	4,219	-22.0					
New Jersey.....	3	20	-13.0	449	-9.8					
New Mexico.....						5	821	-3.2	14,911	-7.4
New York.....	44	2,022	-5.9	37,793	-14.1					
North Carolina.....	4	82	+49.1	1,005	+24.7					
North Dakota.....										
Ohio.....	65	2,035	+5.7	34,673	+8.4					
Oklahoma.....	4	64	+1.6	933	+17.5	31	999	+18.4	14,763	+7.9
Oregon.....						6	59	-16.9	985	-13.7
Pennsylvania.....	59	2,616	+4	32,244	+4.1					
Rhode Island.....										
South Carolina.....	8	144	-6.5	836	+62.6					
South Dakota.....	5	68	-4.2	1,316	+7.7					
Tennessee.....	20	763	-2.1	7,144	-10.1	4	187	+2.2	2,225	-12.8
Texas.....	12	285	-26.7	6,585	-31.8					
Utah.....						10	2,021	-1.2	38,089	+2.9
Vermont.....	39	2,146	-1.2	44,447	+2.0					
Virginia.....	15	959	-1.9	8,470	-6.7					
Washington.....	8	207	+4.5	5,687	+11.1					
West Virginia.....	6	258	+2.0	2,979	+16.3					
Wisconsin.....	15	157	+22.5	1,908	+71.1					
Wyoming.....										

¹⁰ No change.

¹¹ Less than one-tenth of 1 per cent.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER, 1932, BY STATES—Continued**

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State	Bituminous coal mining					Crude petroleum producing				
	Number of establishments	Number on pay roll October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change	Number of establishments	Number on pay roll October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change
Alabama.....	39	6,674	+0.2	\$52,100	+2.0					
Arkansas.....	5	88	(10)	1,640	(10)	8	361	+18.4	\$8,866	+15.4
Arizona.....										
California.....						39	5,268	+6	157,177	-3.5
Colorado.....	40	4,741	+12.1	88,312	+32.2					
Connecticut.....										
Delaware.....										
District of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	29	5,553	+203.5	151,855	+315.2	10	206	(10)	4,424	-1.4
Indiana.....	46	5,656	+68.2	124,525	+77.8	5	33	-2.9	629	+1.5
Iowa.....	19	2,233	+13.9	54,330	+47.9					
Kansas.....	23	1,707	+156.3	26,291	+176.8	36	1,597	+2.4	38,863	+1.1
Kentucky.....	133	22,669	+9	331,258	+14.8	6	211	+8.8	4,010	+13.6
Louisiana.....						9	184	-8.9	4,906	-11.8
Maine.....										
Maryland.....	14	1,440	-7	12,574	+18.2					
Massachusetts.....										
Michigan.....										
Minnesota.....										
Mississippi.....										
Missouri.....	17	1,289	+8.2	26,268	+42.2					
Montana.....	10	830	+8.1	26,102	+34.6	5	41	-19.6	1,056	-14.4
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	12	1,675	-3	28,641	+19.8	4	28	(10)	880	(10)
New York.....						5	110	-2.7	2,975	-1.3
North Carolina.....										
North Dakota.....										
Ohio.....	59	7,979	+34.0	133,978	+47.0	6	42	-16.0	690	-17.9
Oklahoma.....	17	539	+11.6	11,083	+19.4	67	4,755	+3.7	122,272	+3.1
Oregon.....										
Pennsylvania.....	347	50,561	+1.1	629,206	+12.7	21	557	+9.0	12,666	+9
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	14	2,302	+3	24,071	+25.8					
Texas.....						3	7,012	-6.9	238,639	+2
Utah.....	14	1,712	+12.5	40,498	+40.5					
Vermont.....										
Virginia.....	33	8,402	-1	125,478	+15.5					
Washington.....	10	1,353	+8.2	25,645	-1					
West Virginia.....	233	35,798	+8	513,509	+14.4	8	385	+2.7	8,315	+7.3
Wisconsin.....										
Wyoming.....	30	3,466	+1.0	93,318	+21.8	6	69	-10.4	2,360	-1.1

¹⁰ No change.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER, 1932, 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 October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change	Number of establishments	Number on pay roll October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change
Alabama.....	123	1,924	-0.8	\$40,519	-0.4	28	1,091	+3.8	\$9,095	+4.6
Arkansas.....	<i>49</i>	<i>1,154</i>	<i>-2</i>	<i>26,814</i>	<i>-3.2</i>	<i>17</i>	<i>741</i>	<i>-1.9</i>	<i>7,465</i>	<i>-2.9</i>
Arizona.....	67	1,262	-1.4	31,931	+1.1	12	314	+6.8	4,770	+8.3
California.....	<i>42</i>	<i>47,613</i>	<i>-1.2</i>	<i>1,321,681</i>	<i>+2</i>	<i>207</i>	<i>9,089</i>	<i>-3.8</i>	<i>146,199</i>	<i>-4.2</i>
Colorado.....	196	5,515	-2	140,450	+2	34	1,201	-3.4	19,051	-2.4
Connecticut.....	145	9,978	-6	307,624	-1.9	35	1,205	+6	15,651	+1.3
Delaware.....	28	1,122	-2.1	32,249	-3.9	7	245	-1.6	2,972	+3.2
District of Columbia.....	22	8,374	+3	241,879	+2.9	55	4,110	+16.6	56,955	+11.5
Florida.....	185	4,195	-7	110,503	+1.2	36	760	+7.5	8,288	+6.9
Georgia.....	186	6,815	-1	190,582	+3.9	33	1,242	-3.4	10,402	-2.8
Idaho.....	55	652	-2.2	13,366	+1.2	16	266	+7.3	3,513	+2.5
Illinois.....	<i>65</i>	<i>66,341</i>	<i>-1.0</i>	<i>1,767,567</i>	<i>-5.0</i>	<i>13</i>	<i>10,034</i>	<i>-7</i>	<i>166,781</i>	<i>-3.7</i>
Indiana.....	149	9,988	-1.7	236,526	+2.2	59	2,758	+2	31,260	+6
Iowa.....	431	9,306	-2.1	227,353	+1.6	52	2,250	+6.5	22,212	+4.9
Kansas.....	<i>24</i>	<i>6,306</i>	<i>+1.7</i>	<i>160,198</i>	<i>-9</i>	<i>34</i>	<i>712</i>	<i>+6</i>	<i>7,749</i>	<i>+2.4</i>
Kentucky.....	304	7,062	-5	162,735	-1.3	36	1,607	+1.6	17,535	+6.4
Louisiana.....	152	4,301	-8	98,849	-8	23	1,852	+2.5	19,048	+1.5
Maine.....	169	2,857	-2.8	78,408	-1.7	27	1,022	-25.3	14,907	-15.4
Maryland.....	<i>94</i>	<i>12,606</i>	<i>-1.2</i>	<i>366,213</i>	<i>-2.3</i>	<i>26</i>	<i>1,433</i>	<i>+2.7</i>	<i>18,809</i>	<i>+7.4</i>
Massachusetts.....	<i>13</i>	<i>46,068</i>	<i>-3</i>	<i>1,306,412</i>	<i>+1.1</i>	<i>92</i>	<i>3,728</i>	<i>-3.7</i>	<i>58,018</i>	<i>-2.7</i>
Michigan.....	414	22,402	-9	658,666	-1.0	72	4,031	-5.0	52,010	-3.8
Minnesota.....	233	12,906	-1.9	331,545	-1.5	61	2,859	-4.3	37,960	+9
Mississippi.....	213	2,056	-4.0	39,193	-1.9	20	516	-8.8	4,347	-6.0
Missouri.....	222	21,856	-7	578,713	+9	80	4,539	+3.2	56,044	+8.7
Montana.....	111	1,839	-7	53,947	+5.4	17	268	-4.6	3,935	-3.6
Nebraska.....	301	5,895	+8	151,037	+2.7	32	1,607	+6.8	18,147	+8.0
Nevada.....	40	392	+5.9	10,550	+1.3	12	172	-11.8	3,223	-8.5
New Hampshire.....	143	2,169	+6	59,792	+2.5	27	730	-51.6	8,853	-51.3
New Jersey.....	280	22,898	-1.4	682,763	-3	92	4,415	-26.5	57,968	-25.0
New Mexico.....	55	551	-7.9	12,234	-1.2	14	297	-3.6	3,202	-4.4
New York.....	906	105,927	-2.4	3,248,156	-2.1	285	31,365	+5	502,788	+3.2
North Carolina.....	96	1,778	-1.5	34,850	-4.2	35	1,238	-5.4	11,279	-3.9
North Dakota.....	171	1,202	-4.2	29,923	+6	17	324	+6	3,746	+6.0
Ohio.....	493	33,400	-1.9	857,509	+2	165	8,335	-8	113,758	-8
Oklahoma.....	247	6,074	-3.1	136,715	-7	38	776	+13	7,406	+1.6
Oregon.....	187	5,746	-1.6	147,045	+2	39	1,099	+8	15,328	+2
Pennsylvania.....	703	59,886	-1.8	1,613,361	-2.0	193	10,084	+4	130,597	+1.8
Rhode Island.....	35	3,434	-2.5	98,279	-1.1	23	422	-14.6	5,974	-8.1
South Carolina.....	71	1,631	-3.7	25,261	-2	18	307	-4.4	2,278	+6
South Dakota.....	129	1,020	+4.2	26,642	+6.4	14	299	-3.5	3,667	-2.9
Tennessee.....	256	4,892	-2.0	107,879	-8	40	2,129	+8	19,119	+3.5
Texas.....	<i>155</i>	<i>6,847</i>	<i>-7</i>	<i>185,879</i>	<i>-1.9</i>	<i>41</i>	<i>3,595</i>	<i>+3</i>	<i>41,486</i>	<i>+1.3</i>
Utah.....	69	1,807	-3.2	38,439	+3.4	10	364	+2.8	4,751	-1
Vermont.....	119	935	-2.0	23,358	+1.4	28	572	-16.5	6,390	-13.5
Virginia.....	179	5,837	-8	141,722	+4	38	2,073	-2.1	22,590	-2.8
Washington.....	206	9,829	-2	265,846	-2	59	1,975	-4.4	24,261	-4.6
West Virginia.....	133	6,192	+1.2	158,296	+2.0	41	1,111	-2.0	12,937	+1.1
Wisconsin.....	<i>42</i>	<i>11,088</i>	<i>-9</i>	<i>308,478</i>	<i>+1.7</i>	<i>12</i>	<i>1,112</i>	<i>-5.2</i>	<i>(19)</i>	<i>-----</i>
Wyoming.....	48	428	-2.7	10,650	+2	12	157	-8.2	2,337	-14.0

¹² Includes restaurants.
¹³ Includes steam railroads.

¹⁴ Includes railways and express.
¹⁵ Data not supplied.

**COMPARISON OF EMPLOYMENT AND PAY ROLLS IN IDENTICAL ESTABLISHMENTS
IN SEPTEMBER AND OCTOBER, 1932, 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 October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change	Number of establishments	Number on pay roll October, 1932	Per cent of change	Amount of pay roll (1 week) October, 1932	Per cent of change
Alabama.....	4	412	-0.7	\$3,700	-0.5	4	181	-6.7	\$1,798	-4.3
Arkansas.....	19	487	-2.6	4,668	-4.6	3	35	+12.9	463	+17.2
Arizona.....	9	388	+5	5,830	+2.3					
California.....	¹⁰ 77	5,910	-2.2	110,223	-3.1					
Colorado.....	11	859	-3	12,526	+ ⁽¹¹⁾	11	160	-5.9	3,056	-6.9
Connecticut.....	28	1,351	-1.0	22,803	+2	12	249	-1.2	5,413	-5.4
Delaware.....	4	308	-2.8	4,735	-3.0	3	43	+7.5	731	+6.1
District of Columbia.....	20	2,593	-3.2	40,704	-3.5	6	132	-8	2,721	-1.2
Florida.....	9	435	-1.4	4,247	-8.7					
Georgia.....	12	654	-1.5	6,116	-3.0	4	134	⁽¹⁰⁾	1,548	-6
Idaho.....										
Illinois.....	¹⁰ 19	1,114	-5.4	16,454	-3.1					
Indiana.....	20	1,525	-2.6	19,809	-4.0	10	182	-4.7	3,070	-7.5
Iowa.....	3	214	-1.8	3,322	-3.4					
Kansas.....	40	1,243	+2	13,651	+5	3	18	+38.5	261	+45.8
Kentucky.....	16	722	-3.1	8,885	-4.4	5	226	-1.3	3,467	-2.4
Louisiana.....										
Maine.....	20	434	-14.2	6,344	-16.3					
Maryland.....	25	1,980	-2	28,790	-2.0	9	443	+5	6,289	-7.7
Massachusetts.....	104	5,494	+4	68,155	+6	121	1,997	-3.0	53,662	-8.2
Michigan.....	23	1,620	-3.1	20,743	-3.7	18	604	-2.7	10,582	-6.3
Minnesota.....	14	808	-1.2	13,032	-5.1	12	350	-1.1	6,708	+1
Mississippi.....	6	315	-5.9	2,808	-8.2					
Missouri.....	35	2,467	-1.6	34,663	-1.7	11	384	+1.6	6,924	+4.2
Montana.....	13	312	+1.6	5,620	-6	3	22	-4.3	426	-8.6
Nebraska.....	7	449	-10.2	6,537	-10.2	3	56	+3.7	1,089	-4.5
Nevada.....	4	58	⁽¹⁰⁾	1,204	-5.4					
New Hampshire.....	17	292	-12.0	4,465	-11.6					
New Jersey.....	25	3,004	-1.4	61,164	-4.1	8	282	+4	7,593	-3.3
New Mexico.....	6	238	-4.0	8,656	-3.6					
New York.....	69	6,915	-1	119,831	-1.8	18	539	+1.0	11,545	-8.8
North Carolina.....	11	700	-1.1	7,287	-2.1					
North Dakota.....	8	172	-1.1	2,919	-3.9					
Ohio.....	88	4,631	-1.4	68,817	-4.4	46	1,652	+3	28,514	-4
Oklahoma.....	9	637	-1.5	7,866	-6.7	4	164	-3.0	2,184	-3.8
Oregon.....	4	320	-3	5,097	-2.3	3	41	-2.4	907	-5
Pennsylvania.....	43	3,295	-5	50,199	+1	22	1,138	+1	20,642	+3
Rhode Island.....	19	1,112	+7	19,261	+2.1	6	313	+1.0	6,136	+3.0
South Carolina.....	8	319	-4.5	3,069	-4.1	3	38	+2.7	517	+2.0
South Dakota.....	7	141	-2.1	1,923	-7.2					
Tennessee.....	14	1,057	-2.6	8,552	-5.7	5	45	-2.2	694	-4.4
Texas.....	25	1,460	+3.2	16,139	-8	15	396	-8	6,406	-4.1
Utah.....	7	523	-9	7,085	-1.5	8	131	-5.1	2,473	-1.5
Vermont.....	5	75	-3.8	961	-8.5	3	26	⁽¹⁰⁾	494	-8
Virginia.....	13	912	-3.6	10,585	-5.9	21	259	+2.4	3,891	-5
Washington.....	18	813	-1.6	15,615	-2.2	12	166	+2.5	3,254	+1.6
West Virginia.....	22	736	+1.7	9,902	+1.2	9	214	-9	2,989	+1.7
Wisconsin.....	¹⁰ 28	989	-3.5	13,984	-4.3					
Wyoming.....	3	86	-4.4	1,561	-4.9					

¹⁰ No change.

¹¹ Less than one-tenth of 1 per cent.

¹² Includes dyeing and cleaning.

Employment and Pay-Roll Totals in October, 1932, in Cities of Over 500,000 Population

IN THE following table are presented the fluctuations in employment and pay-roll totals in October, 1932, as compared with September, 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 OCTOBER, 1932, AS COMPARED WITH SEPTEMBER, 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
		September, 1932	October, 1932		September, 1932	October, 1932	
New York City.....	2, 043	292, 877	297, 529	+1. 6	\$8, 142, 581	\$8, 156, 284	+0. 2
Chicago, Ill.....	1, 856	198, 421	197, 699	- . 4	4, 650, 273	4, 630, 365	- . 4
Philadelphia, Pa.....	651	116, 543	121, 544	+4. 3	2, 534, 514	2, 661, 037	+5. 0
Detroit, Mich.....	689	163, 884	141, 423	-13. 7	2, 641, 685	2, 855, 263	+8. 1
Los Angeles, Calif.....	674	54, 699	54, 801	+ . 2	1, 275, 243	1, 277, 117	+ . 1
Cleveland, Ohio.....	1, 080	83, 225	84, 094	+1. 0	1, 689, 434	1, 747, 784	+3. 5
St. Louis, Mo.....	493	63, 558	64, 548	+1. 6	1, 324, 148	1, 358, 863	+2. 6
Baltimore, Md.....	554	45, 964	45, 954	-(1)	912, 491	908, 827	- . 4
Boston, Mass.....	2, 952	84, 905	87, 351	+2. 9	2, 057, 146	2, 080, 115	+1. 1
Pittsburgh, Pa.....	329	46, 332	47, 415	+2. 3	873, 730	885, 572	+1. 4
San Francisco, Calif.....	1, 097	44, 678	43, 173	-3. 4	1, 082, 014	1, 082, 935	+ . 1
Buffalo, N. Y.....	267	35, 913	36, 801	+2. 5	804, 645	825, 964	+2. 6
Milwaukee, Wis.....	473	36, 989	37, 146	+ . 4	728, 118	744, 222	+2. 2

¹ Less than one-tenth of 1 per cent.

Employment in Building Construction in October, 1932

EMPLOYMENT in the building-construction industry increased 0.5 per cent in October, 1932, as compared with September, 1932, and pay-roll totals decreased 2.7 per cent over the month interval.

The per cents of change of employment and pay-roll totals in October, 1932, as compared with September, 1932, are based on returns made by 10,397 firms employing, in October, 85,300 workers in the various trades in the building-construction industry. These reports cover 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, SEPTEMBER AND OCTOBER, 1932

Locality	Number of firms reporting	Number on pay roll		Per cent of change	Amount of pay roll		Per cent of change
		Sept. 15	Oct. 15		Sept. 15	Oct. 15	
Alabama: Birmingham.....	71	425	472	+11.1	\$5,787	\$6,513	+12.5
California:							
Los Angeles ¹	24	809	820	+1.4	17,161	17,361	+1.2
San Francisco-Oakland ¹	30	842	726	-13.8	17,581	15,164	-13.7
Other reporting localities ¹	20	355	368	+3.7	7,637	9,212	+20.6
Colorado: Denver.....	200	711	759	+6.8	15,422	16,629	+7.8
Connecticut:							
Bridgeport.....	127	549	582	+6.0	12,905	13,191	+2.2
Hartford.....	215	978	1,067	+9.1	25,883	27,838	+5.6
New Haven.....	186	1,385	1,198	-13.5	37,747	32,655	-13.5
Delaware: Wilmington.....	117	1,259	1,282	+2.6	26,358	26,796	+1.7
District of Columbia.....	553	6,597	7,120	+7.9	186,262	195,571	+5.0
Florida:							
Jacksonville.....	49	281	273	-2.8	3,719	3,709	-.3
Miami.....	77	670	603	-10.0	12,831	12,382	-3.5
Georgia: Atlanta.....	127	1,408	1,536	+9.1	20,357	22,828	+12.1
Illinois:							
Chicago ¹	124	1,267	1,437	+13.4	40,010	41,758	+4.4
Other reporting localities ¹	70	571	655	+14.7	13,996	13,946	-.4
Indiana:							
Evansville.....	37	236	239	+1.3	4,598	4,838	+5.2
Fort Wayne.....	102	536	502	-6.3	10,845	9,967	-8.1
Indianapolis.....	169	1,067	1,055	-1.1	25,026	22,396	-10.5
South Bend.....	41	205	177	-13.7	4,111	3,568	-13.2
Iowa: Des Moines.....	108	862	1,015	+17.7	17,855	25,094	+40.5
Kansas: Wichita.....	68	522	547	+4.8	10,190	12,462	+22.3
Kentucky: Louisville.....	126	833	825	-1.0	15,981	16,405	+2.7
Louisiana: New Orleans.....	135	2,041	1,466	-28.2	33,609	26,615	-20.8
Maine: Portland.....	104	472	567	+20.1	11,028	13,455	+22.0
Maryland: Baltimore ¹	116	1,182	1,070	-9.5	22,526	18,765	-16.7
Massachusetts: All reporting localities ¹	734	5,900	6,007	+1.8	175,592	160,993	-8.3
Michigan:							
Detroit.....	438	3,033	3,166	+4.4	67,211	71,568	+6.5
Flint.....	49	161	199	+23.6	2,685	3,313	+23.4
Grand Rapids.....	108	673	652	-3.1	14,979	13,172	-12.1
Minnesota:							
Duluth.....	54	373	315	-15.5	6,121	6,729	+9.9
Minneapolis.....	228	1,789	1,818	+1.6	39,817	39,328	-1.2
St. Paul.....	146	919	902	-1.8	22,974	21,071	-8.4
Missouri:							
Kansas City ¹	254	1,401	1,444	+3.2	35,473	34,523	-2.7
St. Louis.....	451	2,552	2,588	+1.4	68,605	69,333	+1.1
Nebraska: Omaha.....	139	861	776	-9.9	18,044	17,374	-3.7
New York:							
New York City ¹	347	10,498	10,324	-1.7	413,291	364,105	-11.9
Other reporting localities ¹	175	3,932	3,901	-.8	114,311	112,903	-1.2
North Carolina: Charlotte.....	38	262	200	-23.7	3,252	2,500	-23.1
Ohio:							
Akron.....	79	251	297	+18.3	4,598	5,947	+29.3
Cincinnati ¹	482	2,443	2,491	+2.0	58,536	56,826	-2.9
Cleveland.....	478	2,435	2,769	+13.7	63,817	74,026	+16.0
Dayton.....	116	395	403	+2.0	8,534	9,166	+7.4
Youngstown.....	66	315	312	-1.0	6,034	5,459	-9.5
Oklahoma:							
Oklahoma City.....	98	459	365	-20.5	7,789	6,352	-18.4
Tulsa.....	52	129	141	+9.3	2,258	2,658	+17.7
Oregon: Portland.....	188	1,015	865	-14.8	22,021	18,015	-18.2
Pennsylvania: ⁴							
Erie area ¹	25	205	154	-24.9	4,667	2,983	-36.1
Philadelphia area ¹	443	3,957	3,838	-3.0	90,538	85,225	-5.9
Pittsburgh area ¹	220	1,208	1,132	-6.3	28,359	31,670	+11.7
Reading-Lebanon area ¹	45	332	323	-2.7	6,872	6,753	-1.7
Scranton area ¹	31	152	192	+26.3	3,180	4,944	+55.5
Other reporting areas ¹	285	2,442	2,306	-5.6	52,178	48,316	-7.4
Rhode Island: Providence.....	235	1,598	1,492	-6.6	40,149	36,528	-9.0
Tennessee:							
Chattanooga.....	31	203	224	+10.3	2,900	3,030	+4.6
Knoxville.....	48	562	574	+2.1	6,925	5,867	-15.3
Memphis.....	92	472	356	-24.6	9,011	6,252	-30.6
Nashville.....	72	609	818	+34.3	9,990	13,856	+38.7

¹ Data supplied by cooperating State bureaus.

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

³ Includes Covington and Newport, Ky.

⁴ Each separate area includes from 2 to 8 counties.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE **BUILDING CONSTRUCTION** INDUSTRY IN IDENTICAL FIRMS, SEPTEMBER AND OCTOBER, 1932—Continued

Locality	Number of firms reporting	Number on pay roll		Per cent of change	Amount of pay roll		Per cent of change
		Sept. 15	Oct. 15		Sept. 15	Oct. 15	
Texas:							
Dallas.....	159	892	975	+9.3	\$14,773	\$16,264	+10.1
El Paso.....	23	104	98	-5.8	1,151	1,392	+20.9
Houston.....	138	680	680	(1)	12,338	11,549	-6.4
San Antonio.....	105	736	775	+5.3	11,037	11,739	+6.4
Utah: Salt Lake City.....	84	381	328	-13.9	7,091	6,777	-4.4
Virginia:							
Norfolk-Portsmouth.....	88	495	590	+19.2	9,293	9,855	+6.0
Richmond.....	142	887	987	+11.3	17,807	19,725	+10.8
Washington:							
Seattle.....	170	893	1,138	+27.4	20,045	23,031	+14.9
Spokane.....	54	202	170	-15.8	4,124	3,386	-17.9
Tacoma.....	79	152	109	-28.3	2,740	1,953	-28.7
West Virginia: Wheeling.....	45	156	179	+14.7	3,452	3,913	+13.4
Wisconsin: All reporting localities ¹	62	1,587	1,496	-5.7	31,678	28,371	-10.4
Total, all localities.....	10,397	84,854	85,300	+0.5	2,145,665	2,088,348	-2.7

¹ Data supplied by cooperating State bureaus.

⁴ No change.

Employment on Class I Steam Railroads in the United States

DATA are not yet available concerning railroad employment for October, 1932. Reports of the Interstate Commerce Commission for Class I railroads show that the number of employees (exclusive of executives and officials) increased from 983,112 on August 15, 1932, to 997,321 on September 15, 1932, or 1.4 per cent; the amount of pay roll decreased from \$114,850,526 in August, to \$113,524,006 in September, or 1.2 per cent.

The monthly trend of employment from January, 1923, to September, 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.—INDEX OF EMPLOYMENT, ON **CLASS I STEAM RAILROADS** IN THE UNITED STATES, JANUARY, 1923, TO SEPTEMBER, 1932

[12-month average, 1926=100]

Month	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932
January.....	98.3	96.9	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	73.5	60.0
May.....	105.0	99.2	97.8	100.2	99.4	94.5	94.9	88.6	73.9	59.7
June.....	107.1	98.0	98.6	101.6	100.9	95.9	96.1	86.5	72.8	57.8
July.....	108.2	98.1	99.4	102.9	101.0	95.6	96.6	84.7	72.4	56.4
August.....	109.4	99.0	99.7	102.7	99.5	95.7	97.4	83.7	71.2	55.0
September.....	107.8	99.7	99.9	102.8	99.1	95.3	96.8	82.2	69.3	55.8
October.....	107.3	100.8	100.7	103.4	98.9	95.3	96.9	80.4	67.7	-----
November.....	105.2	99.0	99.1	101.2	95.7	92.9	93.0	77.0	64.5	-----
December.....	99.4	96.0	97.1	98.2	91.9	89.7	88.8	74.9	62.6	-----
Average.....	104.1	98.3	97.9	100.0	97.5	92.9	93.3	83.5	70.6	58.5

rage for 9 months.

Wage-Rate Changes in American Industries

Manufacturing Industries

IN THE following table is presented information concerning wage-rate adjustments occurring between September 15 and October 15, as shown by reports received from manufacturing establishments supplying employment data to this bureau. Of the 18,211 manufacturing establishments included in the October survey, 18,009 establishments, or 98.9 per cent of the total, reported no change in wage rates over the month interval. The 2,616,245 employees in the establishments reporting no changes in wage rates constituted 97.4 per cent of the total number of employees covered by the October trend-of-employment survey of manufacturing industries.

Decreases in wage rates were reported by 194 establishments in 54 of the 89 industries surveyed. These establishments represented 1.1 per cent of the total number of establishments covered. The wage-rate decreases reported averaged 17.6 per cent and affected 68,859 employees, or 2.6 per cent of all employees in the establishments reporting.

Eight establishments in six industries reported wage-rate increases in October averaging 14.6 per cent and affecting 1,473 employees.

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING OCTOBER 15, 1932

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.....	18, 211	2, 686, 577	18, 009	8	194	2, 616, 245	1, 473	68, 859
Per cent of total.....	100. 0	100. 0	98. 9	(1)	1. 1	97. 4	(1)	2. 6
Slaughtering and meat packing.....	234	87, 510	233	—	1	87, 270	—	240
Confectionery.....	325	43, 294	320	—	5	43, 159	—	135
Ice cream.....	391	11, 320	389	—	2	11, 267	—	53
Flour.....	437	16, 255	437	—	—	16, 255	—	—
Baking.....	972	63, 343	964	—	8	62, 616	—	727
Sugar refining, cane.....	15	8, 268	15	—	—	8, 268	—	—
Beet sugar.....	57	18, 012	57	—	—	18, 012	—	—
Beverages.....	332	10, 400	326	—	6	10, 295	—	105
Butter.....	316	5, 747	310	—	6	5, 694	—	53
Cotton goods.....	694	239, 434	683	1	10	237, 314	40	2, 080
Hosiery and knit goods.....	458	109, 616	456	1	1	108, 541	800	275
Silk goods.....	244	48, 488	244	—	—	48, 488	—	—
Woolen and worsted goods.....	252	58, 643	249	1	2	58, 262	299	82
Carpets and rugs.....	29	14, 048	29	—	—	14, 048	—	—
Dyeing and finishing textiles.....	149	34, 051	145	—	4	32, 953	—	1, 098
Clothing, men's.....	370	63, 185	366	3	1	63, 019	138	28
Shirts and collars.....	115	16, 288	114	—	1	16, 243	—	45
Clothing, women's.....	385	27, 166	383	—	2	27, 119	—	47
Millinery.....	131	10, 065	130	—	1	10, 063	—	22
Corsets and allied garments.....	30	5, 590	30	—	—	5, 590	—	—
Cotton small wares.....	112	9, 489	110	—	2	9, 099	—	390
Hats, fur-felt.....	38	6, 110	38	—	—	6, 110	—	—
Men's furnishings.....	76	6, 430	76	—	—	6, 430	—	—
Iron and steel.....	209	175, 105	208	—	1	174, 924	—	181
Cast-iron pipe.....	42	5, 749	42	—	—	5, 749	—	—
Structural and ornamental iron- work.....	190	14, 375	187	—	3	14, 028	—	347
Hardware.....	110	20, 845	108	—	2	20, 819	—	26
Steam fittings and steam and hot- water heating apparatus.....	97	14, 103	95	1	1	14, 028	16	59
Stoves.....	162	17, 571	161	—	1	17, 562	—	9
Bolts, nuts, washers, and rivets.....	69	8, 406	69	—	—	8, 406	—	—
Cutlery (not including silver and plated cutlery) and edge tools.....	128	9, 023	128	—	—	9, 023	—	—

¹ Less than one-tenth of one per cent.

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING OCTOBER 15, 1932—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
Forgings, iron and steel.....	61	5,416	60	—	1	5,234	—	182
Plumbers' supplies.....	70	5,935	69	—	1	5,927	—	8
Tin cans and other tinware.....	59	9,088	58	—	1	9,079	—	9
Tools (not including edge tools, machine tools, files, or saws).....	132	6,796	132	—	—	6,796	—	—
Wirework.....	70	5,055	70	—	—	5,055	—	—
Lumber.....								
Sawmills.....	643	61,721	636	—	7	61,185	—	536
Millwork.....	469	18,230	466	—	3	18,162	—	68
Furniture.....	483	46,355	477	1	5	46,006	180	169
Turpentine and rosin.....	21	1,050	21	—	—	1,050	—	—
Leather.....	163	24,289	162	—	1	24,280	—	9
Boots and shoes.....	349	114,035	349	—	—	114,035	—	—
Paper and pulp.....	406	78,871	404	—	2	78,385	—	486
Paper boxes.....	310	20,833	307	—	3	20,764	—	69
Printing.....								
Book and job.....	759	49,145	745	—	14	48,271	—	874
Newspapers and periodicals.....	469	71,295	457	—	12	69,729	—	1,566
Chemicals.....	114	20,359	113	—	1	20,287	—	72
Fertilizers.....	200	5,962	199	—	1	5,951	—	11
Petroleum refining.....	114	43,049	114	—	—	43,049	—	—
Cottonseed, oil, cake, and meal.....	50	2,907	50	—	—	2,907	—	—
Druggists preparations.....	41	7,526	41	—	—	7,526	—	—
Explosives.....	24	3,025	24	—	—	3,025	—	—
Paints and varnishes.....	364	15,355	361	—	3	15,319	—	36
Rayon.....	22	27,073	22	—	—	27,073	—	—
Soap.....	88	12,494	88	—	—	12,494	—	—
Cement.....	125	14,715	125	—	—	14,715	—	—
Brick, tile, and terra cotta.....	680	18,984	675	—	5	18,724	—	260
Pottery.....	119	14,335	118	—	1	14,329	—	6
Glass.....	195	33,975	188	—	7	31,456	—	2,519
Marble, granite, slate, and other stone products.....	228	6,139	227	—	1	6,122	—	17
Stamped and enameled ware.....	88	12,584	86	—	2	12,017	—	567
Brass, bronze, and copper products.....	209	27,263	205	—	4	26,517	—	746
Aluminum manufactures.....	26	4,894	26	—	—	4,894	—	—
Clocks, time recording devices, and clock movements.....	22	3,877	22	—	—	3,877	—	—
Gas and electric fixtures, lamps, lanterns, and reflectors.....	54	4,858	54	—	—	4,858	—	—
Plated ware.....	54	7,715	53	—	1	7,637	—	78
Smelting and refining—copper, lead, and zinc.....	27	7,363	26	—	1	7,097	—	266
Jewelry.....	147	9,398	145	—	2	9,058	—	340
Chewing and smoking tobacco and snuff.....	33	10,330	33	—	—	10,330	—	—
Cigars and cigarettes.....	212	46,255	211	—	1	46,175	—	80
Automobiles.....	245	151,233	224	—	21	102,427	—	48,806
Aircraft.....	30	5,698	28	—	2	5,629	—	69
Cars, electric and steam railroad.....	39	5,770	38	—	1	5,654	—	116
Locomotives.....	15	2,449	15	—	—	2,449	—	—
Shipbuilding.....	92	25,610	92	—	—	25,610	—	—
Rubber tires and inner tubes.....	40	34,387	39	—	1	31,809	—	2,578
Rubber boots and shoes.....	8	9,562	8	—	—	9,562	—	—
Rubber goods, other than boots, shoes, tires, and inner tubes.....	102	19,712	102	—	—	19,712	—	—
Agricultural implements.....	81	4,978	78	—	3	4,913	—	65
Electrical machinery, apparatus, and supplies.....	292	104,177	290	—	2	102,738	—	1,439
Engines, turbines, tractors, and water wheels.....	88	15,067	86	—	2	15,046	—	41
Cash registers, adding machines, and calculating machines.....	44	12,898	44	—	—	12,898	—	—
Foundry and machine-shop products.....	1,075	97,001	1,065	—	10	96,558	—	443
Machine tools.....	150	10,259	148	—	2	10,231	—	28
Textile machinery and parts.....	43	6,459	43	—	—	6,459	—	—
Typewriters and supplies.....	18	8,655	18	—	—	8,655	—	—
Radio.....	42	20,650	42	—	—	20,650	—	—
Electric-railroad repair shops.....	395	20,562	389	—	6	20,360	—	202
Steam-railroad repair shops.....	543	74,932	539	—	4	74,836	—	96

Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between September 15 and October 15 in 14 groups of nonmanufacturing industries are presented in the following table.

No changes in wage rates were reported in the anthracite mining and telephone and telegraph groups. In the remaining 12 groups a number of 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 operation and maintenance, 8.2 per cent; quarrying and nonmetallic mining, 8.9 per cent; power and light and laundries, 9.6 per cent each; hotels, 10.8 per cent; wholesale trade, 11.3 per cent; metalliferous mining, 12.5 per cent; canning and preserving, 12.9 per cent; retail trade, 13.9 per cent; dyeing and cleaning, 14.4 per cent; crude petroleum producing, 14.5 per cent; and bituminous coal mining, 19.7 per cent. Increases in wage rates from September to October were reported by 12 establishments in 3 of these industrial groups. The wage-rate increases reported averaged 5 per cent in wholesale trade, 10.8 per cent in hotels, and 15 per cent in the power and light group. The number of establishments reporting and number of employees covered in the October employment survey, together with a division of these establishments and employees into several groups according to the information reported, follows:

TABLE 2.—WAGE CHANGES IN NONMANUFACTURING INDUSTRIES DURING MONTH ENDING OCTOBER, 15, 1932

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	87,359	160	—	—	87,359	—	—
Per cent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Bituminous coal mining.....	1,143	167,450	1,123	—	20	162,862	—	4,588
Per cent of total.....	100.0	100.0	98.3	—	1.7	97.3	—	2.7
Metalliferous mining.....	287	21,230	278	—	9	20,748	—	482
Per cent of total.....	100.0	100.0	96.9	—	3.1	97.7	—	2.3
Quarrying and nonmetallic mining.....	620	23,098	613	—	7	22,839	—	259
Per cent of total.....	100.0	100.0	98.9	—	1.1	98.9	—	1.1
Crude petroleum producing.....	284	23,218	282	—	2	23,171	—	47
Per cent of total.....	100.0	100.0	99.3	—	0.7	99.8	—	0.2
Telephone and telegraph.....	8,282	270,117	8,282	—	—	270,117	—	—
Per cent of total.....	100.0	100.0	100.0	—	—	100.0	—	—
Power and light.....	3,528	214,057	3,518	4	6	210,540	812	2,705
Per cent of total.....	100.0	100.0	99.7	0.1	0.2	98.4	0.4	1.3
Electric-railroad and motor-bus op- eration and maintenance.....	501	134,422	491	—	10	132,550	—	1,872
Per cent of total.....	100.0	100.0	98.0	—	2.0	98.6	—	1.4
Wholesale trade.....	2,664	69,667	2,632	1	31	68,857	12	798
Per cent of total.....	100.0	100.0	98.8	(1)	1.2	98.8	(1)	1.1
Retail trade.....	14,135	345,131	14,091	—	44	344,042	—	1,089
Per cent of total.....	100.0	100.0	99.7	—	0.3	99.7	—	0.3
Hotels.....	2,557	135,846	2,537	7	13	134,626	204	1,016
Per cent of total.....	100.0	100.0	99.2	0.3	0.5	99.1	0.2	0.7

¹ Less than one-tenth of 1 per cent.

TABLE 2.—WAGE CHANGES IN NONMANUFACTURING INDUSTRIES DURING MONTH
ENDING OCTOBER, 1932—Continued

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
Canning and preserving.....	939	56,898	937	-----	2	56,862	-----	36
Per cent of total.....	100.0	100.0	99.8	-----	0.2	99.9	-----	0.1
Laundries.....	1,017	60,661	1,005	-----	12	59,974	-----	687
Per cent of total.....	100.0	100.0	98.8	-----	1.2	98.9	-----	1.1
Dyeing and cleaning.....	382	12,096	377	-----	5	11,995	-----	101
Per cent of total.....	100.0	100.0	98.7	-----	1.3	99.2	-----	0.8

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