

# UNITED STATES DEPARTMENT OF LABOR

W. N. DOAK, Secretary

## BUREAU OF LABOR STATISTICS

CHARLES E. BALDWIN, Acting Commissioner

# TREND OF EMPLOYMENT

NOVEMBER, 1932



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# TREND OF EMPLOYMENT

## Summary for November, 1932

**E**MPLOYMENT decreased 1 per cent in November, 1932, as compared with October, 1932, and pay-roll totals decreased 3.1 per cent. These figures are based on the pay rolls ending nearest the 15th of the month. The more pronounced decrease in pay rolls than in employment from October to November is due to some extent to election day and the observance of Armistice Day in certain localities during the November pay period.

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 October and November, 1932, together with the per cents of change in November are shown in the following tabulation:

SUMMARY OF EMPLOYMENT AND EARNINGS, OCTOBER AND NOVEMBER, 1932

Industrial group	Estab- lish- ments	Employment		Per cent of change	Earnings in 1 week		Per cent of change
		October, 1932	Novem- ber, 1932		October, 1932	Novem- ber, 1932	
<b>Manufacturing.....</b>	<b>18, 178</b>	<b>2, 700, 377</b>	<b>2, 691, 711</b>	<b>-0.8</b>	<b>\$47, 261, 969</b>	<b>\$45, 969, 944</b>	<b>-2.8</b>
<b>Coal mining.....</b>	<b>1, 353</b>	<b>257, 083</b>	<b>261, 279</b>	<b>+1.6</b>	<b>5, 184, 395</b>	<b>4, 576, 107</b>	<b>-11.7</b>
Anthracite.....	160	87, 359	85, 685	-1.9	2, 652, 835	2, 027, 786	-23.6
Bituminous.....	1, 193	169, 724	175, 585	+3.5	2, 531, 560	2, 548, 321	+0.7
<b>Metalliferous mining.....</b>	<b>281</b>	<b>21, 171</b>	<b>22, 171</b>	<b>+4.7</b>	<b>406, 779</b>	<b>424, 270</b>	<b>+4.3</b>
<b>Quarrying and nonmetallic mining.....</b>	<b>617</b>	<b>23, 696</b>	<b>22, 240</b>	<b>-5.8</b>	<b>366, 674</b>	<b>330, 071</b>	<b>-10.0</b>
<b>Crude petroleum producing.....</b>	<b>276</b>	<b>22, 983</b>	<b>22, 848</b>	<b>-0.6</b>	<b>658, 784</b>	<b>657, 513</b>	<b>-0.2</b>
<b>Public utilities.....</b>	<b>12, 314</b>	<b>619, 419</b>	<b>613, 700</b>	<b>-0.9</b>	<b>17, 122, 334</b>	<b>16, 895, 731</b>	<b>-1.3</b>
Telephone and telegraph.....	8, 281	270, 117	267, 789	-0.9	7, 202, 542	7, 064, 043	-1.9
Power and light.....	3, 535	215, 432	212, 984	-1.1	6, 280, 081	6, 179, 336	-1.6
Electric-railroad and motor- bus operation and main- tenance.....	498	133, 870	132, 927	-0.7	3, 639, 711	3, 652, 352	+0.3
<b>Trade.....</b>	<b>17, 102</b>	<b>416, 068</b>	<b>417, 552</b>	<b>+0.4</b>	<b>8, 772, 863</b>	<b>8, 738, 494</b>	<b>-0.4</b>
Wholesale.....	2, 757	72, 095	71, 859	-0.3	1, 942, 879	1, 925, 843	-0.9
Retail.....	14, 345	343, 971	345, 693	+0.5	6, 829, 984	6, 812, 561	-0.3
<b>Hotels.....</b>	<b>2, 427</b>	<b>134, 814</b>	<b>132, 868</b>	<b>-1.5</b>	<b>1, 850, 293</b>	<b>1, 815, 326</b>	<b>-1.9</b>
<b>Canning and preserving.....</b>	<b>933</b>	<b>62, 811</b>	<b>59, 132</b>	<b>-37.7</b>	<b>696, 240</b>	<b>461, 811</b>	<b>-33.7</b>
<b>Laundries.....</b>	<b>994</b>	<b>59, 694</b>	<b>58, 583</b>	<b>-1.7</b>	<b>829, 326</b>	<b>809, 741</b>	<b>-2.3</b>
<b>Dyeing and cleaning.....</b>	<b>368</b>	<b>12, 638</b>	<b>11, 416</b>	<b>-5.2</b>	<b>217, 329</b>	<b>193, 279</b>	<b>-11.1</b>
<b>Building construction.....</b>	<b>10, 268</b>	<b>86, 627</b>	<b>78, 979</b>	<b>-7.8</b>	<b>2, 111, 938</b>	<b>1, 996, 829</b>	<b>-9.7</b>
<b>Bank, brokerage, insurance, and real estate.....</b>	<b>2, 773</b>	<b>115, 948</b>	<b>115, 127</b>	<b>-0.6</b>	<b>4, 151, 579</b>	<b>4, 122, 289</b>	<b>-0.7</b>
<b>Total.....</b>	<b>67, 884</b>	<b>4, 581, 437</b>	<b>4, 487, 587</b>	<b>-1.9</b>	<b>89, 721, 503</b>	<b>86, 981, 315</b>	<b>-3.1</b>

<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> 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 November, 1932. (See section "Class I steam railroads" for latest figures reported.)

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

Industrial group	Per capita weekly earnings in November, 1932	Per cent of change November, 1932, compared with—	
		October, 1932	November, 1931
Manufacturing.....	\$17.08	-2.4	-16.9
Coal mining:			
Anthracite.....	23.67	-22.1	-14.6
Bituminous.....	14.51	-2.7	-18.6
Metalliferous mining.....	19.14	-4	-11.9
Quarrying and nonmetallic mining.....	14.84	-4.4	-24.8
Crude petroleum producing.....	28.78	+4	-16.9
Public utilities:			
Telephone and telegraph.....	26.38	-1.1	-8.4
Power and light.....	29.01	-5	-8.5
Electric-railroad and motor-bus operation and maintenance.....	27.48	+1.1	-13.6
Trade:			
Wholesale.....	26.80	-6	-13.9
Retail.....	19.71	-8	-12.8
Hotels (cash payments only) <sup>1</sup> .....	13.66	-4	-14.8
Canning and preserving.....	11.80	+6.5	-13.9
Laundries.....	15.19	-1.6	-15.2
Dyeing and cleaning.....	16.93	-6.2	-19.1
Building construction.....	24.14	-2.1	( <sup>2</sup> )
Banks, brokerage, insurance, and real estate.....	35.81	-1	( <sup>2</sup> )
Total.....	\$ 18.85	\$ -2.2	\$ -15.0

<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 November, 1932

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

**E**MPLOYMENT in manufacturing industries decreased 0.8 per cent in November, 1932, as compared with October, 1932, and pay-roll totals increased 3.3 per cent over the month interval. Comparing November, 1932, with November, 1931, decreases of 11.5 per cent in employment and 26.5 per cent in pay rolls are shown over the 12-month period.

The per cents of change in employment and pay-roll totals in November, 1932, as compared with October, 1932, are based on returns made by 18,178 establishments in 89 of the principal manufacturing industries in the United States, having in November 2,691,711 employees, whose earnings in one week were \$45,969,944.

The index of employment in November, 1932, was 59.4, as compared with 59.9 in October, 58.5 in September, 1932, and 67.1 in November,

1931; the pay-roll index in November, 1932, was 38.6, as compared with 39.9 in October, 38.1 in September, 1932, and 52.5 in November, 1931. The 12-month average for 1926 equals 100.

In Table 1, which follows, are shown the number of identical establishments reporting in both October and November, 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 November 15, the amount of their weekly earnings in November, the per cents of change over the month and year intervals, and the indexes of employment and pay roll in November, 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 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 OCTOBER AND NOVEMBER, 1932, AND NOVEMBER, 1931

Industry	Establishments reporting in both October and November, 1932	Employment			Pay-roll totals			Index numbers, November, 1932 (average, 1926=100)	
		Number on pay roll, November, 1932	Per cent of change		Amount of pay roll (1 week), November, 1932	Per cent of change		Employment	Pay-roll totals
			October, to November, 1932	November, 1931, to November, 1932		October, to November, 1932	November, 1931, to November, 1932		
<b>Food and kindred products.</b>	<b>3,044</b>	<b>258,780</b>	<b>-2.0</b>	<b>-5.1</b>	<b>\$5,152,367</b>	<b>-4.3</b>	<b>-19.3</b>	<b>86.4</b>	<b>66.7</b>
Slaughtering and meat packing.....	230	86,284	-1.7	-4.6	1,716,428	-5.6	-19.3	86.2	66.9
Confectionery.....	318	41,490	-4.8	+2.5	559,008	-11.7	-18.0	92.6	64.9
Ice cream.....	397	10,969	-6.4	-8.6	284,436	-8.4	-23.8	64.1	50.4
Flour.....	439	15,597	-2.1	-5.6	335,840	-6.4	-18.7	83.0	67.7
Baking.....	943	61,062	-1.8	-9.8	1,350,289	-3.4	-20.0	79.4	66.2
Sugar refining, cane.....	15	8,120	-1.8	-7.1	193,273	-3.4	-15.9	76.4	62.5
Beet sugar.....	58	20,012	+11.5	+17.3	364,344	+24.3	-11.9	238.5	156.3
Beverages.....	334	9,522	-6.3	-11.7	224,960	-6.9	-24.0	68.0	51.4
Butter.....	310	5,734	-1.1	-7.7	124,409	-2.3	-19.8	95.7	76.7
<b>Textiles and their products.</b>	<b>3,130</b>	<b>640,939</b>	<b>-2.3</b>	<b>-1.4</b>	<b>8,357,636</b>	<b>-9.0</b>	<b>-16.3</b>	<b>73.0</b>	<b>47.4</b>
Cotton goods.....	701	238,359	-4	+2.7	2,543,378	-3.8	-8.0	75.5	51.6
Hosiery and knit goods.....	443	110,933	+2.7	+3.8	1,562,319	-9	-8.0	89.1	66.1
Silk goods.....	245	45,403	-6.4	-14.0	566,596	-11.9	-30.8	60.8	39.6
Woolen and worsted goods.....	257	55,676	-7.3	+5.8	880,387	-12.4	-11.1	71.3	49.7
Carpets and rugs.....	32	14,426	+1.7	-15.4	227,822	-4.1	-31.0	55.1	33.2
Dyeing and finishing textiles.....	152	34,274	+3	-5.3	602,822	-6.2	-23.3	78.1	54.0
Clothing, men's.....	384	64,041	-1.7	(1)	834,949	-13.4	-11.6	69.7	38.0
Shirts and collars.....	117	16,023	+2.3	-9.1	177,113	+4.0	-13.1	65.3	43.7
Clothing, women's.....	412	25,517	-8.2	-11.8	426,378	-20.2	-32.2	64.8	38.4
Millinery.....	130	8,407	-16.4	-5.9	122,564	-24.8	-27.6	64.1	37.6
Corsets and allied garments.....	31	5,649	-1.3	-1.1	82,785	-10.0	-11.7	99.7	77.0
Cotton small wares.....	114	9,793	+1.7	-3.9	142,994	-6.5	-17.6	82.3	57.5
Hats, fur-felt.....	37	5,633	-6.3	-9	109,823	-17.0	-5	69.4	42.9
Men's furnishings.....	75	6,805	+6.4	+1.5	89,606	+8.2	-26.4	73.2	49.1

<sup>1</sup> No change.

**TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN OCTOBER AND NOVEMBER, 1932, AND NOVEMBER, 1931—Continued**

Industry	Estab- lish- ments report- ing in both Octo- ber and Novem- ber, 1932	Employment			Pay-roll totals			Index num- bers, Novem- ber, 1932 (average, 1926=100)	
		Number on pay roll, No- vember, 1932	Per cent of change		Amount of pay roll (1 week), Novem- ber, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			Octo- ber, to No- vember, 1932	Novem- ber, 1931, to No- vember, 1932		Octo- ber, to No- vember, 1932	Novem- ber, 1931, to No- vember, 1932		
<b>Iron and steel and their products, not including machinery</b>	<b>1,397</b>	<b>237,875</b>	<b>+2.3</b>	<b>-17.6</b>	<b>\$4,242,992</b>	<b>-2.3</b>	<b>-36.4</b>	<b>53.2</b>	<b>26.0</b>
Iron and steel	210	175,965	+4	-14.9	2,287,778	-8	-36.6	53.2	23.0
Cast-iron pipe	40	5,754	+1.9	-39.4	67,169	-4.1	-60.5	30.1	14.3
Structural and ornamental ironwork	184	12,966	-2.3	-36.7	223,967	-6	-49.0	40.3	23.5
Hardware	113	21,415	+1.5	-18.5	279,499	+6	-40.0	49.9	24.5
Steam fittings and steam and hot-water heating apparatus	100	14,930	+2.8	-25.3	259,760	-5.4	-35.0	38.4	22.3
Stoves	162	17,357	-8	-8.3	294,874	-14.7	-22.7	55.0	31.7
Bolts, nuts, washers, and rivets	69	8,292	-1.4	-14.1	128,031	+2.5	-29.7	61.4	34.4
Cutlery (not including silver and plated cutlery) and edge tools	127	9,031	-3	-12.2	161,738	-3.5	-25.4	64.2	42.3
Forgings, iron and steel	61	4,934	-3.8	-27.5	75,471	+1.5	-46.5	53.1	26.3
Plumbers' supplies	69	6,410	+8.4	-24.1	103,825	+10.8	-39.7	55.5	31.8
Tin cans and other tinware	61	8,677	-4.7	-1.3	159,426	-12.0	-14.4	73.2	41.7
Tools (not including edge tools, machine tools, files, or saws)	130	6,959	+2.7	-24.1	113,611	+1.7	-36.5	61.8	35.7
Wirework	71	5,185	-1.5	-16.5	87,843	-4.8	-30.1	90.1	61.8
<b>Lumber and allied products</b>	<b>1,577</b>	<b>123,355</b>	<b>-2.3</b>	<b>-26.8</b>	<b>1,561,764</b>	<b>-0.3</b>	<b>-38.6</b>	<b>38.1</b>	<b>26.8</b>
Lumber, sawmills	635	60,147	-2.9	-19.9	686,460	-5.2	-39.5	35.1	18.1
Lumber, millwork	454	17,607	-1.0	-28.9	234,722	-6	-42.4	38.9	20.0
Furniture	467	44,600	-2.1	-20.2	606,355	-10.9	-37.3	47.4	25.6
Turpentine and resin	21	1,041	-9	-8.6	14,227	-2.1	-15.0	44.8	36.8
<b>Leather and its manufac- tures</b>	<b>505</b>	<b>126,453</b>	<b>-7.9</b>	<b>+4.4</b>	<b>1,751,635</b>	<b>-20.2</b>	<b>-7.0</b>	<b>71.9</b>	<b>42.4</b>
Leather	162	25,274	+2.6	+1	466,153	-2.4	-10.0	71.7	54.1
Boots and shoes	343	101,184	-10.1	+5.6	1,285,527	-25.8	-5.8	72.0	39.0
<b>Paper and printing</b>	<b>1,960</b>	<b>220,301</b>	<b>-1</b>	<b>-9.6</b>	<b>5,470,172</b>	<b>-2.1</b>	<b>-22.4</b>	<b>80.1</b>	<b>65.3</b>
Paper and pulp	408	80,298	-3	-4.3	1,447,150	-3.3	-20.9	75.0	50.8
Paper boxes	308	21,090	+6	-11.7	375,984	-3.5	-21.4	74.1	61.6
Printing— Book and job	769	48,658	-1.0	-16.2	1,274,719	-4.1	-29.3	71.8	57.0
Newspapers and peri- odicals	475	70,255	+5	-6.7	2,372,319	+4	-17.9	97.9	85.7
<b>Chemicals and allied prod- ucts</b>	<b>1,050</b>	<b>148,088</b>	<b>+7</b>	<b>-7.5</b>	<b>3,360,339</b>	<b>-2</b>	<b>-18.3</b>	<b>76.0</b>	<b>60.8</b>
Chemicals	114	20,483	+7	-8.7	488,655	-2	-20.1	85.3	61.6
Fertilizers	203	6,119	+1.9	-1.7	77,196	+2.4	-19.6	46.0	30.8
Petroleum refining	139	51,750	-6	-8.8	1,391,128	-3	-19.0	61.5	52.0
Cottonseed oil, cake, and meal	53	2,919	+1.0	-3.7	31,276	+4.6	-25.4	54.7	47.0
Druggists' preparations	42	7,879	+2	-14.2	160,720	+1.9	-19.0	71.9	71.8
Explosives	24	3,156	+4.3	-16.2	63,981	+5.8	-30.1	79.0	54.1
Paints and varnishes	363	15,161	-1.7	-10.9	324,902	-5.4	-24.0	67.1	51.7
Rayon	23	27,919	+2.3	-4.5	478,342	+1.6	-9.4	142.8	120.2
Soap	89	12,702	+1.4	-7	284,189	-1.7	-9.8	98.3	83.0
<b>Stone, clay, and glass prod- ucts</b>	<b>1,327</b>	<b>86,086</b>	<b>-2.0</b>	<b>-22.5</b>	<b>1,377,025</b>	<b>-5.8</b>	<b>-39.8</b>	<b>43.7</b>	<b>25.9</b>
Cement	118	13,337	-4.3	-22.2	221,677	-8.1	-43.1	41.0	23.2
Brick, tile, and terra cotta	673	17,702	-5.1	-34.0	199,395	-10.9	-55.3	27.4	11.5
Pottery	122	15,329	+4.2	-13.4	243,317	+7	-30.3	62.7	37.8
Glass	192	24,486	+1.7	-11.3	606,148	+2.1	-25.1	57.9	40.2
Marble, granite, slate, and other stone products	222	5,232	-0.9	-32.6	106,488	-18.0	-49.7	46.6	28.9

**TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN OCTOBER AND NOVEMBER, 1932, AND NOVEMBER, 1931—Continued**

Industry	Estab- lish- ments report- ing in both Octo- ber and Novem- ber, 1932	Employment			Pay-roll totals			Index num- bers, Novem- ber, 1932 (average, 1926=100)	
		Number on pay roll, No- vember, 1932	Per cent of change		Amount of pay roll (1 week), Novem- ber, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			Octo- ber, to Novem- ber, 1932	Novem- ber, 1931, to Novem- ber, 1932		Octo- ber, to Novem- ber, 1932	Novem- ber, 1931, to Novem- ber, 1932		
<b>Nonferrous metals and their products</b> .....	<b>633</b>	<b>81,498</b>	<b>+0.7</b>	<b>-15.4</b>	<b>\$1,423,784</b>	<b>-2.4</b>	<b>-27.5</b>	<b>54.4</b>	<b>36.1</b>
Stamped and enameled ware.....	89	13,402	+4.1	-6.0	214,573	-2.3	-23.0	62.9	39.2
Brass, bronze, and copper products.....	205	28,030	+1.5	-17.1	473,042	-1.6	-32.8	51.9	31.0
Aluminum manufactures.....	28	4,979	+1.3	-12.2	82,819	+3.3	-17.3	48.3	30.5
Clocks, time-recording devices, and clock movements.....	24	5,285	+4.6	-31.6	84,119	+3.6	-38.8	43.5	32.5
Gas and electric fixtures, lamps, lanterns, and reflectors.....	55	4,766	+1.3	-21.0	99,937	+3.7	-29.5	67.5	48.5
Plated ware.....	53	7,971	+6	-10.0	159,684	-4.5	-15.7	64.0	43.4
Smelting and refining—copper, lead, and zinc.....	29	7,919	-3.0	-19.1	135,645	-4.5	-34.2	57.0	37.5
Jewelry.....	150	9,146	-3.1	-13.2	172,965	-10.6	-27.5	42.7	29.2
<b>Tobacco manufactures</b> .....	<b>248</b>	<b>57,442</b>	<b>+1.3</b>	<b>-8.1</b>	<b>752,170</b>	<b>-2</b>	<b>-13.6</b>	<b>74.8</b>	<b>55.7</b>
Chewing and smoking tobacco and snuff.....	34	10,304	-6	+2.1	139,193	-2.1	-3.8	89.2	71.8
Cigars and cigarettes.....	212	47,138	+1.4	-9.6	592,977	(?)	-20.6	72.9	53.7
<b>Transportation equipment</b> .....	<b>419</b>	<b>186,762</b>	<b>+4.6</b>	<b>-19.7</b>	<b>\$2,990,651</b>	<b>+12.1</b>	<b>-24.7</b>	<b>42.1</b>	<b>27.7</b>
Automobiles.....	248	159,684	+8.6	-15.8	3,135,632	+18.1	-24.7	41.5	26.9
Aircraft.....	28	5,971	+10.0	-20.2	183,132	+7.0	-25.4	183.6	186.3
Cars, electric and steam railroad.....	39	5,762	-1	+4.5	98,724	-5.5	-5.6	21.1	11.7
Locomotives.....	11	2,139	+1.9	-33.2	44,117	+3.0	-45.5	14.1	9.7
Shipbuilding.....	93	25,146	-1.5	-28.5	528,996	-8.6	-40.1	66.7	47.9
<b>Rubber products</b> .....	<b>154</b>	<b>69,963</b>	<b>+1.1</b>	<b>-3.8</b>	<b>1,219,829</b>	<b>-2.2</b>	<b>-29.2</b>	<b>64.6</b>	<b>49.2</b>
Rubber tires and inner tubes.....	42	39,988	-3	-9.7	670,013	-5.0	-24.6	58.8	32.8
Rubber boots and shoes.....	9	10,153	+6.2	-23.8	190,583	+13.9	-17.7	55.2	45.2
Rubber goods, other than boots, shoes, tires, and inner tubes.....	103	19,762	+1.3	-1.4	359,233	-5.2	-13.7	85.4	58.0
<b>Machinery, not including transportation equipment</b> .....	<b>1,814</b>	<b>233,899</b>	<b>+4</b>	<b>-27.2</b>	<b>\$5,198,779</b>	<b>-1.5</b>	<b>-42.1</b>	<b>45.8</b>	<b>26.7</b>
Agricultural implements.....	75	5,764	+16.7	-33.9	87,909	+11.9	-36.7	22.6	15.7
Electrical machinery, apparatus, and supplies.....	294	104,634	-5	-33.0	2,060,194	-9	-47.3	49.1	32.5
Engines, turbines, tractors, and water wheels.....	86	14,977	-2	-27.9	283,167	-5.2	-33.4	39.7	23.6
Cash registers, adding machines, and calculating machines.....	44	13,253	-7	-17.3	307,414	-2.6	-25.2	63.4	45.6
Foundry and machine-shop products.....	1,065	99,060	+7	-23.2	1,567,864	-1.4	-40.1	44.3	23.0
Machine tools.....	148	10,462	+3.1	-39.2	193,289	+6.6	-50.0	30.5	18.3
Textile machinery and parts.....	44	6,441	-1.3	-23.0	108,563	-5.4	-38.2	52.9	32.2
Typewriters and supplies.....	18	9,167	+5.9	-21.9	133,216	+7.7	-35.9	59.2	32.7
Radio.....	40	20,051	-2.7	-25.4	367,173	-7.2	-32.5	77.7	58.4
<b>Railroad repair shops</b> .....	<b>322</b>	<b>98,465</b>	<b>+3.3</b>	<b>-9.7</b>	<b>\$2,281,081</b>	<b>+8.0</b>	<b>-22.5</b>	<b>59.2</b>	<b>39.1</b>
Electric railroad.....	384	20,254	+1	-11.6	513,046	+1.5	-25.8	65.6	52.5
Steam railroad.....	538	78,211	+3.6	-9.6	1,768,035	+9.1	-23.2	49.0	38.1
<b>Total, 89 industries</b> .....	<b>13,178</b>	<b>2,691,711</b>	<b>-8</b>	<b>-11.5</b>	<b>\$5,969,944</b>	<b>-3.2</b>	<b>-26.5</b>	<b>59.4</b>	<b>38.6</b>

\* Less than one-tenth of 1 per cent.

## Per Capita Earnings in Manufacturing Industries

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

Industry	Per capita weekly earnings in November, 1932	Per cent of change compared with—	
		October, 1932	November, 1931
<b>Food and kindred products:</b>			
Slaughtering and meat packing.....	\$19.89	-3.9	-15.5
Confectionery.....	13.47	-7.3	-19.9
Ice cream.....	25.93	-2.1	-16.6
Flour.....	21.53	-4.4	-13.8
Baking.....	22.11	-1.6	-11.3
Sugar refining, cane.....	23.80	-1.6	-9.4
Beet sugar.....	18.21	+11.5	-24.9
Beverages.....	23.63	-7	-14.2
Butter.....	21.70	-1.2	-12.9
<b>Textiles and their products:</b>			
Cotton goods.....	10.67	-3.4	-10.3
Hosiery and knit goods.....	14.08	-3.5	-9.6
Silk goods.....	12.92	-5.8	-19.5
Woolen and worsted goods.....	15.45	-5.6	-16.1
Carpets and rugs.....	15.79	-5.7	-18.7
Dyeing and finishing textiles.....	17.59	-6.5	-18.9
Clothing, men's.....	13.04	-12.0	-11.5
Shirts and collars.....	11.05	+1.7	-4.0
Clothing, women's.....	16.71	-13.1	-23.2
Millinery.....	14.58	-10.1	-23.0
Corsets and allied garments.....	14.65	-8.8	-10.7
Cotton small wares.....	14.60	-8.0	-14.3
Hats, fur-felt.....	18.45	-11.4	+4
Men's furnishings.....	12.29	+1.7	-27.8
<b>Iron and steel and their products, not including machinery:</b>			
Iron and steel.....	13.00	-1.2	-26.0
Cast-iron pipe.....	11.67	-5.9	-35.0
Structural and ornamental ironwork.....	17.27	+1.7	-19.5
Hardware.....	13.05	-9	-26.4
Steam fittings and steam and hot-water heating apparatus.....	17.40	-8.0	-12.0
Stoves.....	16.99	-14.0	-15.9
Bolts, nuts, washers, and rivets.....	15.44	+3.9	-18.2
Cutlery (not including silver and plated cutlery) and edge tools.....	17.01	-3.2	-14.9
Forgings, iron and steel.....	15.30	+5.6	-26.4
Plumbers' supplies.....	16.20	+2.2	-20.5
Tin cans and other tinware.....	18.37	-7.7	-13.0
Tools (not including edge tools, machine tools, files, or saws).....	16.33	-1.0	-16.3
Wirework.....	16.94	-3.4	-16.4
<b>Lumber and allied products:</b>			
Lumber—			
Sawmills.....	11.41	-2.4	-24.3
Millwork.....	14.55	+3	-19.0
Furniture.....	13.58	-8.9	-21.3
Turpentine and rosin.....	13.67	-1.2	-6.9
<b>Leather and its manufactures:</b>			
Leather.....	18.44	-4.9	-10.2
Boots and shoes.....	12.70	-17.5	-10.6
<b>Paper and printing:</b>			
Paper and pulp.....	18.02	-3.1	-17.2
Paper boxes.....	17.83	-4.0	-11.0
Printing—			
Book and job.....	23.20	-3.1	-15.8
Newspapers and periodicals.....	33.77	-1	-12.0

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

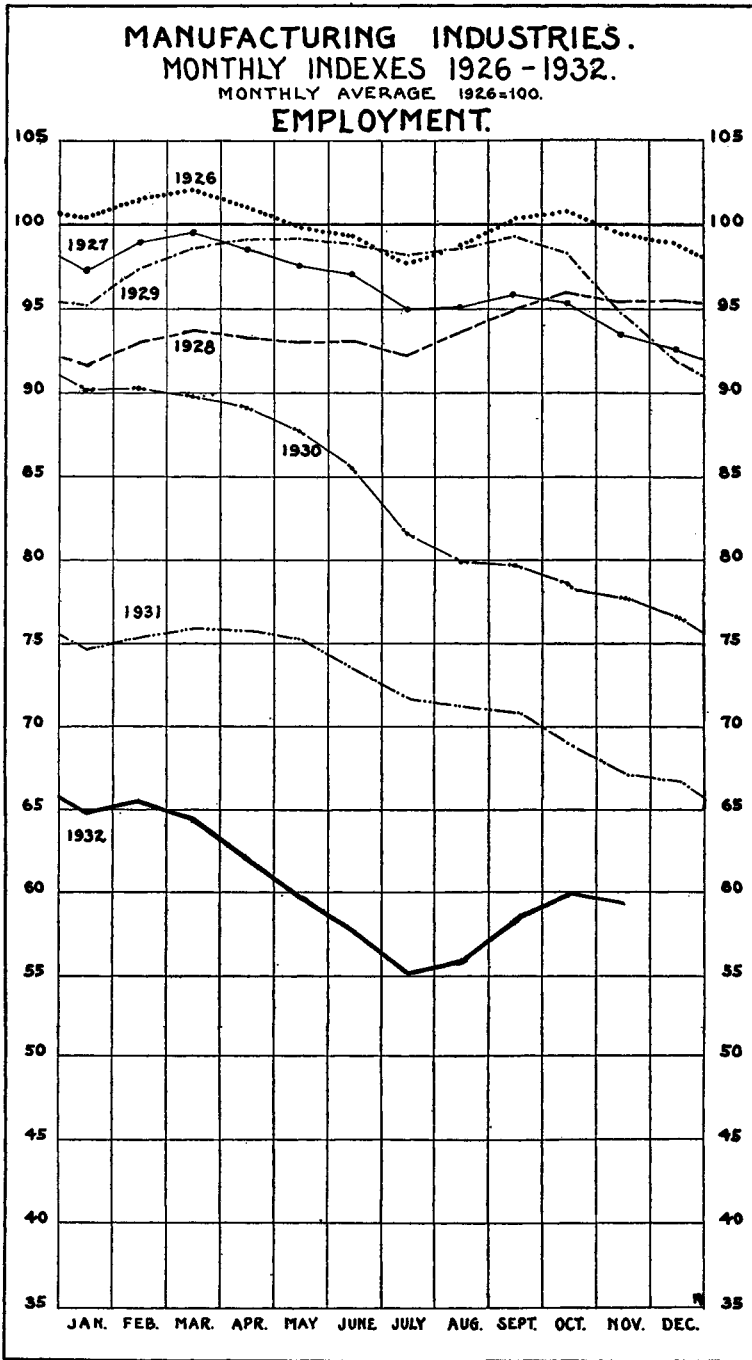
Industry	Per capita weekly earnings in November, 1932	Per cent of change compared with—	
		October, 1932	November, 1931
<b>Chemicals and allied products:</b>			
Chemicals.....	\$23.86	-0.9	-12.5
Fertilizers.....	12.62	+1.5	-15.0
Petroleum refining.....	26.88	+1.4	-11.2
Cottonseed oil, cake, and meal.....	10.71	+3.5	-22.7
Druggists' preparations.....	20.40	+1.6	-5.7
Explosives.....	20.27	+1.4	-17.5
Paints and varnishes.....	21.43	-3.7	-15.2
Rayon.....	17.13	-8	-5.3
Soap.....	22.37	-3.1	-9.4
<b>Stone, clay, and glass products:</b>			
Cement.....	16.62	-4.0	-27.1
Brick, tile, and terra cotta.....	11.26	-6.1	-31.6
Pottery.....	15.87	-3.3	-19.4
Glass.....	17.58	+3	-15.8
Marble, granite, slate, and other stone products.....	20.35	-9.0	-25.7
<b>Nonferrous metals and their products:</b>			
Stamped and enameled ware.....	16.01	-6.1	-18.2
Brass, bronze, and copper products.....	16.88	-3.1	-19.3
Aluminum manufactures.....	16.63	+1.9	-5.6
Clocks, time recording devices, and clock movements.....	15.92	-1.0	-10.9
Gas and electric fixtures, lamps, lanterns, and reflectors.....	20.97	+2.3	-10.5
Plated ware.....	20.03	-5.1	-6.2
Smelting and refining—copper, lead, and zinc.....	17.13	-1.6	-18.9
Jewelry.....	18.91	-7.7	-16.6
<b>Tobacco manufactures:</b>			
Chewing and smoking tobacco and snuff.....	13.51	-1.5	-5.7
Cigars and cigarettes.....	12.58	-1.4	-12.2
<b>Transportation equipment:</b>			
Automobiles.....	19.64	+8.7	-19.8
Aircraft.....	30.67	-2.7	-6.5
Cars, electric and steam railroad.....	17.13	-5.4	-9.7
Locomotives.....	20.63	+1.1	-18.6
Shipbuilding.....	21.04	-7.1	-16.4
<b>Rubber products:</b>			
Rubber tires and inner tubes.....	16.76	-4.8	-16.8
Rubber boots and shoes.....	18.77	+7.3	+7.8
Rubber goods, other than boots, shoes, tires, and inner tubes.....	18.18	-6.4	-12.4
<b>Machinery, not including transportation equipment:</b>			
Agricultural implements.....	15.25	-4.1	-3.9
Electrical machinery, apparatus, and supplies.....	19.69	-4	-20.9
Engines, turbines, tractors, and water wheels.....	18.91	-4.9	+5.0
Cash registers, adding machines, and calculating machines.....	23.20	-1.9	-9.5
Foundry and machine-shop products.....	15.83	-2.0	-21.9
Machine tools.....	18.48	+3.4	-17.8
Textile machinery and parts.....	16.85	-4.3	-20.0
Typewriters and supplies.....	14.53	+1.6	-21.8
Radio.....	18.31	-4.6	-9.6
<b>Railroad repair shops:</b>			
Electric-railroad repair shops.....	25.33	+1.4	-16.1
Steam-railroad repair shops.....	22.61	+5.3	-15.0

### 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 November, 1932, together with average indexes for each of the years from 1926 to 1931, and for the 11-month period, January to November, 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 1931, inclusive, and for the months from January to November, 1932, inclusive.

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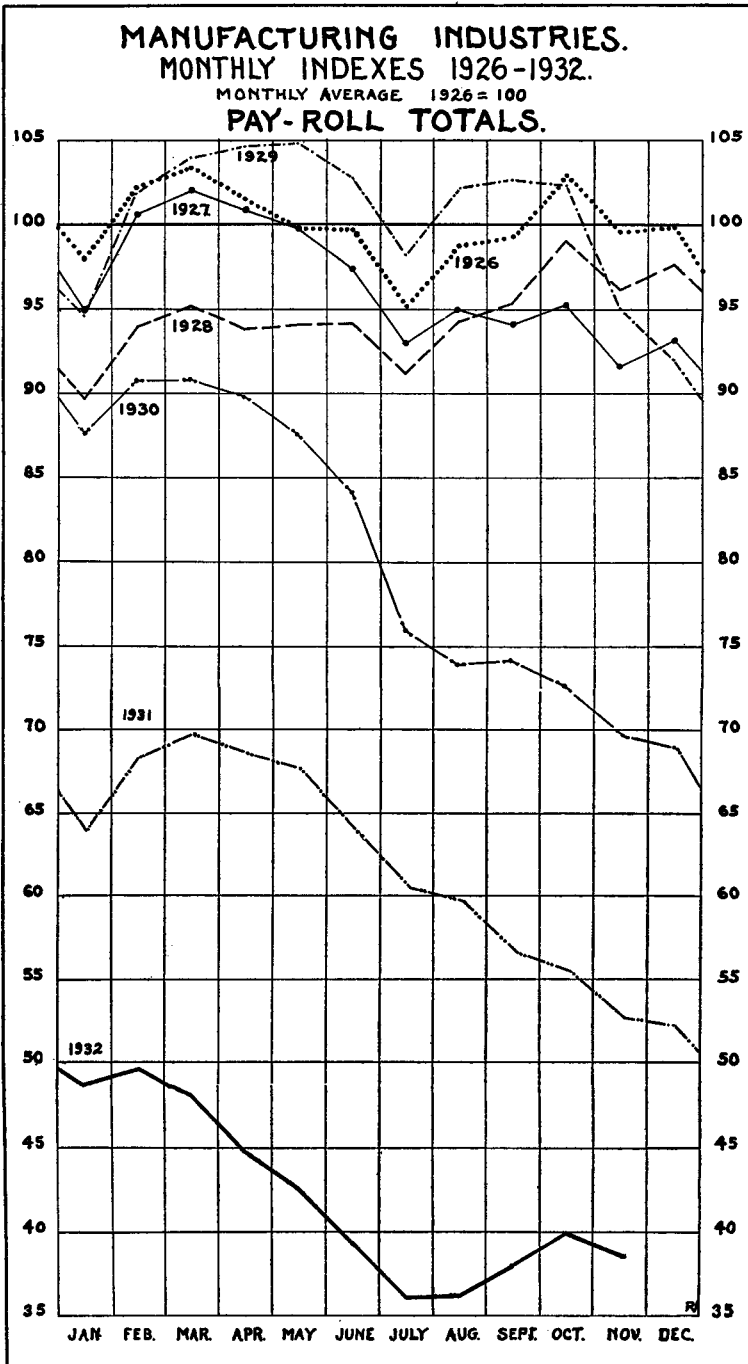


TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES, JANUARY, 1926, TO NOVEMBER, 1932

[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	39.9
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	-----	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	60.3	100.0	96.5	94.5	100.5	81.3	61.5	42.0

<sup>1</sup> Average for 11 months.

## Time Worked in Manufacturing Industries in November, 1932

REPORTS as to working time in November were received from 13,371 establishments in 89 manufacturing industries. Three per cent of these establishments were idle, 44 per cent operated on a full-time basis, and 54 per cent worked on a part-time schedule.

An average of 85 per cent of full-time operation in November was shown by reports received from all the operating establishments included in Table 4. The establishments working part time in November averaged 72 per cent of full-time operation.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN NOVEMBER, 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
<b>Food and kindred products.....</b>	<b>2,339</b>	<b>1</b>	<b>72</b>	<b>28</b>	<b>94</b>	<b>77</b>
Slaughtering and meat packing.....	175	-----	79	21	97	85
Confectionery.....	240	1	50	49	88	76
Ice cream.....	294	1	65	33	93	81
Flour.....	378	1	67	33	92	75
Baking.....	659	-----	85	15	96	76
Sugar refining, cane.....	14	21	21	57	83	76
Beet sugar.....	48	-----	98	2	100	80
Beverages.....	280	(1)	59	41	89	73
Butter.....	251	(1)	78	22	96	84
<b>Textiles and their products.....</b>	<b>2,402</b>	<b>4</b>	<b>61</b>	<b>35</b>	<b>92</b>	<b>78</b>
Cotton goods.....	656	3	59	38	91	76
Hosiery and knit goods.....	385	3	71	27	96	84
Silk goods.....	222	5	65	30	93	77
Woolen and worsted goods.....	231	5	57	39	91	78
Carpets and rugs.....	25	8	36	56	83	72
Dyeing and finishing textiles.....	142	3	49	49	90	80
Clothing, men's.....	234	2	65	33	94	82
Shirts and collars.....	69	3	75	22	95	78
Clothing, women's.....	141	16	62	21	94	75
Millinery.....	94	9	50	41	90	77

<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 NOVEMBER, 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
<b>Textiles and their products—Contd.</b>						
Corsets and allied garments.....	23	-----	65	35	92	78
Cotton small wares.....	100	1	47	52	88	77
Hats, fur-felt.....	23	-----	43	57	86	75
Men's furnishings.....	57	5	60	35	93	78
<b>Iron and steel and their products, not including machinery.....</b>	<b>1,058</b>	<b>3</b>	<b>17</b>	<b>80</b>	<b>70</b>	<b>63</b>
Iron and steel.....	164	10	5	85	57	55
Cast-iron pipe.....	34	6	9	85	56	52
Structural and ornamental ironwork.....	132	2	10	88	70	66
Hardware.....	52	-----	10	90	69	66
Steam fittings and steam and hot-water heating apparatus.....	83	2	10	88	59	55
Stoves.....	115	3	13	84	71	67
Bolts, nuts, washers, and rivets.....	63	-----	21	79	72	64
Cutlery (not including silver and plated cutlery) and edge tools.....	107	1	34	65	79	69
Forgings, iron and steel.....	39	-----	15	85	68	62
Plumbers' supplies.....	54	-----	24	76	75	67
Tin cans and other tinware.....	53	4	47	49	88	76
Tools (not including edge tools, machine tools, files, or saws).....	111	3	23	75	73	65
Wirework.....	51	2	20	78	77	71
<b>Lumber and allied products.....</b>	<b>1,069</b>	<b>4</b>	<b>25</b>	<b>70</b>	<b>76</b>	<b>67</b>
Lumber—						
Sawmills.....	446	6	18	76	72	65
Millwork.....	281	3	17	80	73	67
Furniture.....	325	3	42	55	84	72
Turpentine and rosin.....	17	-----	29	71	87	82
<b>Leather and its manufactures.....</b>	<b>360</b>	<b>4</b>	<b>29</b>	<b>66</b>	<b>80</b>	<b>71</b>
Leather.....	125	1	40	59	88	80
Boots and shoes.....	235	6	24	70	75	67
<b>Paper and printing.....</b>	<b>1,543</b>	<b>(1)</b>	<b>40</b>	<b>59</b>	<b>86</b>	<b>76</b>
Paper and pulp.....	321	2	31	67	80	71
Paper boxes.....	253	-----	31	69	85	78
Printing—						
Book and job.....	600	-----	24	76	82	76
Newspapers and periodicals.....	369	-----	81	19	98	89
<b>Chemicals and allied products.....</b>	<b>773</b>	<b>2</b>	<b>53</b>	<b>45</b>	<b>90</b>	<b>78</b>
Chemicals.....	84	4	62	35	91	74
Fertilizers.....	140	2	67	31	93	77
Petroleum refining.....	69	9	67	25	96	86
Cottonseed oil, cake, and meal.....	36	-----	86	14	98	82
Druggists' preparations.....	23	-----	52	48	94	88
Explosives.....	16	-----	-----	100	83	83
Paints and varnishes.....	309	(1)	40	59	87	77
Rayon.....	15	-----	60	40	93	82
Soap.....	81	-----	53	47	90	79
<b>Stone, clay, and glass products.....</b>	<b>702</b>	<b>14</b>	<b>33</b>	<b>53</b>	<b>78</b>	<b>64</b>
Cement.....	68	21	60	10	96	72
Brick, tile, and terra cotta.....	224	24	13	62	63	56
Pottery.....	89	6	21	73	76	68
Glass.....	124	5	71	24	95	79
Marble, granite, slate and other stone products.....	187	9	25	66	77	69
<b>Nonferrous metals and their products.....</b>	<b>489</b>	<b>1</b>	<b>29</b>	<b>70</b>	<b>80</b>	<b>72</b>
Stamped and enameled ware.....	76	-----	18	82	77	72
Brass, bronze, and copper products.....	148	2	24	74	78	70
Aluminum manufactures.....	20	-----	30	70	83	76
Clocks, time recording devices, and clock movements.....	20	-----	30	70	77	67
Gas and electric fixtures, lamps, lanterns, and reflectors.....	45	-----	29	71	83	77
Plated ware.....	45	-----	29	71	82	74
Smelting and refining—copper, lead, and zinc.....	16	6	38	56	85	75
Jewelry.....	119	1	39	60	82	70

1 Less than one-half of 1 per cent.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN NOVEMBER, 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
<b>Tobacco manufactures.....</b>	<b>203</b>	<b>5</b>	<b>24</b>	<b>71</b>	<b>80</b>	<b>73</b>
Chewing and smoking tobacco and snuff.....	31	-----	26	74	80	72
Cigars and cigarettes.....	172	6	24	70	80	74
<b>Transportation equipment.....</b>	<b>289</b>	<b>6</b>	<b>28</b>	<b>65</b>	<b>82</b>	<b>78</b>
Automobiles.....	155	7	15	78	76	7
Aircraft.....	26	8	58	35	94	82
Cars, electric and steam railroad.....	30	10	13	77	73	68
Locomotives.....	9	-----	11	89	76	73
Shipbuilding.....	69	3	57	41	93	84
<b>Rubber products.....</b>	<b>127</b>	<b>1</b>	<b>28</b>	<b>72</b>	<b>82</b>	<b>74</b>
Rubber tires and inner tubes.....	31	-----	6	94	69	67
Rubber boots and shoes.....	8	13	13	75	88	86
Rubber goods, other than boots, shoes, tires, and inner tubes.....	88	-----	36	64	86	77
<b>Machinery, not including transportation equipment.....</b>	<b>1,240</b>	<b>1</b>	<b>17</b>	<b>81</b>	<b>72</b>	<b>66</b>
Agricultural implements.....	55	-----	22	78	76	70
Electrical machinery, apparatus, and supplies.....	186	1	15	85	75	71
Engines, turbines, tractors, and water wheels.....	63	-----	14	86	72	67
Cash registers, adding machines, and calculating machines.....	36	3	39	58	82	70
Foundry and machine-shop products.....	719	2	17	82	70	63
Machine tools.....	114	3	11	87	71	68
Textile machinery and parts.....	29	8	21	76	79	73
Typewriters and supplies.....	12	-----	25	75	74	68
Radio.....	26	-----	54	46	92	82
<b>Railroad repair shops.....</b>	<b>777</b>	<b>1</b>	<b>44</b>	<b>55</b>	<b>80</b>	<b>82</b>
Electric-railroad repair shops.....	348	-----	60	40	85	86
Steam-railroad repair shops.....	429	1	31	67	86	80
<b>Total, 89 industries.....</b>	<b>13,371</b>	<b>3</b>	<b>44</b>	<b>54</b>	<b>85</b>	<b>78</b>

## Employment in Nonmanufacturing Industries in November, 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 OCTOBER AND NOVEMBER, 1932, AND NOVEMBER, 1931

Industrial group	Estab- lish- ments report- ing in both Octo- ber and Novem- ber, 1932	Employment			Pay-roll totals			Index num- bers, No- vember, 1932 (average 1929=100)	
		Number on pay roll No- vember, 1932	Per cent of change		Amount of pay roll (1 week) Novem- ber, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			Octo- ber to Novem- ber, 1932	Novem- ber, 1931, to No- vember, 1932		Octo- ber to Novem- ber, 1932	Novem- ber, 1931, to No- vember, 1932		
Anthracite mining.....	160	85,685	-1.9	-24.9	\$2,027,786	-23.6	-35.8	62.7	51.0
Bituminous coal mining.....	1,193	175,585	+3.5	-14.4	2,548,321	+7	-30.4	69.4	88.0
Metalliferous mining.....	281	22,171	+4.7	-39.6	424,270	+4.3	-46.7	31.9	18.7
Quarrying and nonmetallic mining.....	617	22,240	-5.8	-16.7	330,071	-10.0	-37.4	49.4	27.1
Crude petroleum producing.....	276	22,848	-6	-1.9	657,513	-2	-18.5	56.5	42.4
Telephone and telegraph.....	8,281	267,789	-9	-9.6	7,064,043	-1.9	-17.2	75.5	74.3
Power and light.....	3,535	212,984	-1.1	-13.4	6,179,336	-1.6	-21.6	79.1	73.2
Electric railroad and motor-bus operation and maintenance.....	498	132,927	-7	-11.9	3,652,352	+3	-23.8	71.8	60.7
Wholesale trade.....	2,757	71,859	-3	-7.7	1,925,843	-9	-20.6	77.6	63.3
Retail trade.....	14,345	945,693	+6	-10.1	6,812,561	-3	-21.7	81.7	66.9
Hotels.....	2,427	132,858	-1.6	-12.5	1,815,326	-1.9	-25.4	74.3	57.5
Canning and preserving.....	833	39,132	-37.7	-16.9	461,811	-33.7	-28.5	50.5	34.4
Laundries.....	994	53,553	-1.7	-11.6	839,741	-3.3	-25.1	78.2	59.1
Dyeing and cleaning.....	368	11,416	-5.2	-13.4	193,279	-11.1	-30.0	78.0	52.3

### 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 November, 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 NOVEMBER, 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	104.4	102.5	93.9	80.8	104.1	101.4	73.3	47.0
February.....	106.0	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	106.8	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	58.0	33.9
May.....	103.7	83.8	80.3	66.9	99.0	88.8	76.1	58.0	98.6	90.4	82.4	62.0	91.9	77.5	54.4	30.7
June.....	92.9	90.8	78.1	55.0	80.7	84.3	66.7	37.4	88.4	78.4	67.4	58.0	90.0	75.0	52.4	27.3
July.....	83.2	81.6	65.1	44.5	64.7	78.4	53.7	34.5	94.7	88.0	76.4	58.6	85.0	68.9	50.4	24.4
August.....	91.1	80.2	67.3	49.2	78.4	78.6	54.4	41.4	95.7	88.2	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	94.9	47.0	97.2	90.5	80.4	62.4	98.6	74.9	53.6	30.2
October.....	106.1	99.0	86.8	63.9	117.2	91.1	66.7	58.8	78.3	81.3	67.0	106.8	70.4	56.2	37.8	38.0
November.....	104.0	97.2	83.5	62.7	100.5	96.0	79.5	51.0	101.0	92.5	81.1	69.4	106.0	79.1	54.6	38.0
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	53.5	100.0	93.4	83.2	67.2	100.0	81.3	57.5	35.4
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	90.1	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	63.2	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	95.9	60.1	30.0
July.....	101.5	80.5	56.2	29.9	99.0	71.9	41.3	16.9	104.7	89.9	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	106.8	79.3	48.7	30.1
November.....	103.0	72.8	52.8	31.9	102.2	63.4	35.1	13.7	108.6	78.3	59.3	49.4	96.0	66.8	43.3	27.1
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	36.8	100.0	78.0	44.8	21.8	100.0	84.3	67.4	49.6	100.0	79.3	53.4	29.8
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	80.1
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	80.6
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	52.4	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	55.3	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	67.6	56.5	103.8	80.0	52.0	42.4	101.9	93.0	83.5	75.5	101.2	97.9	89.7	74.3
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	55.1	100.0	85.9	61.7	44.3	100.0	97.9	86.6	79.5	100.0	102.9	93.7	81.8
Month	Power and light								Electric-railroad and motor-bus operation and maintenance <sup>1</sup>							
	Employment				Pay rolls				Employment				Pay rolls			
	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	85.5	94.5	102.1	102.4	85.4	97.0	94.4	86.4	77.6	98.0	95.4	88.1	72.4
April.....	95.9	100.7	97.1	84.8	95.5	102.6	97.6	82.4	98.5	95.2	86.8	78.0	99.0	97.1	86.6	70.7
May.....	98.4	103.4	97.6	84.0	98.1	104.5	98.7	84.2	100.4	95.2	85.9	76.9	101.0	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	78.5	101.7	97.0	84.8	69.2
July.....	103.2	105.9	96.7	82.3	102.3	106.7	97.4	78.7	102.2	95.3	85.6	75.6	101.9	95.6	83.3	65.3
August.....	105.4	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	61.5
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	79.1	104.1	103.7	93.3	73.2	99.4	89.3	81.5	71.8	98.4	87.7	79.7	60.7
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	83.4	100.0	104.3	96.7	80.4	100.0	93.4	84.7	75.9	100.0	93.5	83.4	67.5

<sup>1</sup> Average for 11 months.

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

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

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
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	80.9	97.1	97.3	88.0	71.1
June.....	96.2	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	93.6	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	77.6	101.9	91.0	79.7	63.3	106.7	98.4	90.9	81.7	105.2	96.8	85.4	66.9
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	78.3	100.0	95.9	83.6	67.4	100.0	95.9	89.4	79.6	100.0	96.2	86.6	69.1
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
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	48.9	45.7	48.3	37.1	59.2	51.5	48.6	32.7
March.....	100.9	102.4	96.8	84.0	103.4	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	100.0	100.3	89.9	69.6	90.6	74.8	59.6	47.0	93.9	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	81.5	58.6	40.5
July.....	101.1	101.3	93.3	78.4	99.8	99.8	85.2	61.8	126.8	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	98.6	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	125.3	207.9	214.8	120.4	75.1
October.....	100.6	97.5	87.4	75.4	100.2	95.5	79.7	58.6	133.3	164.7	108.1	91.1	134.5	140.0	77.6	51.8
November.....	100.0	95.2	84.9	74.3	99.8	93.6	77.1	57.5	95.1	96.7	80.8	50.5	91.6	82.9	48.1	34.4
December.....	97.7	93.5	83.1	-----	98.9	91.5	75.4	-----	61.3	61.6	40.7	-----	63.4	57.4	36.9	-----
Average.....	100.0	99.2	91.7	79.5	100.0	98.5	85.4	65.2	100.0	103.9	50.9	61.8	100.0	96.1	65.6	44.1
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
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	80.5	-----	-----	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	-----	-----	98.0	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	-----	-----	-----	77.4	-----	-----	-----	84.9	-----	-----	-----	67.9	-----
Average.....	100.0	-----	89.4	80.5	100.0	-----	84.4	67.8	100.0	-----	92.7	82.0	100.0	-----	80.3	61.6

<sup>1</sup> Average for 11 months.

### Average Man-Hours Worked and Average Hourly Earnings

**I**N THE following tables the bureau presents the first tabulation of man-hours worked per week and average hourly earnings compiled from data supplied by establishments furnishing monthly employment information.

These tabulations are based on reports supplied by identical establishments in October and November, 1932, in 15 of the 17 industrial groups included in the bureau's monthly employment survey. Man-hour data for the building construction group and for the insurance, real estate, banking, and brokerage group are not available.

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The number of establishments supplying man-hour data in these 15 industrial groups represent approximately 50 per cent of the establishments in these groups supplying monthly employment data.

These compilations 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 man-hours and average hourly earnings shown for the combined total 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. As already noted, the basic information upon which these average weekly man-hours and average hourly earnings are computed represents approximately 50 per cent of the establishments reporting in these groups while the bureau's published per capita earnings for each of the separate manufacturing industries and 17 industrial groups are obtained by dividing the total weekly earnings in all establishments reporting by the total number of employees in those establishments, which includes both full-time and part-time workers.

TABLE 1.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN 15 INDUSTRIAL GROUPS, OCTOBER AND NOVEMBER, 1932

Industrial group	Average hours per week		Average hourly earnings	
	October, 1932	November, 1932	October, 1932	November, 1932
	Hours	Hours	Cents	Cents
Manufacturing.....	39.5	38.4	43.7	43.5
Anthracite mining.....	36.2	28.9	82.7	81.9
Bituminous coal mining.....	30.8	29.9	47.8	48.2
Metalliferous mining.....	40.2	40.2	48.1	48.0
Quarrying and nonmetallic mining.....	38.7	36.0	40.9	41.6
Crude petroleum producing.....	45.9	47.4	63.3	61.7
Telephone and telegraph.....	39.1	38.5	69.1	69.4
Power and light.....	43.9	43.7	65.5	65.3
Electric-railroad and motor-bus operation and maintenance, exclusive of car shops.....	45.1	45.4	59.3	59.5
Wholesale trade.....	47.1	47.0	55.3	55.1
Retail trade.....	44.0	44.5	43.1	42.3
Hotels.....	51.6	51.3	25.3	25.3
Canning and preserving.....	40.5	39.3	30.0	32.7
Laundries.....	42.6	42.3	35.4	35.2
Dyeing and cleaning.....	46.7	44.6	39.1	37.7
Total.....	41.9	41.4	46.3	46.0

TABLE 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS, IN SELECTED MANUFACTURING INDUSTRIES, OCTOBER AND NOVEMBER, 1932

Industry	Average hours per week		Average hourly earnings	
	October, 1932	November, 1932	October, 1932	November, 1932
	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
<b>Food and kindred products:</b>				
Slaughtering and meat packing.....	46.7	44.6	44.2	44.5
Confectionery.....	43.6	40.8	33.6	33.6
Ice cream.....	52.0	49.8	51.4	50.9
Flour.....	50.0	47.6	43.6	43.4
Baking.....	47.3	46.1	43.7	43.6
Sugar refining, cane.....	53.1	47.5	41.5	45.1
Beet sugar.....	41.9	50.5	37.0	36.7
Beverages.....	39.9	38.2	59.1	60.6
<b>Textiles and their products:</b>				
Cotton goods.....	48.0	46.7	22.3	22.3
Hosiery and knit goods.....	47.9	47.1	32.4	32.1
Silk goods.....	43.5	40.4	31.3	31.5
Woolen and worsted goods.....	46.0	43.6	34.9	34.6
Carpets and rugs.....	36.3	33.7	41.5	41.1
Dyeing and finishing textiles.....	47.9	44.6	39.4	39.3
Cotton small wares.....	42.9	40.7	36.3	35.7
<b>Iron and steel and their products, not including machinery:</b>				
Iron and steel.....	26.6	25.9	48.6	48.9
Cast-iron pipe.....	28.3	26.7	43.7	43.6
Structural and ornamental ironwork.....	33.1	33.4	49.9	50.2
Hardware.....	29.8	28.7	44.6	45.9
Steam fittings and steam and hot-water heating apparatus.....	34.6	32.2	50.3	50.7
Stoves.....	39.3	35.2	47.7	46.7
Bolts, nuts, washers, and rivets.....	31.9	33.5	44.5	44.3
Cutlery (not including silver and plated cutlery) and edge tools.....	36.9	35.6	52.4	51.3
Forgings, iron and steel.....	29.9	32.3	47.1	46.7
Plumbers' supplies.....	33.1	33.5	49.6	49.8
Tin cans and other tinware.....	43.9	40.1	39.7	40.3
Tools (not including edge tools, machine tools, files, or saws).....	33.5	32.6	46.8	47.2
<b>Lumber and allied products:</b>				
Lumber—				
Sawmills.....	39.3	38.6	29.6	29.8
Millwork.....	35.6	34.1	37.7	40.3
Furniture.....	41.2	36.3	34.0	34.6
<b>Leather and its manufactures:</b>				
Leather.....	42.9	42.6	42.0	40.8
<b>Paper:</b>				
Paper and pulp.....	42.5	41.0	43.3	43.4
Paper boxes.....	44.6	42.9	41.1	40.4
Printing—				
Book and job.....	37.8	37.2	66.5	66.4
Newspapers and periodicals.....	41.9	42.2	76.5	75.9
<b>Chemicals and allied products:</b>				
Chemicals.....	41.7	41.2	52.7	52.5
Fertilizers.....	42.1	41.5	30.0	30.6
Petroleum refining.....	39.5	39.7	63.5	63.5
Cottonseed oil, cake, and meal.....	59.7	60.2	18.3	19.2
Druggists' preparations.....	42.4	40.7	44.5	44.7
Explosives.....	35.7	37.4	57.4	56.8
Paints and varnishes.....	40.8	40.3	53.1	52.8
Rayon.....	46.2	45.6	37.7	37.9
Soap.....	46.2	42.3	41.6	41.6
<b>Stone, clay, and glass products:</b>				
Cement.....	39.5	39.0	41.7	41.1
Brick, tile, and terra cotta.....	32.8	30.2	34.9	34.6
Pottery.....	40.6	39.6	40.5	39.9
Glass.....	36.3	37.2	45.4	45.6
Marble, granite, slate, and other stone products.....	33.1	28.4	60.4	60.9
<b>Nonferrous metals and their products:</b>				
Stamped and enameled ware.....	44.0	39.7	37.9	38.9
Brass, bronze, and copper products.....	34.2	33.3	47.8	46.6
Clocks, time-recording devices, and clock movements.....	39.3	39.8	45.1	43.2
Plated ware.....	41.0	35.1	49.4	49.1
Smelting and refining—copper, lead, and zinc.....	34.3	32.4	47.2	48.6
Jewelry.....	38.3	34.3	50.5	50.9
<b>Tobacco manufactures:</b>				
Chewing and smoking tobacco and snuff.....	40.7	39.4	31.8	32.3
Cigars and cigarettes.....	40.0	39.0	30.5	30.9
<b>Transportation equipment:</b>				
Automobiles.....	27.8	32.2	64.5	60.5
Aircraft.....	42.6	44.9	73.9	69.0
Cars, electric and steam railroad.....	34.9	33.6	47.4	47.6
Locomotives.....	26.0	27.3	63.1	57.3
Shipbuilding.....	32.0	29.7	62.6	63.2

**TABLE 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS, IN SELECTED MANUFACTURING INDUSTRIES, OCTOBER AND NOVEMBER, 1932—Continued**

Industry	Average hours per week		Average hourly earnings	
	October, 1932	November, 1932	October, 1932	November, 1932
Rubber products:	<i>Hours</i>	<i>Hours</i>	<i>Cents</i>	<i>Cents</i>
Rubber tires and inner tubes	30.5	29.3	58.5	58.5
Rubber goods, other than boots, shoes, tires, and inner tubes	41.7	38.0	45.2	44.6
Machinery, not including transportation equipment:				
Agricultural implements	31.5	29.9	48.3	48.7
Electrical machinery, apparatus, and supplies	30.3	31.2	57.9	57.4
Engines, turbines, tractors, and water wheels	32.6	32.8	56.2	53.6
Cash registers, adding machines, and calculating machines	35.6	34.4	66.6	67.1
Foundry and machine-shop products	29.9	29.1	52.8	53.2
Machine tools	30.1	31.3	57.9	57.0
Textile machinery and parts	29.2	28.1	58.7	58.8
Typewriters and supplies	27.3	28.9	49.7	48.1
Radio	42.5	37.2	43.6	44.1
Railroad repair shops:				
Electric railroad	42.0	42.9	58.1	58.0
Steam railroad	34.6	35.9	62.2	62.8

### Employment in Building Construction in November, 1932

**T**HERE was a decrease of 7.8 per cent in employment in the building construction industry in November, 1932, as compared with October, 1932, and pay-roll totals decreased 9.7 per cent over the month interval.

The per cents of change of employment and pay-roll totals in November, 1932, as compared with October, 1932, are based on returns made by 10,268 firms employing, in November, 78,979 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, OCTOBER AND NOVEMBER, 1932

Locality	Number of firms reporting	Number on pay roll		Per cent of change	Amount of pay roll		Per cent of change
		Oct. 15	Nov. 15		Oct. 15	Nov. 15	
Alabama: Birmingham	70	444	493	+11.0	\$6,239	\$7,043	+12.9
California:							
Los Angeles <sup>1</sup>	23	655	643	-1.8	13,760	12,792	-7.0
San Francisco-Oakland <sup>1</sup>	31	803	917	+14.2	17,094	18,511	+8.3
Other reporting localities <sup>1</sup>	22	427	422	-1.2	9,959	9,728	-2.3
Colorado: Denver	194	758	714	-5.8	16,596	14,494	-12.7
Connecticut:							
Bridgeport	127	575	560	-2.6	12,864	11,839	-8.0
Hartford	204	1,051	978	-6.9	27,028	22,771	-15.8
New Haven	177	1,154	1,066	-7.6	31,599	26,817	-18.3
Delaware: Wilmington	120	1,291	1,172	-9.2	26,897	22,561	-16.1
District of Columbia	537	7,147	7,696	+7.7	200,361	216,209	+7.9
Florida:							
Jacksonville	51	287	275	-4.2	4,073	4,597	+12.9
Miami	77	592	624	+5.4	12,080	11,531	-4.5
Georgia: Atlanta	127	1,488	1,223	-17.8	22,140	19,604	-11.5
Illinois:							
Chicago <sup>1</sup>	137	1,377	1,211	-12.1	39,972	35,401	-11.4
Other reporting localities <sup>1</sup>	68	626	565	-9.7	13,491	11,132	-17.5

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

## COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, OCTOBER AND NOVEMBER, 1932

Locality	Number of firms reporting	Number on pay roll		Percent of change	Amount of pay roll		Per cent of change
		Oct. 15	Nov. 15		Oct. 15	Nov. 15	
<b>Indiana:</b>							
Evansville.....	40	248	200	-19.4	\$5,049	\$3,500	-30.7
Fort Wayne.....	98	500	339	-32.2	9,924	5,707	-42.5
Indianapolis.....	166	1,036	773	-25.4	21,872	16,764	-23.4
South Bend.....	40	169	168	-.6	3,482	3,143	-9.7
Iowa: Des Moines.....	107	1,008	878	-12.9	24,803	14,654	-40.9
Kansas: Wichita.....	68	533	446	-16.3	12,375	9,135	-26.2
Kentucky: Louisville.....	129	886	770	-13.1	18,098	13,122	-27.5
Louisiana: New Orleans.....	130	1,478	1,272	-13.9	26,655	20,858	-21.7
Maine: Portland.....	104	561	517	-7.8	13,272	10,828	-18.4
Maryland: Baltimore <sup>1</sup> .....	116	1,146	900	-21.5	20,549	15,611	-24.0
Massachusetts: All reporting localities <sup>1</sup> .....	740	6,007	5,668	-5.6	160,993	142,208	-11.7
Michigan:							
Detroit.....	427	3,122	2,793	-10.5	70,838	61,870	-12.7
Flint.....	44	194	153	-21.1	3,265	2,435	-25.4
Grand Rapids.....	105	641	507	-20.9	13,036	9,719	-25.4
Minnesota:							
Duluth.....	56	321	334	+4.0	6,830	6,368	-6.8
Minneapolis.....	231	1,804	1,244	-31.0	40,207	25,773	-35.9
St. Paul.....	146	866	725	-15.3	21,097	17,447	-17.3
Missouri:							
Kansas City <sup>1</sup> .....	253	1,452	1,409	-3.0	34,910	29,187	-16.4
St. Louis.....	445	2,495	2,300	-7.8	67,164	60,853	-9.4
Nebraska: Omaha.....	136	701	633	-9.7	16,402	13,103	-20.1
New York:							
New York City <sup>1</sup> .....	352	10,440	9,357	-10.4	368,905	349,751	-5.2
Other reporting localities <sup>1</sup> .....	172	4,161	4,023	-3.3	118,976	119,892	+0.8
North Carolina: Charlotte.....	33	188	190	+1.1	2,316	2,616	+12.9
Ohio:							
Akron.....	79	326	312	-4.3	6,476	4,795	-26.0
Cincinnati <sup>1</sup> .....	477	2,068	2,018	-1.9	67,734	61,158	-9.8
Cleveland.....	462	2,798	2,557	-8.6	74,493	63,900	-14.2
Dayton.....	117	372	362	-2.7	8,295	7,036	-15.2
Youngstown.....	69	316	302	-4.4	5,454	5,527	+1.2
Oklahoma:							
Oklahoma City.....	88	318	326	+2.5	5,535	4,836	-12.6
Tulsa.....	48	133	162	+21.8	2,454	2,478	+1.0
Oregon: Portland.....	179	911	708	-22.3	19,262	14,295	-25.8
Pennsylvania:							
Erie area <sup>1</sup> .....	25	145	114	-21.4	3,638	2,105	-42.1
Philadelphia area <sup>1</sup> .....	449	3,978	3,676	-7.6	82,750	77,917	-5.8
Pittsburgh area <sup>1</sup> .....	239	1,567	1,659	+6.6	42,434	44,482	+4.8
Reading-Lebanon area <sup>1</sup> .....	48	335	279	-16.7	6,927	4,774	-31.1
Scranton area <sup>1</sup> .....	29	184	184	( <sup>9</sup> )	3,939	3,834	-2.7
Other reporting areas <sup>1</sup> .....	288	2,299	2,169	-5.7	48,714	42,685	-12.4
Rhode Island: Providence.....	233	1,478	1,338	-9.5	36,531	29,226	-20.0
Tennessee:							
Chattanooga.....	32	237	270	+13.9	3,426	3,896	+13.7
Knoxville.....	45	501	466	-7.0	5,531	5,475	-1.0
Memphis.....	87	323	318	-1.5	5,768	5,956	+3.3
Nashville.....	65	811	625	-22.9	13,921	9,645	-30.7
Texas:							
Dallas.....	150	917	915	-.2	15,561	13,953	-10.3
El Paso.....	19	88	147	+67.0	1,203	1,847	+53.5
Houston.....	136	676	711	+5.2	11,788	12,467	+5.8
San Antonio.....	100	740	646	-12.7	11,207	9,558	-14.7
Utah: Salt Lake City.....	79	339	279	-17.7	6,888	5,846	-16.1
Virginia:							
Norfolk-Portsmouth.....	86	554	448	-19.1	9,230	7,588	-17.8
Richmond.....	146	1,005	954	-5.1	19,730	18,242	-7.5
Washington:							
Seattle.....	157	1,055	760	-28.0	20,316	15,970	-21.4
Spokane.....	51	161	159	-1.2	3,236	2,894	-10.6
Tacoma.....	74	110	98	-10.9	1,981	1,344	-32.2
West Virginia: Wheeling.....	47	181	158	-12.8	3,981	2,658	-33.2
Wisconsin: All reporting localities <sup>1</sup> .....	61	1,489	1,121	-24.7	28,304	21,899	-22.7
<b>Total, all localities.....</b>	<b>10,268</b>	<b>85,627</b>	<b>78,979</b>	<b>-7.8</b>	<b>2,111,938</b>	<b>1,906,829</b>	<b>-9.7</b>

<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.<sup>5</sup> No change.

### Trend of Employment in November, 1932, by States

**I**N THE following table are shown the fluctuations in employment and pay roll totals in November, as compared with October, 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 October and November 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 EARNINGS IN IDENTICAL ESTABLISHMENTS  
IN OCTOBER AND NOVEMBER, 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 November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change	Number of establishments	Number on pay roll November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change
Alabama.....	511	49,390	+0.3	\$533,603	-1.9	207	33,602	-0.2	\$351,782	-3.9
Arkansas.....	<sup>1</sup> 449	<i>16,198</i>	<i>+2.4</i>	<i>\$19,157</i>	<i>+6</i>	<i>182</i>	<i>9,674</i>	<i>-2.2</i>	<i>\$24,815</i>	<i>-4.8</i>
Arizona.....	382	8,129	-1.2	163,764	-4.7	61	1,910	-5.6	38,188	-13.7
California.....	<sup>2</sup> 2,048	<i>\$44,501</i>	<i>-5.0</i>	<i>\$,784,018</i>	<i>-5.9</i>	<i>1,182</i>	<i>\$24,901</i>	<i>-8.5</i>	<i>\$,772,666</i>	<i>-9.5</i>
Colorado.....	743	31,761	-4.1	643,144	-1.4	120	13,499	-4.5	254,699	+2.1
Connecticut.....	1,065	133,969	+8	2,415,871	-2.6	654	114,665	+1.2	1,928,154	-2.9
Delaware.....	129	8,711	-4.0	176,966	-2.4	52	6,439	+3.5	127,705	-1.1
District of Columbia.....	123	31,903	-2.1	781,590	-8	59	4,074	-2.8	137,473	-1.5
Florida.....	517	22,401	+1.4	385,011	+2.7	134	14,595	+1.6	219,426	+4.7
Georgia.....	640	71,458	-8	854,453	-3.4	313	57,812	-5	594,360	-3.3
Idaho.....	198	8,696	+18.0	165,125	-18.8	38	5,050	+24.4	89,322	+23.4
Illinois.....	<sup>3</sup> 1,486	<i>\$68,003</i>	<i>-1.4</i>	<i>\$,568,560</i>	<i>-3.6</i>	<i>972</i>	<i>\$62,182</i>	<i>-1.6</i>	<i>\$,749,867</i>	<i>-7.5</i>
Indiana.....	1,206	110,539	-1.0	1,952,125	-1.2	567	81,499	+1.7	1,403,429	-1.8
Iowa.....	1,162	42,511	-1.9	794,643	-4.2	462	23,377	-2.2	410,079	-5.0
Kansas.....	<sup>4</sup> 1,087	<i>\$4,211</i>	<i>-1.2</i>	<i>\$,444,823</i>	<i>-1.6</i>	<i>448</i>	<i>\$3,719</i>	<i>-2.9</i>	<i>\$85,647</i>	<i>-6.1</i>
Kentucky.....	805	57,534	+8	901,033	-7	217	21,177	+1.6	331,527	-5
Louisiana.....	491	30,100	+1.7	429,513	-5	211	18,392	+3.9	235,952	+8
Maine.....	651	38,494	-6.2	602,086	-12.3	184	31,431	-4.5	403,812	-12.8
Maryland.....	<sup>5</sup> 526	<i>\$4,149</i>	<i>-9</i>	<i>\$,571,659</i>	<i>-3.4</i>	<i>435</i>	<i>\$8,408</i>	<i>-1.8</i>	<i>\$17,090</i>	<i>-4.8</i>
Massachusetts.....	<sup>6</sup> 7,728	<i>\$34,188</i>	<i>-3.4</i>	<i>\$,896,610</i>	<i>-4.4</i>	<i>1,106</i>	<i>\$68,018</i>	<i>-6.1</i>	<i>\$,638,960</i>	<i>-8.0</i>
Michigan.....	1,468	223,979	+5.4	4,526,960	+10.7	409	163,882	+5.2	3,962,455	+16.6
Minnesota.....	1,007	61,803	-7	1,285,868	-1.5	287	31,724	-8	635,097	-2.3
Mississippi.....	368	9,762	-1.8	120,722	-1.2	75	6,141	-1.1	65,374	-6
Missouri.....	1,109	99,051	-2.4	1,955,595	-5.4	523	55,981	-3.2	979,031	-9.4
Montana.....	332	8,884	-5	212,370	-7	52	3,318	-3.4	63,687	-1.5
Nebraska.....	707	23,643	-2.1	496,924	-1.8	127	12,292	-2.6	246,049	-1.7
Nevada.....	130	1,261	-5.3	33,678	-5.8	22	245	-4.3	6,663	-8.5
New Hampshire.....	443	32,902	-5.3	500,151	-7.1	181	29,196	-5.3	422,954	-7.8
New Jersey.....	1,441	175,327	-1.3	3,784,837	-3.8	<sup>7</sup> 701	<i>\$60,047</i>	<i>-1.1</i>	<i>\$,909,229</i>	<i>-4.5</i>
New Mexico.....	177	4,721	+3.8	80,448	-1	24	664	+16.5	9,954	+30.9
New York.....	3,611	469,274	-5	10,820,966	-3.3	<sup>8</sup> 1,671	<i>\$98,328</i>	<i>-1.1</i>	<i>\$,783,787</i>	<i>-4.6</i>
North Carolina.....	897	113,176	+4	1,285,657	-3.3	556	108,435	+4	1,215,088	-3.4
North Dakota.....	314	3,878	+6.4	83,698	+3.4	61	1,121	-7.8	26,747	-9.4
Ohio.....	4,742	350,695	-3	6,362,818	-2.9	1,960	254,648	+2	4,422,376	-2.8
Oklahoma.....	690	26,219	+3.4	536,683	+3	122	8,582	+2.5	164,215	-1.2
Oregon.....	665	27,176	-4.4	508,781	-5.6	159	14,352	+ <sup>9</sup>	240,539	-2.2
Pennsylvania.....	4,059	591,646	-8	10,404,153	-7.0	<sup>1</sup> 1,742	<i>\$36,895</i>	<i>-9</i>	<i>\$,850,684</i>	<i>-3.9</i>
Rhode Island.....	906	54,698	-3.1	935,008	-10.8	272	43,557	-4.0	677,077	-14.5
South Carolina.....	317	49,131	+1.5	473,780	-5	175	45,596	-1.8	422,295	-5
South Dakota.....	231	5,702	+1.8	126,308	+1	49	2,326	+6.7	36,023	+3
Tennessee.....	736	61,725	-2	842,890	+2	282	46,109	+1.7	599,051	+7
Texas.....	767	<i>\$6,463</i>	<i>-8</i>	<i>\$,228,604</i>	<i>-1.2</i>	<i>371</i>	<i>\$9,968</i>	<i>-7</i>	<i>\$86,979</i>	<i>-1.4</i>
Utah.....	329	14,041	+2.4	273,561	+6.6	80	5,850	+20.6	102,230	+16.2
Vermont.....	347	9,270	-1.2	173,967	-4.6	119	4,893	-2.1	88,777	-5.4
Virginia.....	1,280	81,604	-9	1,289,985	-1.7	439	56,716	-8	873,554	-1.1
Washington.....	1,200	50,055	-6.6	1,012,533	-1.9	252	22,711	-1.0	429,388	+6
West Virginia.....	743	30,870	-2.3	1,309,310	-7	186	32,000	+1.9	555,045	+1.1
Wisconsin.....	<sup>10</sup> 1,061	<i>\$22,773</i>	<i>-7</i>	<i>\$,080,294</i>	<i>-2.2</i>	<i>810</i>	<i>\$3,389</i>	<i>-2</i>	<i>\$,476,838</i>	<i>+1.3</i>
Wyoming.....	191	6,482	-3	158,443	-5.5	28	1,786	-1.5	43,360	-1.7

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

<sup>10</sup> Includes construction, but does not include hotels and restaurants.

**COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS  
IN OCTOBER AND NOVEMBER, 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 November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change	Number of establishments	Number on pay roll November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change
Alabama.....	15	558	( <sup>u</sup> )	\$14,137	+1.8	66	2,441	+1.5	\$34,592	+1.3
Arkansas.....	17	445	-1.6	12,805	-1.7	153	1,854	+8.6	31,732	+2.2
Arizona.....	22	208	+6.1	5,228	+2.3	194	1,702	+2.9	29,075	+7.8
California.....	88	5,372	+1.1	158,609	-1.1	119	28,562	-5.2	577,505	-2.4
Colorado.....	30	834	-7	23,168	-2.7	272	4,040	-4	87,770	-1.3
Connecticut.....	59	1,245	-9	35,814	-6	131	5,336	-1.5	104,237	-1.4
Delaware.....	9	106	+6	4,726	+1	10	179	+5.3	2,542	+9.3
District of Columbia.....	31	413	-1.0	13,202	-1.9	403	11,273	-2.4	237,777	+4
Florida.....	50	781	+8	18,613	-7	72	869	+7.3	17,245	+8.4
Georgia.....	33	412	+2	11,202	-1.1	30	2,064	-1.4	32,800	-3.8
Idaho.....	7	112	-1.8	3,137	-2.4	68	622	+2.0	11,538	-1
Illinois.....	12	738	-1.4	19,607	-2.9	67	18,097	+2.1	411,335	+1
Indiana.....	63	1,140	-3.1	20,963	-4.0	198	6,330	-1.2	106,419	-1.0
Iowa.....	37	1,061	-5	27,408	-1.6	127	3,390	+1.6	67,487	+1.7
Kansas.....	67	1,585	-8	42,002	-2.8	348	8,374	-1.0	115,805	-1.9
Kentucky.....	21	430	+1.4	8,167	+1.2	30	1,655	+2.0	25,437	-6
Louisiana.....	30	748	+1	16,637	+6	54	3,485	+9.3	49,365	+3.0
Maine.....	17	411	-4.0	9,706	-7.7	76	1,148	+5	20,427	+7
Maryland.....	33	746	+1.1	16,218	-1.8	56	5,532	+8.7	90,340	-1.3
Massachusetts.....	657	13,966	-2.0	367,908	-2.6	5,939	57,428	-1.1	1,179,880	-5
Michigan.....	67	1,861	-5	55,183	-8	188	10,984	+1.5	205,077	-2
Minnesota.....	60	4,091	+3.0	110,573	+1.1	283	7,552	-1	136,564	+2.4
Mississippi.....	5	116	( <sup>u</sup> )	2,382	+1.0	61	491	-3.2	5,570	+1.3
Missouri.....	53	5,139	-2	129,224	+1.1	135	6,053	+1.1	123,072	-1.0
Montana.....	13	216	-9	6,441	+2	86	782	+3	17,380	-1.6
Nebraska.....	34	837	-1	22,869	-3.4	191	1,580	-8	30,017	-3.1
Nevada.....	7	93	-1.1	3,327	-1.0	30	240	-7.0	5,956	-14.5
New Hampshire.....	17	195	+1.0	5,155	+2.2	61	643	+3.2	10,360	-1.3
New Jersey.....	25	474	-2.9	14,785	-3.1	413	8,197	+5.6	176,379	+3.0
New Mexico.....	6	74	+1.4	2,480	-9.8	50	264	-5.0	5,680	-3.8
New York.....	166	4,496	+6	147,241	+6	617	42,736	+3.8	938,036	+1.1
North Carolina.....	17	218	+1.9	4,638	-1.3	174	633	+1.6	11,239	-1.1
North Dakota.....	16	230	-1.3	6,449	-5.3	38	433	-9	6,788	-1.3
Ohio.....	237	5,191	+1	135,324	-1.0	1,564	31,300	-2.0	585,721	-3.6
Oklahoma.....	55	986	+6.5	26,138	+5	106	1,886	-1.0	33,456	-2.7
Oregon.....	54	1,269	-6	35,002	-1.0	189	2,115	-1.0	40,361	-7.5
Pennsylvania.....	135	3,553	-6	96,313	-9	315	26,473	+1.9	513,828	+1.3
Rhode Island.....	43	952	+1	23,632	-3	510	4,978	+3.1	103,620	+3
South Carolina.....	17	250	-2.7	5,318	-8	15	502	+6.8	4,376	+4.1
South Dakota.....	10	127	( <sup>u</sup> )	3,650	-4.9	16	241	+18.1	3,243	+8.0
Tennessee.....	36	642	-3.9	14,064	-7	56	3,575	-10.4	56,703	-8
Texas.....	151	2,749	-6	75,927	-4	66	5,767	+2	107,583	-2.0
Utah.....	15	470	( <sup>u</sup> )	11,285	+1	87	708	-4.1	14,095	-5.3
Vermont.....	5	111	-9	2,912	-7	34	409	-2.4	6,449	-5.4
Virginia.....	48	1,032	+6.5	25,182	+3.5	478	4,976	+5	88,880	-1.8
Washington.....	119	2,269	-1.9	61,397	-1.5	472	6,660	-3.3	129,602	+1.2
West Virginia.....	34	591	+3.9	16,065	+1.9	51	990	+1.6	16,466	-1.2
Wisconsin.....	46	2,004	-1.5	47,664	-2.5	56	8,348	+5.4	151,623	+ ( <sup>u</sup> )
Wyoming.....	8	55	-5.2	1,730	-2.3	49	263	-1.9	6,517	-2.9

\* Less than one-tenth of 1 per cent.

<sup>u</sup> No change.

**COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS  
IN OCTOBER AND NOVEMBER, 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 November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change	Number of establishments	Number on pay roll November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change
Alabama.....	10	590	+0.5	\$6,773	+7.8	8	982	+10.8	\$11,063	+6.2
Arkansas.....	9	476	+61.9	5,025	+77.4					
Arizona.....						13	2,301	-1.9	47,937	-4.3
California.....	28	676	+1.2	13,406	— .5	32	1,876	+1.5	50,875	— .8
Colorado.....						14	660	+3.0	15,401	-7.0
Connecticut.....	9	159	+4.6	2,636	-16.2					
Delaware.....										
District of Columbia.....										
Florida.....	9	467	-10.5	5,839	— .9					
Georgia.....	18	885	-9.6	8,699	-12.0					
Idaho.....						10	1,968	+24.7	42,936	+27.7
Illinois.....	23	489	-13.0	8,912	-8.6					
Indiana.....	37	757	-12.4	9,903	-27.0					
Iowa.....	14	293	-26.3	4,486	-35.2					
Kansas.....	19	709	-2.5	15,346	-4.8	18	501	+21.6	10,240	+28.4
Kentucky.....	26	1,144	-5.8	7,956	-19.0					
Louisiana.....	4	530	-1.3	6,067	+10.6					
Maine.....	6	175	-28.6	3,534	-41.4					
Maryland.....	15	508	+14.9	2,455	-6.7					
Massachusetts.....	17	363	-6.4	6,988	-19.2					
Michigan.....	22	1,016	-16.3	14,870	-11.0	39	3,839	-2.0	41,448	-5.7
Minnesota.....	6	85	-40.1	1,275	-48.4	32	1,208	— .1	16,927	+6.7
Mississippi.....	3	65	+14.0	784	-2.5					
Missouri.....	9	237	-24.5	2,904	-26.6	13	1,026	-6	19,756	— .3
Montana.....	3	14	( <sup>11</sup> )	133	-28.5	17	1,224	+2.6	34,326	— ( <sup>9</sup> )
Nebraska.....	3	148	+48.0	1,853	+39.2					
Nevada.....						16	119	-8.5	8,678	+1.8
New Hampshire.....	10	153	-4.4	3,746	-11.8					
New Jersey.....	3	20	( <sup>11</sup> )	448	— .2					
New Mexico.....						5	331	+1.2	14,263	-4.3
New York.....	45	1,743	-14.1	31,948	-15.7					
North Carolina.....	9	181	+19.9	1,500	+11.0					
North Dakota.....										
Ohio.....	65	1,961	-3.0	33,182	-4.0					
Oklahoma.....	4	60	-6.2	755	-19.1	30	1,395	+50.6	20,623	+51.2
Oregon.....						4	47	( <sup>11</sup> )	822	+5.4
Pennsylvania.....	56	2,524	-7.4	25,355	-26.5					
Rhode Island.....										
South Carolina.....	5	62	( <sup>11</sup> )	375	-13.6					
South Dakota.....	5	64	-5.9	992	-24.6					
Tennessee.....	19	1,012	+5.6	13,310	+10.0	4	199	+6.4	2,715	+22.0
Texas.....	21	576	+6.9	11,950	+4.9					
Utah.....						11	2,007	-1.8	39,239	+ .9
Vermont.....	38	2,143	— .1	43,330	-2.5					
Virginia.....	15	886	-7.3	8,681	+2.7					
Washington.....	8	194	-6.3	5,538	-2.6					
West Virginia.....	6	295	+14.3	3,054	+2.5					
Wisconsin.....	13	94	-31.4	1,064	-44.2					
Wyoming.....										

\* Less than one-tenth of 1 per cent.

<sup>11</sup> No change.



COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS  
IN OCTOBER AND NOVEMBER, 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	Bituminous coal mining					Crude petroleum producing				
	Number of establishments	Number on pay roll November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change	Number of establishments	Number on pay roll November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change
Alabama.....	43	7,369	+1.9	\$58,398	+5.7					
Arkansas.....	5	192	+118.1	2,867	+74.8	8	377	+4.4	\$9,735	+9.8
Arizona.....										
California.....						40	5,311	-.1	160,535	+-.7
Colorado.....	42	4,968	+4.5	86,187	-2.8					
Connecticut.....										
Delaware.....										
District of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	29	7,264	+51.5	145,351	+10.2	10	201	-2.4	4,307	-2.6
Indiana.....	43	5,403	-1.3	106,835	-10.1	5	32	-3.0	599	-4.8
Iowa.....	19	2,003	+4.0	45,147	-6.0					
Kansas.....	25	1,378	+1.7	27,661	-5.6	34	1,604	+1.5	38,468	+-.1
Kentucky.....	132	22,925	+1.9	325,212	-1.0	6	203	-3.8	3,884	-3.1
Louisiana.....						8	157	-13.7	3,974	-18.4
Maine.....										
Maryland.....	15	1,505	+2.0	9,889	-10.4					
Massachusetts.....										
Michigan.....	3	857	+39.8	17,932	+166.9					
Minnesota.....										
Mississippi.....										
Missouri.....	18	1,446	+4.1	26,189	-6.9					
Montana.....	12	889	+7.1	25,449	-2.5	4	25	-3.8	700	-.4
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	13	1,777	+6.1	28,160	-1.7	5	44	-10.2	1,405	-16.1
New York.....						5	113	+2.7	3,163	+6.3
North Carolina.....										
North Dakota.....										
Ohio.....	62	8,609	+7.3	123,463	-8.2	6	40	-4.8	641	-7.1
Oklahoma.....	14	649	+23.9	13,389	+27.2	64	4,488	-.1	117,152	-2.3
Oregon.....										
Pennsylvania.....	364	51,620	+1.1	664,172	+5.0	23	595	-2.9	14,267	+1.7
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	16	2,430	+1.3	25,034	+2.6					
Texas.....						5	7,022	-1.2	245,103	-.1
Utah.....	16	1,906	+9.0	50,031	+21.3					
Vermont.....										
Virginia.....	36	8,703	+2.8	116,214	-7.8					
Washington.....	10	1,348	-.4	32,337	+26.1					
West Virginia.....	254	38,245	+3.0	524,072	-1.5	8	323	-16.1	7,752	-6.8
Wisconsin.....										
Wyoming.....	31	3,612	+1.3	89,036	-7.5	6	73	+5.8	2,392	+1.4

COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS  
IN OCTOBER AND NOVEMBER, 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 payroll November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change	Number of establishments	Number on payroll November, 1932	Per cent of change	Amount of pay roll (1 week) November, 1932	Per cent of change
Alabama.....	123	1,912	-0.6	\$39,849	-1.7	28	1,229	(11)	\$10,394	-0.1
Arkansas.....	49	1,806	+14.9	29,557	+9.8	17	777	+4.8	7,885	+4.9
Arizona.....	67	1,227	-2.0	31,696	-7	12	329	+4.8	4,897	+2.7
California.....	45	47,800	-8	1,878,865	-8.3	224	9,614	-1.7	154,670	-1.1
Colorado.....	196	5,382	-2.4	137,496	-2.1	30	1,161	-2.4	17,009	-9.9
Connecticut.....	131	7,998	-7	248,722	-1.4	31	1,136	-2.6	14,959	-1.6
Delaware.....	28	1,122	(11)	31,795	-1.4	7	254	+3.7	3,034	+2.1
District of Columbia.....	22	8,268	-1.3	239,457	-1.0	54	3,734	-2.2	56,649	-(9)
Florida.....	185	4,234	+9	108,697	-1.6	34	792	+7.0	8,467	+4.9
Georgia.....	186	6,765	-7	183,570	-3.7	33	1,262	+4	10,613	+4
Idaho.....	56	671	-1	14,237	+2.5	16	240	-9.8	3,355	-4.5
Illinois.....	64	68,770	-5	1,795,916	+1.2	17	8,683	-1.1	153,397	+4
Indiana.....	141	8,996	-2.3	218,671	-1.8	58	2,701	-2.2	30,196	-3.5
Iowa.....	430	9,786	-1.8	221,392	-2.5	61	2,144	-1.4	21,678	-1
Kansas.....	26	6,962	-2.6	160,798	-3.2	41	1,049	+1	10,169	-1.4
Kentucky.....	298	5,580	-6	131,488	+1.2	35	1,697	+1.3	16,872	-1.9
Louisiana.....	154	4,209	-2.4	95,852	-3.2	21	1,716	+1.8	18,327	-6
Maine.....	169	2,827	-1.1	77,766	-8	21	767	-24.1	19,453	-29.6
Maryland.....	94	12,603	-(9)	358,178	+6	26	1,461	+1.3	19,068	+8
Massachusetts.....	139	45,903	-1.0	1,289,604	-1.3	34	5,640	+1.6	56,876	+1
Michigan.....	414	22,137	-1.4	652,066	-1.2	65	3,969	-2.5	50,547	-3.8
Minnesota.....	233	12,834	-6	325,806	-1.7	55	2,825	+6	37,153	-9
Mississippi.....	213	1,990	-3.2	38,435	-1.9	19	455	-(7)	3,761	-5
Missouri.....	221	21,653	-9	575,999	-4	75	4,398	+9	53,263	-2.7
Montana.....	111	1,841	+1	54,487	+1.0	16	283	-3.7	3,406	-2.9
Nebraska.....	305	6,597	-2.2	169,478	-1.6	34	1,594	-2.3	18,152	-8
Nevada.....	40	372	-5.1	10,442	-1.0	10	132	-2.9	2,417	-6.2
New Hampshire.....	143	2,189	+9	59,682	-2	14	256	-46.2	3,082	-42.4
New Jersey.....	280	22,618	-1.2	665,654	-2.5	74	4,029	-9.4	52,887	-8.8
New Mexico.....	55	543	-1.5	11,895	-2.8	13	291	-3	3,131	+1
New York.....	907	104,928	-9	3,240,371	-2.0	272	31,091	+(9)	501,163	-4
North Carolina.....	96	1,778	(11)	34,679	-5	32	1,216	-2.8	11,296	-2.5
North Dakota.....	171	1,546	+28.6	36,237	+21.1	17	319	-1.5	3,557	-5.0
Ohio.....	493	33,097	-9	948,862	-1.0	160	8,119	-5	102,861	+7
Oklahoma.....	246	6,092	+3	134,595	-1.6	35	1,294	+2.2	16,783	+1.0
Oregon.....	187	5,730	-3	146,794	-2	37	1,034	-5.5	14,099	-7.8
Pennsylvania.....	707	59,399	-1.0	1,610,065	-4	184	9,941	+2	128,144	-1.1
Rhode Island.....	36	3,467	+1.0	102,562	+4.4	20	397	-16.4	5,438	-17.4
South Carolina.....	71	1,607	-1.5	33,371	-5.4	16	318	+11.6	2,365	+9.3
South Dakota.....	129	964	-5.5	25,550	-4.1	14	297	-7	3,614	-1.4
Tennessee.....	256	4,723	-3.5	104,537	-3.1	41	2,059	-4	18,681	-4
Texas.....	117	6,115	-2.8	165,545	-2.7	48	3,296	+6	39,617	+1
Utah.....	68	1,723	-2.3	37,372	-9	9	352	-2.2	4,438	-5.7
Vermont.....	120	1,075	+3.1	25,551	-3.2	23	533	-5.2	5,572	-11.7
Virginia.....	179	5,755	-1.4	139,773	-1.4	36	1,944	-1.0	21,071	-3.0
Washington.....	206	9,740	-9	261,851	-1.5	58	1,997	-1.7	24,012	-2.4
West Virginia.....	136	6,433	+1.6	162,756	+2	39	1,042	+4	11,867	-1.9
Wisconsin.....	142	11,104	+1	305,401	-1.0	37	939	-8.0	(12)	-----
Wyoming.....	48	419	-2.1	10,370	-2.6	12	158	+6	2,282	-2.4

<sup>9</sup> Less than one-tenth of 1 per cent.

<sup>11</sup> No change.

<sup>12</sup> Includes restaurants.

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

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

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

**COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS  
IN OCTOBER AND NOVEMBER, 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 November, 1932	Per cent of change	Amount of pay roll (1 week) of November, 1932	Per cent of change	Number of establishments	Number on pay roll November, 1932	Per cent of change	Amount of pay roll (1 week) of November, 1932	Per cent of change
Alabama.....	4	354	-6.8	\$3,424	-7.5	4	178	-1.7	\$1,781	-0.9
Arkansas.....	19	464	-4.9	4,405	-4.8	3	31	-11.4	371	-19.9
Arizona.....	9	396	+2.1	5,725	-1.8					
California.....	16 75	5,738	-1.3	103,808	-4.6					
Colorado.....	10	769	-3.1	10,822	-5.7	11	138	-13.7	2,473	-19.1
Connecticut.....	27	1,328	-2	22,171	-1.5	9	197	-5.7	4,210	-7.6
Delaware.....	4	305	-1.0	4,508	-4.8	3	42	-2.3	685	-6.3
District of Columbia.....	21	2,563	-2.1	40,290	-2.0	6	116	-12.1	2,252	-17.2
Florida.....	9	437	(11)	4,285	+9					
Georgia.....	12	636	-2.8	5,990	-2.1	4	119	-11.2	1,360	-12.1
Idaho.....										
Illinois.....	16 22	1,293	-1.7	19,676	-3.3					
Indiana.....	20	1,530	+4	19,841	-3	9	158	-7.6	2,381	-17.1
Iowa.....	3	211	-1.4	3,157	-5.0					
Kansas.....	38	959	-2.3	11,258	-3.3					
Kentucky.....	18	777	-2.1	9,838	-1.0	5	219	-3.1	3,146	-9.3
Louisiana.....										
Maine.....	20	402	-5.9	5,640	-10.1					
Maryland.....	25	1,922	+1	28,626	-6	11	470	-4.5	6,191	-11.5
Massachusetts.....	105	3,466	-7	57,095	-1.8	181	1,836	-6.3	30,536	-10.1
Michigan.....	23	1,561	-3.6	19,864	-3.5	17	568	-9.4	9,333	-17.8
Minnesota.....	15	774	-2.1	12,341	-3.5	12	327	-7.1	5,825	-13.3
Mississippi.....	6	311	-2.2	2,754	-1.9					
Missouri.....	34	2,358	-2.5	33,281	-3.3	13	403	-5.4	6,745	-14.0
Montana.....	13	302	-3.2	5,510	-2.0	3	22	(11)	431	+1.2
Nebraska.....	7	445	-9	6,405	-2.0	3	52	-7.1	960	-11.8
Nevada.....	4	53	-8.6	1,024	-15.0					
New Hampshire.....	15	247	-8	3,809	-1.7					
New Jersey.....	26	3,013	-1.1	55,573	-10.1	8	272	-3.5	6,846	-9.8
New Mexico.....	5	228	-1.7	3,370	-5.2					
New York.....	69	6,885	-1.3	118,002	-2.3	19	564	-6.3	11,006	-6.3
North Carolina.....	11	678	-3.1	6,937	-4.8					
North Dakota.....	9	206	-1.4	3,539	-2.7					
Ohio.....	81	4,217	-1.4	63,060	-1.3	42	1,575	-2.8	24,841	-12.3
Oklahoma.....	9	623	-2.2	7,527	-4.3	3	148	-3.3	1,570	-7.1
Oregon.....	4	313	-2.2	4,889	-4.1					
Pennsylvania.....	42	3,236	+3	49,328	+6	24	1,126	-5.7	18,966	-11.9
Rhode Island.....	17	1,056	-1.9	17,640	-5.4	6	266	-15.0	4,757	-22.5
South Carolina.....	8	302	-5.3	2,874	-6.4					
South Dakota.....	6	122	-2.4	1,615	-4.9					
Tennessee.....	11	817	-2.0	6,462	-2.0	4	38	-2.6	613	-2
Texas.....	24	1,254	-8.5	13,904	-4.9	13	333	-8.5	5,086	-14.8
Utah.....	6	483	-3.0	6,757	+1	8	129	-1.5	2,227	-9.9
Vermont.....	5	74	-1.3	922	-4.1					
Virginia.....	11	759	-3.7	8,550	-5.3	19	228	-4.2	3,259	-7.5
Washington.....	14	698	+1	12,939	-2.6	14	208	-4.6	3,489	-12.9
West Virginia.....	21	722	+6	9,169	-4.3	11	227	-4	3,046	-5.6
Wisconsin.....	16 28	674	-2.5	13,273	-5.1					
Wyoming.....	5	104	-12.6	1,665	-21.2					

<sup>11</sup> No change.

<sup>12</sup> Includes dyeing and cleaning.

## Employment and Pay Roll in November, 1932, in Cities of over 500,000 Population

IN THE following table are presented the fluctuations in employment and pay-roll totals in November, 1932, as compared with October, 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 NOVEMBER, 1932, AS COMPARED WITH OCTOBER, 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
		October, 1932	November, 1932		October, 1932	November, 1932	
New York City.....	2, 231	302, 145	298, 580	-1.2	\$8, 376, 903	\$8, 105, 524	-3.2
Chicago, Ill.....	1, 851	197, 273	194, 357	-1.5	4, 606, 892	4, 457, 756	-3.2
Philadelphia, Pa.....	1, 653	123, 132	122, 876	-.2	2, 701, 537	2, 643, 575	-2.1
Detroit, Mich.....	712	126, 837	145, 457	+6.3	2, 816, 351	3, 072, 225	+9.1
Los Angeles, Calif.....	716	55, 941	55, 012	-1.7	1, 312, 306	1, 269, 425	-3.3
Cleveland, Ohio.....	1, 070	84, 280	83, 634	-.8	1, 762, 011	1, 761, 550	(1)
St. Louis, Mo.....	484	64, 186	63, 271	-1.4	1, 352, 974	1, 290, 885	-4.6
Baltimore, Md.....	543	45, 820	44, 895	-2.0	900, 960	867, 855	-3.7
Boston, Mass.....	2, 940	87, 499	85, 632	-2.1	2, 085, 079	2, 046, 104	-1.9
Pittsburgh, Pa.....	329	47, 545	46, 192	-2.8	886, 425	859, 166	-3.1
San Francisco, Calif.....	1, 094	43, 015	42, 641	-.9	1, 069, 907	1, 038, 843	-2.9
Buffalo, N. Y.....	286	35, 832	37, 156	+3.7	798, 119	823, 087	+3.1
Milwaukee, Wis.....	465	35, 439	35, 805	+1.0	723, 442	721, 120	-.3

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

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

DATA are not yet available concerning railroad employment for November, 1932. Reports of the Interstate Commerce Commission for Class I railroads show that the number of employees (exclusive of executives and officials) increased from 997,321 on September 15, 1932, to 1,020,132 on October 15, 1932, or 2.3 per cent; the amount of pay roll increased from \$113,524,006 in September to \$119,905,613 in October, or 5.6 per cent.

The monthly trend of employment from January, 1923, to October, 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 OCTOBER, 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	57.0
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	<sup>1</sup> 58.4

<sup>1</sup> Average for 10 months.

## Wage-Rate Changes in American Industries

### Manufacturing Industries

IN THE following table is presented information concerning wage-rate adjustments occurring between October 15 and November 15 as shown by reports received from manufacturing establishments supplying employment data to this bureau. Of the 18,178 manufacturing establishments included in the November survey, 17,986 establishments, or 98.9 per cent of the total, reported no change in wage rates over the month interval. The 2,677,624 employees not affected by changes in wage rates constituted 99.5 per cent of the total number of employees covered by the November trend-of-employment survey of manufacturing industries.

Decreases in wage rates were reported by 190 establishments in 45 of the 89 industries surveyed. These establishments represented 1 per cent of the total number of establishments covered. The wage-rate decreases reported averaged 10.8 per cent and affected 13,962 employees, or one-half of 1 per cent of all employees in the establishments reporting.

Two establishments in one industry reported wage-rate increases in November, averaging 17 per cent, and affecting 125 employees.

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH  
ENDING NOVEMBER 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, 178	2, 691, 711	17, 986	2	190	2, 677, 624	125	13, 962
Per cent of total.....	100. 0	100. 0	98. 9	(1)	1. 0	99. 5	(1)	. 5
Slaughtering and meat packing.....	230	86, 284	226	—	4	86, 063	—	201
Confectionery.....	318	41, 480	313	—	5	41, 244	—	246
Ice cream.....	397	10, 967	376	—	21	9, 393	—	1, 576
Flour.....	439	15, 597	436	—	3	15, 525	—	72
Baking.....	943	61, 062	930	—	13	60, 064	—	408
Sugar refining, cane.....	15	8, 120	15	—	—	8, 120	—	—
Beet sugar.....	58	20, 012	57	—	1	19, 931	—	81
Beverages.....	334	9, 522	329	—	5	9, 488	—	34
Butter.....	310	5, 734	307	—	3	5, 655	—	79
Cotton goods.....	701	238, 359	697	—	4	237, 264	—	1, 095
Hosiery and knit goods.....	443	110, 933	436	2	5	110, 477	125	331
Silk goods.....	245	45, 403	244	—	1	45, 291	—	112
Woolen and worsted goods.....	257	55, 676	257	—	—	55, 676	—	—
Carpets and rugs.....	32	14, 426	32	—	—	14, 426	—	—
Dyeing and finishing textiles.....	152	34, 274	151	—	1	33, 188	—	1, 086
Clothing, men's.....	384	64, 041	381	—	3	63, 428	—	613
Shirts and collars.....	117	16, 023	117	—	—	16, 023	—	—
Clothing, women's.....	412	25, 517	412	—	—	25, 517	—	—
Millinery.....	130	8, 407	128	—	2	8, 242	—	165
Corsets and allied garments.....	31	5, 649	31	—	—	5, 649	—	—
Cotton small wares.....	114	9, 793	113	—	1	9, 663	—	130
Hats, fur-felt.....	37	5, 633	37	—	—	5, 633	—	—
Men's furnishings.....	75	6, 805	74	—	1	6, 791	—	14
Iron and steel.....	210	175, 965	207	—	3	174, 639	—	1, 326
Cast-iron pipe.....	40	5, 754	40	—	—	5, 754	—	—
Structural and ornamental iron- work.....	184	12, 966	180	—	4	12, 812	—	154
Hardware.....	113	21, 415	113	—	—	21, 415	—	—
Steam fittings and steam and hot- water heating apparatus.....	100	14, 930	98	—	2	13, 978	—	952
Stoves.....	162	17, 357	160	—	2	17, 261	—	96
Bolts, nuts, washers, and rivets.....	69	8, 292	69	—	—	8, 292	—	—
Cutlery (not including silver and plated cutlery) and edge tools.....	127	9, 031	127	—	—	9, 031	—	—
Forgings, iron and steel.....	61	4, 934	61	—	—	4, 934	—	—
Plumbers' supplies.....	69	6, 410	69	—	—	6, 410	—	—
Tin cans and other tinware.....	61	8, 677	61	—	—	8, 677	—	—
Tools (not including edge tools, machine tools, files, or saws).....	130	6, 959	129	—	1	6, 936	—	23
Wirework.....	71	5, 185	71	—	—	5, 185	—	—
Lumber:								
Sawmills.....	635	60, 147	633	—	2	60, 137	—	10
Millwork.....	454	17, 507	447	—	7	17, 272	—	235
Furniture.....	467	44, 660	461	—	6	44, 370	—	290
Turpentine and rosin.....	21	1, 041	21	—	—	1, 041	—	—
Leather.....	162	25, 274	160	—	2	25, 080	—	194
Boots and shoes.....	343	101, 184	342	—	1	101, 173	—	11
Paper and pulp.....	408	80, 298	403	—	5	79, 716	—	582
Paper boxes.....	308	21, 090	306	—	2	21, 064	—	26
Printing:								
Book and job.....	769	48, 658	749	—	20	48, 129	—	529
Newspapers and periodicals.....	475	70, 255	469	—	6	70, 013	—	242
Chemicals.....	114	20, 483	114	—	—	20, 483	—	—
Fertilizers.....	203	6, 119	203	—	—	6, 119	—	—
Petroleum refining.....	139	51, 750	139	—	—	51, 750	—	—
Cottonseed oil, cake, and meal.....	53	2, 919	53	—	—	2, 919	—	—
Druggists.....	42	7, 879	42	—	—	7, 879	—	—
Explosives.....	24	3, 156	24	—	—	3, 156	—	—
Paints and varnishes.....	363	15, 161	360	—	3	15, 117	—	44
Rayon.....	23	27, 919	23	—	—	27, 919	—	—
Soap.....	89	12, 702	89	—	—	12, 702	—	—
Cement.....	118	13, 337	117	—	1	13, 272	—	65
Brick, tile, and terra cotta.....	673	17, 702	669	—	4	17, 251	—	451
Pottery.....	122	15, 329	122	—	—	15, 329	—	—
Glass.....	192	34, 486	190	—	2	34, 340	—	146
Marble, granite, slate, and other stone products.....	222	5, 232	222	—	—	5, 232	—	—
Stamped and enameled ware.....	89	13, 402	87	—	2	13, 051	—	351
Brass, bronze, and copper prod- ucts.....	205	28, 030	202	—	3	27, 726	—	304

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

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING NOVEMBER 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
Aluminum manufactures.....	28	4,979	28	—	—	4,979	—	—
Clocks, time recording devices, and clock movements.....	24	5,285	24	—	—	5,285	—	—
Gas and electric fixtures, lamps, lanterns, and reflectors.....	55	4,766	55	—	—	4,766	—	—
Plated ware.....	53	7,971	53	—	—	7,971	—	—
Smelting and refining—copper, lead, and zinc.....	29	7,919	29	—	—	7,919	—	—
Jewelry.....	150	9,146	148	—	2	9,140	—	6
Chewing and smoking tobacco and snuff.....	34	10,304	34	—	—	10,304	—	—
Cigars and cigarettes.....	212	47,138	211	—	1	46,898	—	240
Automobiles.....	248	156,684	245	—	3	156,630	—	154
Aircraft.....	28	5,971	28	—	—	5,971	—	—
Cars, electric and steam railroad.....	39	5,762	39	—	—	5,762	—	—
Locomotives.....	11	2,139	11	—	—	2,139	—	—
Shipbuilding.....	93	25,146	92	—	1	25,063	—	83
Rubber tires and inner tubes.....	42	39,988	42	—	—	39,988	—	—
Rubber boots and shoes.....	9	10,153	9	—	—	10,153	—	—
Rubber goods, other than boots, shoes, tires, and inner tubes.....	103	19,762	103	—	—	19,762	—	—
Agricultural implements.....	75	5,764	72	—	3	5,602	—	162
Electrical machinery, apparatus, and supplies.....	294	104,634	290	—	4	104,459	—	175
Engines, turbines, tractors, and water wheels.....	86	14,977	86	—	—	14,977	—	—
Cash registers, adding machines, and calculating machines.....	44	13,253	44	—	—	13,253	—	—
Foundry and machine-shop products.....	1,065	99,080	1,050	—	15	98,626	—	434
Machine tools.....	148	10,462	148	—	—	10,462	—	—
Textile machinery and parts.....	44	6,441	44	—	—	6,441	—	—
Typewriters and supplies.....	18	9,167	18	—	—	9,167	—	—
Radio.....	40	20,051	40	—	—	20,051	—	—
Electric-railroad repair shops.....	384	20,254	382	—	2	20,203	—	51
Steam-railroad repair shops.....	538	78,211	530	—	8	77,828	—	383

## Nonmanufacturing Industries

DATA concerning wage-rate changes occurring between October 15 and November 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 canning and preserving 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: Telephone and telegraph, 8.3 per cent; electric railroad operation and maintenance, 8.9 per cent; retail trade, 9.5 per cent; laundries, 9.6 per cent; quarrying and nonmetallic mining and dyeing and cleaning, 10 per cent each; hotels, 10.9 per cent; wholesale trade, 11.9 per cent; metalliferous mining, 12.5 per cent; power and light, 14 per cent; bituminous coal mining, 15.6 per cent; and crude petroleum, 16.9 per cent. Increases in wage rates from October to November were reported by three establishments in two of these industrial groups. The wage-rate increases reported averaged 5 per cent in wholesale trade and 7 per cent in the power and light group. The number of establishments reporting and the number of employees covered in the November 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 NOVEMBER 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	85,685	160	-----	-----	85,685	-----	-----
Per cent of total.....	100.0	100.0	100.0	-----	-----	100.0	-----	-----
Bituminous coal mining.....	1,193	175,585	1,173	-----	15	171,777	-----	3,808
Per cent of total.....	100.0	100.0	98.7	-----	1.3	97.8	-----	2.2
Metalliferous mining.....	281	22,171	280	-----	1	21,695	-----	476
Per cent of total.....	100.0	100.0	99.6	-----	0.4	97.9	-----	2.1
Quarrying and nonmetallic mining.....	617	22,240	615	-----	2	22,194	-----	46
Per cent of total.....	100.0	100.0	99.7	-----	0.3	99.8	-----	0.2
Crude petroleum producing.....	276	22,848	274	-----	2	22,830	-----	18
Per cent of total.....	100.0	100.0	99.3	-----	0.7	99.9	-----	0.1
Telephone and telegraph.....	8,281	267,789	7,895	-----	386	255,199	-----	12,590
Per cent of total.....	100.0	100.0	95.3	-----	4.7	95.3	-----	4.7
Power and light.....	3,535	212,984	3,529	2	4	201,152	10,793	1,039
Per cent of total.....	100.0	100.0	99.8	0.1	0.1	94.4	5.1	0.5
Electric-railroad and motor-bus operation and maintenance.....	498	132,927	486	-----	12	131,229	-----	1,698
Per cent of total.....	100.0	100.0	97.6	-----	2.4	98.7	-----	1.3
Wholesale trade.....	2,757	71,859	2,737	1	19	71,482	40	337
Per cent of total.....	100.0	100.0	99.3	(1)	0.7	99.5	0.1	0.5
Retail trade.....	14,345	345,693	14,322	-----	23	345,259	-----	434
Per cent of total.....	100.0	100.0	99.8	-----	0.2	99.9	-----	0.1
Hotels.....	2,427	132,858	2,410	-----	17	131,745	-----	1,113
Per cent of total.....	100.0	100.0	99.3	-----	0.7	99.2	-----	0.8
Canning and preserving.....	933	39,132	933	-----	-----	39,132	-----	-----
Per cent of total.....	100.0	100.0	100.0	-----	-----	100.0	-----	-----
Laundries.....	994	58,583	985	-----	9	58,191	-----	392
Per cent of total.....	100.0	100.0	99.1	-----	0.9	99.3	-----	0.7
Dyeing and cleaning.....	368	11,416	367	-----	1	11,408	-----	8
Per cent of total.....	100.0	100.0	99.7	-----	0.3	99.9	-----	0.1

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