

UNITED STATES DEPARTMENT OF LABOR

W. N. DOAK, Secretary

BUREAU OF LABOR STATISTICS

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TREND OF EMPLOYMENT

JULY, 1932



By Industries:	Page
Summary	1
Manufacturing Industries	2
Nonmanufacturing Industries	12
Anthracite and Bituminous Coal Mining	12
Metalliferous Mining	12
Quarrying and Nonmetallic Mining	12
Crude Petroleum Producing	12
Public Utilities:	
Telephone and Telegraph	12
Power, Light, and Water	12
Electric Railroads	12
Wholesale and Retail Trade	12
Hotels	12
Canning and Preserving	12
Laundries	12
Dyeing and Cleaning	12
Building Construction	22
Class I Steam Railroads	24
By States	15
By Cities	22
Wage changes	24

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1932

TREND OF EMPLOYMENT

Summary for July, 1932

EMPLOYMENT decreased 3 per cent in July, 1932, as compared with June, 1932, and earnings decreased 6.1 per cent.

These figures are based on the pay rolls ending nearest the 15th of the month.

The industrial groups surveyed, the number of establishments reporting in each group, the number of employees covered, and the earnings for one week, for both June and July, 1932, together with the per cents of change in July are shown in the following summary:

SUMMARY OF EMPLOYMENT AND EARNINGS, JUNE AND JULY, 1932

Industrial group	Estab-lish-ments	Employment		Per cent of change	Earnings in 1 week		Per cent of change
		June, 1932	July, 1932		June, 1932	July, 1932	
Manufacturing.....	17, 873	2, 573, 793	2, 474, 141	¹ -4. 0	\$46, 593, 204	\$42, 855, 560	¹ -7. 9
Coal mining.....	1, 269	220, 909	204, 733	-7. 3	3, 285, 288	2, 979, 105	-9. 3
Anthracite.....	160	72, 455	60, 818	-16. 1	1, 488, 103	1, 372, 069	-7. 8
Bituminous.....	1, 109	148, 454	143, 915	-3. 1	1, 797, 195	1, 606, 437	-10. 6
Metalliferous mining.....	239	20, 391	18, 707	-8. 3	395, 016	332, 499	-15. 8
Quarrying and nonmetallic mining.....	593	21, 010	20, 995	-	340, 427	320, 766	-3. 1
Crude petroleum producing.....	240	20, 889	21, 331	+2. 1	650, 550	654, 396	+
Public utilities.....	11, 980	636, 221	629, 406	-1. 1	18, 364, 564	17, 767, 296	-3. 3
Telephone and telegraph.....	8, 042	282, 579	279, 694	-1. 0	7, 814, 155	7, 580, 549	-3. 0
Power and light.....	3, 446	222, 428	219, 930	-1. 1	6, 746, 623	6, 595, 460	-2. 2
Electric railroad and motor bus operation and maintenance.....	492	131, 214	124, 782	-5. 1	3, 804, 086	3, 591, 287	-5. 6
Trade.....	15, 985	401, 063	380, 699	-5. 1	8, 810, 285	8, 270, 769	-6. 1
Wholesale.....	2, 604	67, 873	67, 449	-	1, 878, 444	1, 834, 775	-2. 3
Retail.....	13, 381	333, 190	313, 250	-6. 0	6, 931, 843	6, 435, 994	-7. 2
Hotels.....	2, 489	135, 845	136, 645	+	² 1, 944, 004	² 1, 882, 018	-3. 2
Canning and preserving.....	870	40, 729	53, 553	+31. 5	518, 410	607, 477	+17. 2
Laundries.....	983	61, 153	60, 601	-	1, 011, 334	976, 930	-3. 4
Dyeing and cleaning.....	375	12, 725	12, 325	-3. 2	251, 547	229, 233	-8. 9
Building construction.....	10, 521	83, 812	87, 289	+4. 1	2, 084, 786	2, 256, 432	+8. 2
Total.....	63, 417	4, 228, 543	4, 100, 425	-3. 0	84, 256, 025	79, 141, 481	-6. 1

¹ Weighted per cent of change for the combined 89 manufacturing industries, repeated from Table 1, manufacturing industries; the remaining per cents of change, including total, are unweighted.

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

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

Per capita weekly earnings in July, 1932, for each of the 16 industrial groups included in the bureau's monthly trend-of-employment survey, together with the per cents of change in July, 1932, as compared with June, 1932, and July, 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 JULY, 1932, IN 16 INDUSTRIAL GROUPS, AND
COMPARISON WITH JUNE, 1932, AND JULY, 1931

Industrial group	Per capita weekly earnings in July, 1932	Per cent of change July, 1932, compared with—	
		June, 1932	July, 1931
Manufacturing.....	\$17.32	-4.0	-22.0
Coal mining:			
Anthracite.....	22.57	+9.9	-6.1
Bituminous.....	11.16	-7.8	-37.0
Metalliferous mining.....	17.77	-8.3	-22.0
Quarrying and nonmetallic mining.....	15.71	-3.0	-27.1
Crude petroleum producing.....	30.68	-2.4	-11.2
Public utilities:			
Telephone and telegraph.....	27.10	-2.0	-6.6
Power and light.....	29.99	-1.1	-5.1
Electric-railroad and motor-bus operation and maintenance.....	27.67	-4.6	-11.2
Trade:			
Wholesale.....	27.20	-1.7	-12.0
Retail.....	20.55	-1.2	-14.5
Hotels (cash payments only) ¹	13.77	-3.8	-13.7
Canning and preserving.....	11.34	-10.9	-10.3
Laundries.....	16.12	-2.5	-13.2
Dyeing and cleaning.....	18.60	-5.9	-16.7
Building construction.....	25.85	+3.9	(?)
Total.....	³ 19.16	³ -3.4	³ -16.8

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

² Data not available.

³ Does not include building construction.

Employment in Selected Manufacturing Industries in July, 1932

Comparison of Employment and Earnings in July, 1932, with June, 1932, and July, 1931

EMPLOYMENT in manufacturing industries decreased 4 per cent in July, 1932, as compared with June, 1932, and earnings decreased 7.9 per cent over the month interval. Comparing July, 1932, with July, 1931, decreases of 23 per cent in employment and 40 per cent in earnings are shown over the 12-month period.

The per cents of change in employment and earnings in July, 1932, as compared with June, 1932, are based on returns made by 17,873 establishments in 89 of the principal manufacturing industries in the United States, having in July 2,474,141 employees whose earnings in one week were \$42,855,560.

The index of employment in July, 1932, was 55.2 as compared with 57.5 in June, 1932, 59.7 in May, 1932, and 71.7 in July, 1931; the pay-roll index in July, 1932, was 36.2 as compared with 39.3 in June, 1932, 42.5 in May, 1932, and 60.3 in July, 1931. The 12-month average for 1926 equals 100.

In Table 1, which follows, are shown the number of identical establishments reporting in both June and July, 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 July 15, and the amount of their weekly earnings in July, the per cents of change over the month and year intervals, and the index numbers of employment and earnings in July, 1932.

The monthly per cents of change for each of the 89 separate industries are computed by direct comparison of the total number of employees and of the amount of weekly earnings reported in identical

establishments for the two months considered. The per cents of change over the month interval in the several groups and in the total of the 89 manufacturing industries are computed from the index numbers of these groups, which are obtained by weighting the index numbers of the several industries in the groups by the number of employees or wages paid in the industries. The per cents of change over the year interval in the separate industries, in the groups, and in the totals are computed from the index numbers of employment and earnings.

TABLE 1.—COMPARISON OF EMPLOYMENT AND EARNINGS IN MANUFACTURING ESTABLISHMENTS IN JUNE AND JULY, 1932, AND JULY, 1931

Industry	Estab- lish- ments report- ing in both June and July, 1932	Employment			Earnings			Index num- bers, July, 1932 (average 1926=100)	
		Number on pay roll, July, 1932	Per cent of change		Amount of pay roll (1 week), July, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			June to July, 1932	July, 1931, to July, 1932		June to July, 1932	July, 1931, to July, 1932		
Food and kindred products.	3, 013	226, 599	-1. 9	-10. 1	\$4, 935, 156	-4. 4	-22. 6	79. 4	66. 8
Slaughtering and meat packing.....	227	81, 257	-1. 2	-4. 4	1, 727, 526	-5. 0	-21. 9	85. 2	69. 9
Confectionery.....	326	24, 885	-10. 0	-15. 2	345, 507	-15. 5	-27. 8	58. 7	43. 2
Ice cream.....	381	13, 660	-1. 6	-11. 7	374, 681	-2. 7	-23. 9	83. 4	69. 0
Flour.....	427	15, 817	+0. 6	-8. 1	344, 717	+0. 8	-10. 6	83. 2	68. 8
Baking.....	935	62, 518	-1. 0	-11. 8	1, 414, 772	-3. 6	-22. 5	81. 6	68. 8
Sugar refining, cane.....	15	8, 052	+1. 5	-10. 0	214, 579	+4. 1	-20. 0	75. 8	69. 4
Beet sugar.....	46	2, 966	+2. 6	+2. 5	69, 167	-7. 2	-20. 4	40. 8	33. 1
Beverages.....	341	11, 151	-2. 8	-18. 2	303, 108	-6. 4	-26. 9	79. 8	70. 0
Butter.....	315	6, 293	+1. 2	-10. 0	141, 099	-2. 0	-18. 0	104. 7	87. 2
Textiles and their products.	3, 069	473, 412	-5. 6	-27. 7	5, 479, 685	-8. 8	-50. 2	55. 3	32. 1
Cotton goods.....	684	168, 757	-3. 3	-27. 2	1, 578, 805	-6. 5	-50. 0	55. 5	32. 9
Hosiery and knit goods.....	452	86, 734	-9. 6	-15. 5	973, 434	-17. 7	-37. 3	67. 5	40. 4
Silk goods.....	255	30, 187	+0. 6	-34. 9	374, 175	+3. 3	-53. 6	41. 4	25. 8
Woolen and worsted goods.....	260	44, 784	+15. 5	-32. 9	670, 975	+18. 0	-51. 1	56. 9	38. 4
Carpets and rugs.....	32	9, 062	-14. 5	-41. 0	131, 327	-11. 2	-61. 4	44. 4	23. 3
Dyeing and finishing tex- tiles.....	149	27, 524	-10. 4	-22. 5	412, 003	-23. 7	-48. 7	64. 1	37. 8
Clothing, men's.....	357	48, 224	+0. 9	-26. 1	543, 494	+0. 4	-58. 1	56. 4	26. 0
Shirts and collars.....	105	12, 183	-6. 7	-28. 2	121, 266	-10. 5	-48. 7	51. 3	30. 5
Clothing, women's.....	385	17, 289	-30. 0	-38. 7	273, 614	-30. 0	-55. 2	45. 4	25. 6
Millinery.....	136	6, 258	-15. 5	-30. 6	93, 629	-19. 0	-44. 6	47. 1	28. 5
Corsets and allied garments.....	32	5, 165	-8. 2	-8. 5	68, 323	-11. 7	-25. 6	60. 9	63. 2
Cotton small wares.....	112	8, 230	-3. 2	-23. 4	113, 117	-6. 6	-43. 8	69. 2	44. 8
Hats, fur felt.....	38	4, 839	+5. 4	-29. 2	80, 453	+17. 5	-46. 0	59. 4	32. 6
Men's furnishings.....	72	4, 176	-18. 0	-32. 2	45, 110	-20. 4	-53. 4	46. 6	28. 4
Iron and steel and their products, not including machinery.....	1, 383	284, 549	-6. 0	-25. 9	3, 721, 805	-14. 1	-54. 1	51. 6	23. 1
Iron and steel.....	212	169, 618	-5. 7	-25. 8	1, 953, 993	-15. 4	-50. 2	51. 7	19. 7
Cast-iron pipe.....	38	5, 907	+2. 3	-44. 7	76, 790	-2. 3	-64. 8	32. 1	17. 1
Structural and ornamental ironwork.....	180	15, 734	-5. 3	-37. 1	266, 626	-7. 5	-59. 0	45. 2	25. 0
Hardware.....	107	19, 581	-9. 1	-26. 1	234, 925	-19. 8	-51. 2	47. 6	21. 6
Steam fittings and steam and hot-water heating apparatus.....	111	15, 410	-3. 5	-38. 9	261, 258	-9. 6	-51. 9	32. 5	18. 5
Stoves.....	160	12, 959	-12. 0	-25. 7	205, 792	-13. 6	-44. 9	40. 7	21. 7
Bolts, nuts, washers, and rivets.....	64	8, 037	-2. 4	-19. 7	111, 351	-11. 2	-45. 9	62. 6	31. 7
Cutlery (not including sil- ver and plated cutlery) and edge tools.....	127	8, 625	-9. 8	-14. 7	152, 990	-12. 9	-32. 3	62. 2	40. 4
Forgings, iron and steel.....	61	5, 370	-5. 9	-14. 0	89, 484	-2. 8	-35. 9	54. 8	30. 2
Plumbers' supplies.....	63	4, 438	-3. 5	-20. 5	60, 454	-17. 1	-51. 3	61. 4	30. 9
Tin cans and other tinware.....	58	8, 570	-2. 1	-13. 4	160, 967	-7. 1	-24. 6	75. 1	43. 5
Tools (not including edge tools, machine tools, files, or saws).....	132	5, 349	-9. 3	-31. 3	71, 926	-22. 5	-52. 5	59. 2	29. 1
Wirework.....	70	4, 951	-6. 8	-10. 7	75, 249	-18. 9	-38. 8	87. 3	53. 4

TABLE 1.—COMPARISON OF EMPLOYMENT AND EARNINGS IN MANUFACTURING ESTABLISHMENTS IN JUNE AND JULY, 1932, AND JULY, 1931—Continued

Industry	Estab- lish- ments report- ing in both June and July, 1932	Employment			Earnings			Index num- bers, July, 1932 (average 1926=100)	
		Number on pay roll, July, 1932	Per cent of change		Amount of pay roll (1 week), July, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			June to July, 1932	July, 1931, to July, 1932		June to July, 1932	July, 1931, to July, 1932		
Lumber and allied products	1,557	111,125	-3.7	-30.3	\$1,351,332	-8.6	-53.9	36.4	19.1
Lumber, sawmills	605	54,792	-3.1	-29.6	629,450	-8.1	-54.0	34.7	17.8
Lumber, millwork	450	16,431	-4.7	-34.5	247,401	-6.9	-53.4	34.8	20.8
Furniture	483	38,883	-5.3	-30.4	459,873	-13.1	-56.0	40.7	19.2
Turpentine and rosin	19	1,019	+1.6	-20.5	14,578	+7.5	-32.9	44.7	39.1
Leather and its manufac- tures	498	121,490	+1.6	-15.3	1,820,571	+3.0	-36.3	70.8	44.7
Leather	165	22,078	-0.5	-20.3	332,789	-1.4	-35.1	63.1	45.9
Boots and shoes	333	99,412	+1.9	-14.2	1,427,782	+4.4	-55.8	72.7	44.3
Paper and printing	1,910	211,450	-1.9	-12.4	5,249,917	-5.2	-26.0	78.4	64.2
Paper and pulp	401	74,673	-1.4	-11.0	1,266,611	-7.9	-32.6	72.2	45.9
Paper boxes	312	19,105	-3.8	-17.0	322,999	-8.6	-31.3	66.5	52.8
Printing, book and job	750	51,690	-1.6	-16.1	1,373,279	-4.6	-29.7	73.9	59.9
Printing, newspapers and periodicals	447	66,042	-1.7	-8.1	2,287,038	-3.7	-18.8	96.0	85.1
Chemicals and allied prod- ucts	1,007	127,327	-1.9	-18.1	2,939,837	-6.5	-30.2	68.0	56.5
Chemicals	114	19,787	-1.8	-13.8	465,900	-4.8	-28.2	82.1	58.6
Fertilizers	203	4,268	-6.4	-26.4	62,380	-4.4	-41.0	30.4	24.0
Petroleum refining	114	47,152	-0.9	-13.0	1,324,874	-4.4	-23.0	64.1	56.8
Cottonseed, oil, cake, and meal	51	1,575	+18.2	+8.1	19,295	+7.2	-1.7	28.1	28.3
Druggists' preparations	39	6,844	-6.3	-17.0	136,880	-9.1	-26.1	66.1	64.2
Explosives	21	2,550	-6.5	-32.2	48,257	-5.9	-47.0	66.6	42.8
Paints and varnishes	352	14,887	-4.6	-14.8	313,188	-14.1	-32.2	68.9	53.0
Rayon	22	18,035	-0.5	-40.6	281,694	-9.0	-54.6	92.9	71.2
Soap	91	12,229	-2.7	-7.4	287,369	-8.7	-14.8	93.1	82.6
Stone, clay, and glass prod- ucts	1,309	81,650	-3.9	-34.7	1,303,374	-8.1	-52.0	41.8	24.8
Cement	123	13,768	-2.2	-37.1	245,068	-9.3	-57.2	40.6	24.1
Brick, tile, and terra cotta	657	19,098	-1.4	-42.2	230,965	-5.1	-62.1	29.4	13.1
Pottery	121	11,755	-16.9	-32.6	155,223	-23.0	-50.3	48.3	24.3
Glass	188	31,604	-5.7	-21.1	553,515	-14.4	-38.7	54.5	37.6
Marble, granite, slate, and other stone products	220	5,425	+12.7	-42.5	118,603	+18.8	-55.3	47.5	32.3
Nonferrous metals and their products	619	69,654	-8.9	-27.3	1,127,109	-13.1	-44.0	48.9	29.9
Stamped and enameled ware	92	12,183	-8.3	-19.9	185,454	-16.6	-39.2	56.7	33.8
Brass, bronze, and copper products	199	25,925	-4.1	-24.9	416,041	-6.8	-45.2	49.8	28.6
Aluminum manufactures	26	4,608	-4.8	-41.5	60,825	-8.9	-64.0	44.4	21.8
Clocks, time-recording de- vices, and clock move- ments	22	3,046	-28.0	-47.3	40,680	-27.4	-59.4	30.6	19.0
Gas and electric fixtures, lamps, lanterns, and re- flectors	52	3,416	-29.5	-45.1	70,780	-32.4	-55.3	48.3	34.2
Plated ware	51	6,242	-12.1	-24.4	112,117	-12.5	-37.9	53.3	31.8
Smelting and refining— copper, lead, and zinc	26	7,645	-4.1	-16.3	126,474	-8.3	-29.0	58.0	36.7
Jewelry	151	6,589	-13.4	-36.5	114,738	-14.7	-42.2	31.0	19.6
Tobacco manufactures	251	54,694	-1.1	-13.5	719,934	-1.6	-23.5	70.3	54.6
Chewing and smoking tobacco and snuff	36	9,962	-1.9	+8.7	132,331	-4.7	-9.0	87.7	69.9
Cigars and cigarettes	215	44,732	-0.9	-16.3	587,603	-0.9	-25.4	68.1	52.8
Transportation equipment	414	274,455	-3.7	-15.9	5,955,898	-7.2	-20.2	56.8	41.4
Automobiles	244	233,006	-2.9	-14.0	4,949,517	-7.6	-18.3	59.2	42.3
Aircraft	34	6,055	-8.2	-34.2	185,221	-10.5	-35.5	180.5	181.3
Cars, electric and steam railroad	33	4,576	+3.5	-25.7	77,105	+0.7	-30.5	19.7	11.4
Locomotives	11	2,506	-7.7	-42.4	54,533	-15.3	-53.6	16.6	12.1
Shipbuilding	92	28,312	-9.2	-19.6	689,522	-3.8	-24.2	76.2	63.7

TABLE 1.—COMPARISON OF EMPLOYMENT AND EARNINGS IN MANUFACTURING ESTABLISHMENTS IN JUNE AND JULY, 1932, AND JULY, 1931—Continued

Industry	Estab- lish- ments report- ing in both June and July, 1932	Employment			Earnings			Index num- bers, July, 1932 (average 1926=100)	
		Number on pay roll, July, 1932	Per cent of change		Amount of pay roll (1 week), July, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			June to July, 1932	July, 1931, to July, 1932		June to July, 1932	July, 1931, to July, 1932		
Rubber products.....	144	59,564	-3.1	-12.3	\$1,167,642	-14.3	-28.9	65.5	43.8
Rubber tires and inner tubes.....	38	36,517	-1.3	-8.6	811,804	-16.3	-25.1	65.0	45.1
Rubber boots and shoes.....	10	9,650	-9.4	-24.5	129,992	-18.4	-43.6	50.6	28.8
Rubber goods, other than boots, shoes, tires, and inner tubes.....	96	13,397	-3.8	-12.9	225,846	-6.3	-30.9	77.5	50.1
Machinery, not including transportation equip- ment.....	1,782	256,799	-5.6	-31.2	5,086,003	-10.5	-49.1	47.3	27.4
Agricultural implements.....	74	4,360	-10.3	-43.7	66,314	-14.3	-49.3	19.8	14.0
Electrical machinery, ap- paratus, and supplies.....	281	115,563	-7.0	-30.4	2,252,699	-9.6	-46.3	55.5	37.0
Engines, turbines, tractors, and water wheels.....	74	12,820	-7.4	-35.7	231,536	-13.4	-50.9	41.7	23.9
Cash registers, adding machines, and calculat- ing machines.....	44	14,774	-1.0	-8.6	317,607	-1.0	-25.5	70.4	47.0
Foundry and machine- shop products.....	1,074	102,616	-3.3	-29.9	1,597,080	-10.7	-50.3	45.3	23.3
Machine tools.....	149	10,399	-11.0	-49.8	182,127	-12.2	-63.7	30.7	17.8
Textile machinery and parts.....	28	4,314	-20.3	-38.5	62,462	-21.3	-61.8	41.5	21.6
Typewriters and supplies..	16	5,771	-3.0	-27.1	76,073	-8.6	-50.4	57.2	28.9
Radio.....	42	16,182	-2.2	-31.0	300,105	-11.5	-43.4	62.5	47.8
Railroad repair shops.....	917	91,373	-2.5	-21.9	1,997,297	-10.7	-39.6	47.1	34.3
Electric railroad.....	395	21,035	-1.8	-11.4	552,483	-6.2	-22.0	68.2	57.1
Steam railroad.....	522	70,338	-2.6	-22.9	1,444,814	-11.2	-41.4	45.5	32.4
Total, 89 industries.....	17,873	2,474,141	-4.0	-23.0	42,855,560	-7.9	-40.0	55.2	36.2

Per Capita Earnings in Manufacturing Industries

ACTUAL per capita weekly earnings in July, 1932, for each of the 89 manufacturing industries surveyed by the Bureau of Labor Statistics, together with the per cent of change in July, 1932, as compared with June, 1932, and July, 1931, are shown in Table 2.

These earnings must not be confused with full-time weekly rates of wages. They are actual per capita weekly earnings, computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers).

TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN JULY, 1932, AND COMPARISON WITH JUNE, 1932, AND JULY, 1931

Industry	Per capita weekly earnings in July, 1932	Per cent of change compared with—	
		June, 1932	July, 1931
Food and kindred products:			
Slaughtering and meat packing.....	\$21.26	-3.8	-18.2
Confectionery.....	13.88	-6.2	-14.9
Ice cream.....	27.43	-1.2	-14.0
Flour.....	21.79	+2	-13.5
Baking.....	22.63	-2.6	-11.9
Sugar refining, cane.....	26.65	+2.5	-11.1
Beet sugar.....	23.32	-9.5	-22.2
Beverages.....	27.18	-3.8	-11.0
Butter.....	22.42	-3.2	-8.8
Textiles and their products:			
Cotton goods.....	9.36	-3.3	-31.5
Hosiery and knit goods.....	11.22	-8.9	-25.9
Silk goods.....	12.40	+2.8	-29.0
Woolen and worsted goods.....	14.98	+2.2	-27.1
Carpets and rugs.....	14.49	+3.9	-34.8
Dyeing and finishing textiles.....	14.97	-14.8	-33.7
Clothing, men's.....	11.27	-4	-43.2
Shirts and collars.....	9.95	-4.1	-28.1
Clothing, women's.....	15.83	+1	-27.1
Millinery.....	14.96	-4.2	-19.9
Corsets and allied garments.....	13.23	-3.8	-18.7
Cotton, small wares.....	13.74	-3.6	-26.8
Hats, fur felt.....	16.63	+11.5	-23.7
Men's furnishings.....	10.80	-3.0	-31.5
Iron and steel and their products, not including machinery:			
Iron and steel.....	11.52	-10.4	-45.3
Cast-iron pipe.....	13.00	-4.5	-36.3
Structural and ornamental ironwork.....	16.95	-2.3	-34.7
Hardware.....	12.00	-11.7	-34.2
Steam fittings and steam and hot-water heating apparatus.....	16.95	-6.4	-21.2
Stoves.....	15.88	-1.8	-26.2
Bolts, nuts, washers, and rivets.....	13.85	-9.1	-32.6
Cutlery (not including silver and plated cutlery) and edge tools.....	17.74	-3.4	-20.5
Forgings, iron and steel.....	16.66	+3.3	-25.5
Plumbers' supplies.....	13.62	-14.1	-38.8
Tin cans and other tinware.....	18.78	-5.2	-12.9
Tools (not including edge tools, machine tools, files, or saws).....	13.45	-14.5	-30.8
Wirework.....	15.20	-13.0	-31.4
Lumber and allied products:			
Lumber, sawmills.....	11.49	-5.2	-34.6
Lumber, millwork.....	15.06	-2.3	-29.0
Furniture.....	11.83	-8.2	-36.5
Turpentine and rosin.....	14.31	+5.8	-15.4
Leather and its manufactures:			
Leather.....	17.79	-.9	-22.5
Boots and shoes.....	14.36	+2.4	-25.2
Paper and printing:			
Paper and pulp.....	16.96	-6.5	-24.1
Paper boxes.....	16.91	-4.9	-17.2
Printing, book and job.....	26.60	-3.1	-16.3
Printing, newspapers and periodicals.....	34.63	-2.0	-11.6
Chemicals and allied products:			
Chemicals.....	23.55	-3.0	-16.7
Fertilizers.....	14.62	+2.1	-20.2
Petroleum refining.....	28.10	-3.5	-11.5
Cottonseed oil, cake, and meal.....	12.25	-9.3	-9.2
Druggists' preparations.....	20.00	-3.1	-11.2
Explosives.....	18.92	+6	-21.8
Paints and varnishes.....	21.04	-10.0	-20.8
Rayon.....	15.62	-8.5	-23.6
Soap.....	23.50	-6.2	-8.3
Stone, clay, and glass products:			
Cement.....	17.80	-7.3	-31.8
Brick, tile, and terra cotta.....	12.09	-3.7	-34.2
Pottery.....	13.20	-7.4	-25.9
Glass.....	17.51	-9.3	-22.6
Marble, granite, slate, and other stone products.....	21.86	+5.3	-22.7
Nonferrous metals and their products:			
Stamped and enameled ware.....	15.22	-9.1	-24.0
Brass, bronze, and copper products.....	16.05	-2.8	-27.0
Aluminum manufactures.....	13.20	-4.3	-38.6
Clocks, time-recording devices, and clock movements.....	13.36	+9	-22.8
Gas and electric fixtures, lamps, lanterns, and reflectors.....	20.72	-4.1	-18.3
Plated ware.....	17.96	-4	-17.8
Smelting and refining—copper, lead, and zinc.....	16.54	-4.3	-15.1
Jewelry.....	17.41	-1.6	-9.5
Tobacco manufactures:			
Chewing and smoking tobacco and snuff.....	13.28	-2.9	-16.1
Cigars and cigarettes.....	13.14	(1)	-11.1

1 No change

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

Industry	Per capita weekly earnings in July, 1932	Per cent of change compared with—	
		June, 1932	July, 1931
Transportation equipment:			
Automobiles.....	\$21.24	-4.8	-5.2
Aircraft.....	30.50	-2.5	-1.8
Cars, electric and steam railroad.....	16.85	-2.7	-6.5
Locomotives.....	21.76	-8.3	-19.6
Shipbuilding.....	24.35	+5.9	-6.0
Rubber products:			
Rubber tires and inner tubes.....	22.23	-15.2	-18.2
Rubber boots and shoes.....	13.47	-10.0	-25.6
Rubber goods, other than boots, shoes, tires, and inner tubes.....	16.86	-2.5	-20.6
Machinery, not including transportation equipment:			
Agricultural implements.....	15.21	-4.5	-9.4
Electrical machinery, apparatus, and supplies.....	19.49	-2.7	-22.5
Engines, turbines, tractors, and water wheels.....	18.06	-6.5	-5.8
Cash registers, adding machines, and calculating machines.....	21.50	(1)	-18.7
Foundry and machine-shop products.....	15.56	-7.7	-28.9
Machine tools.....	17.51	-1.4	-27.6
Textile machinery and parts.....	14.48	-1.2	-27.8
Typewriters and supplies.....	13.18	-5.8	-32.0
Radio.....	18.55	-9.5	-18.0
Railroad repair shops:			
Electric-railroad repair shops.....	26.26	-4.5	-11.9
Steam-railroad repair shops.....	20.54	-8.8	-24.0

¹ No change.

General Index Numbers of Employment and Earnings in Manufacturing Industries

GENERAL index numbers of employment and earnings in manufacturing industries by months, from January, 1926, to July, 1932, together with average indexes for each of the years from 1926 to 1931, and for the 7-month period, January to July, 1932, inclusive, are shown in the following table. In computing these general indexes, the index numbers of each of the separate industries are weighted according to their relative importance in the total. Following this table are two charts prepared from these general indexes showing the course of employment and earnings for each of the years 1926 to 1931, inclusive, and for the months from January to July, 1932.

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

Month	Employment							Earnings						
	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.....	95.7	95.1	93.6	98.6	81.0	71.2	55.2	98.7	95.0	94.2	102.1	75.4	56.7	---
September.....	100.3	95.8	95.0	99.3	80.9	70.9	---	99.3	94.1	95.4	102.6	75.4	56.7	---
October.....	100.7	95.3	95.9	98.4	79.9	68.9	---	102.9	95.2	99.0	102.4	74.0	55.3	---
November.....	99.5	93.5	95.4	95.0	77.9	67.1	---	99.6	91.6	96.1	95.4	69.6	52.5	---
December.....	98.9	92.6	95.5	92.3	76.6	66.7	---	99.8	93.2	97.7	92.4	68.8	52.2	---
Average.....	100.0	96.4	93.8	97.5	84.7	72.2	61.4	100.0	96.5	94.5	100.5	81.3	61.5	44.2

¹ Average for 7 months.

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Time Worked in Manufacturing Industries in July, 1932

REPORTS as to working time in July were received from 13,340 establishments in 89 manufacturing industries. Six per cent of these establishments were idle, 38 per cent operated on a full-time basis, and 56 per cent worked on a part-time schedule.

An average of 82 per cent of full-time operation in July was shown by reports received from all the operating establishments included in Table 4. The establishments working part time in July averaged 70 per cent of full-time operation.

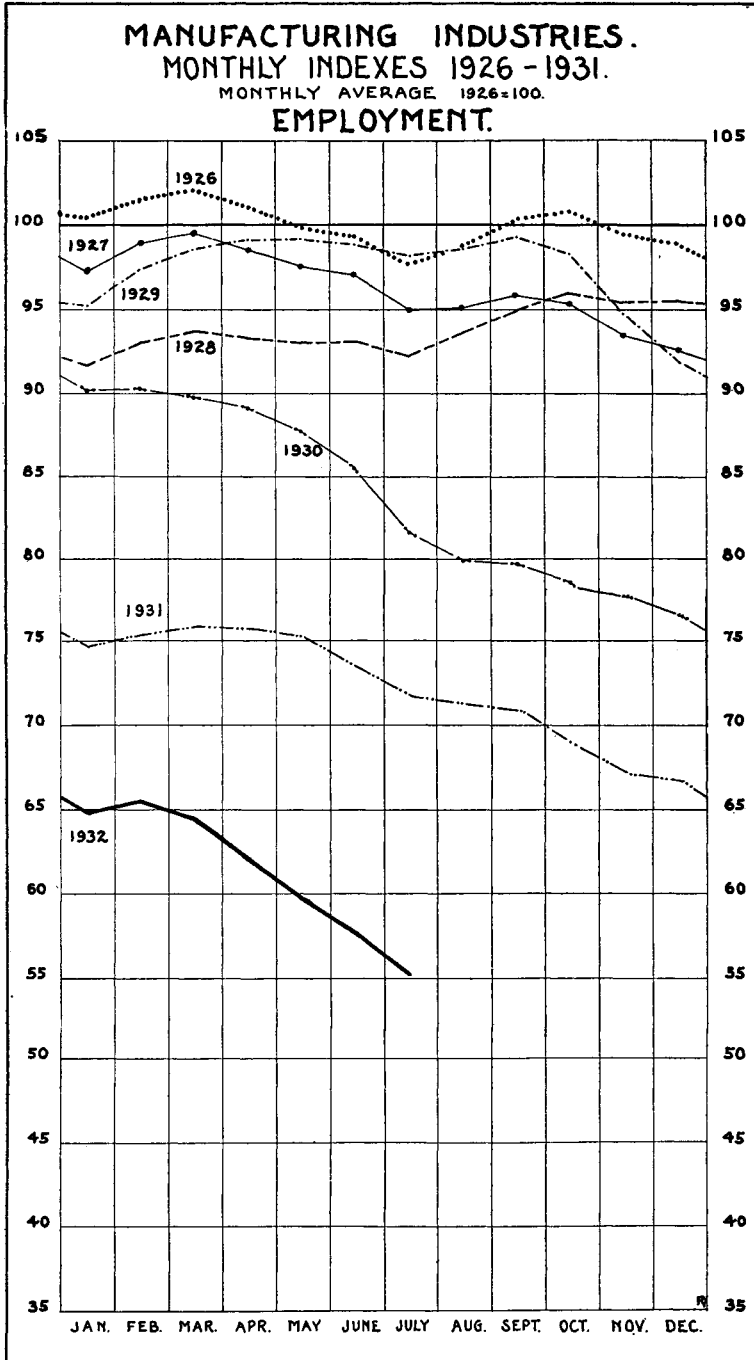
TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JULY, 1932

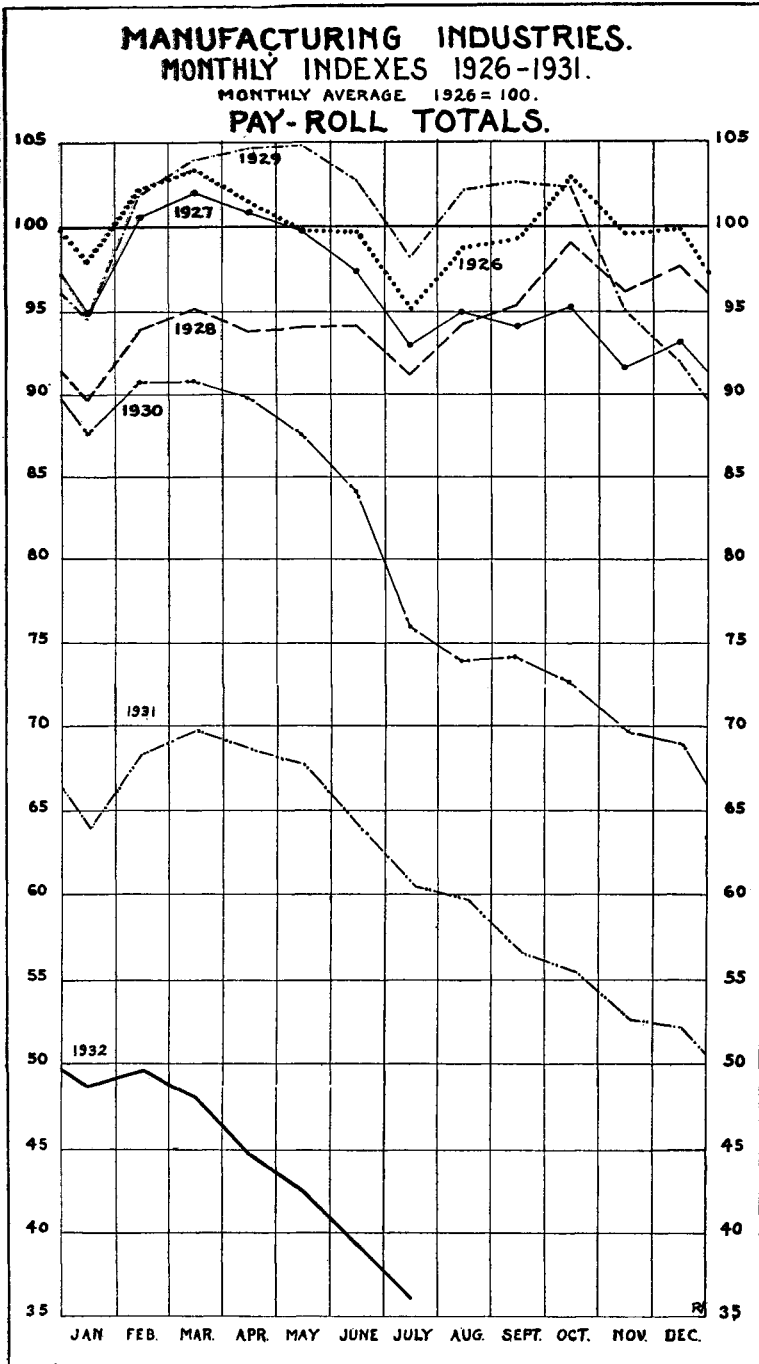
Industry	Establishments reporting		Per cent of establishments in which employees worked—		Average per cent of full time reported by—	
	Total number	Per cent idle	Full time	Part time	All operating establishments	Establishments operating part time
Food and kindred products.....	2,354	1	74	26	94	77
Slaughtering and meat packing.....	178	1	72	27	97	87
Confectionery.....	236	3	28	69	79	70
Ice cream.....	316	-----	75	25	96	85
Flour.....	383	1	68	32	92	74
Baking.....	652	(1)	85	15	97	78
Sugar refining, cane.....	12	17	25	58	84	75
Beet sugar.....	35	-----	94	6	99	85
Beverages.....	296	(1)	83	17	96	78
Butter.....	246	-----	85	15	98	85
Textiles and their products.....	2,404	16	36	49	84	72
Cotton goods.....	635	13	27	60	76	66
Hosiery and knit goods.....	377	7	49	45	87	73
Silk goods.....	233	27	37	36	85	69
Woolen and worsted goods.....	232	16	47	38	89	76
Carpets and rugs.....	28	29	11	61	75	70
Dyeing and finishing textiles.....	132	4	31	65	81	72
Clothing, men's.....	215	15	40	45	91	82
Shirts and collars.....	65	14	38	48	89	81
Clothing, women's.....	192	47	33	20	92	78
Millinery.....	92	22	30	48	85	75
Corsets and allied garments.....	24	-----	46	54	88	77
Cotton, small wares.....	98	1	28	71	83	76
Hats, fur felt.....	23	4	30	65	77	66
Men's furnishings.....	58	7	31	62	81	72
Iron and steel and their products, not including machinery.....	981	5	12	83	67	62
Iron and steel.....	151	8	5	87	57	55
Cast-iron pipe.....	34	15	6	79	53	49
Structural and ornamental ironwork.....	123	2	10	88	73	70
Hardware.....	54	7	-----	93	62	62
Steam fittings and steam and hot-water heating apparatus.....	89	8	3	89	58	57
Stoves.....	102	6	9	85	64	60
Bolts, nuts, washers, and rivets.....	51	-----	8	92	66	63
Cutlery (not including silver and plated cutlery) and edge tools.....	96	2	25	73	73	64
Forgings, iron and steel.....	30	-----	17	83	66	59
Plumbers' supplies.....	49	4	12	84	70	66
Tin cans and other tinware.....	48	4	40	56	87	78
Tools (not including edge tools, machine tools, files, or saws).....	104	3	17	80	68	62
Wirework.....	50	2	16	82	75	71
Lumber and allied products.....	1,064	7	18	75	71	64
Lumber, sawmills.....	434	8	13	79	68	62
Lumber, millwork.....	285	5	17	78	73	67
Furniture.....	328	8	25	67	74	64
Turpentine and rosin.....	17	6	41	53	90	81
Leather and its manufactures.....	362	4	25	71	80	73
Leather.....	127	2	35	62	85	76
Boots and shoes.....	235	5	19	76	77	71
Paper and printing.....	1,523	1	35	64	84	75
Paper and pulp.....	322	3	24	73	76	68
Paper boxes.....	251	(1)	12	87	75	71
Printing, book and job.....	588	-----	23	77	83	78
Printing, newspapers and periodicals.....	362	-----	82	18	98	90

¹ Less than one-half of 1 per cent.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JULY, 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
Chemicals and allied products.....	777	4	58	37	92	79
Chemicals.....	83	5	73	22	96	83
Fertilizers.....	152	5	58	37	92	81
Petroleum refining.....	63	5	78	17	98	86
Cottonseed oil, cake, and meal.....	40	25	43	33	92	82
Druggists' preparations.....	23	-----	39	61	90	84
Explosives.....	17	6	6	88	73	71
Paints and varnishes.....	316	2	57	41	90	77
Rayon.....	12	8	42	50	89	80
Soap.....	71	-----	62	38	95	86
Stone, clay, and glass products.....	755	14	36	50	80	65
Cement.....	74	15	74	11	96	69
Brick, tile, and terra cotta.....	281	19	23	58	74	63
Pottery.....	87	8	14	78	66	60
Glass.....	130	12	69	18	94	71
Marble, granite, slate, and other stone products.....	183	9	27	64	79	70
Nonferrous metals and their products.....	473	3	19	78	73	66
Stamped and enameled ware.....	78	3	10	87	73	70
Brass, bronze, and copper products.....	136	2	16	82	74	68
Aluminum manufactures.....	16	-----	6	94	73	72
Clocks, time-recording devices, and clock movements.....	19	5	16	79	66	59
Gas and electric fixtures, lamps, lanterns, and reflectors.....	39	3	15	82	73	68
Plated ware.....	42	2	14	83	69	63
Smelting and refining—copper, lead, and zinc.....	16	6	38	56	83	72
Jewelry.....	127	5	29	66	74	62
Tobacco manufactures.....	198	6	23	71	80	74
Chewing and smoking tobacco and snuff.....	29	-----	24	76	80	74
Cigars and cigarettes.....	169	7	22	70	80	73
Transportation equipment.....	295	6	28	66	79	69
Automobiles.....	161	5	14	81	70	65
Aircraft.....	31	13	68	19	97	86
Cars, electric and steam railroad.....	25	8	4	88	72	71
Locomotives.....	9	-----	11	89	81	79
Shipbuilding.....	69	7	52	41	92	83
Rubber products.....	118	-----	36	64	83	73
Rubber tires and inner tubes.....	30	-----	50	50	88	75
Rubber boots and shoes.....	9	-----	-----	100	79	79
Rubber goods, other than boots, shoes, tires, and inner tubes.....	79	-----	34	66	82	72
Machinery, not including transportation equipment.....	1,268	3	17	81	71	65
Agricultural implements.....	58	7	28	66	79	70
Electrical machinery, apparatus, and supplies.....	182	1	14	85	75	70
Engines, turbines, tractors, and water wheels.....	59	-----	12	88	72	69
Cash registers, adding machines, and calculating machines.....	38	5	45	50	83	68
Foundry and machine-shop products.....	757	2	17	81	68	61
Machine tools.....	115	5	7	88	69	66
Textile machinery and parts.....	22	-----	14	86	72	68
Typewriters and supplies.....	12	-----	33	67	76	64
Radio.....	25	-----	24	76	84	79
Railroad repair shops.....	768	1	43	57	90	82
Electric-railroad repair shops.....	349	-----	63	37	95	86
Steam-railroad repair shops.....	419	1	26	73	85	80
Total, 89 industries.....	13,340	6	38	56	82	70





Employment in Nonmanufacturing Industries in July, 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 earnings.

TABLE 1.—COMPARISON OF EMPLOYMENT AND EARNINGS IN **NONMANUFACTURING** ESTABLISHMENTS IN JUNE AND JULY, 1932, AND JULY, 1931

Industrial group	Es- tab- lish- ments re- port- ing in both June and July, 1932	Employment		Pay-roll totals				Index num- bers (average 1929=100)	
		Number on pay roll, July, 1932	Per cent of change		Amount of pay roll (1 week) July, 1932	Per cent of change		Em- ploy- ment	Pay- roll totals
			June to July, 1932	July, 1931, to July, 1932		June to July, 1932	July, 1931, to July, 1932		
Anthracite mining.....	160	60,818	-16.1	-31.6	\$1,372,668	-7.8	-35.8	44.5	34.5
Bituminous coal mining.....	1,109	143,915	-3.1	-23.3	1,606,437	-10.6	-51.6	58.6	24.4
Metalliferous mining.....	239	18,707	-8.3	-47.5	332,499	-15.8	-59.1	29.5	16.9
Quarrying and nonmetallic mining.....	593	20,995	-1	-30.3	329,766	-3.1	-49.2	49.5	29.1
Crude petroleum producing.....	240	21,331	+2.1	-15.2	654,396	-4	-24.7	55.4	44.6
Telephone and telegraph.....	8,042	279,694	-1.0	-8.7	7,580,549	-3.0	-14.7	79.1	79.6
Power and light.....	3,446	219,930	-1.1	-14.9	6,595,460	-2.2	-19.2	82.3	78.7
Electric-railroad and motor-bus operation and maintenance.....	492	129,782	-1.1	-11.7	3,591,287	-5.6	-21.6	75.6	65.3
Wholesale trade.....	2,604	67,449	-6	-11.8	1,834,775	-2.3	-22.3	76.6	64.7
Retail trade.....	13,381	313,250	-6.0	-11.1	6,435,994	-7.2	-24.0	74.6	63.3
Hotels.....	2,489	136,645	+6	-16.0	1,882,018	-3.2	-27.5	78.4	61.8
Canning and preserving.....	870	53,553	+31.5	-28.6	667,477	+17.2	-36.0	73.0	47.5
Laundries.....	983	60,601	-9	-12.5	976,930	-3.4	-24.1	80.3	66.5
Dyeing and cleaning.....	375	12,325	-3.2	-16.4	229,233	-8.9	-30.4	82.4	60.0

Indexes of Employment and Earnings for Nonmanufacturing Industries

INDEX numbers of employment and earnings for 14 nonmanufacturing industries are presented in the following table. These index numbers show the variation in employment and earnings in these groups, by months, from January, 1929, to July, 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 earnings 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 collection of trend-of-employment statistics in these two groups did not begin until the later months of 1930. Therefore indexes for the entire period do not appear in these tables due to lack of available information.

TABLE 2.—INDEXES OF EMPLOYMENT AND EARNINGS FOR **NONMANUFACTURING** INDUSTRIES, JANUARY TO DECEMBER, 1929, 1930, AND 1931, AND JANUARY TO JULY, 1932

[12-month average, 1929=100]

Month	Anthracite mining								Bituminous coal mining							
	Employment				Earnings				Employment				Earnings			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	105.7	102.1	90.6	76.2	100.7	105.8	89.3	61.5	106.4	102.5	93.9	80.8	106.1	101.4	73.3	47.0
February.....	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	58.6	33.9
May.....	103.7	93.8	80.3	66.9	99.0	98.8	76.1	58.0	96.6	90.4	82.4	62.6	91.9	77.5	54.4	30.7
June.....	92.9	90.8	76.1	53.0	80.7	94.3	66.7	37.4	94.7	88.4	78.4	60.5	90.0	75.6	52.4	27.3
July.....	83.2	91.6	65.1	44.5	64.7	84.0	53.7	34.5	94.1	88.0	76.4	58.6	85.6	68.9	50.4	24.4
August.....	91.1	80.2	67.3	-----	78.4	78.8	56.4	-----	95.7	89.2	77.0	-----	92.8	71.1	50.6	-----
September.....	101.9	93.8	80.0	-----	103.8	91.6	64.9	-----	97.2	90.5	80.4	-----	98.6	74.9	53.6	-----
October.....	106.1	99.0	86.8	-----	133.9	117.2	91.1	-----	98.8	91.8	81.3	-----	106.8	79.4	56.2	-----
November.....	104.0	97.2	83.6	-----	100.5	98.0	79.5	-----	101.0	92.5	81.1	-----	106.0	79.1	64.6	-----
December.....	107.1	99.1	79.8	-----	137.2	100.0	78.4	-----	101.4	92.5	81.2	-----	108.2	77.7	52.3	-----
Average.....	100.0	93.4	80.5	165.1	100.0	95.3	75.4	154.6	100.0	93.4	83.2	168.7	100.0	81.3	57.5	136.7
Month	Metalliferous mining								Quarrying and nonmetallic mining							
	Employment				Earnings				Employment				Earnings			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	93.1	95.7	68.3	49.3	88.0	92.7	55.0	29.7	91.6	79.6	64.4	48.9	85.9	71.9	50.4	30.2
February.....	94.6	92.3	65.3	46.9	91.8	92.5	54.6	27.8	91.9	79.8	66.6	47.4	88.9	73.5	54.4	29.6
March.....	97.0	90.9	63.5	45.0	99.1	90.8	52.8	26.5	96.0	83.0	70.0	46.0	95.0	80.0	58.2	28.7
April.....	100.6	89.3	63.9	43.3	104.6	88.3	51.4	25.0	99.6	87.4	76.1	48.6	100.5	85.4	62.6	30.0
May.....	100.8	87.5	62.4	38.3	104.6	85.6	49.3	23.8	104.1	90.8	75.0	46.0	107.1	90.2	62.3	32.3
June.....	103.8	84.6	60.0	32.2	105.6	81.6	46.1	20.1	105.6	90.3	72.3	49.5	110.5	90.9	60.1	30.0
July.....	101.5	80.5	56.2	29.5	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.....	102.1	78.1	55.5	-----	102.0	69.9	40.0	-----	104.7	88.3	68.9	-----	110.3	85.8	55.1	-----
September.....	101.9	77.2	53.8	-----	103.1	68.6	37.4	-----	106.6	87.7	66.6	-----	109.8	82.5	51.2	-----
October.....	103.0	72.8	52.8	-----	102.2	63.4	35.1	-----	103.6	84.7	64.5	-----	105.8	79.3	48.7	-----
November.....	103.0	72.8	52.8	-----	102.2	63.4	35.1	-----	98.6	78.3	59.3	-----	96.0	66.8	43.3	-----
December.....	98.5	70.1	51.2	-----	99.7	59.9	34.3	-----	90.1	70.2	53.9	-----	85.4	59.9	36.9	-----
Average.....	100.0	83.2	59.1	140.6	100.0	78.0	44.8	124.3	100.0	84.3	67.4	148.6	100.0	79.3	53.4	130.0
Month	Crude petroleum producing								Telephone and telegraph							
	Employment				Earnings				Employment				Earnings			
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January.....	90.0	92.7	74.8	54.9	93.1	94.0	71.5	46.5	94.3	101.6	90.5	83.0	94.5	105.1	96.3	89.1
February.....	90.4	90.8	73.2	54.4	99.0	88.6	70.0	46.9	95.3	100.2	89.2	82.0	93.0	101.9	94.8	89.6
March.....	89.6	89.3	72.2	51.4	97.4	91.3	73.2	43.2	96.5	99.4	88.6	81.7	98.7	105.8	97.9	88.2
April.....	97.6	86.8	69.8	54.9	96.7	86.6	66.3	44.5	97.8	98.9	88.1	81.2	98.3	103.4	95.0	83.4
May.....	93.9	89.8	67.8	54.5	92.4	85.4	64.7	47.1	90.9	97.7	87.4	80.6	99.4	103.2	94.1	82.8
June.....	104.1	90.2	65.0	54.2	99.4	87.1	62.7	44.8	101.5	99.8	86.9	79.9	100.0	103.4	95.0	82.1
July.....	106.0	89.9	65.3	55.4	100.7	88.5	59.2	44.6	102.6	100.0	86.6	79.1	104.1	106.6	93.3	79.6
August.....	113.2	87.7	62.4	55.4	104.7	86.0	56.3	-----	103.7	98.8	85.9	-----	101.8	102.5	92.3	-----
September.....	108.9	86.0	61.2	-----	110.7	84.0	55.2	-----	102.5	96.8	85.0	-----	100.4	102.2	92.1	-----
October.....	107.9	85.2	60.4	-----	100.1	82.6	54.4	-----	101.9	94.5	84.1	-----	105.1	100.9	91.6	-----
November.....	101.1	83.6	57.6	-----	103.8	80.0	52.0	-----	101.9	93.0	83.5	-----	101.2	97.9	89.7	-----
December.....	97.0	77.4	53.2	-----	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	154.2	100.0	85.9	61.7	145.4	100.0	97.9	86.6	181.1	100.0	102.9	93.7	185.0
Month	Power and light								Electric-railroad and motor-bus operation and maintenance ¹							
	Employment				Earnings				Employment				Earnings			
	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	97.6	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	99.5	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	76.5	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	-----	103.8	106.6	96.2	-----	102.2	92.9	84.8	-----	102.0	92.1	81.9	-----
September.....	105.5	105.2	94.7	-----	106.6	106.1	94.3	-----	101.4	91.8	84.0	-----	101.5	90.5	81.2	-----
October.....	105.7	104.8	92.7	-----	106.0	105.6	93.2	-----	100.5	91.0	82.7	-----	100.0	89.9	79.0	-----
November.....	104.7	103.4	91.3	-----	104.1	103.7	93.3	-----	99.4	89.3	81.5	-----	98.4	87.7	79.7	-----
December.....	102.5	103.2	90.3	-----	105.8	106.3	91.2	-----	98.3	88.8	79.9	-----	99.8	88.6	77.8	-----
Average.....	100.0	103.0	95.6	185.2	100.0	104.3	96.7	183.7	100.0	93.4	84.7	177.6	100.0	93.5	83.4	171.0

¹ Average for 7 months.

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

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

[12-month average, 1929=100]

Month	Wholesale trade								Retail trade							
	Employment				Earnings				Employment				Earnings			
	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.....	99.2	96.5	87.1	77.0	98.6	98.6	84.1	66.2	97.4	93.9	89.1	79.4	98.6	96.8	87.6	68.2
July.....	100.4	96.0	86.8	76.6	100.5	96.0	83.3	64.7	93.6	89.0	83.9	74.6	95.9	91.7	83.3	63.3
August.....	101.3	95.0	86.5	-----	100.0	93.6	82.1	-----	93.6	85.6	81.8	-----	95.2	87.6	80.3	-----
September.....	101.9	94.8	86.1	-----	103.3	93.6	81.4	-----	97.6	92.0	86.6	-----	99.2	92.4	83.5	-----
October.....	102.9	94.2	85.2	-----	102.7	92.9	79.9	-----	101.7	95.5	89.8	-----	102.6	95.1	84.6	-----
November.....	102.9	92.6	84.1	-----	101.9	91.0	79.7	-----	106.7	98.4	90.9	-----	105.2	96.8	85.4	-----
December.....	102.6	92.0	83.7	-----	104.7	91.3	77.8	-----	126.2	115.1	106.2	-----	120.6	107.7	94.1	-----
Average.....	100.0	96.0	86.6	79.0	100.0	95.9	83.6	69.6	100.0	95.9	89.4	80.4	100.0	96.2	86.6	71.5
Month	Hotels								Canning and preserving							
	Employment				Earnings				Employment				Earnings			
	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	50.3	50.3	31.9
April.....	99.7	100.1	95.9	82.7	100.6	100.3	89.9	69.6	90.6	74.8	59.6	47.0	98.9	72.6	57.1	37.9
May.....	98.1	98.0	92.5	80.1	98.9	98.4	87.7	67.0	62.0	65.7	56.0	40.5	71.2	66.9	56.0	36.0
June.....	99.3	98.0	91.6	78.0	98.7	98.1	85.4	63.8	76.6	83.0	70.6	55.5	71.9	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	-----	99.4	98.6	83.8	-----	184.8	185.7	142.9	-----	180.1	172.0	104.7	-----
September.....	102.8	100.1	90.6	-----	100.2	97.1	81.9	-----	210.1	246.6	180.1	-----	207.9	214.8	129.4	-----
October.....	100.6	97.5	87.4	-----	100.2	95.5	79.7	-----	143.3	164.7	108.1	-----	134.5	140.0	77.6	-----
November.....	100.0	95.2	84.9	-----	99.8	93.6	77.1	-----	95.1	96.7	60.8	-----	91.6	82.9	48.1	-----
December.....	97.7	93.5	83.1	-----	98.9	91.5	75.4	-----	61.3	61.6	40.7	-----	63.4	57.4	36.9	-----
Average.....	100.0	99.2	91.7	81.5	100.0	98.5	85.4	68.9	100.0	103.9	80.9	46.3	100.0	96.1	65.6	36.9
Month	Laundries								Dyeing and cleaning							
	Employment				Earnings				Employment				Earnings			
	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	-----	-----	98.6	82.4	-----	-----	86.2	60.0
August.....	-----	-----	90.2	-----	-----	-----	84.6	-----	-----	-----	93.5	-----	-----	-----	80.0	-----
September.....	-----	-----	89.3	-----	-----	-----	84.1	-----	-----	-----	95.3	-----	-----	-----	82.0	-----
October.....	-----	-----	88.1	-----	-----	-----	81.8	-----	-----	-----	94.2	-----	-----	-----	81.4	-----
November.....	-----	-----	86.2	-----	-----	-----	78.9	-----	-----	-----	90.1	-----	-----	-----	74.7	-----
December.....	-----	-----	85.3	-----	-----	-----	77.4	-----	-----	-----	84.9	-----	-----	-----	67.9	-----
Average.....	100.0	-----	89.4	82.0	100.0	-----	84.4	71.2	100.0	-----	92.7	82.6	100.0	-----	80.3	64.1

¹ Average for 7 months

Trend of Employment in July, 1932, by States

IN THE following table are shown the fluctuations in employment and earnings in July, as compared with June, 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 earnings in the manufacturing, public utility, hotel, wholesale trade, retail trade, bituminous coal mining, crude petroleum producing, quarrying and nonmetallic mining, metal-liferous mining, laundries, and dyeing and cleaning groups are presented. In publishing data concerning public utilities, the totals of the telephone and telegraph, power and light, and electric-railroad operation groups have been combined and are presented as one group in this State compilation. 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 earnings in June and July 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.

Where 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 have been included in the State totals for "All groups." Data are not presented for any industrial group where the representation in the State covers less than three establishments.

**COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS
IN JUNE AND JULY, 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 July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change	Number of establishments	Number on pay roll July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change
Alabama.....	491	43,406	-2.2	\$441,622	-10.0	201	30,286	-2.8	\$294,553	-10.6
Arkansas.....	<i>452</i>	<i>13,591</i>	-2.6	<i>200,750</i>	-4.4	<i>181</i>	<i>8,687</i>	-5.6	<i>106,875</i>	-9.3
Arizona.....	356	8,197	-13.5	172,395	-17.8	61	1,994	-13.2	42,991	-16.0
California.....	<i>1,390</i>	<i>211,199</i>	+0.6	<i>4,968,646</i>	-4.0	<i>1,115</i>	<i>128,050</i>	+2.7	<i>2,844,290</i>	-4.6
Colorado.....	576	27,568	-3.1	545,785	-6.1	121	9,858	-10.0	199,762	-10.6
Connecticut.....	1,041	114,172	-2.9	2,020,263	-5.1	653	94,519	-3.6	1,501,801	-6.7
Delaware.....	120	8,980	+4.2	158,746	-4.1	50	5,639	-3.0	102,682	-7.8
District of Columbia.....	585	27,207	-4.2	674,562	-5.3	57	3,998	-4.7	137,975	-3.5
Florida.....	486	20,639	-4.4	346,751	-5.9	135	13,351	-5.7	183,489	-9.0
Georgia.....	626	60,089	-3.2	737,032	-5.1	303	48,252	-3.4	479,913	-4.6
Idaho.....	194	7,351	+5.8	136,042	+1.4	39	4,067	+11.0	71,550	+11.6
Illinois.....	<i>1,426</i>	<i>255,928</i>	-5.6	<i>5,242,800</i>	-10.7	<i>1,014</i>	<i>157,485</i>	-7.6	<i>2,702,984</i>	-13.8
Indiana.....	1,181	106,297	-4.8	1,835,140	-9.9	575	78,527	-5.0	1,291,602	-11.9
Iowa.....	1,104	41,889	-2.0	797,812	-7.4	461	22,731	-2.2	417,790	-8.7
Kansas.....	<i>2,652</i>	<i>40,751</i>	-3.7	<i>886,821</i>	-4.6	<i>405</i>	<i>22,870</i>	-1.8	<i>520,596</i>	-3.3
Kentucky.....	803	53,728	-1.5	790,421	-5.2	217	19,525	-1.2	294,950	-8.0
Louisiana.....	486	27,932	-2.4	415,025	-5.1	212	17,402	-2.4	225,076	-5.9
Maine.....	556	32,875	-6	540,811	-3.6	183	25,418	-3.4	386,041	-6.2
Maryland.....	<i>854</i>	<i>71,281</i>	-3.5	<i>1,362,893</i>	-6.6	<i>466</i>	<i>46,192</i>	-4.5	<i>800,094</i>	-7.9
Massachusetts.....	<i>7,925</i>	<i>311,510</i>	-3.7	<i>6,704,193</i>	-4.7	<i>1,088</i>	<i>128,693</i>	-6.5	<i>2,202,589</i>	-8.8
Michigan.....	1,506	282,340	-3.4	6,164,286	-6.9	408	206,328	-2.0	4,567,720	-3.3
Minnesota.....	954	59,071	-1.1	1,251,169	-4.8	266	28,635	-3.0	569,351	-8.8
Mississippi.....	388	8,678	-4.7	106,659	-6.9	79	4,620	(²)	43,682	-10.7
Missouri.....	1,095	96,308	-1.3	1,996,639	-3.7	510	53,460	+4	1,000,688	-1.8
Montana.....	324	5,869	-11.8	141,918	-14.2	51	2,061	+9	45,029	+1.4
Nebraska.....	700	21,449	-2.0	470,341	-6.6	132	10,591	-2.0	227,477	-7.9
Nevada.....	137	1,530	-6.8	41,234	-6.8	22	275	-3.8	7,881	-9.6
New Hampshire.....	453	30,049	+5.9	477,061	+6.3	188	25,839	+4.8	386,326	+7.5
New Jersey.....	1,475	176,123	-2.5	3,871,221	-7.5	<i>6,705</i>	<i>158,736</i>	-4.2	<i>5,553,512</i>	-7.4
New Mexico.....	163	4,319	+1.5	71,581	-5.3	22	507	+22.2	7,335	+15.1
New York.....	<i>1,669</i>	<i>284,966</i>	-5.0	<i>6,250,441</i>	-6.9	<i>1,619</i>	<i>275,656</i>	-5.6	<i>6,009,615</i>	-7.3
North Carolina.....	850	85,529	-2.2	875,441	-8.2	531	80,850	-2.4	800,695	-8.6
North Dakota.....	255	3,591	+2.0	83,034	+1.9	54	1,156	+5.2	29,543	+6.6
Ohio.....	4,506	332,838	-2.9	6,083,810	-7.1	1,913	244,653	-3.6	4,269,374	-7.9
Oklahoma.....	695	24,017	-6	514,434	-3.8	132	8,753	+(³)	181,228	-4.0
Oregon.....	518	26,574	-2.1	494,678	-6.8	148	13,859	-5.0	229,139	-11.9
Pennsylvania.....	4,065	527,460	-5.5	8,728,664	-9.1	<i>1,720</i>	<i>296,680</i>	-4.2	<i>4,175,788</i>	-10.5
Rhode Island.....	898	42,638	-5.2	782,338	-4.7	266	31,232	-7.0	512,866	-5.8
South Carolina.....	318	34,515	+2.9	319,174	+8	171	31,060	+3.2	262,659	+1.7
South Dakota.....	153	5,015	-6	119,742	-2.1	46	1,784	-1.4	33,661	-5.9
Tennessee.....	723	51,760	-6.0	667,658	-10.5	275	36,137	-6.9	425,364	-12.8
Texas.....	688	<i>49,967</i>	-2.1	<i>1,176,799</i>	-3.6	<i>301</i>	<i>25,229</i>	-7	<i>529,570</i>	-4.1
Utah.....	257	11,817	+11.2	196,261	+1.2	79	2,761	-4.2	52,544	-2.8
Vermont.....	356	8,691	-2.1	167,942	-3.2	121	4,348	-4.1	81,717	-4.3
Virginia.....	1,227	71,292	+1	1,101,089	-2.2	428	48,461	+8	703,620	-1.7
Washington.....	1,067	45,647	-3.2	915,169	-6.8	245	21,959	-3.6	386,598	-7.0
West Virginia.....	713	71,903	-5.5	1,048,623	-10.5	180	27,855	-6.6	445,367	-14.1
Wisconsin.....	<i>9,074</i>	<i>123,613</i>	-2.9	<i>1,899,141</i>	-11.8	<i>4,800</i>	<i>84,212</i>	-1.3	<i>1,278,474</i>	-13.6
Wyoming.....	182	5,372	-7.3	116,377	-18.4	27	1,304	-2.8	38,111	-6.9

¹ Includes building and contracting.

² Includes transportation and financial institutions.

³ Includes building construction.

⁴ Weighted per cent of change.

⁵ No change.

⁶ Includes laundries.

⁷ Includes laundering and cleaning.

⁸ Less than one-tenth of 1 per cent.

⁹ Does not include hotels.

**COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS
IN JUNE AND JULY, 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 July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change	Number of establishments	Number on pay roll July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change
Alabama.....	16	566	-2.6	\$14,640	-9.6	64	1,545	-12.8	\$24,245	-8.6
Arkansas.....	17	475	+5.6	13,526	+5.6	142	1,605	+2.1	28,760	-.3
Arizona.....	19	154	+1.3	4,052	+7	174	1,440	-2.4	25,264	-7.1
California.....	68	4,557	-.2	138,575	-1.4	95	24,386	-3.6	494,837	-3.3
Colorado.....	24	696	-1	21,428	-3	121	3,438	-6.4	69,368	-5.8
Connecticut.....	54	1,117	-1.2	31,062	-5.8	118	5,355	+3.0	108,432	+2
Delaware.....	8	161	+2.5	4,583	-1.6	8	133	-2.2	2,275	+3.6
District of Columbia.....	28	359	-3	11,851	-3.0	403	8,700	-6.3	190,935	-9.7
Florida.....	45	712	-3.3	17,645	-5.0	62	822	-3.9	16,476	-8.5
Georgia.....	31	399	+8	11,016	-3.7	30	1,270	-1.5	19,539	-14.9
Idaho.....	6	81	-1.2	2,310	-5	68	658	-4.4	11,909	-2.7
Illinois.....	12	613	-9.1	14,152	-9.7	56	16,459	-3.0	334,631	-7.9
Indiana.....	64	1,263	-1.9	33,250	-2.4	177	5,712	-5.9	102,110	-9.4
Iowa.....	35	1,067	+1.0	28,799	-2.5	125	3,002	-7.3	55,013	-9.4
Kansas.....	47	1,390	+2	35,729	-3.3	57	3,044	-4.0	59,493	+6
Kentucky.....	20	458	+9.8	9,528	+9	31	1,559	+1.0	23,391	-5.6
Louisiana.....	23	605	+1.5	13,243	-1	49	2,707	-3.0	40,473	-4.4
Maine.....	16	449	+2.7	10,142	+9	71	1,088	-1.0	19,936	-3.9
Maryland.....	34	795	-4.0	17,786	-3.9	40	4,914	-2.8	86,424	-4.7
Massachusetts.....	672	14,289	-0.8	391,871	-1.5	4,095	57,554	-3.6	1,205,849	-4.7
Michigan.....	58	1,555	-3.8	44,591	-9.5	209	10,470	-7.6	219,800	-7.0
Minnesota.....	61	3,848	+3.3	108,220	-1.0	278	6,496	-15.7	122,432	-10.6
Mississippi.....	5	117	-6.4	2,378	+8	60	454	+2.3	5,678	-.3
Missouri.....	56	4,974	-5	121,744	-(*)	134	5,350	-10.4	113,077	-9.5
Montana.....	10	194	-2.5	5,752	-5.9	85	791	-4.6	18,062	-2.8
Nebraska.....	33	941	-2.3	26,350	-4.5	191	1,502	-3.7	30,276	-3.1
Nevada.....	7	70	+4.5	2,755	+1.6	41	255	-5.6	7,253	-3.9
New Hampshire.....	13	152	-7	4,158	-3.9	61	557	-1.2	10,222	+6
New Jersey.....	29	620	-6	19,789	-2.2	427	6,914	-6.6	152,284	-9.1
New Mexico.....	6	121	+21.0	4,199	+4.2	40	277	+4.9	5,788	-1.8
New York.....	173	4,761	-1.0	152,420	-4.8	402	41,319	-9.6	934,436	-13.5
North Carolina.....	16	241	+4	5,801	-4.4	176	581	-7.6	11,171	-11.3
North Dakota.....	17	247	+2.1	7,316	-7	40	404	-6.7	6,840	-2.5
Ohio.....	201	4,271	-2.3	112,063	-2.5	1,422	28,040	-5.9	549,418	-6.8
Oklahoma.....	48	681	-2.4	17,962	-1.4	115	1,396	-5.0	25,214	-5.9
Oregon.....	51	1,197	+1.0	33,217	-9	56	1,620	-4.3	34,965	-2.2
Pennsylvania.....	127	3,226	+2	86,585	-3	340	24,719	-7.8	490,054	-9.9
Rhode Island.....	39	975	-9	24,065	-2.7	509	4,798	-1.7	105,469	-3.1
South Carolina.....	16	200	-1.0	5,144	-1.3	16	401	-7.6	3,978	-5.7
South Dakota.....	10	128	-8	3,881	+1.6	14	129	-7.2	2,368	-4.6
Tennessee.....	35	658	-8	14,741	-2.1	59	3,144	-9.6	50,196	-8.8
Texas.....	120	2,598	-1.6	71,148	-2.5	86	6,321	-8.4	112,456	-12.9
Utah.....	15	448	+1.4	11,238	+3	23	362	-3.7	7,096	+1.0
Vermont.....	4	90	+2.3	2,470	+3.5	38	431	+5	7,531	+1.4
Virginia.....	40	848	-4.2	21,281	+6	476	4,513	-3.0	87,922	-1.9
Washington.....	86	2,112	-7	60,504	-1.8	383	5,474	-9.5	105,091	-9.0
West Virginia.....	36	552	+2	15,238	-4.1	49	989	+5.2	17,047	-.3
Wisconsin.....	44	1,860	-3.7	59,848	-8.4	52	7,801	-2.7	120,080	-4.9
Wyoming.....	8	57	+1.8	1,776	-4.2	47	240	-1.2	6,120	-1.8

* Less than one-tenth of 1 per cent.

COMPARISON OF EMPLOYMENT AND EARNINGS IN **IDENTICAL** ESTABLISHMENTS
IN JUNE AND JULY, 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 July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change	Number of establishments	Number on pay roll July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change
Alabama.....	7	376	+32.9	\$3,100	+14.5	4	681	-4.9	\$3,241	-26.3
Arkansas.....	5	89	-2.2	711	-18.9					
Arizona.....						16	2,523	-25.5	53,324	-31.4
California.....	28	622	+1.5	13,412	+6.0	17	1,349	+2.5	34,535	-4.0
Colorado.....	3	23	+9.5	249	+10.7	10	648	+1.5	17,566	-3.9
Connecticut.....	9	136	+7.9	2,479	+13.0					
Delaware.....										
District of Columbia.....										
Florida.....	7	513	+11.8	4,276	-3.7					
Georgia.....	18	872	-2.6	7,970	-13.4					
Idaho.....						7	1,514	+1.0	30,856	-13.6
Illinois.....	25	631	+1.5	10,110	-4.3					
Indiana.....	37	1,980	+13.3	34,784	+12.6					
Iowa.....	14	296	+2.1	5,107	-8.7					
Kansas.....	21	942	-8.8	20,969	-7.0	8	90	-26.2	2,761	-8.2
Kentucky.....	26	755	+14.0	5,668	+19.7					
Louisiana.....	3	248	-4.6	1,516	-39.1					
Maine.....	4	44	-10.2	1,215	-13.8					
Maryland.....	16	303	+11.0	6,647	+26.2					
Massachusetts.....	18	391	+2.9	9,581	+3.1					
Michigan.....	21	546	+1.1	7,076	-23.4	41	4,220	-15.9	44,598	-26.4
Minnesota.....	6	202	+8.0	3,819	+18.5	33	697	+13.0	9,608	-2.2
Mississippi.....										
Missouri.....	11	176	-16.2	2,856	-10.4	11	986	-4.4	18,256	-11.8
Montana.....	4	19	+11.8	250	-4	16	105	-21.1	1,993	-40.2
Nebraska.....	3	132	(⁵)	1,981	-14.4					
Nevada.....						12	227	-32.4	6,557	-20.6
New Hampshire.....	9	122	-6.9	2,953	-17.1					
New Jersey.....	3	43	+2.4	1,523	-1.7	3	11	-60.7	265	-53.8
New Mexico.....						4	841	-1.5	14,366	-10.3
New York.....	42	1,885	-2.9	38,898	+4					
North Carolina.....	4	56	+24.4	812	+17.9					
North Dakota.....										
Ohio.....	62	1,793	+10.5	29,625	+1.5					
Oklahoma.....	3	46	(⁵)	485	+9.7	29	471	+53.4	6,337	+9.6
Oregon.....						4	71	(⁵)	1,546	-9.8
Pennsylvania.....	57	2,486	-10.9	28,215	-13.4					
Rhode Island.....										
South Carolina.....	6	133	-12.5	718	-17.8					
South Dakota.....	3	15	+7.1	289	-10.0					
Tennessee.....	16	809	+1.5	9,625	-17.0	4	175	-28.6	2,456	-11.5
Texas.....	21	710	-17.4	16,697	-11.9					
Utah.....						10	2,098	-3.8	31,816	-19.0
Vermont.....	38	2,105	-6.1	44,020	-6.6					
Virginia.....	16	853	-7.6	7,570	-21.3					
Washington.....	6	145	-7.6	3,609	-11.0					
West Virginia.....	7	384	-6.6	3,593	-14.4					
Wisconsin.....	13	189	-1.1	2,893	-5					
Wyoming.....										

⁵ No change.

COMPARISON OF EMPLOYMENT AND EARNINGS IN **IDENTICAL** ESTABLISHMENTS
IN JUNE AND JULY, 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 July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change	Number of establishments	Number on pay roll July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change
Alabama.....	37	5,931	+1.0	\$40,657	-15.1					
Arkansas.....	5	65	+1.8	581	-1.1	8	193	-1.0	\$4,557	-2.7
Arizona.....										
California.....						37	5,271	-.5	175,250	-1.8
Colorado.....	35	3,265	-20.6	37,891	-12.3					
Connecticut.....										
Delaware.....										
District of Columbia.....										
Florida.....										
Georgia.....										
Idaho.....										
Illinois.....	25	1,026	-3.9	20,699	+8.4	7	138	+3.8	3,059	+1.9
Indiana.....	39	2,418	+7.7	46,807	+10.8	4	30	+3.4	516	+3.2
Iowa.....	18	1,772	-4.3	27,617	-14.6					
Kansas.....	14	544	-62.1	9,091	-57.0					
Kentucky.....	130	20,960	-2.2	242,483	-5.3	5	176	+7.3	3,567	+4.3
Louisiana.....						9	161	-6.9	4,347	-5.8
Maine.....										
Maryland.....	13	1,243	-2.1	6,386	-11.4					
Massachusetts.....										
Michigan.....										
Minnesota.....										
Mississippi.....										
Missouri.....	17	959	+4.2	16,815	+2.5					
Montana.....	7	64	-90.3	2,577	-80.7	5	41	(⁶)	1,013	-11.1
Nebraska.....										
Nevada.....										
New Hampshire.....										
New Jersey.....										
New Mexico.....	11	1,470	-4.7	20,164	-12.6	3	18	-14.3	1,021	+34.2
New York.....						5	185	+3.9	4,322	+1.4
North Carolina.....										
North Dakota.....										
Ohio.....	52	4,323	+114.8	52,916	+49.3	4	33	(⁶)	515	-3.4
Oklahoma.....	13	255	-19.0	4,319	-8.5	56	4,407	-6	116,365	-6.0
Oregon.....										
Pennsylvania.....	365	52,148	-.2	518,742	-10.3	18	333	-1.2	8,141	+2.2
Rhode Island.....										
South Carolina.....										
South Dakota.....										
Tennessee.....	14	2,265	-3.9	15,962	-13.8					
Texas.....						3	6,332	+8	248,008	+2.8
Utah.....	10	1,168	-12.2	20,181	-7.0					
Vermont.....										
Virginia.....	33	7,066	-1.2	90,348	-4.8					
Washington.....	10	334	-71.6	7,882	-71.0					
West Virginia.....	238	33,661	-6.3	368,295	-11.6	8	352	+11.7	8,701	+10.2
Wisconsin.....										
Wyoming.....	30	2,797	-13.4	49,712	-31.4	5	122	-3.9	3,168	-2.3

⁶ No change.

**COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS
IN JUNE AND JULY, 1932, BY STATES—Continued**

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

State	Public utilities					Hotels				
	Number of establishments	Number on pay roll July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change	Number of establishments	Number on pay roll July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change
Alabama.....	123	1,977	-1.4	\$42,761	-3.4	28	1,299	+6.0	\$11,085	-2.9
Arkansas.....	49	1,344	+14.1	38,671	+8.1	17	814	-9.1	9,978	-13.5
Arizona.....	64	1,580	-3.4	35,776	-5.1	13	312	-7.7	4,884	-9.9
California.....	41	48,565	-2.0	1,379,191	-3.9	244	10,388	+3.3	169,954	-2.5
Colorado.....	195	5,694	-9	151,558	-3.5	31	1,170	-8	17,928	-1.4
Connecticut.....	134	10,185	+5	329,526	+9	33	1,150	-4.7	15,422	-5.0
Delaware.....	28	1,097	-8	29,580	-1.2	6	261	+1.2	3,020	+5
District of Columbia.....	21	8,295	-5	242,046	-1.9	52	3,734	-8.5	55,567	-10.9
Florida.....	183	4,126	-1.1	112,692	-2	32	669	-4.2	7,409	-2.1
Georgia.....	184	6,955	-2.4	196,963	-5.2	31	1,377	-6.0	12,081	-1.5
Idaho.....	56	714	+4	14,476	-2.4	14	261	-4.8	3,666	+9
Illinois.....	59	67,993	-1.3	1,881,032	-7.3	10 49	7,468	-6.7	127,696	-6.3
Indiana.....	131	10,069	-1	245,912	-4.1	61	2,664	-6.1	30,395	-12.5
Iowa.....	372	10,057	+3	230,586	-4.1	52	1,954	-7.8	20,749	-10.7
Kansas.....	24	6,999	-8	168,446	-4.7	20	581	-1.3	5,762	-4.9
Kentucky.....	303	7,181	-1.7	172,353	-7	38	1,726	-8.2	18,924	-10.5
Louisiana.....	154	4,486	-6	106,742	-3.6	22	1,874	-1.4	21,078	-2.9
Maine.....	171	3,010	-7	83,225	-4.3	31	1,519	+63.7	19,690	+49.7
Maryland.....	93	12,923	-1.5	370,630	-2.0	26	1,401	-2.5	18,495	-10.6
Massachusetts.....	11 139	46,698	-7	1,354,357	-3.0	103	5,736	-1.8	83,222	-4.2
Michigan.....	415	23,863	-2.1	686,758	-5.3	78	4,436	+6	59,320	-4.8
Minnesota.....	200	13,298	+8	355,930	-2.0	64	3,035	+1.1	38,849	-3.0
Mississippi.....	202	2,201	-8.8	43,012	-5.2	22	647	-8.9	5,449	+9.2
Missouri.....	222	23,012	-2.7	623,589	-5.7	76	3,995	-5.6	49,133	-9.0
Montana.....	111	1,910	-8.4	55,763	-16.0	16	252	(9)	4,047	-2
Nebraska.....	296	5,877	-1	151,738	-5.0	29	1,343	-7.7	15,337	-9.9
Nevada.....	39	447	+9	11,706	-5.6	12	198	+7.6	3,812	+16.8
New Hampshire.....	143	2,158	-1.5	59,305	-5.7	21	885	+143.8	8,614	+133.6
New Jersey.....	280	23,912	-1.1	725,096	-4.0	95	5,726	+32.5	76,797	+24.3
New Mexico.....	55	522	+1.8	11,477	-4.4	14	316	+7.1	3,393	-3.7
New York.....	15	5,603	-9	198,353	+(8)	275	29,791	-2	478,257	-3.5
North Carolina.....	77	1,778	-2.3	37,146	-3.8	34	1,278	+7.2	11,852	-1.0
North Dakota.....	117	1,230	+3.4	31,335	-2	16	317	-3	3,822	+3.3
Ohio.....	492	32,520	-2.0	824,254	-6.3	167	9,460	-8	122,725	-6.0
Oklahoma.....	247	6,452	-7	144,431	-1.8	39	765	-5.9	7,412	-8.6
Oregon.....	182	5,718	-7	148,618	-2.5	41	1,086	-8	15,987	-2.0
Pennsylvania.....	703	53,488	-3	1,529,234	-2.3	192	10,462	-1.5	134,543	-6.5
Rhode Island.....	35	3,569	-2.2	106,665	-2.9	22	618	+55.3	7,894	+40.4
South Carolina.....	70	1,750	+6.9	38,153	-2.6	17	430	-5.3	3,291	-5.4
South Dakota.....	58	888	-3.4	23,867	-4.0	15	316	-4.2	3,956	-8.4
Tennessee.....	251	5,062	-3	115,268	-3.7	40	2,207	-3.5	20,360	-6.1
Texas.....	111	6,157	-1.7	173,724	-6.9	46	2,620	-1.8	30,796	-12.4
Utah.....	67	1,705	-3.2	35,201	-1.8	14	547	+2.2	8,323	+5.0
Vermont.....	121	992	+1.4	23,825	-2	25	600	+24.2	6,681	+20.0
Virginia.....	153	5,820	-1.9	147,815	-2.0	38	2,020	-4.4	23,047	-5.7
Washington.....	205	10,075	-7	278,636	-2.6	58	2,180	+2.0	27,580	-4.6
West Virginia.....	124	6,130	+3	164,089	-2	41	1,127	-3.3	13,127	-5.0
Wisconsin.....	12 42	11,292	+5	315,038	-4.6	10 41	1,283	-4.5	(13)	-----
Wyoming.....	47	447	-1.1	11,159	-4.3	10	172	-3.9	2,623	-1.5

⁸ No change.

⁸ Less than one-tenth of 1 per cent.

¹⁰ Includes restaurants.

¹¹ Includes steam railroads.

¹² Includes steam railways and express.

¹³ Data not supplied.

**COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS
IN JUNE AND JULY, 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 July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change	Number of establishments	Number on pay roll July, 1932	Per cent of change	Amount of pay roll (1 week) July, 1932	Per cent of change
Alabama.....	4	439	+6.6	\$4,026	-2.2	4	164	(⁵)	\$1,888	-5.2
Arkansas.....	19	506	-0.6	5,324	-2.4					
Arizona.....	8	385	-8	5,923	-3.9					
California.....	¹⁴ 71	5,641	+1.8	111,843	+1.0					
Colorado.....	11	865	-5	13,281	-2.6	9	135	-3.6	2,773	-7.3
Connecticut.....	28	1,403	-7	24,443	-3.7	11	293	+5.4	6,807	-1
Delaware.....	4	316	+1.0	4,967	-4	3	42	+2.4	679	-10.1
District of Columbia.....	17	1,978	-1.1	33,148	-8	6	137	-8.1	2,933	-7.6
Florida.....	5	324	-2.7	3,234	-8.0	3	30	-9.1	424	-12.4
Georgia.....	13	701	-2.5	7,104	-3.2	5	144	+5.1	1,622	-2.5
Idaho.....										
Illinois.....	¹⁴ 18	1,302	-8	21,619	-4.4					
Indiana.....	20	1,631	-1.6	22,670	-6.4	9	177	-5.9	2,902	-11.5
Iowa.....	4	241	+1.3	4,024	-0.1					
Kansas.....	26	1,037	-11.1	12,183	-7.2					
Kentucky.....	18	843	(⁵)	11,348	-6	5	230	-2.1	3,400	-6.0
Louisiana.....										
Maine.....	24	551	+11.1	8,556	+13.5					
Maryland.....	23	1,634	-1.0	26,248	-4.6	13	388	-2.5	5,161	-20.3
Massachusetts.....	104	3,649	-1.6	62,780	-3.5	122	1,868	-6.0	35,699	-10.9
Michigan.....	22	1,602	-4	20,882	-5.5	17	661	-3.4	13,010	-12.8
Minnesota.....	13	733	-1.6	12,643	-3.0	12	318	-6.7	5,783	-12.8
Mississippi.....	7	382	+3.0	3,591	-1.2					
Missouri.....	32	2,491	-1.9	36,408	-2.5	14	420	-5.6	7,364	-11.4
Montana.....	15	348	-9	6,398	-4.8					
Nebraska.....	8	673	-5.6	11,643	-5.4	5	130	-13.9	3,143	-10.0
Nevada.....	4	58	+3.6	1,270	-4.0					
New Hampshire.....	16	311	+8.0	5,095	+10.4					
New Jersey.....	29	3,085	+6	64,451	-1.4	8	366	-1.6	10,122	-4.8
New Mexico.....	5	230	-2.1	3,534	-2.5					
New York.....	71	7,090	-1.0	125,773	-5.3	18	592	-6.5	12,636	-9.0
North Carolina.....	9	686	+2.2	7,423	-2.2					
North Dakota.....	9	215	-5	3,740	-1.2					
Ohio.....	81	4,611	-1.4	73,180	-4.8	42	1,641	-4.6	28,092	-12.4
Oklahoma.....	6	558	-1.2	7,411	-4.5	5	214	-5	3,050	+2.6
Oregon.....	4	321	-2.4	5,149	-7.2					
Pennsylvania.....	44	3,398	-3.6	54,084	-5.7	21	1,068	-3.8	18,549	-13.7
Rhode Island.....	20	1,138	-3	19,662	-6.2	5	276	-4.8	5,257	-8.9
South Carolina.....	10	380	+8	3,642	-2.7	3	66	+3.1	1,052	+9
South Dakota.....	5	132	(⁵)	2,045	-5.6					
Tennessee.....	15	1,080	+1.6	10,265	-3.2	6	69	-8.0	1,104	-10.6
Texas.....	17	904	+2.0	11,279	+1	13	326	(⁵)	5,642	-6.2
Utah.....	6	513	-2.7	7,161	-3.2	6	103	-1.0	1,697	-13.2
Vermont.....	5	83	+5.1	1,009	-6	3	26	(⁵)	471	-9.9
Virginia.....	15	997	+2.6	11,916	+1.8	22	382	+2.1	5,886	+9
Washington.....	16	751	-1.2	16,117	-5.0	9	142	-3.4	2,712	-12.3
West Virginia.....	20	718	-1.9	10,000	+1.7	10	215	+3.9	3,166	-5.6
Wisconsin.....	¹⁴ 27	1,013	+2.7	15,535	-3					
Wyoming.....	5	113	-9	2,078	-4.5					

¹⁴ No change.

¹⁴ Includes dyeing and cleaning.

Employment and Earnings in July, 1932, in Cities of Over 500,000 Population

IN THE following table are presented the fluctuations in employment and earnings in July, 1932, as compared with June, 1932, for 13 cities of the United States having a population of 500,000 or over. These fluctuations are based on reports received from identical establishments in each of the months considered.

These city tabulations include all establishments reporting in all of the industrial groups, except building construction in these 13 cities, and also additional employment information secured from banks, insurance companies, garages, and other establishments in these 13 cities. Building-construction data are not included in these totals, as information is not available for all cities at this time.

FLUCTUATIONS IN EMPLOYMENT AND EARNINGS IN JULY, 1932, AS COMPARED WITH JUNE, 1932

City	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
		June, 1932	July, 1932		June, 1932	July, 1932	
New York City.....	1, 747	269, 510	256, 272	-4. 9	\$7, 408, 681	\$7, 028, 991	-5. 1
Chicago, Ill.....	1, 798	199, 009	193, 548	-2. 7	4, 807, 610	4, 499, 488	-6. 4
Philadelphia, Pa.....	627	107, 239	103, 476	-3. 5	2, 294, 074	2, 130, 703	-7. 1
Detroit, Mich.....	555	206, 819	202, 576	-2. 1	5, 143, 651	4, 947, 852	-3. 8
Los Angeles, Calif.....	531	49, 585	48, 619	-1. 9	1, 208, 144	1, 151, 269	-4. 7
Cleveland, Ohio.....	961	77, 434	72, 110	-6. 9	1, 594, 119	1, 411, 363	-10. 9
St. Louis, Mo.....	477	63, 009	62, 325	-1. 1	1, 343, 998	1, 285, 877	-3. 6
Baltimore, Md.....	561	46, 382	44, 916	-3. 2	938, 224	880, 243	-6. 2
Boston, Mass.....	2, 875	83, 550	79, 307	-5. 1	2, 082, 324	1, 969, 920	-5. 9
Pittsburgh, Pa.....	811	48, 502	45, 291	-6. 6	978, 678	895, 202	-8. 5
San Francisco, Calif.....	874	39, 009	38, 024	-2. 5	852, 882	823, 660	-3. 0
Buffalo, N. Y.....	269	36, 444	36, 200	- . 7	863, 023	817, 354	-5. 3
Milwaukee, Wis.....	466	33, 892	32, 677	-3. 6	672, 600	625, 037	-7. 1

Employment in Building Construction in July, 1932

EMPLOYMENT in building construction increased 4.1 per cent in July as compared with June. Earnings increased 8.2 per cent during the same period. These per cents are based on information received from 10,521 firms engaged on building operations in 34 States and the District of Columbia.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, JUNE AND JULY, 1932

Locality	Number of firms reporting	Number on pay roll week ending near—		Per cent of change	Amount of pay roll week ending near—		Per cent of change
		June 15	July 15		June 15	July 15	
Alabama: Birmingham.....	76	509	540	+6. 1	\$7, 844	\$7, 270	-7. 3
California:							
Los Angeles ¹	22	1, 382	1, 579	+14. 3	31, 162	35, 922	+15. 3
San Francisco-Oakland ¹	28	740	770	+4. 1	18, 064	17, 764	-1. 7
Other reporting localities ¹	27	658	665	+1. 1	16, 861	14, 812	-12. 2
Colorado: Denver.....	190	804	694	-13. 7	20, 543	16, 134	-21. 5
Connecticut:							
Bridgeport.....	143	652	643	-1. 4	16, 761	16, 203	-3. 3
Hartford.....	243	1, 262	1, 194	-5. 4	34, 746	33, 779	-2. 8
New Haven.....	205	1, 544	1, 477	-4. 3	45, 931	43, 992	-4. 2
Delaware: Wilmington.....	102	1, 572	1, 449	-7. 8	36, 747	33, 383	-9. 2
District of Columbia.....	558	6, 886	6, 195	-10. 0	195, 913	171, 271	-12. 6

¹ Data supplied by cooperating State bureaus.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, JUNE AND JULY, 1932—Continued

Locality	Number of firms reporting	Number on pay roll week ending near—		Per cent of change	Amount of pay roll week ending near—		Per cent of change
		June 15	July 15		June 15	July 15	
Florida:							
Jacksonville.....	53	282	336	+19.1	\$4,251	\$5,015	+18.0
Miami.....	80	529	530	+ .2	10,581	9,655	-8.8
Georgia: Atlanta.....	122	1,158	1,240	+7.1	15,906	15,692	-1.3
Illinois:							
Chicago ¹	132	1,394	1,127	-19.2	42,242	33,543	-20.6
Other reporting localities ¹	85	725	825	+13.7	19,027	20,284	+6.6
Indiana:							
Fort Wayne.....	110	714	666	-6.7	15,689	13,997	-10.8
Indianapolis.....	166	1,110	1,070	-3.6	27,701	27,825	+ .4
South Bend.....	46	272	292	+7.4	4,773	6,396	+34.0
Iowa: Des Moines.....	99	479	363	-24.2	9,386	7,233	-22.9
Kansas: Wichita.....	60	241	453	+88.0	4,072	8,863	+117.7
Kentucky: Louisville.....	133	779	887	+13.9	14,804	16,463	+10.8
Louisiana: New Orleans.....	128	1,632	1,583	-3.0	26,878	25,816	-4.0
Maine: Portland.....	105	457	487	+6.6	11,754	11,290	-3.9
Maryland: Baltimore ¹	127	1,445	1,356	-6.2	30,660	25,679	-16.2
Massachusetts: All reporting localities ¹	750	6,984	6,560	-6.1	195,736	184,626	-5.7
Michigan:							
Detroit.....	469	2,536	2,700	+6.5	57,461	58,485	+1.8
Flint.....	40	183	130	-29.0	3,147	2,359	-25.0
Grand Rapids.....	104	567	592	+4.4	11,086	12,317	+11.1
Minnesota:							
Duluth.....	54	206	179	-13.1	3,753	3,348	-10.8
Minneapolis.....	241	1,707	1,784	+4.5	44,757	44,192	-1.3
St. Paul.....	144	1,408	1,379	-2.1	34,746	34,662	-.2
Missouri:							
Kansas City ²	256	2,278	2,018	-11.4	61,776	57,741	-6.5
St. Louis.....	467	2,454	2,592	+5.6	69,449	70,809	+2.0
Nebraska: Omaha.....	142	948	928	-2.1	20,335	19,724	-3.0
New York:							
New York City ¹	325	4,158	9,845	+136.8	137,027	401,651	+193.1
Other reporting localities ¹	158	3,642	3,762	+3.3	103,345	113,279	+9.6
North Carolina: Charlotte.....	40	266	207	-22.2	3,905	2,934	-24.9
Ohio:							
Akron.....	90	687	363	-47.2	13,586	7,321	-46.1
Cincinnati ³	500	3,273	3,224	-1.5	93,376	90,750	-2.8
Cleveland.....	461	2,546	2,195	-13.8	70,659	57,275	-18.9
Dayton.....	118	439	413	-5.9	9,082	8,784	-3.3
Youngstown.....	61	266	256	-3.8	4,647	4,939	+6.3
Oklahoma:							
Oklahoma City.....	96	441	454	+2.9	7,836	7,671	-2.1
Tulsa.....	57	217	239	+10.1	3,947	3,927	-.5
Oregon: Portland.....	203	1,175	1,149	-2.2	25,147	24,730	-1.7
Pennsylvania:							
Erie ¹	31	275	205	-25.5	7,188	5,029	-30.0
Philadelphia ¹	521	5,238	5,579	+6.5	129,076	125,773	-2.6
Pittsburgh ¹	247	1,387	1,398	+ .8	38,474	40,214	+4.5
Reading-Lebanon ¹	59	439	418	-4.8	8,761	8,080	-7.8
Scranton ¹	38	193	180	-6.7	4,433	4,243	-4.3
Other reporting localities ¹	274	2,137	1,982	-7.3	43,710	40,655	-7.0
Thode Island: Providence.....	233	1,647	1,683	+2.2	42,974	42,822	-.4
Tennessee:							
Knoxville.....	39	379	444	+17.2	5,372	5,842	+8.7
Memphis.....	98	570	521	-8.6	11,970	10,350	-13.5
Nashville.....	77	810	704	-13.1	15,803	12,660	-19.9
Texas:							
Dallas.....	145	819	855	+4.4	13,746	14,429	+5.0
Houston.....	117	850	666	-21.6	14,713	11,964	-18.7
San Antonio.....	92	624	506	-18.9	9,753	7,625	-21.8
Utah: Salt Lake City.....	88	466	331	-28.3	10,039	6,563	-34.6
Virginia:							
Norfolk-Portsmouth.....	91	712	588	-17.4	13,212	10,560	-20.1
Richmond.....	143	985	1,065	+8.1	20,103	22,031	+9.6
Washington:							
Seattle.....	174	708	773	+9.2	15,746	18,139	+15.2
Spokane.....	51	198	207	+4.5	4,162	3,967	-4.7
Tacoma.....	75	159	146	-8.2	2,885	2,481	-14.0
West Virginia: Wheeling.....	49	194	175	-9.8	3,936	3,254	-17.3
Wisconsin: All reporting localities ¹	63	1,415	1,470	+3.9	31,571	29,946	-5.1
Total, all localities.....	10,521	83,812	87,289	+4.1	2,084,786	2,256,432	+8.2

¹ Data supplied by cooperating State bureaus.

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

³ Includes Covington and Newport, Ky.

Employment on Class I Steam Railroads in the United States

DATA are not yet available concerning railroad employment for July, 1932. Reports of the Interstate Commerce Commission for Class I railroads show that the number of employees (exclusive of executives and officials) decreased from 1,067,732 on May 15, 1932, to 1,033,887 on June 15, 1932, or -3.2 per cent; the amount of pay roll decreased from \$124,727,062 in May to \$119,608,254 in June, or -4.1 per cent.

The monthly trend of employment from January, 1923, to June, 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.

INDEX OF EMPLOYMENT, ON **CLASS I STEAM RAILROADS** IN THE UNITED STATES, JANUARY, 1923, TO JUNE, 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	-----
August.....	109.4	99.0	99.7	102.7	99.5	95.7	97.4	83.7	71.2	-----
September.....	107.8	99.7	99.9	102.8	99.1	95.3	96.8	82.2	69.3	-----
October.....	107.3	100.8	100.7	103.4	98.9	95.3	96.9	80.4	67.7	-----
November.....	105.2	99.0	99.1	101.2	95.7	92.9	93.0	77.0	64.5	-----
December.....	99.4	96.0	97.1	98.2	91.9	89.7	88.8	74.9	62.6	-----
Average.....	104.1	98.3	97.9	100.0	97.5	92.9	93.3	83.5	70.6	59.9

¹ Average for 6 months.

Wage-Rate Changes in American Industries

Manufacturing Industries

DATA concerning wage-rate changes occurring between June 15 and July 15 in 89 manufacturing industries included in the monthly trend of employment survey of the Bureau of Labor Statistics are presented in the following table.

Of the 17,873 manufacturing establishments furnishing employment data in July, 17,095 establishments, or 95.6 per cent of the total, reported no change in wage rates during the month ending July 15, 1932. The employees whose wage rates were reported unchanged over the month interval totaled 2,363,981, comprising 95.5 per cent of the total number of employees included in this survey of manufacturing industries.

Decreases in rates of wages were reported by 776 establishments, or 4.3 per cent of the total number of establishments reporting. These decreases, averaging 10.5 per cent, affected 110,113 employees, or 4.5 per cent of all employees in the establishments reporting.

Two establishments reported increases in wage rates in July averaging 16.2 per cent and affecting 47 people.

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

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
All manufacturing industries.....	17,873	2,474,141	17,095	2	776	2,363,981	47	110,113
Per cent of total.....	100.0	100.0	95.6	(¹)	4.3	95.5	(¹)	4.5
Slaughtering and meat packing.....	227	81,257	204	—	23	72,645	—	8,612
Confectionery.....	326	24,885	318	1	7	24,507	29	349
Ice cream.....	381	13,660	374	—	7	13,408	—	252
Flour.....	427	15,817	412	—	15	15,348	—	469
Baking.....	935	62,518	918	—	17	62,043	—	475
Sugar refining, cane.....	15	8,052	14	—	1	7,468	—	584
Beet sugar.....	46	2,966	24	—	22	1,390	—	1,576
Beverages.....	341	11,151	341	—	—	11,151	—	—
Butter.....	315	6,293	303	—	12	6,192	—	101
Cotton goods.....	684	168,757	627	—	57	152,268	—	16,489
Hosiery and knit goods.....	452	86,734	435	—	17	84,229	—	2,505
Silk goods.....	255	30,187	236	—	19	28,071	—	2,116
Woolen and worsted goods.....	260	44,784	233	—	27	36,876	—	7,908
Carpets and rugs.....	32	9,062	29	—	3	8,080	—	982
Dyeing and finishing textiles.....	149	27,524	139	—	10	26,381	—	1,143
Clothing, men's.....	357	48,224	348	—	9	47,048	—	1,176
Shirts and collars.....	105	12,183	103	—	2	12,164	—	19
Clothing, women's.....	385	17,289	384	—	1	17,274	—	15
Millinery.....	136	6,258	134	—	2	6,180	—	78
Corsets and allied garments.....	32	5,165	32	—	—	5,165	—	—
Cotton small wares.....	112	8,230	104	—	8	7,600	—	630
Hats, fur felt.....	38	4,839	34	—	4	4,653	—	186
Men's furnishings.....	72	4,176	72	—	—	4,176	—	—
Iron and steel.....	212	169,618	196	—	16	157,187	—	12,431
Cast-iron pipe.....	38	5,907	35	—	3	5,056	—	851
Structural and ornamental iron-work.....	180	15,734	168	—	12	14,835	—	899
Hardware.....	107	19,581	101	—	6	19,252	—	329
Steam fittings and steam and hot-water heating apparatus.....	111	15,410	109	—	2	14,947	—	463
Stoves.....	160	12,959	153	—	7	11,994	—	965
Bolts, nuts, washers, and rivets.....	64	8,037	62	—	2	8,019	—	18
Cutlery (not including silver and plated cutlery) and edge tools.....	127	8,625	121	—	6	8,413	—	212
Forgings, iron and steel.....	61	5,370	58	—	3	5,301	—	69
Plumbers' supplies.....	63	4,438	61	—	2	4,434	—	4
Tin cans and other tinware.....	58	8,570	57	—	1	8,564	—	6
Tools (not including edge tools, machine tools, files, or saws).....	132	5,349	129	—	3	5,133	—	216
Wirework.....	70	4,951	67	—	3	4,704	—	247
Lumber, sawmills.....	605	54,792	571	—	34	50,961	—	3,831
Lumber, millwork.....	450	16,431	428	—	22	15,431	—	1,000
Furniture.....	483	38,883	466	—	17	36,820	—	2,063
Turpentine and rosin.....	19	1,019	18	—	1	1,008	—	11
Leather.....	165	22,078	160	—	5	21,869	—	209
Boots and shoes.....	333	99,412	318	—	15	96,743	—	2,669
Paper and pulp.....	401	74,673	377	—	24	70,106	—	4,567
Paper boxes.....	312	19,105	297	—	15	18,397	—	708
Printing, book and job.....	750	51,630	712	1	37	49,595	18	2,017
Printing, newspapers and periodicals.....	447	66,042	427	—	20	63,463	—	2,579
Chemicals.....	114	19,787	110	—	4	19,078	—	709
Fertilizers.....	203	4,268	196	—	7	4,164	—	104
Petroleum refining.....	114	47,152	110	—	4	46,406	—	746
Cottonseed oil, cake, and meal.....	51	1,575	50	—	1	1,565	—	10
Druggists' preparations.....	39	6,844	39	—	—	6,844	—	—
Explosives.....	21	2,550	19	—	2	2,534	—	16
Paints and varnishes.....	352	14,887	331	—	21	13,577	—	1,310
Rayon.....	22	18,035	18	—	4	15,635	—	2,400
Soap.....	91	12,229	86	—	5	11,637	—	592
Cement.....	123	13,768	121	—	2	13,586	—	182
Brick, tile, and terra cotta.....	657	19,098	639	—	18	18,019	—	1,079
Pottery.....	121	11,755	114	—	7	11,482	—	273
Glass.....	188	31,604	176	—	12	30,431	—	1,173
Marble, granite, slate, and other stone products.....	220	5,425	209	—	11	4,843	—	582
Stamped and enameled ware.....	92	12,183	86	—	6	11,568	—	615
Brass, bronze, and copper products.....	199	25,925	185	—	14	25,005	—	920
Aluminum manufactures.....	26	4,608	26	—	—	4,608	—	—

¹ Less than one-tenth of 1 per cent.

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING JULY 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
Clocks, time-recording devices, and clock movements.....	22	3, 046	21	-----	1	2, 099	-----	947
Gas and electric fixtures, lamps, lanterns, and reflectors.....	52	3, 416	48	-----	4	3, 281	-----	135
Plated ware.....	51	6, 242	50	-----	1	6, 204	-----	38
Smelting and refining—copper, lead, and zinc.....	26	7, 645	24	-----	2	6, 976	-----	669
Jewelry.....	151	6, 589	151	-----	-----	6, 589	-----	-----
Chewing and smoking tobacco and snuff.....	36	9, 962	35	-----	1	9, 902	-----	60
Cigars and cigarettes.....	215	44, 732	211	-----	4	44, 472	-----	260
Automobiles.....	244	233, 006	241	-----	3	232, 934	-----	72
Aircraft.....	34	6, 055	34	-----	-----	6, 056	-----	-----
Cars, electric and steam railroad.....	33	4, 576	33	-----	-----	4, 576	-----	-----
Locomotives.....	11	2, 506	11	-----	-----	2, 506	-----	-----
Shipbuilding.....	92	28, 312	90	-----	2	28, 181	-----	131
Rubber tires and inner tubes.....	38	36, 517	37	-----	1	35, 942	-----	575
Rubber boots and shoes.....	10	9, 650	9	-----	1	8, 934	-----	716
Rubber goods, other than boots, shoes, tires, and inner tubes.....	96	13, 397	92	-----	4	113, 234	-----	163
Agricultural implements.....	74	4, 360	73	-----	1	4, 322	-----	38
Electrical machinery, apparatus, and supplies.....	281	115, 563	267	-----	14	13, 203	-----	2, 360
Engines, turbines, tractors, and water wheels.....	74	12, 820	68	-----	6	12, 246	-----	574
Cash registers, adding machines, and calculating machines.....	44	14, 774	40	-----	4	14, 555	-----	219
Foundry and machine-shop products.....	1, 074	102, 616	1, 025	-----	49	94, 651	-----	2, 965
Machine tools.....	149	10, 399	143	-----	6	9, 738	-----	661
Textile machinery and parts.....	28	4, 314	28	-----	-----	4, 314	-----	-----
Typewriters and supplies.....	16	5, 771	15	-----	1	5, 751	-----	20
Radio.....	42	16, 182	42	-----	-----	16, 182	-----	-----
Electric-railroad repair shops.....	395	21, 035	361	-----	34	19, 265	-----	1, 770
Steam-railroad repair shops.....	522	70, 338	522	-----	-----	70, 338	-----	-----

Nonmanufacturing Industries

IN THE following table are presented data concerning wage-rate changes occurring between June 15 and July 15, 1932, reported by 14 nonmanufacturing groups included in the bureau's monthly employment survey.

No increase in wage rates from June to July were reported by establishments in the 14 nonmanufacturing groups of industries shown in the accompanying table, and the anthracite mining group alone reported no decreases in wage rates over the month interval. A number of establishments in each of the remaining 13 groups reported decreases in wage rates during the month ending July 15; the adjustments in 10 of these 13 industrial groups averaging approximately 10 per cent. The wage-rate decreases reported by establishments in the power and light group averaged 12.4 per cent, while the decreases in rates reported by establishments in the bituminous coal mining and the canning and preserving industries averaged 15 per cent and 16.9 per cent, respectively.

TABLE 2.—WAGE CHANGES IN NONMANUFACTURING INDUSTRIES DURING MONTH
ENDING JULY 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
Anthracite mining.....	160	60,818	160	-----	-----	60,818	-----	-----
Per cent of total.....	100.0	100.0	100.0	-----	-----	100.0	-----	-----
Bituminous coal mining.....	1,109	143,915	1,043	-----	66	133,984	-----	9,931
Per cent of total.....	100.0	100.0	94.0	-----	6.0	93.1	-----	6.9
Metalliferous mining.....	239	18,707	229	-----	10	17,439	-----	1,268
Per cent of total.....	100.0	100.0	95.8	-----	4.2	93.2	-----	6.8
Quarrying and nonmetallic min- ing.....	593	20,995	569	-----	24	19,824	-----	1,171
Per cent of total.....	100.0	100.0	96.0	-----	4.0	94.4	-----	5.6
Crude petroleum producing.....	240	21,331	233	-----	7	20,540	-----	791
Per cent of total.....	100.0	100.0	97.1	-----	2.9	96.3	-----	3.7
Telephone and telegraph.....	8,042	279,694	8,030	-----	12	279,255	-----	439
Per cent of total.....	100.0	100.0	99.9	-----	0.1	99.8	-----	0.2
Power and light.....	3,446	219,930	3,361	-----	85	216,181	-----	3,749
Per cent of total.....	100.0	100.0	97.5	-----	2.5	98.3	-----	1.7
Electric-railroad and motor-bus operation and maintenance.....	492	129,782	463	-----	29	109,329	-----	20,453
Per cent of total.....	100.0	100.0	94.1	-----	5.9	84.2	-----	15.8
Wholesale trade.....	2,604	67,449	2,485	-----	119	65,188	-----	2,261
Per cent of total.....	100.0	100.0	95.4	-----	4.6	96.6	-----	3.4
Retail trade.....	13,381	313,250	13,143	-----	238	306,512	-----	6,738
Per cent of total.....	100.0	100.0	98.2	-----	1.8	97.8	-----	2.2
Hotels.....	2,489	136,645	2,416	-----	73	130,356	-----	6,289
Per cent of total.....	100.0	100.0	97.1	-----	2.9	95.4	-----	4.6
Canning and preserving.....	870	53,553	864	-----	6	52,983	-----	570
Per cent of total.....	100.0	100.0	99.3	-----	0.7	98.9	-----	1.1
Laundries.....	983	60,601	963	-----	20	59,564	-----	1,037
Per cent of total.....	100.0	100.0	98.0	-----	2.0	98.3	-----	1.7
Dyeing and cleaning.....	375	12,325	366	-----	9	11,677	-----	648
Per cent of total.....	100.0	100.0	97.6	-----	2.4	94.7	-----	5.3

