### UNITED STATES DEPARTMENT OF LABOR

FRANCES PERKINS, Secretary

#### BUREAU OF LABOR STATISTICS

ISADOR LUBIN, Commissioner

# TREND OF EMPLOYMENT

### OCTOBER 1933



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UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1933

## TREND OF EMPLOYMENT

#### October 1933

THE Bureau of Labor Statistics of the United States Department of Labor presents herewith data compiled from pay-roll reports supplied by representative establishments in 89 of the principal manufacturing industries of the country and 16 nonmanufacturing industries, covering the pay period ending nearest the 15th of the month. Additional information is presented concerning employment on publicworks projects, public roads, the executive civil service, and class I steam railroads.

# Employment in Selected Manufacturing Industries in October 1933

Comparison of Employment and Pay-Roll Totals in October 1933 with September 1933 and October 1932

EMPLOYMENT in manufacturing industries increased 0.1 percent in October 1933 as compared with September 1933 and pay rolls increased 0.6 percent over the month interval, according to reports received from representative establishments in 89 important manufacturing industries of the country. Comparing the changes in employment and pay rolls over the year interval, it is seen that the level of employment in October 1933 is 23.5 percent above the level of October 1932, and pay rolls in October 1933 showed a gain of 34.3 percent over the year interval.

The index of employment in October 1933 was 74, as compared with 73.9 in September 1933, 71.6 in August 1933, and 59.9 in October 1932; the pay-roll index in October 1933 was 53.6, as compared with 53.3 in September 1933, 51.9 in August 1933, and 39.9 in October

1932. The 12-month average for 1926 equals 100.

These changes in employment and pay rolls in October 1933 are based on reports supplied by 18,602 establishments in 89 of the principal manufacturing industries of the United States. These establishments reported 3,358,960 employees on their pay rolls during the pay period ending nearest October 15 whose combined weekly earnings were \$63,195,865. The employment reports received from these cooperating establishments cover approximately 50 percent of the total wage earners in all manufacturing industries of the country.

The increases in employment and pay rolls between September and October 1933, while small, indicate a continuation of the gains in employment and pay roll which occurred during the preceding 6-month interval. The fact that 56 industries, or nearly two thirds of the 89 manufacturing industries surveyed, reported increased employment in October would give reason to expect a greater expansion.

over the month interval than was shown. Those increases, however, were practically offset by the decreases reported in the remaining 33 industries. Among the decreases which largely affected the final result were losses of over 10 percent in employment in automobiles and a similar decline in silk goods where labor difficulties prevailed throughout the period covered. Smaller declines were recorded in iron and steel, boots and shoes, woolen and worsted goods, steam fittings, hardware, plumbers' supplies, and men's clothing, and seasonal shrinkage in the brick, cement, beverage, and ice-cream industries.

The average percentage of change in employment between September and October over the preceding 10-year period has been a decrease of less than one tenth of 1 percent and pay rolls have shown an average gain of 2 percent over this interval. The small percentage gain in employment in October of the present year therefore indicates a change slightly better than average, while the pay-roll increase of 0.6 percent in October of the current year is appreciably less than the average increase shown in October over the preceding 10-year interval.

The gain of 0.1 percent in employment in manufacturing industries between September and October 1933 represents an estimated gain of approximately 7,000 workers over the month interval, and the increase of 0.6 percent in factory pay rolls indicates that the total weekly pay rolls of factory employees in October were approximately two thirds of a million dollars greater than the total weekly pay rolls disbursed in September in all manufacturing industries combined.

The index (74) of factory employment in October shows a gain of 34.3 percent over the employment index (55.1) of March 1933, which was the low point of employment recorded in manufacturing industries. The pay-roll index (53.6) in October is 60.5 percent above the level of the March pay-roll index of 33.4. Measured by these percentage gains there was an increase in employment in manufacturing industries of approximately 1,700,000 workers between March and October 1933 and an increase of \$44,500,000 in weekly wages in October over the total amount paid in 1 week in March 1933.

The most pronounced increases in employment between September and October were seasonal gains in the beet-sugar and radio industries. The beet-sugar industry, marking the beginning of its active season, reported a gain of 171.1 percent in employment and the radio industry reported an increase of 21.6 percent. The locomotive industry showed a gain of over 20 percent in number of workers and the cottonseed oil-cake-meal and fertilizer industries reported seasonal gains of 15.6 percent and 10.6 percent, respectively. Fifteen industries reported gains ranging from 5 percent to 9.8 percent, among which were the agricultural implement, confectionery, machine tool, jewelry, stove, shirt and collar, and cigar and cigarette industries. Other industries of major importance reporting increased employment over the month interval were petroleum refining, electrical machinery, shipbuilding, chemicals, foundries, sawmills, furniture, women's clothing, knit goods, and cotton goods.

Seven of the 14 groups into which the 89 manufacturing industries are classified reported increased employment between September and October. The tobacco group reported the largest percentage gain over the month, 4.6 percent, both the cigar and cigarette and the chewing and smoking tobacco industries reporting increases. The machin-

ery group reported an increase of 3.7 percent, substantial gains being shown in radios, agricultural implements, machine tools, typewriters, electrical machinery, and foundries. The food group reported a gain of 3.6 percent, the beet sugar, confectionery, cane-sugar refining, and flour industries reporting the largest percentage increases. The gain of 2.9 percent in employment in the chemical group was due largely to seasonal increases in fertilizers and cottonseed oil-cake-meal combined with smaller increases in the chemical, petroleum refining, and explosive industries. The paper group reported a gain of 2 percent. The nonferrous metal and the lumber groups reported increases in

employment of 1.7 and 1.4 percent, respectively.

The most pronounced decline in employment (7.9 percent) was reported in the transportation group in which the decrease of 10.4 percent in the automobile industry contributed largely to the decline reported in the group. The stone, clay, and glass products group reported a decrease of 2.3 percent, seasonal decreases in the cement and brick industries offsetting small gains reported in the glass, marble, and pottery industries. The decline in employment in 8 of the 13 industries comprising the iron and steel group was reflected in the loss of 2.1 percent in employment in this group over the month interval. The iron and steel industry reported 2.2 percent fewer employees in October than September and larger decreases were shown in the tin can, forging, steam fitting, plumbers' supplies, and hardware industries. The decreases in both the boot and shoe and the leather industries resulted in a decrease of 1.9 percent in the leather group. The decreases in the remaining 3 groups (textiles, rubber, and railroad repair shops) were 0.7 percent or less.

Strikes continued to affect employment in factories in a number of localities. A large number of silk-goods plants reported decreased employment due to strikes in New Jersey and Pennsylvania. These strikes affected a number of plants in the dyeing and finishing textile industry which were forced to close or operate part time due to lack of material. Strikes in establishments in the furniture, flour, knit goods, and leather industries were also reported over the month

interval.

A comparison of the indexes of employment and pay roll in manufacturing industries in October 1933 with October 1932 shows that all but 8 of the 89 industries surveyed reported increased employment over the year interval and a similar number reported increased payroll totals. Decreases in both items were reported in 6 industries—dyeing and finishing textiles, corsets, millinery, electric-railroad repair shops, cement, and marble-granite-slate. The newspaper and the book and job printing industries each reported small losses in pay rolls coupled with increased employment over the year interval, and the men's furnishings and cigar and cigarette industries reported losses in employment coupled with increased pay-roll totals.

In table 1, which follows, are shown the number of identical establishments reporting in both September and October 1933 in the 89 manufacturing industries, together with the total number of employees on the pay rolls of these establishments during the pay period ending nearest October 15, the amount of their earnings for 1 week in October, the percents of change over the month and year intervals, and the indexes of employment and pay roll in October 1933.

The monthly percents of change for each of the 89 separate industries are computed by direct comparison of the total number of employees and of the amount of weekly pay roll reported in identical establishments for the 2 months considered. The percents of change over the month interval in the several groups and in the total of the 89 manufacturing industries are computed from the index numbers of these groups, which are obtained by weighting the index numbers of the several industries in the groups by the number of employees or wages paid in the industries. The percents of change over the year interval in the separate industries, in the groups and in the totals, are computed from the index numbers of employment and pay-roll totals.

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN OCTOBER 1933 WITH SEPTEMBER 1933 AND OCTOBER 1932

· · · · · · · · · · · · · · · · · · ·		Em	ploymer	nt	Pay	roll tota	ls	Index	num-
	Estab- lish- ments report- ing in	Num-	Perce		Amount	Perce char		bers O	ctober
Industry	both Sep- tember and October	ber on pay roll October 1933	Sep- tember to Oc- tober 1933	Octo- ber 1932 to Oc- tober 1933	of pay roll (1 week) October 1933	Sep- tember to Oc- tober 1933	Octo- ber 1932 to Oc- tober 1933	Em- ploy- ment	Pay- roll totals
Food and kindred prod-									•
ucts	3, 145	322, 300	+3.6	+19.1	\$6, 528, 685	+2.0	+17.2	103.7	81.7
Baking	1,030	73, 420	+1.2	+10.0	1, 599, 105	+.4	$+5.8 \\ +131.3$	89.0	72.5
Beverages	413	26, 154	-6.5	+107.9	701, 269	-9.8	+131.3	150.9	
Butter	307	5, 966	-1.2 + 8.1	+9.5 +5.2	121, 301	$^{+1.5}_{+5.9}$	+2.8	106.0	
Confectionery	302 417	43, 619	10.1	10.2	644, 122	+5.9	+8.8 +4.1	102.4	80.1
Flour Ice cream	356	17, 646 11, 377	+2.4 -8.4	+13.6   +12.1	362, 281 284, 990	+6.4 -5.9	+4.5	96. 2	
Slaughtering and meat	330	11, 3//	-0.4	T12. 1	284, 990	-5.9	T4. 0	76.8	57.5
packing	244	112, 501	8	+26.0	2, 218, 244	6	+22.9	110. 5	87. 0
Sugar, beet	63	21, 913	+171, 1					248.8	163. 0
Sugar refining, cane	13	9, 704	+7.6					93. 2	68.0
ougai renming, cane	10	5, 101	1 1.0	1 20.0	155, 540	( 1. 1	, 0. 1	50. 2	00, 0
Textiles and their products.	3, 316	773, 495	?	+17.7	11, 820, 893	-1,7	+29.9	87.9	67.7
Fabrics	1, 965	628, 243	7	+23.0	9. 324. 044	3	+36.0	93, 6	74.4
Carpets and rugs	27	16, 632	+5.5	+52.8	322, 810	+7.3	+89.9	82.8	65.7
Cotton goods	689	309, 034	+1.2	+35.2	4, 046, 645	+1.0	+61.2	102. 6	86.4
Cotton small wares	116	11, 621	-2, 2	+23.0	183, 573	-1.3	+25.9	99.6	77.4
Dyeing and finishing									
textiles	153	33, 600	-2.3	-2.8		+2.5	-6.2	75. 7	54.0
Hats, fur-felt	36	6, 248	-9, 4	+3.6		-9.7		76.8	57.6
Knit goods	466	124, 945	+1.6	+11.3		+5.5	+19.2	96.6	79.5
Silk and rayon goods	238	50, 798	-10.1	+.5	762, 239	-7.2	+12.5	65. 2	50.5
Woolen and worsted									
goods	240	75, 365	<b>-3.</b> 1	+29.5	1, 283, 690	-4.9	+37.7	99. 6	78. 1
Wearing apparel	1, 351	145, 252	4	+3.9	2, 496, 849	-5.2		74.3	<b>54.</b> 5
Clothing, men's	396	70, 604	-2.1	+8.7	1, 215, 149	-2.0	+26.0	77. 1	55. 3
Clothing, women's	593	34, 458	+1.6	+1.6	693, 297	-7.5	+13.3	71.7	<b>54</b> . 5
Corsets and allied gar-						ا	ا ر		
ments	32	5, 453	-9.7	-5.4	84, 166	-8.5	-5.8	95. 5	80.6
Men's furnishings	73	7, 242	+7.1	-2.5	102, 798	+16.0	+7.7	67.1	48.9
Millinery	135	8,845	-3.6	-9.3		-23.5	-12.0	69. 6	43.9
Shirts and collars	122	18, 650	+5.5	+15.0	249, 992	+15.0	+49.5	73. 4	62.8
Iron and steel and their	í I		1			i			
products, not including		1				j		i	
machinery	1, 419	417, 746	-2.1	+37.9	7, 939, 979	+.4	+77.8	73. 2	47.3
Bolts, nuts, washers, and	1,110	110,010	~	100.0	1, 505, 515	1 • =	1	.0. ~	21.0
rivets	79	14, 406	-2.1	+42.5	263, 139	+. 2	+75.0	88.8	58.8
Cast-iron pipe	44	6, 630	+3.1		85, 221	+3.9		35. 1	19. 0
Cutlery (not including sil-	**	0,000	10. 1	1 20, 0	00, 221	1 0. 0	1 21.0	00. 1	10. 0
ver and plated cutlery)			-	i				i	
and edge tools	132	11, 292	+4.8	+22.7	208, 291	+6.4	+24.0	79. 0	54.3
Forgings, iron and steel	66	11, 292 7, 214	-7. 9	+22.7 +38.9	134, 941	+1.7	$+24.0 \\ +91.5$	76. 7	49.6
Hardware	99	28, 269	-6.3	+12.4	462, 411	-7.8	+25. 9	55. 3	30.6
Iron and steel	206	254, 363	-2. 2	+44. 2			+113.4	76. 4	49, 5
Plumbers' supplies	73	9, 314	$-6.\tilde{9}$		149, 430	-12.8	+62.0	81. 6	46. 5
Plumbers' supplies Steam and hot-water heat-		0, 011	٥. ٥	1 50. 1	110, 100	A 20. G	1 02. 0	02.0	40.0
ing apparatus and steam		}	j			1			
fittings	98	16,843	-7.6	+19.6	302, 493	-8.3	+17.8	44. 6	27.8
		,		, -5. 0		5.0		0	0

TABLE 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN OCTOBER 1933 WITH SEPTEMBER 1933 AND OCTOBER 1932—Continued

		Em	ploymer	ıt	Pay	roll tota	ls	Index	num-
	Estab- lish- ments report-	Num-	Perce char		Amount	Perce char		bers O 1933 (a 1926=	ctober verage
Industry	ing in both Sep- tember and October	ber on pay roll October 1933	Sep- tember to Oc- tober 1933	Octo- ber 1932 to Oc- tober 1933	of pay roll (1 week) October 1933	Sep- tember to Oc- tober 1933	Octo- ber 1932 to Oc- tober 1933	Em- ploy- ment	Pay- roll totals
Iron and steel and their products, not including machinery—Continued.		25.040							
Stoves Structural and ornamental	162	25, 346	+5.6	+49.3	500, 488			82.7	56. 4
metalwork Tin cans and other tin-	202	17,045	+1.2	+24.3	314, 477	+6.2	+39.8	51, 2	33. 0
ware Tools (not including edge	60	10, 238	8.0	+11.8	191.985	-7.7	+8.6	85. 9	51. 5
tools, machine tools, files, and saws)	127 71	8, 950 7, 836	+3.6 5	+38.0 +40.1	163, 327 150, 785	+5.0 +1.7	+53.8 +61.3	83. 1 128. 2	54. 0 103. 9
Machinery, not including transportation equip-ment.	1, 826	359, 680	+3.7	+40.4	7, 207, 029	+6.9	+60.9 +122.1	64, 0	43, 6
Agricultural implements Cash registers, adding ma- chines, and calculating	79	9, 118	+8.5	+ <b>40.4</b> +94.3	162, 663				31.1
machines Electrical machinery, ap-	35	16, 366			'	+4.6	+44.0		67. 4
Engines, turbines, trac-	291	112, 500	ĺ		' '	+4.8		62. 9	46. 9
tors, and water wheels Foundry and machine-	92		+.4		· ·	+6.7			36. 4
shop products Machine tools Radios and phonographs	1, 075 143 43	125, 024 15, 601 37, 148	$\begin{array}{r} +2.0 \\ +7.9 \\ +21.6 \end{array}$	+37.3 +62.2 +103.5	329, 929	+4.8 +9.9 +37.3	+93.6	60. 4 48. 0 162. 4	37. 8 33. 1 125. 2
Textile machinery and parts	52 16	10, 768 11, 988	9 +6.7	+67.9 +45.3	235, 143 236, 166	+.3 +11.4	$^{+103.8}_{+101.6}$	90. 0 81, 2	69. 3 61. 3
Nonferrous metals and their products	632 27	108, 188 6, 949	+1.7 -1.5	+35.2 +34.6	2, 022, 181 124, 245	+4.9 +4.6	+38.9 +47.8	<b>73. 0</b> 64. 2	<b>51.</b> 4 43. 6
Brass, bronze, and copper products	212	39, 185	9	+41.7	736, 801	-2.9	+57.1	72. 4	49. 5
Clocks and watches and time-recording devices	27 130 52	9, 606 9, 487 3, 642	+5. 4 +5. 6 +2. 4	+26. 4 +8. 6 +26. 3	177, 741 188, 516 64, 388	+13.1 +11.0 +1.4	+39. 2 +6. 4 +26. 9	52. 6 47. 8 84. 1	43, 7 34, 7 59, 4
Silverware and plated	56	9, 247	+9.8	+21.7		+20.0		77. 5	55. 2
Smelting and refining— copper, lead, and zinc Stamped and enameled	42	14, 140	+2.3	+46.8		+3.8		86. 3	55. 9
Stamped and enameled ware	86	15, 932		+37. 6	270, 800	+6.1	+39. 4	83. 1	55. 9
Transportation equip-									
AircraftAutomobiles	424 25 239	270, 106 6, 445 221, 612	-7.9 +3.6 -10.4	+44.1  +48.3  +52.4	174, 599	-10.4 +7.3 -13.3	+66.8 +27.9 +85.9	<b>56.9</b> <b>24</b> 7.3 58.2	41. 2 222. 6 42. 2
Cars, electric and steam railroad Locomotives Shipbuilding	49 11 100	8, 876 2, 851 30, 322	-2. 1 +20. 9 +2. 8	+1. 4 +47. 1 +16. 8	177, 037 54, 008 649, 805	+5. 0 +28. 6 +3. 6	+1.6 +40.4 +10.3	21. 4 20. 3 79. 1	12. 6 13. 2 57. 8
Railroad repair shops  Electric railroad  Steam railroad	920 380 540	<b>96, 065</b> 19, 631 76, 434	2 +1. 1 3	+4.9 -3.5 +5.9	487, 588	+8.0 +2.4 +8.5	+23.5 $-3.5$ $+26.6$	<b>51. 0</b> 63. 2 50, 1	44.7 50.0 44.3
Lumber and allied prod- ucts	1, 610 468	167, 364 60, 655	+1.4 +1.8	+32.8 +32.4	2, 541, 181 975, 283	+1.5 +4.2	+ <b>49.5</b> + <b>45.</b> 3	51.8 64.1	33, 2 41. 7
Lumber: Millwork Sawmills Turpentine and rosin	494 621 27	21, 348 83, 438 1, 923		+17.8 +35.7 +42.9		2.8		40. 3	24. 6 31. 0 55. 8

Table 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS IN OCTOBER 1933 WITH SEPTEMBER 1933 AND OCTOBER 1932—Continued

	Total	Em	ploymer	1t	Pay	roll total	ls	Index	
	Estab- lish- ments report- ing in	Num-	Perce chai		Amount	Perce char		bers O 1933 (a 1926=	verage
Industry	both Sep- tember and October	ber on pay roll October 1933	Sep- tember to Oc- tober 1933	Octo- ber 1932 to Oc- tober 1933	of pay roll (1 week) October 1933	Sep- tember to Oc- tober 1933	Octo- ber 1932 to Oc- tober 1933	Em- ploy- ment	Pay- roll totals
Stone, clay, and glass products	1, 325	105, 477	-2.3	+15.9	1, 831, 971	+.9	+19.3	51, 7	32, 8
Brick, tile, and terra cotta	662 131 177	20, 469 13, 119 46, 900	-8. 5 -13. 7 +1. 0	-11.4	257, 175 240, 984 874, 310	$     \begin{array}{r}       -9.4 \\       -4.5 \\       +2.0     \end{array} $	<b>-9.</b> 1	31. 5 38. 0 80. 6	14. 7 22. 9 59. 6
other products Pottery	235 120	5, 982 19, 007	+1.8 +3.8	-12.4 +24.1	117, 204 342, 298	+4.3 +7.9	$-22.7 \\ +33.9$	45. 4 74. 7	27. 3 50. 2
Leather and its manufactures Boots and shoes Leather	<b>506</b> 348 158	153, 033 120, 806 32, 227		+3.0	2, 006, 690	-9.1	+11.4	84. 1 82. 5 90. 5	62. 0 58. 5 74. 1
Paper and printing Boxes, paper Paper and pulp Printing and publishing:	<b>1, 990</b> 327 <b>4</b> 16	248, 821 27, 785 101, 951	+2.0 +1.8 +1.0	+25.8	486, 336	+1.9 4 1	+19.1	90. 5 92. 6 94. 8	<b>70. 6</b> 76. 0 66. 3
Book and job Newspapers and pe-	784	48, 202	+1.6		' '		-2.9	73. 5	57. 8
riodicals Chemicals and allied prod-	463	70, 883	+3.3			+3.4		104. 1	85. 3
Chemicals cake,	<b>1, 102</b> 106	184, 419 26, 471	+2.0		632, 490	+4.9 +6.4	+41.0	98. 7 120. 9	77.8 87.0
and meal. Druggists' preparations Explosives Fertilizers Paints and varnishes Petroleum refining Rayon and allied products	175 363 140 24	6, 677 8, 930 4, 569 8, 957 17, 680 56, 180 37, 681	+10.6 1	+12.7 +39.9 +59.9 +17.9 +17.6	115, 577 371, 345 1, 517, 153 668, 793	+21. 1 +6. 5 +7. 9 +12. 9 +3. 0 +3. 9 +2. 4	+14.1 +51.2 +59.5 +11.7 +14.6 +45.7	62. 9 80. 8 105. 9 72. 1 80. 4 72. 7 197. 3	80. 3 77. 4 48. 0 61. 0 59. 8 172. 4
Rubber products Rubber boots and shoes	109 <b>149</b> 9	17, 274 96, 368 10, 400	3	+39.4		+.8 +1.9 +4.0		116, 7 *89, 1 68, 6	62,8
Rubber goods, other than boots, shoes, tires, and inner tubes	98	27, 300		+43. 4	492, 991	+7.5	+35.0	120, 9	82. 6
tubes	42	58, 668	-2.1	,	1, 246, 374	-1.3	'	82. 2	56. 2
Tobacco manufactures Chewing and smoking to- bacco and snuff	<b>238</b> 30	55, 898 9, 491	+2.4	-2.2	780, 962 130, 914	+6.1	+5.7 +5.0	72, 3 91. 7	<b>59, 0</b> 77, 0
Cigars and cigarettes Total, 89 industries	208	46, 407 3, 358, 960	+.1	-2.9	650, 048 <b>63, 195, 865</b>	$\frac{+7.2}{+.6}$	+5.8	69. 8 74. 9	56. 8 <b>53. 6</b>
Total, or muustries	10,002	o, aaa, au	т.1	T.60, 0	40, 120, 000	7.0	<b>⊤32.3</b>	12, 0	Ja, 0

<sup>1</sup> Less than one tenth of 1 percent.

### Per Capita Earnings in Manufacturing Industries

PER capita weekly earnings in October 1933 for each of the 89 manufacturing industries surveyed by the Bureau of Labor Statistics and for all industries combined, together with the percents of change in October 1933 as compared with September 1933 and October 1932, are shown in table 2.

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

Table 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN OCTOBER 1933 AND COMPARISON WITH SEPTEMBER 1933 AND OCTOBER 1932

Industry	Per capita weekly earnings	Percent of pared	change com- with—
Industry	in October 1933	September 1933	October 1932
Food and kindred products:			
Baking Beverages Butter	\$21.78	-0.8 -3.6	-3.6
Butter	26. 81 20. 33	-3.0 +2.8	+11.2 $-6.0$
Confectionery.	14. 77	+2.8 -2.0	+3.3
Flour	20, 53	+3.9	0.7
Confectionery Flour Lee cream Slaughtering and meat packing	25. 05 19. 72	+2.8 +.2	-8. 6 -6. 4 -2. 4
Sugar, beet	18. 16	-10.1	+11.4
Sugar, beet Sugar refining, cane	20. 54	-3.0	-11.9
rextiles and their products:			
Carpets and rugs. Carpets and rugs. Cotton goods. Cotton small wares. Dyeing and finishing textiles. Hats, fur-felt. Knit goods. Silk and rayon goods. Woolen and worsted goods. Wearing apparel:	19.41	+1.7	+23.8
Cotton goods	13.09	I —.2I	118 4
Cotton small wares	15.80	+.9	+2.0
Hote fur-felt	18. 18 22. 41	+4.8 3	-3.4
Knit goods	15. 80	+3.8	+7.0 +7.1
Silk and rayon goods	15. 01	+3.2	+12.0
Woolen and worsted goods	17. 03	-1.9	+5.8
Wearing apparel:	17. 21	ا و ـــ	+15.9
Clothing, men's. Clothing, women's. Corsets and allied garments.	20. 12	+. 2 -8. 9	+11.5
Corsets and allied garments	15. 43	+1.2 +8.3	—. <u>·</u>
Men's furnishings Millinery	14. 19		+10.
Millinery	17. 12 13. 40	-20.6 +9.0	-3.1 +29.6
Shirts and collars	13. 40	4.0	+29.0
Bolts, nuts, washers, and rivets. Cast-iron pipe. Cutlery (not including silver and plated cutlery) and edge tools. Forgings, iron and steel. Hardware. Iron and steel	18. 27	+2.4	+22. 6
Cast-iron pipe	12.85	+.8 +1.5	+7.4
Forcings iron and steel	18, 45 18, 71	+1.5 +10.4	+. 7 +38. 1
Hardware	16. 36	-1.6	+12.0
Iron and steel	19. 71 16. 04	1 427	+48.4
Plumbers' supplies Steam and hot-water heating apparatus and steam fittings	16.04	-6.4	+1.7
Stores	17. 96 19. 75	8 +6.5	-1.4 +1.8
Structural and ornamental metal work	18. 45	+4.9	+12.6
Tin cans and other tinware	18. 75	+.3	-3. 1
Tools (not including edge tools, machine tools, files, and saws) Wirework	18, 25 19, 24	$+1.3 \\ +2.2$	+11.
Machinery, not including transportation equipment:	19. 24	74.2	+15.8
Agricultural implements	17.84	+5.2	+13.7
Cash registers, adding machines, and calculating machines	25, 45 20, 25	+2.2 +1.1	+7.1 +12.3
Engines, turbines, tractors, and water wheels	20. 25 20. 79	163	+5.1
Foundry and machine-shop products	19.05	+2.7	+18.
Machine tools	21. 15	<b>→1.9</b>	+18.8
Taytile machinery and parts	19. 54	+12.9	-2.2
Typewriters and supplies.	21. 84 19. 70	+1.3 +4.5	+39.
Agricultural implements.  Cash registers, adding machines, and calculating machines.  Electrical machinery, apparatus, and supplies.  Engines, turbines, tractors, and water wheels.  Foundry and machine-shop products.  Machine tools.  Radios and phonographs.  Textile machinery and parts.  Typewriters and supplies.  Nonferrous metals and their products:  Aluminum manufactures			
Aluminum manufactures.	17. 88 18. 80	+6.2	+9.6 +11.6
Brass, bronze, and copper products. Clocks and watches and time-recording devices	18.50	-2.0 +7.3	+10.
Jewelry Lighting equipment	19, 87	+5.2	-2,0
Lighting equipment	17. 68	i —1.0	+.
Smalting and rafining—conner lead and gine	20. 75 18. 94	+9.3 +1.4	
Silverware and plated ware Smelting and refining—copper, lead, and zinc Stamped and enameled ware	17. 00	+5.1	+1.3
Aircraft Automobiles Cars, electric and steam railroad	27. 09 20. 95	+3.6	-13.7 + 22.3
Cars, electric and steam railroad	20. 95 19. 95	$\begin{array}{c} -3.2 \\ +7.3 \end{array}$	+22.6
Locomotives	18.94	<b>⊢6.4</b>	-5.4
Shipbuilding	21. 43	+.8	-5. 8
Railroad repair shops:	24, 84	+1.3	(1)
Railroad repair shops: Electric railroad Steam railroad Jumber and allied products:	25. 49	+8.7	+19.5
samou and aniou produces.			•
Furniture.	16.08	+2.4	+9.4
Lumber: Millwork	15.01	+2	+4.1
Sawmills	14.62	+.2 -1.3	+18.6
Turpentine and rosin	13.44	+4.8	+3.7
Stone, clay, and glass products: Brick, tile, and terra cotta	10 50		104
	12. 56	-1.1	+3.2
Cement Glass	18. 37	+10.7	+2.1 +6.7

<sup>1</sup> No change.

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TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN OCTOBER 1933 AND COMPARISON WITH SEPTEMBER 1933 AND OCTOBER 1932—Con.

To deserve	Per capita weekly	Percent of pared	change com- with—
Industry	earnings in October 1933	September 1933	October 1932
Stone, clay, and glass products—Continued.  Marble, granite, slate, and other products  Pottery  Leather and its manufactures:		+2. 4 +3. 9	-11. 7 +7. 9
Boots and shoes. Leather. Paper and printing:		$ \begin{array}{c} -7.1 \\ +2.0 \end{array} $	+8.0 +3.5
Boxes, paper	18 63	-2.2 -1.1	-5.3 +.9
Printing and publishing: Book and job. Newspapers and periodicals Chemicals and allied products:	25, 16 30, 97	+.4 +.1	-4.0 -7.1
Chemicals Chemicals Cottonseed oil, cake, and meal Druggists' preparations	10.70	+4.4 +4.6 +1.4	$ \begin{array}{r} -1.0 \\ +15.7 \\ +1.4 \end{array} $
Explosives Fertilizers Paints and varnishes	21, 44 12, 90	+5.8 +2.1 +3.1	$+8.0 \\ +.4 \\ -5.1$
Petroleum refining Rayon and allied products Soap	17, 75	$\begin{array}{c} +.1 \\ +2.1 \\ +.2 \end{array}$	$     \begin{array}{r}       -2.3 \\       +2.7 \\       -9.2     \end{array} $
Rubber poots and shoes Rubber boots and shoes Rubber goods, other than boots, shoes, tires, and inner tubes Rubber tires and inner tubes	18, 77 18, 06 21, 24	+2.0 +5.5 +.7	+17. 4 -5. 7 +16. 5
Tobacco manufactures: Chewing and smoking tobacco and snuff	13, 79 14, 01	-2.3 +2.0	+2.8 +9.0
Total, 89 industries	18. 81	2+.4	² +8. 7

<sup>&</sup>lt;sup>2</sup> Weighted.

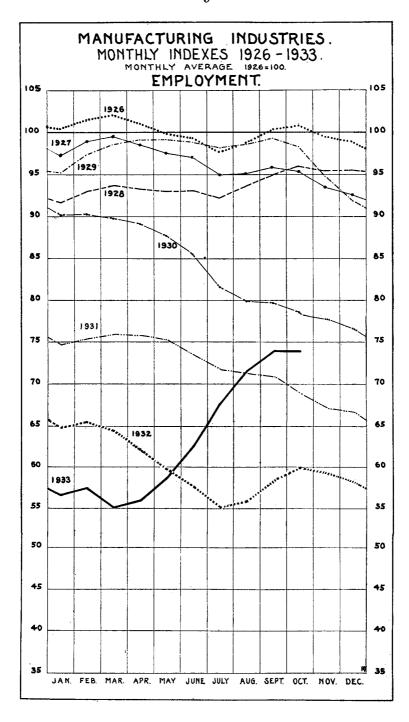
#### General Index Numbers of Employment and Pay-Roll Totals in Manufacturing Industries

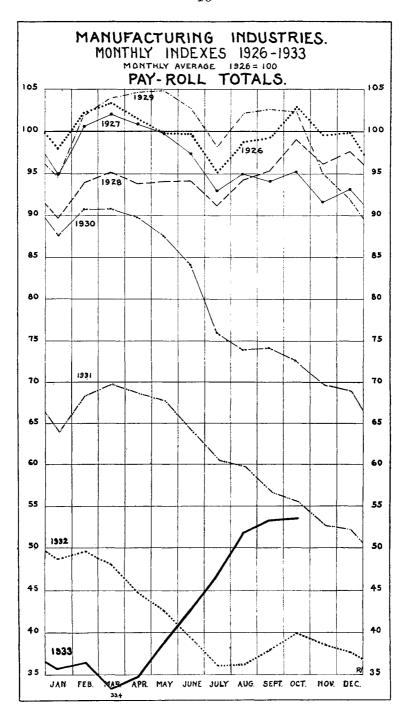
General index numbers of employment and pay-roll totals in manufacturing industries by months, from January 1926 to October 1933, together with average indexes for each of the years from 1926 to 1932 and for the 10-month period, January to October 1933, inclusive, are shown in the following table. In computing these general indexes the index numbers of each of the separate industries are weighted according to their relative importance in the total. Following this table are two charts prepared from these general indexes showing the course of employment and pay rolls from January 1926 to October 1933, inclusive.

TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFAC-TURING INDUSTRIES, JANUARY 1926 TO OCTOBER 1933

					[12-r	nonth	aver	age, 19	926 = 10	0]						
Month			E	mplo	ymen	t			Pay rolls							
MOHIN	1926	1927	1928	1929	1930	1931	1932	1933	1926	1927	1928	1929	1930	1931	1932	1933
January	100. 4									94. 9				63. 7	48. 6	
February	101. 5	99.0	93.0	97.4	90.9	75.3	65. 6	57. 5	102, 2	100.6	93. 9	101.8	91. 3	68. 1	49.6	36. 4
March	102.0	99. 5	93.7	98.6	90.5	75. 9	64. 5	55. 1	103.4	102.0	95. 2	103.9	91.6	69.6	48. 2	33. 4
April	101.0	98.6	93. 3	99. 1	89. 9	75.7	62. 2	56.0	101.5	100.8	93.8	104.6	90.7	68. 5	44.7	34.9
May	99.8	97. 6	93. 0	99. 2	88. 6	75. 2	59.7	58.7	99.8	99.8	94. 1	104.8	88.6	67. 7	42.5	38.9
June	99.3		93. 1	98.8	86. 5	73.4	57. 5	62. 8	99. 7	97. 4	94. 2	102.8	85. 2	63. 8	39. 3	43. 1
July	97. 7	95. 0	92. 2	98. 2	82. 7	71. 7	55. 2	67.3	95. 2	93. 0	91. 2	98. 2	77. 0	60.3	36. 2	46.5
August	98.7		93, 6			71. 2	56.0	71. 6	98. 7	95.0	94. 2	102. 1	75.0	59.7	36. 3	51.9
September	100.3		95.0	99. 3	80.9	70.9	58. 5	73.9	99. 3	94. 1	95.4	102.6	75. 4	56.7	38.1	53. 3
October	100.7	95, 3	95.9	98.4	79.9	68.9	59.9	74.0	102.9	95. 2	99.0	102.4	74.0	55. 3	39. 9	53.6
November	99. 5					67.1	59. 4		99. 6	91. 6		95, 4	69. 6	52. 5	38.6	
December	98. 9		95. 5	92. 3	76.6	66.7	58. 3		99.8	93. 2	97.7	92.4	68.8	52. 2	37. 7	
Average	100, 0	96.4	93.8	97.5	84.7	72. 2	60. 1	<sup>1</sup> 63.4	100. 0	96.5	94.5	100.5	81.3	61.5	41.6	142.8

<sup>&</sup>lt;sup>1</sup> Average for 10 months.





### Time Worked in Manufacturing Industries in October 1933

Reports as to working time in October were received from 14,883 establishments in 89 manufacturing industries. Two percent of these establishments were idle, 70 percent operated on a full-time basis, and 28 percent worked on a part-time schedule.

An average of 93 percent of full-time operation in October was shown by reports received from all the operating establishments included in table 4. The establishments working part time in October averaged 76 percent of full-time operation.

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

	Establi repor	shments ting—	Percen tablish operat	ments	Average full tim by—	percent o le reporte
Industry	Total num- ber	Per- cent idle	Full time	Part time	All operating establishments	Estab- lish- ments operatin part tim
od and kindred products	2,665	1	77	22	96	8
Baking	937	(1)	84	15	98	8
Beverages	301		59	41	91	3
Butter	250	2	65	33	93	3
Confectionery	263	. 2	70	27	94	3
Flour	381	(1)	87	13	96	7
Ice cream.	264	2	72	27	95	1 8
Slaughtering and meat packing	198		77	23	96	8
Sugar, beet	60		98	2 36	100	
Sugar remning, cane	11		64	30	90	•
extiles and their products	2,695	4	81	15	95	7
Carpets and rugs	20	10	85	5	97	4
Cotton goods	644	1	83	16	95	1
Cotton small wares	99	2	70	28	92	
Dyeing and finishing textiles	130	5	84	12	97	
Hats, fur-felt	20		30	70	82	
Knit goods	419	1 1	92	7	99	
Silk and rayon goods	209	21	72	.7	98	
Woolen and worsted goods	230	3	83	14	96	(
Wearing apparel:	286	3	81	15	96	,
Clothing, men's	374	6	76	18	93	
Corsets and allied garments	24	4	46	50	91	į
Men's furnishings	55	4	58	38	92	ì
Millinery	89		81	19	93	i
Millinery Shirts and collars	96	2	85	13	97	7
on and steel and their products, not in-				40	00	
luding machinery	1,130	2	50	48	87	
Bolts, nuts, washers, and rivets	68 41	20	43 17	57 63	84 67	
Cast-iron pipe Cutlery (not including silver and plated cut-	41		17	03	07	
lary) and adre tools	113	1	36	63	84	
lery) and edge tools Forgings, iron and steel	41	1 1	29	71	83	
Hardware	77		61	39	90	
Iron and steel	133	8	67	25	93	
Plumbers' supplies	56		34	66	80	
Steam and hot-water heating apparatus and		}				
steam fittings	87	5	41	54	81	
Stoves	144	<b></b>	64	36	92	
Structural and ornamental metal work	158	2	69	29	95	
Tin cans and other tinware	55		51	49	89	
Tools (not including edge tools, machine tools,		} .				
files, and saws)	108 49	1	29 41	70 59	81 86	
	10					
achinery, not including transportation quipment	1, 491	1	62	37	91	
Agricultural implements	46		80	20	97	
Cash registers, adding machines, and calcula-			- 1	-		
ting machines	25	4	44	52	89	
Electrical machinery, apparatus, and supplies.	242		69	31	95	1
Engines, turbines, tractors, and water wheels.	71	1	34	65	80	'
Foundry and machine-shop products	901	1	62	37	90	'
Machine tools	124	1	58	41	88	

Table 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN OCTOBER 1933—Continued

	Establi repor	shments ting—		t of es- iments ting—	Average full tim by—	percent of ne reported
Industry	Total num- ber	Per- cent idle	Full time	Part time	All operating establishments	Estab- lish- ments operating part time
Machinery—Continued. Radios and phonographs Textile machinery and parts. Typewriters and supplies.	38 37		87 54	13 46	98 91	82
	7		71	29	97	91
Nonferrous metals and their products Aluminum manufactures Brass, bronze, and copper products	529 22 187	1 1	<b>49</b> 36 56	<b>50</b> 64 <b>4</b> 3	88 85 89	77 77 76 78 81 74 71 75
Clocks and watches and time-recording devices. Jewelry	20 110	3	15 30	85 67	81 87	78 81
Lighting equipmentSilverware and plated ware	43 48	2	30 42	70 56	82 84	74 71
Smelting and refining—copper, lead, and zinc- Stamped and enameled ware	24 75	4	79 80	17 20	96 95	75 77
Transportation equipment	327 25	2	72 72	27 28	<b>95</b> 95	76
Automobiles	163		83	17	98	82 72 74
Cars, electric and steam railroad Locomotives Shipbuilding	39 7	8	13 29	79 71	78 77	67
Snipbuilding	93 718	(1)	80 <b>47</b>	18 <b>53</b>	98 90	88 81
Electric railroad Steam railroad	297 421	(1)	74 28	26 72	96 86	84 81
Lumber and allied products Furniture	1, <b>271</b> 393	1 1	<b>73</b> 85	<b>25</b> 13	<b>94</b> 97	<b>76</b> 76
Lumber: Millwork	375	2	67	31	93	79
Sawmills. Turpentine and rosin.	483 20	1 10	71 20	29 70	92 84	74 80
Stone, clay, and glass products	764	12	59	29	91	74
Brick, tile, and terra cotta	230 88	21 19	60 63	19 18	92 90	67 58
Glass Marble, granite, slate, and other products	151 193	3 9	82 26	15 64	97 84	83
Pottery	102	3	81	16	95	77 70
Leather and its manufactures	413 284	2 2	84 82	14	96	71
Boots and shoesLeather	129	1	88	16 11	95 97	70 77
Paper and printing Boxes, paper	1, <b>701</b> 272	(1)	80 78	20 22	<b>96</b> 95	78 78
Paper and pulp Printing and publishing:	334	1	67	32	92	76
Book and job	688 407	(1)	83 86	16 14	96 98	75 88
Chemicals and allied products	845	1	69	30	94	80
Cottonseed oil, cake, and meal	69 66	1 1	90 80	9 20	99 93	86 65
Druggists' proporations	28		50	50	90	81 81
Explosives	14 161	<sub>1</sub>	29 97	$^{71}_{2}$	86 100	81 80
Paints and varnishes	308	1	49	50	90	81
Petroleum refining Rayon and allied products Soap	98 14	2	90 93	8 7	99 99	91 80
Soap	87		53	47	91	80
Rubber products Rubber boots and shoes	125 9		<b>44</b> 89	<b>56</b> 11	87 99	7 <b>6</b> 90
Rubber goods, other than boots, shoes, tires, and inner tubes	85		31	69	84	77
Rubber tires and inner tubes	31		68	32	92	74
Tobacco manufactures	209 28	6 4	<b>54</b> 50	<b>40</b> 46	89 89	75 76
Cigars and cigarettes	181	7	55	39	89	74
Total, 89 Industries	14, 883	2	70	28	93	76

<sup>1</sup> Less than one half of 1 percent.

### Employment in Nonmanufacturing Industries in October 1933

MPLOYMENT increased in October as compared with September 1933 in 10 of the 15 nonmanufacturing industries appearing in the following table, and increased pay-roll totals were reported in 12 of these 15 industries. Data for the building-construction industry are not presented here but are shown in more detail under the section "Building construction."

The estimated gains in employment in 10 of these 15 nonmanufacturing industries more than offset the declines in the remaining 5 industries. Reports from retail-trade establishments indicate an estimated gain of approximately 117,000 workers in that industry

between September and October.

The wholesale-trade industry showed an increase of approximately 13,000 workers and the crude-petroleum-producing industry reported an estimated expansion of approximately 7,000 workers over the month interval. Employment gains in the power and light group were estimated at 6,000. The number returned to employment in the telephone and telegraph, electric-railroad, anthracite-mining, metalliferous-mining, and quarrying and nonmetallic-mining industries was smaller.

The decrease of 28.1 percent in the canning and preserving industry represents an estimated drop of over 55,000 employees between September and October. This decrease, of course, is expected following the peak month of September. The bituminous-coal-mining industry, due largely to strikes in certain localities, also reported a sharp decline. The decreases in number of workers in the remaining three industries (hotels, laundries, and dyeing and cleaning) were much

less pronounced.

The crude-petroleum-producing industry reported the largest percentage gains in both items, 6.7 percent in employment and 12.8 percent in pay rolls. The metalliferous-mining industry reported an increase of 4.6 percent in employment over the month interval, and retail-trade establishments showed a gain of 4.2 percent. The power and light industry reported an increase of 2.4 percent in number of workers between September and October, wholesale-trade establishments reported a gain of 1.7 percent, electric-railroad and motor-bus operation showed an increase of 1.4 percent, and the quarrying and nonmetallic-mining industry reported a gain of 1.1 percent. The increases in employment in the remaining four industries in which increased employment was reported were as follows: Telephone and telegraph, 0.5 percent; banks, brokerage, insurance, real estate, 0.4 percent; and anthracite mining, 0.2 percent.

In the five industries in which decreased employment was reported over the month interval, the most pronounced decline was a seasonal decrease of 28.1 percent in the canning and preserving industry, which reached its peak of employment in September and regularly shows a sharp decline in October. Employment in the bituminous-coalmining industry was affected by strikes in various localities, the industry reporting a decline of 5.3 percent. Increased earnings, however, in a large number of mines not affected by the labor disturbances resulted in a net decline of only one tenth of 1 percent in weekly pay rolls over the month interval. The hotel industry reported a falling off of 2.1 percent in employment in October due entirely to the closing

of seasonal resort hotels, which were open during the first half of September and were closed in October. The laundry industry reported 1.6 percent fewer employees in October than in September, and the dyeing and cleaning industry reported a decrease of 0.3 percent.

With the exception of 3 industries (telephone and telegraph, electricrailroad and motor-bus operation, and anthracite mining), each of these 15 nonmanufacturing industries reported more employees on

their pay rolls in October 1933 than in October 1932.

In the following table are presented employment and pay-roll data for the nonmanufacturing industries surveyed, exclusive of building construction:

Table 1.—COMPARISON OF EMPLOYMENT AND PAY ROLLS IN NONMANUFACTUR-ING ESTABLISHMENTS IN OCTOBER 1933 WITH SEPTEMBER 1933 AND OCTOBER

•	Estab-	Em	ploymen	t	Pay-ro	ll totals			num-
	lish- ments report- ing in	Number	Perce chai		A	Perce char			verage
Industrial group	both Sep- tember and Oc- tober 1933	on pay roll Oc-	Sep- tember to Octo- ber 1933	Octo- ber 1932 to Octo- ber 1933	Amount of pay roll (1 week) October 1933	Sep- tember to Octo- ber 1933	Octo- tober 1932 to Octo- ber 1933	Em- ploy- ment	Pay- roll totals
Garl minima.									
Coal mining:	150	77 022	1	11.0	80 AEA 00E	112	7.0	FP 0	01.0
Anthracite	159	77, 833	+0.2	-11.0	\$2, 450, 825	+1.5	-7.6	56. 9	61.6
Bituminous	1, 514	210, 835	-5.3	+1.5	3, 514, 092	1	+16.7	68. 0	44.1
Metalliferous mining	297	27, 974	+4.6	+33.4	573, 642	+8.5	+43.9	40.7	25. 9
Quarrying and nonmetallic				1					
mining	1, 202	36, 894	+1.1	+1.5	566, 803	+6.4	+3.7	53. 2	31. 2
rude petroleum producing	260	29,053	+6.7	+24.3	804, 187	+12.8	+17.9	70.6	50. 1
Public utilities:	l								
Telephone and telegraph.	8, 294	246, 416	+.5	-9.8	6, 504, 292	+3.8	-11.5	68.7	67.0
Power and light	3, 132	204, 268	+2.4	+2.9	5, 978, 638	+6.1	+2.4	82. 2	76. 2
Electric-railroad and	i	ı		!	i	i	1	l	
motor-bus operation							l	1	
and maintenance	557	133, 244	+1.4	-2.4	3, 601, 938	+3.6	-2.8	70.6	59.8
Trade:	l						1		
Wholesale	3, 039	91, 276	+1.7	+7.3	2, 447, 059	+6.0	+3.3	83. 5	66.0
Retail	18, 588	437, 841	+4.2	+10.2	8, 597, 146	+4.4	十7.7	89.6	72.3
Hotels (cash payments only)1_		140, 128	-2.1	+2.1	1,790,048	+1.0	-4.1	77.0	56. 2
Canning and preserving	888	96, 778	-28.1	+55.7	1,044,743	-31.4	+68.1	126.3	87.1
Laundries	965	57, 152	-1.6	+.6	863, 414	-1.5	-2.5	78.0	59.7
Dyeing and cleaning	377	11, 863	3	十7.4	208,481	+.5	+3.1	88.4	60. <b>6</b>
Banks, brokerage, insurance,				l	l		l	1	
and real estate	4, 569	178, 777	3+.4	2+.8	5, 790, 015	3 +. 2	2-1.9	2 99. 4	2 84.7
	ļ	l	[		I	I	i .	l	l

<sup>&</sup>lt;sup>1</sup> The additional value of board, room, and tips cannot be computed. 
<sup>8</sup> Weighted.

Per capita weekly earnings in October 1933 for 15 nonmanufacturing industries included in the Bureau's monthly trend-of-employment survey, together with the percents of change in October 1933 as compared with September 1933 and October 1932, are given in the These per capita weekly earnings must not be confused with full-time weekly rates of wages; they are per capita weekly earnings computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers).

TABLE 2.—PER CAPITA WEEKLY EARNINGS IN 15 NONMANUFACTURING INDUSTRIES IN OCTOBER 1933 AND COMPARISON WITH SEPTEMBER 1933 AND OCTOBER 1932

Industrial group	Per capita weekly		of change r 1933 com- with—
	earnings in Octo- ber 1933	Septem- ber 1933	October 1932
Coal mining:     Anthracite     Bituminous Metalliferous mining Quarrying and nonmetallic mining Crude-petroleum producing Public utilities: Telephone and telegraph Power and light Electric-railroad and motor-bus operation and maintenance Trade: Wholesale Retail Hotels (cash payments only)¹ Canning and preserving Laundries Dyeing and cleaning Banks, brokerage, insurance, and real estate	16. 67 20. 51 15. 36 27. 68 26. 40 29. 27 27. 03 26. 81 19. 64 12. 77 10. 80 15. 11 17. 57	+1.3 +5.5 +3.8 +5.2 +5.8 +3.3 +3.6 +2.2 +4.3 +3.3 +3.4 +1.1 +1.1 +1.1 +1.2	+3.7 +15.1 +7.8 +2.1 -5.1 -1.8 4 5 -3.8 -2.2 -6.0 +8.0 -3.2 -3.2 -2.2 -2.2

<sup>&</sup>lt;sup>1</sup> The additional value of board, room, and tips cannot be computed.

### Indexes of Employment and Pay-Roll Totals for Nonmanufacturing Industries

INDEX numbers of employment and pay-roll totals for 15 non-manufacturing industries are presented in the following table. These index numbers show the variation in employment and pay rolls by months, from January 1930 to October 1933, in all nonmanufacturing industries with the exception of the laundry, dyeing and cleaning, and the banks, brokerage, insurance, and real-estate industries for which information over the entire period is not available. The Bureau has secured data concerning employment and pay rolls for the index base year 1929 from establishments in these industries and has computed index numbers for those months for which data are available from the Bureau's files. These indexes are shown in this tabulation.

<sup>2</sup> Weighted

TABLE 3.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR NONMANUFACTURING INDUSTRIES, JANUARY TO DECEMBER 1930, 1931, AND 1932, AND JANUARY TO OCTOBER 1933

[12-month average, 1929=100]

02. 1 90. 6 16. 9 89. 5 22. 6 82. 0 34. 1 85. 2 33. 8 80. 3 10. 6 65. 1 11. 6 65. 1 23. 8 80. 0 24. 1 85. 2 25. 2 26. 82. 0 26. 7. 3 27. 2 83. 5 28. 1 79. 8 29. 1 79. 8 29. 3. 4 80. 5	76. 2 52. 57. 71. 2 58. 7 77. 2 58. 7 77. 7 54. 66. 9 43. 2 53. 0 39. 56. 9 62. 7	1930 1931  105. 8 89. 3 121. 5 101. 9 78. 5 75. 2 98. 8 76. 1 94. 3 66. 7 84. 0 53. 7 84. 0 53. 7 84. 0 53. 7 84. 9 53. 7 85. 0 7 85. 0 7 86. 0 7 87. 8 5 6. 4 91. 6 64. 9 107. 2 91. 1 98. 0 79. 5 100. 0 78. 4 95. 3 75. 4  95. 3 75. 4	61. 5 43. 2 57. 3 56. 8 61. 2 48. 8	1930 1931 102.5 93.9 102.4 91.1 98.6 88.9 94.4 85.9 90.4 82. 88.0 76. 89.2 77.0 90.5 80. 91.8 81. 92.5 81.	80. 8 69. 8 5 77. 4 69. 3 6 75. 2 67. 6 65. 5 63. 7 62. 6 61. 2 60. 5 61. 3 58. 6 63. 2 59. 4 68. 6 60. 4 71. 8 60. 4 60. 4 70. 0	1930 1931 101. 4 73. 3 102. 1 68. 3 86. 4 65. 2 81. 7 58. 6 77. 5 54. 4 75. 6 52. 4 671. 1 50. 6 79. 4 56. 2 79. 1 54. 6 77. 7 52. 3 81. 3 57. 5	47. 0 36. 1 47. 0 37. 2 46. 8 30. 7 33. 9 26. 6 30. 7 26. 9 27. 3 29. 2 24. 4 33. 6 26. 4 43. 3 30. 2 44. 1 37. 8 44. 1 37. 7 38. 0 37. 7
02. 1 90. 6 06. 9 89. 5 04. 1 85. 2 03. 8 80. 3 00. 8; 76. 1 01. 6 65. 1 03. 2 67. 3 03. 8 80. 0 04. 1 79. 8 05. 2 67. 3 07. 2 67. 3 07. 2 83. 5 09. 1 79. 8 03. 4 80. 5	76. 2 52. 5 71. 2 52. 6 70. 1 51. 6 653. 0 39. 544. 5 43. 8 49. 2 47. 755. 8 56. 8 63. 9 7 62. 3 62. 5 50. 5 Metallifere	105. 8 89. 3 121. 5 101. 9 78. 5 71. 3 75. 0 75. 2 98. 8 76. 1 94. 3 66. 7 84. 0 53. 7 78. 8 56. 4 91. 6 64. 9 117. 2 91. 1 98. 0 79. 5 100. 0 78. 4 95. 3 75. 4	61. 5 43. 2 57. 3 56. 8 61. 2 48. 8 72. 0 37. 4 58. 0 30. 0 37. 4 34. 3 34. 5 38. 2 41. 4 46. 6 6. 7 61. 0 56. 2 56. 2	102. 5 93. 9 102. 4 91. 98. 6 88. 8 94. 4 85. 9 90. 4 85. 6 88. 4 78. 8 88. 0 76. 8 88. 0 76. 8 89. 2 77. 6 90. 5 80. 9 91. 8 81. 92. 5 81. 92. 5 81. 92. 5 81. 93. 4	80. 8 69. 8 6 77. 4 69. 3 75. 2 67. 6 65. 5 63. 7 62. 6 61. 3 1 58. 6 63. 2 59. 4 68. 6 62. 4 71. 8 67. 0 68. 0 69. 4 2 70. 0	101. 4 73. 3 102. 1 68. 3 86. 4 65. 2 81. 7 58. 6 77. 5 54. 4 68. 9 50. 4 71. 1 50. 6 74. 9 53. 6 79. 4 56. 2 79. 1 5. 6 77. 7 52. 3	47. 0 36. 1 47. 0 37. 2 46. 8 30. 7 33. 9 26. 6 30. 7 26. 9 27. 3 29. 2 24. 4 33. 6 26. 4 43. 3 30. 2 44. 1 37. 8 44. 1 37. 7 38. 0 37. 7
93. 4 80. 5	71. 2 58. 7 70. 1 51. 6 66. 9 43. 2 53. 0 39. 5 44. 5 43. 8 49. 2 47. 55. 8 56. 8 62. 7 62. 3 62. 5 5 50. 5 Metallifero 49. 3 32. 4 46. 9 31. 5	78. 5 71. 3 75. 0 75. 2 98. 8 76. 1 94. 3 66. 7 78. 8 56. 4 91. 6 64. 9 117. 2 91. 1 98. 0 79. 5 100. 0 78. 4 95. 3 75. 4	61. 2 48. 8 72. 0 37. 4 58. 0 30. 0 37. 4 34. 3 34. 5 38. 2 41. 4 46. 6 47. 0 60. 7 66. 7 61. 6 56. 2	102. 4 91. 4 98. 6 88. 6 88. 6 88. 2 90. 4 82. 4 88. 0 76. 4 89. 2 77. 90. 5 80. 91. 8 81. 92. 5 81. 92. 5 81.	5 77. 4 69. 3 75. 2 67. 6 9 65. 5 63. 7 4 62. 6 61. 2 60. 5 61. 3 4 58. 6 63. 2 9 59. 4 68. 6 62. 4 71. 8 60. 4 60. 4 70. 0 60. 4 60. 5	102. 1 68. 3 86. 4 65. 2 81. 7 58. 6 77. 5 54. 4 75. 6 52. 4 68. 9 50. 6 71. 1 50. 6 74. 9 53. 6 79. 4 56. 2 79. 1 54. 6 77. 7 52. 3	47. 0 37. 2   46. 8 30. 7   33. 9 26. 6   30. 7 26. 9   27. 3 29. 2   24. 4 33. 6   26. 4 43. 3   37. 8 44. 1   37. 8 44. 1   37. 8 45. 2
	49. 3 32. 4 46. 9 31. 5 45. 0 30. 0	92. 7 55. 0		Quarr	ying and no	nmetallic :	mining
95. 7 68. 3 92. 3 65. 3 90. 9 63. 5 89. 3 63. 9	46.9 31.5 45.0 30.0					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
34. 6 60. 0 30. 5 56. 2 79. 0 55. 8 78. 1 55. 5 77. 2 53. 8 72. 8 52. 8	43. 3 29. 4 38. 3 30. 0 32. 2 31. 5 29. 5 33. 0 28. 6 36. 8 29. 3 38. 9 30. 5 40. 7 31. 9	92. 5 54. 6 90. 8 52. 8 88. 3 51. 4 85. 6 49. 3 81. 6 46. 1 71. 9 41. 3 71. 0 40. 2 69. 9 40. 0	27. 8 17. 8 26. 5 17. 4 25. 0 16. 4 23. 8 17. 0 20. 1 18. 3 16. 9 19. 0 16. 5 21. 9 17. 0 23. 9 18. 0 25. 9 18. 7	79. 8 66. 83. 0 70. 6 87. 4 76. 90. 8 75. 90. 3 72. 89. 9 71. 89. 3 68. 87. 7 66. 84. 7 64.	48. 6 39. 3 50. 6 43. 4 3 49. 5 47. 3 0 49. 5 49. 5 51. 1 51. 6 52. 4 52. 6 55. 24 53. 2 49. 4	73. 5 54. 4 80. 0 58. 2 68. 4 62. 6 8 85. 5 57. 6 85. 5 57. 2 79. 3 48. 7 66. 8 43. 8	29. 6 17. 4 2 28. 7 17. 8 3 30. 0 20. 2 3 32. 3 23. 8 3 30. 0 27. 5 3 29. 1 28. 4 1 29. 7 29. 9 2 30. 5 29. 3 7 30. 1 31. 2 3 27. 1
	36. 5 1 33. 4	78. 0 44. 8	21. 6 1 19. 6	84. 3 67.	4 49. 0 44. 2	79. 3 53. 4	29. 1 24. 4
Cru	ide-petrole	um produc	ing	ļ <del></del> ,	relephone a	nd telegrar	<u> </u>
92. 7 74. 8 90. 8 73. 2 90. 8 73. 2 96. 8 69. 8 89. 8 67. 8 90. 2 65. 0 89. 9 65. 3 87. 7 62. 4 85. 2 60. 1 85. 2 60. 4 83. 6 57. 6 77. 4 58. 2 87. 4 65. 7	57. 4 60. 8 56. 2 66. 2 56. 8 70. 6 56. 5 57. 2	91. 3 73. 2 86. 6 66. 3 85. 4 64. 7 87. 1 62. 7 88. 5 59. 2 86. 0 56. 3 84. 0 55. 2 82. 6 54. 4 80. 0 52. 0 77. 2 54. 9	44. 8 40. 6 44. 6 42. 2 42. 9 42. 5 41. 9 44. 4 42. 5 50. 1 42. 4 41. 7	99. 8 86. 100. 0 86. 98. 8 85. 96. 8 85. 94. 5 84. 93. 0 83. 91. 6 83.	6 81. 7 73. 2 1 81. 2 72. 3 4 80. 6 70. 1 9 79. 9 69. 2 6 79. 1 68. 5 9 78. 1 68. 1 0 77. 4 68. 3 1 76. 2 68. 7 5 75. 5 1 74. 8	101. 3 92.	88 89 6 71. 9 9 88. 2 71. 6 9 88. 2 71. 6 1 82. 8 68. 5 0 82. 1 66. 6 3 79. 6 66. 7 1 75. 9 64. 6 6 75. 7 67. 0 7 74. 3
51. 4 00. 1	33. 3 - 00. 0	35, 5 01. 1	14. 1 12. 0		<u> </u>	<u> </u>	
		and light		Electric-			s operation
99. 6 99. 2 98. 8 97. 8 99. 7 96. 7	89. 3 77. 7 87. 2 77. 4 85. 5 76. 9 84. 8 76. 9 84. 0 76. 9 83. 2 77. 3 82. 3 77. 5 81. 5 78. 1 81. 0 80. 3	100. 4 99. 7 102. 1 102. 4 102. 6 97. 6 104. 5 98. 7 107. 8 98. 3 106. 7 97. 4 106. 6 96. 2 106. 1 94. 3 2105. 6 93. 3	86. 0 71. 6 85. 4 71. 6 82. 4 69. 9 84. 2 69. 9 80. 5 69. 9 78. 7 70. 6 76. 7 71. 8 74. 4 76. 2 73. 2	\$ 95. 1 86. 9 94. 4 86. 9 95. 2 86. 9 95. 2 85. 9 94. 8 85. 9 92. 9 84. 8 91. 8 84. 9 1. 0 82. 8 9. 3 81. 8 8. 8 79.	6 78.9 70.4 4 77.6 69.8 8 78.0 69.8 9 76.9 69.1 3 76.5 69.3 6 75.6 69.3 0 73.5 69.7 7 72.3 70.6 9 71.4	4 95. 7 87. 8 95. 4 88. 1 96. 0 85. 3 97. 0 84. 4 95. 6 83. 7 90. 5 81. 6 88. 9 79. 87. 7 79.	1 74.8 60.6 1 73.6 59.4 6 71.8 58.1 1 72.2 58.2 8 70.2 58.0 3 66.4 57.4 9 63.8 58.2 2 62.5 57.8 0 61.5 59.8 7 61.7
87.	4 65. 7	4 65. 7 55. 3 160. 0	Power and light  Power and light  8 99.2 89.3 77.7 99.7 98.6 8 97.8 87.2 77.4 100.4 99.7 7 96.7 85.5 76.9 102.4 102.4 102.4 7 97.1 84.8 76.9 102.6 97.6 97.2 83.2 77.3 107.8 98.7 6 97.2 83.2 77.5 106.7 89.8 9 96.7 82.3 77.5 106.7 99.4 4 95.9 81.5 78.1 106.6 96.2 2 94.7 81.0 80.3 106.1 94.3 8 92.7 79.9 82.2 105.6 93.2 8 92.7 79.9 82.2 105.6 93.2 94.7 81.0 80.3 106.1 94.3 8 92.7 79.9 82.2 105.6 93.2 94.7 81.0 80.3 106.1 94.3 8 92.7 79.9 82.2 105.6 93.2 94.7 81.0 80.3 106.1 94.3 8 92.7 79.9 82.2 105.6 39.2	Power and light  Power and light  8 99. 2 89. 3 77. 7 99. 7 98. 6 88. 4 73. 6 8 97. 8 87. 2 77. 4 100. 4 99. 7 86. 0 71. 6 7 96. 7 85. 5 7 6. 9 102. 1 102. 4 85. 4 71. 6 97. 1 84. 8 76. 9 102. 6 97. 6 82. 4 69. 4 97. 6 84. 0 76. 9 104. 5 98. 7 84. 2 69. 6 97. 2 83. 2 77. 3 107. 8 98. 3 80. 5 69. 6 99. 2 83. 2 77. 5 106. 7 97. 4 78. 7 70. 6 4 95. 9 81. 5 78. 1 106. 6 96. 2 76. 7 70. 9 82. 3 77. 5 106. 7 97. 4 78. 7 70. 6 95. 9 87. 9 88. 1 5 78. 1 106. 6 96. 2 76. 7 70. 6 98. 4 95. 9 81. 5 78. 1 106. 6 96. 2 76. 7 70. 6 99. 9 82. 2 105. 6 93. 2 74. 4 76. 2 94. 7 81. 0 80. 3 106. 1 94. 3 74. 7 71. 8 91. 3 79. 1 103. 7 93. 3 73. 2 106. 3 91. 2 73. 2 106.	Power and light  Power and light  Electric-  16 99.2 89.3 77. 7 99. 7 98.6 88.4 73.0 97.1 86.  8 97.8 87.2 77. 4 100. 4 99. 7 86.0 71.6 95.1 86.  7 97.1 84.8 76.9 102. 1 102. 4 85. 4 71.9 94. 4 86.  9 7.1 84.8 76.9 102. 6 97.6 82.4 69.4 95.2 86.  9 7.1 84.8 76.9 102. 6 97.6 82.4 69.4 95.2 86.  9 7.2 83.2 77.3 107.8 98.3 80.5 69.9 95.2 85.  9 96.7 82.3 77.5 106.7 97.4 78.7 70.0 95.3 85.  4 95.9 81.5 78.1 106.6 96.2 76.7 70.9 92.9 84.  9 94.7 81.0 80.3 106.1 94.3 74.7 71.8 91.8 84.  92.7 79.9 82.2 105.6 93.2 74.4 76.2 91.0 82.  4 91.3 79.1	Power and light    Electric-railroad and and mail mail mail mail mail mail mail mail	Power and light Electric-railroad and motor-bus and maintenance <sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Average for 10 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 3.—INDEXES OF EMPLOYMENT AND PAY ROLLS FOR **NONMANUFACTURING** INDUSTRIES, JANUARY TO DECEMBER 1930, 1931, AND 1932, AND JANUARY TO OCTOBER 1933—Continued

[12-month average, 1929=100]

January 10 February 9 March 9 April 9 May 9 June 9 July 9	1930	mplo	ymen	holesa	le tra						]	Retail	trade	,		
January 10 February 9 March 9 April 9 May 9 June 9	1930		· .	t					Retail trade							
January 10 February 9 March 9 April 9 May 9 June 9	00. 0	1931	1932			Pay	rolls		Е	mplo	ymen	t		Pay	rolls	
March 9 April 9 May 9	00. 0 98. 5	,		1933	1930	1931	1932	1933	1930	1931	1932	1933	1930	1931	1932	1933
November 9	97. 7 97. 3 96. 8 96. 5 96. 0 95. 0 94. 2 92. 6 92. 0	89. 5 88. 2 87. 4 87. 4 87. 1 86. 8 86. 5 86. 1 85. 2 84. 1 83. 7	76. 4 77. 1 77. 8 77. 6 77. 0	74. 1 73. 1 73. 3 74. 0 75. 7 76. 9 79. 7 82. 1 83. 5	99. 7 97. 9 97. 4 98. 6 96. 0 93. 6 92. 9 91. 0 91. 3	83. 3 82. 1 81. 4 79. 9 79. 7	63. 3 62. 6	58. 6 57. 1 56. 0 57. 4 57. 3 59. 1 60. 8 62. 3 66. 0	93. 9 97. 3 96. 7 93. 9 89. 0 85. 6 92. 0 95. 5 98. 4 115. 1	87. 1 87. 8 90. 1 89. 9 81. 8 86. 6 89. 8	81. 6 80. 9 79. 4 74. 6 72. 6 77. 8 81. 3 81. 7 95. 2		96. 0 95. 5 97. 5 97. 3 96. 8 91. 7 87. 6	89. 4 86. 7 87. 5 88. 3 88. 0 87. 6 83. 3 80. 3 80. 3 84. 6 85. 4 94. 1	67. 1 66. 9 73. 6	
-			i	Ho	tels		i		Canning and preserving							
June         9           July         10           August         16           September         10           October         9           November         9           December         9	02. 4 02. 4 00. 1 98. 0 98. 0 01. 3 01. 5 00. 1 97. 5 95. 2	95. 0 96. 8 96. 8 95. 9 92. 5 91. 6 93. 3 92. 8 90. 6 87. 4 84. 9 83. 1	84. 3 84. 0 82. 7 80. 1 78. 0 77. 6 77. 0 75. 4 74. 3 73. 2	73. 8 72. 4 71. 9 71. 9 73. 6 75. 6 77. 1 78. 7 77. 0	98. 1 99. 8 98. 6 97. 1 95. 5 93. 6 91. 5	93. 4 89. 9 87. 7 85. 4 85. 2 83. 8 81. 9 79. 7 77. 1 75. 4	73. 9 72. 4 69. 6 67. 0 63. 8 61. 8 59. 6 59. 1 58. 6 57. 5 56. 6	51. 7 51. 8 52. 3 53. 3 54. 0 55. 6 56. 2	49.7 74.8 65.7	48. 3 53. 0 59. 6 56. 0 70. 6 102. 2 142. 9 180. 1 108. 1 60. 8 40. 7	37. 1 36. 3 47. 0 40. 5 55. 5 73. 0 99. 0 125. 3 81. 1 50. 5 33. 7	35. 1 33. 2 49. 2 45. 5	72. 6 66. 9 81. 5 112. 7 172. 0 214. 8 140. 0 82. 9 57. 4 96. 1	57. 1 56. 0 58. 6 74. 2 104. 7 129. 4 77. 6 48. 1 36. 9	32. 7 31. 9 37. 9 36. 0 40. 5 47. 5 65. 6 75. 1 51. 8 34. 4 25. 6	36. 7 46. 2 68. 3 127. 0 87. 1
			Laur	dries				Dyei	Dyeing and cleaning Banks, brokers insurance, a real estate					rage, and		
-	Emp	ployn	ent	P	ay ro	lls	Em	ployn	nent	P	ay rol	ls	Emp		Pay	rolls
1	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1932	1933	1932	1933
February March 8 April 9 May 9 June 9 July 8 August 9 September 0 October 8 November 8 December 8	90.0	82. 9 82. 0 81. 4 81. 0 80. 3 78. 9 78. 6 77. 5 76. 2	74. 4 73. 0 73. 4 73. 5 76. 0 76. 3 77. 9 79. 3 78. 0	85. 6 86. 8 86. 5 87. 1 87. 4 84. 6 84. 1	73. 3 71. 6 71. 4 70. 6 68. 6 66. 3 63. 9 61. 2 59. 1 58. 7	55, 5 52, 9 54, 0 54, 5 56, 7 56, 1 67, 6 60, 6 59, 7	88. 0 95. 7 96. 7 99. 0 98. 6 93. 5 94. 2 90. 1 84. 9	80. 5 80. 6 83. 3 84. 5 85. 1 82. 4 79. 5 83. 3 82. 3 78. 0 75. 2	71. 2 81. 1 82. 0 85. 6 82. 9 83. 1 88. 6 88. 4	75. 1 75. 6 86. 3 86. 6 89. 1 86. 2 80. 0 82. 6 81. 4 74. 7 67. 9	62. 2 61. 7 65. 9 67. 3 65. 8 60. 0 56. 3 61. 0 58. 8 52. 3 48. 4	42. 4 41. 0 54. 6 53. 9 56. 7 52. 8 60. 3 60. 6	98. 3 98. 9 98. 6 98. 0 97. 9 98. 4 98. 5 98. 6 98. 0 98. 0	96. 5 96. 2 96. 2 97. 3 97. 7 98. 3 99. 0 99. 4	93. 0 92. 9 92. 1 92. 7 90. 0 89. 8 88. 2 87. 1 86. 3 85. 7 85. 5	

<sup>&</sup>lt;sup>1</sup> Average for 10 months.

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

IN THE following tables the Bureau presents a tabulation of manhours worked per week and average hourly earnings based on reports supplied by identical establishments in September and October 1933 in 15 industrial groups and 78 separate manufacturing industries. Man-hour data for the building-construction group and for the insurance, real estate, banking, and brokerage group are not available, and data for several of the 89 manufacturing industries surveyed monthly are omitted from these tables due to lack of adequate information.

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

establishments supplying monthly employment data.

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

the plant operating time.

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

In presenting information for the separate manufacturing industries shown in table 2, data are published for only those industries in which the available man-hour information covers 20 percent or more of the total number of employees in the industry at the present time.

Table 1.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN 15 INDUSTRIAL GROUPS, SEPTEMBER AND OCTOBER 1933

Industrial group		hours per ek	Average hourly earnings		
industriai group	Septem- ber 1933	October 1933	Septem- ber 1933	October 1933	
	Hours	Hours	Cents	Cents	
Manufacturing	36.1	35.8	51.6	52, 5	
Coal mining:		00 =			
Anthracite	38.0	38.7	82. 2	81.3	
Bituminous Metalliferous mining	31. 8 39. 0	29. 9 39. 6	50. 2	56. 5	
Quarrying and nonmetallic mining	34.4	34. 9	50.6 42.8	51. 4 44. 3	
Crude-petroleum producing	38.0	35. 5	67. 7	76. 8	
Public utilities:	30.0	30. 0	01.1	70. 6	
Telephone and telegraph	37. 2	37. 6	69. 5	71. 0	
Power and light.	42.8	43. 1	66.0	67. 6	
Electric-railroad and motor-bus operation and maintenance	45.3	45.5	57. 5	58.9	
Trade:				1	
Wholesale	42.8	43. 4	57. 5	59. 9	
Retail	39.5	39. 5	49.5	49. 6	
Hotels	50. 2	50. 2	23.7	24. 2	
Canning and preserving	37.0	34.8	34.1	33.8	
Laundries	39.0	38.6	38.5	39. 1	
Dyeing and cleaning	41.5	41.3	42. 5	43.3	
Average	38. 0	37.8	51.6	52. 5	

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 with the per capita weekly earnings appearing elsewhere in this trend-of-employment compilation, which are obtained by dividing the total weekly earnings in all establishments reporting by the total number of employees in those establishments. As already noted, the basic information upon which the average weekly man-hours and average hourly earnings are computed covers approximately 50 percent of the establishments reporting monthly employment data.

Table 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN SELECTED MANUFACTURING INDUSTRIES, SEPTEMBER AND OCTOBER 1933

		hours per		hourly
Industry			ļ	
•	Septem- ber 1933	October 1933	Septem- ber 1933	October 1933
Food and kindred products:	Hours	Hours	Cents	Cents
Baking	41.1	40.9	50.3	50.6
Beverages	41.0	38.6	67.6	69. 1
Confectionery	37.6	36.0	38.8	39.8
Flour	38. 3	39. 1 43. 5	52, 1 54, 0	51.7
Ice cream	45. 7 40. 0	39. 7	49.9	57. 6 49. 9
Sugar, beet	48.0	51.6	43.9	49. 9 38. <b>1</b>
Sugar refining, cane	38.5	35. 0	51.4	56. 2
Textiles and their products:	00.0	55.0	01. 1	50. 2
Fabrics:			i	
Carpets and rugs	37.1	37.9	50.4	50, 5
Cotton goods		35. 4	36. 5	36. 9
Cotton small wares Dyeing and finishing textiles	37.0	36. 5	42.7	43.8
Dyeing and finishing textiles	35. 2	36. 6	49.9	50.0
Knit goods	36.0	36.7	45.0	45, 4
Silk and rayon goods	34.1	35. 1	42.9	42.7
Woolen and worsted goods	37. 3	34.9	48.0	49. 5
Iron and steel and their products, not including machinery:	24.0	99.0	49.0	
Bolts, nuts, washers, and rivets	34.0 28.3	33.8 25.0	49. 0 45. 9	50. 1 49. 9
Cast-iron pipe Cutlery (not including silver and plated cutlery) and edge	20.0	20.0	40.9	49.9
tools.	37.6	37. 0	50.0	50.7
Forgings, iron and steel	32.6	34. 6	56.8	58.1
Hardware	34. 3	35. 1	50.6	47. 6
Iron and steel	33.8	33. 4	57.0	59. 4
Plumbers' supplies. Steam and hot-water heating apparatus and steam fittings.	34.6	31.8	49. 2	51, 1
Steam and hot-water heating apparatus and steam fittings	33.0	32. 4	54.3	55. 0
Stoves	35.9	37. 7	50.7	51. 7
Structural and ornamental metalwork	33.6	34.3	52.1	54.1
Tin cans and other tinware	40.4	36. 7	46. 4	49.8
Tools (not including edge tools, machine tools, files, and	35, 5	35. 0	50. 6	F1 0
saws) Wirework	36.7	34. 9	52.0	51. 6 55. 4
Machinery, not including transportation equipment:	00.7	01. 0	02.0	JJ. 4
Agricultural implements.	34. 2	35. 1	50.0	51.3
Cash registers, adding machines, and calculating machines.	38.7	37.8	66.9	69.8
Electrical machinery, apparatus, and supplies		33. 7	58.8	59. 4
Engines, turbines, tractors, and water wheels	34.5	34.8	58.6	59.6
Foundry and machine-shop products	33.8	34. 1	54.7	55.8
Machine tools	35.0	36.0	59. 0	58. 2
Radios and phonographs	34. 1	36.5	49.4	50. 0
Textile machinery and parts	38. 2	37. 2	61.7	64. 0
Typewriters and supplies Nonferrous metals and their products:	37.1	39.0	51. 2	51.0
Nomerous metals and their products;	35. 0	35. 9	47.5	47.9
Aluminum manufactures	36.7	35, 6	52.1	52. 4
Brass, bronze, and copper products	39. 1	41.6	44.3	32. 4 44. 9
Jewelry.	35. 3	38.7	48.9	48.8
Lighting equipment	35.9	36.6	50.7	49.4
Silverware and plated ware	37. 4	40.1	49.9	50. 8
Smelting and refining—copper, lead, and zinc	37.3	36. 3	49. 4	51.1
Stamped and enameled ware.	36.0	37.7	45. 2	

Table 2.—AVERAGE HOURS WORKED PER WEEK PER EMPLOYEE AND AVERAGE HOURLY EARNINGS IN SELECTED MANUFACTURING INDUSTRIES, SEPTEMBER AND OCTOBER 1933—Continued

Industry  Transportation equipment: Afroraft Automobiles		October 1933 Hours	Septem- ber 1933	October 1933
Afreraft	39.1	Lloure		
Afreraft	39.1		Cents	Cents
		37.6	68.9	70.3
	33.6	32. 5	64.6	65.0
Cars, electric and steam railroad		34. 9	60.7	62. 8
Locomotives		31.6	60.4	60.8
Shipbuilding	29.7	30. 3	66.3	67.
Railroad repair shops:	20.1	30. 0	00.0	01.1
Electric railroad	43.1	43. 2	56.5	57. 1
Steam railroad	37.7	40. 5	62.8	63. (
Lumber and allied products:	. 37.1	40. 0	02.0	03.0
Furniture	37.6	38. 0	41.9	42. 1
Lumber:	. 01.0	30,0	41.9	42, 1
Millwork	35.0	34. 2	43.0	44. (
Sawmills		34. 7	41.4	43.5
Stone, clay, and glass products:	. 07.0	04. /	41.4	40, 0
Brick, tile, and terra cotta	32.3	31.1	40.8	40. 9
Cement	31.8	33. 2	52. 2	53. 8
Glass		33. 9	53.6	52.9
Marble granite alete and other products	33.5	34. 5	58.8	60. 1
Marble, granite, slate, and other products Pottery	38.0	39. 8	44.9	44.7
Leather and its manufactures: Leather	37. 9	37.8	48.8	50.
Paper and printing:	07.9	01.0	40.0	50.
Boxes, paper	37.6	36. 8	46.6	46.
		38.7	47.0	48. 3
Paper and pulp	40.0	90.1	47.0	40.6
Printing and publishing: Book and job	35.4	35. 0	72.3	72.3
Newspapers and periodicals	38.1	38. 2	80.1	80.
Chemicals and allied products:	90,1	30. 2	00.1	00.
Chemicals and affect products.	38. 5	39. 3	59, 3	60. 7
Chemicals	41.6	42.7	25.8	26.
Designated proposations	37.9	38. 3	48.3	48.0
Druggists' preparations. Explosives	35.6	35. 4	48.3 59.7	48. 0 60. 1
Fertilizers		35. 7	31.0	35. 8
Paints and varnishes		38. 2	54.1	54. 4
Petroleum refining		35. 7	70. 1	71. 6
Rayon and allied products.		37. 9	46.3	47.
Soap		39. 0	49.6	49.9
Rubber products:	05.4	0 <i>5</i> . 0	10.0	- T. (
Rubber goods, other than boots, shoes, tires, and inner tubes	34.7	35. 6	49, 4	49. (
Rubber tires and inner tubes		30.6	68.1	68.8
Tobacco manufactures:	25.9	30.0	00.1	00,0
Chewing and smoking tobacco and snuff	37. 5	36. 3	37. 0	37. 3
Cigars and cigarettes		38.0	35.4	36. 6

### **Employment in Building Construction in October 1933**

EMPLOYMENT in the building-construction industry increased 0.5 percent in October as compared with September and pay rolls increased 1.9 percent over the month interval.

The percents of change of employment and pay-roll totals in October as compared with September are based on returns made by 11,172 firms engaged on public and private projects not aided by public-works funds. These firms employed in October 92,953 workers in the various trades in the building-construction industry whose combined weekly earnings during the pay period ending nearest October 15 were \$2,022,884. 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 CON-STRUCTION INDUSTRY IN IDENTICAL FIRMS, SEPTEMBER AND OCTOBER 1933

Locality	Num- ber of firms re-	Number	on pay roll	Percent of	Amount	of pay roll	Percent of
Locanty	port- ing	Sept. 15	Oct. 15	change	Sept. 15	Oct. 15	change
Alabama: Birmingham	75	430	383	-10.9	\$6, 283	\$5, 634	-10.3
7 4 1 . 1	21	1,055	1, 140	+8.1	20, 204	22, 617	+11.9
San Francisco-Oakland <sup>1</sup> Other reporting localities <sup>1</sup>	36 22	1, 298 571	953 526	-26.6 $-7.9$	29, 633	19, 904 10, 577	-32.8 $-10.3$
Colorado: Denver	205	612	711	+16. 2	11, 794 11, 268	12, 961	+15.0
Connecticut:	125	500	615			10.070	100
Bridgeport	251	560 1,313	1, 320	+9.8 +.5	11, 391 26, 702	12, 370 28, 516	+8.6 +6.8
New Haven	181	1, 128	1, 118	9	26, 811 19, 290	25, 477	5.0
Hartford. New Haven Delaware: Wilmington District of Columbia	120 520	984 8, 594	943 7, 752	-4.2 -9.8	19, 290 244, 525	19, 125 210, 480	-13.9
CIOFIGA:	320	0, 094	1, 102	-8.0		210, 400	
Jacksonville Miami Georgia: Atlanta	58	531	496	-6.6	9, 028 17, 301	6, 875	-23.8
Miami	84 153	$1,096 \\ 1,172$	1, 129 1, 144	$+3.0 \\ -2.4$	17, 301 17, 172	19, 023 17, 740	+10.0 +3.3
llinois:	100		1, 111	-2. 1	17,172	11,110	70.0
Chicago 1	125	1, 573	1,443	-8.3	48, 531	39, 139	-19.4
Other reporting localities 1indiana:	77	1, 249	1, 476	+18.2	22, 628	30, 181	+33.4
ndiana:  Evansville Fort Wayne Indianapolis South Bend owa: Des Moines Cansas: Wichita Kentucky: Louisville ouisiana: New Orleans Maine: Portland Maryland: Baltimore 1 Massachusetts: All reporting localities 1	55	320	347	+8.4 +6.9	4,760	5, 478	+15.1
Fort Wayne	87	348	372	+6.9	5, 900	6, 757	+14.5
South Rend	164 39	1, 144 206	1, 270 255	$+11.0 \\ +23.8$	22, 321 3, 488	26, 097 5, 681	$^{+16.9}_{+62.9}$
owa: Des Moines	105	587	601	$+2.4 \\ -2.8$	10, 125	10, 542	+4.1
Cansas: Wichita	69	356	346		10, 125 6, 205	5,954	-4.0
Louisvine	155 122	1, 385 1, 272	1, 317 1, 016	-4.9 -20.1	25, 831 19, 807	23, 622 17, 269	-8.6 $-12.8$
Iaine: Portland	101	384	430	+12.0	8, 517 22, 935	9, 693	+13.8
Maryland: Baltimore	105	1, 310	1, 291	-1.5	22, 935	21, 815	-4.9
ties 1	716	4,643	4, 896	+5.4	116,335	114, €94	-1.4
Michigan:							150
DetroitFlint	503 60	4, 699 247	4, 744 257	$^{+1.0}_{+4.0}$	93, 061 4, 661	98, 270 4, 302	+5.6 -7.7
Flint Grand Rapids	110	433	506	+16.9	6, 975	7,822	+12.1
amnesora:	55	278	256	7.0	E 001	4 556	-10.0
Duluth Minneapolis	223	1,615	1,672	$-7.9 \\ +3.5$	5, 061 33, 489	4, 556 35, 404	+5.7
St. Paul	178	1, 269	1,414	+11.4	29, 142	35, 404 30, 502	+5.7 +4.7
Aissouri: Kansas City 2	298	1, 730	1,750	+1.2	36 105	38 506	+6.7
Kansas City <sup>2</sup> St. Louis Jebraska: Omaha	584	3, 183	3,464	$+8.8 \\ +2.6$	36, 105 79, 739 15, 791	38, 506 91, 300 17, 617	+14.5
Vebraska: Omaha Vew York:	153	823	844	+2.6	15, 791	17, 617	+11.6
New York City 1	317	5, 340	5, 799	+8.6	154, 332	176, 668	+14.5
New York City 1 Other reporting localities 1	234	6, 107	5,668	-7.2	154, 332 141, 249	132, 610	-6.1
North Carolina: Charlotte	53	349	340	-2.6	5, 073	5, 566	+9.7
Akron	85	357	396	+10.9	5, 915	7, 736	+30.8
Cleveland	478 621	2, 401 2, 738	2, 385	7 +8.0	54.619	55, 144	+1.0
Akron. Cincinnati s Cleveland Dayton. Youngstown	119	2, 738 598	2, 956 488	-18.4	68, 486 10, 717	80, 803 9, 703	+18.0 -9.5
Youngstown	75	296	333	+12.5	4, 862	5, 608	+15.3
	98	533	657	<b>+23 3</b>	7, 922	10, 455	+32.0
Oklahoma City Tulsa regon: Portland	56	192	240	$^{+23.3}_{+25.0}$	2, 823	3, 502	$^{+32.0}_{+24.1}$
regon: Portland	193	1,091	1, 103	+1.1	2, 823 22, 040	3, 502 23, 514	+6.7
ennsylvania: 4 Erie area 1	28	350	259	-26.0	4, 296	3,006	-30.0
Philadelphia area <sup>1</sup> Pittsburgh area <sup>1</sup> Reading-Lebanon area <sup>1</sup>	478	6, 249	6, 318	+1,1	115, 716	121, 398	+4.9
Pittsburgh area	252	1,965	2, 168	+10.3	47, 507	46.659 t	-18
Scranton area 1	45 38	253 261	304 269	$+20.2 \\ +3.1$	4, 236 5, 909	6, 015	+25.3 +1.8
Scranton area 1  Other reporting areas 1  chode Island: Providence	314	2, 781	2,777	1	45, 878	5, 307 6, 015 53, 638	+16.9
thode Island: Providence	263	1,704	1,972	+15.7	35, 81 <b>3</b>	44,790	+25.1
Chattanooga	38	336	211	-37. 2	5, 486	3, 462	-36.9
Knoxville	49	437	471	+7.8	6, 389	3, 462 7, 051	+10.4
Chattanooga Knoxville Memphis Nashville	78 90	552	1 026	-11.6	9, 331	8, 399	-10.0
Nasnville	90	1, 196	1,026	-14.2	16, 515	14, 969	-9.4
Dallas	184	932	792	-15.0	14,680	12, 583	-14.3
El Paso	32 175	187 1, 215	137 1, 153	-26.7 -5.1	2, 131 18, 824	1, 511 17, 934	$-29.1 \\ -4.7$
	119	705	560	-20.6	9, 413	7, 430	

Data supplied by cooperating State bureaus.
 Includes both Kansas City, Mo. and Kansas City, Kans.
 Includes Covington and Newport, Ky.
 Each separate area includes from 2 to 8 counties.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, SEPTEMBER AND OCTOBER 1933—Continued

Locality	Num- ber of	of Percent			Amount	Percent	
	firms re- port- ing	Sept. 15	Oct. 15	of change	Sept. 15	Oct. 15	change
Utah: Salt Lake CityVirginia:	91	448	620	+38.4	\$8,903	\$8,434	-5, 3
Norfolk-Portsmouth	94 146	1, 092 1, 125	968 1,099	-11.4 $-2.3$	19, 145 22, 208	18, 410 22, 233	-3.8 +.1
Washington:		' '	· ·			1	1
Seattle	157	788	789	+.1	15, 399	14, 936	-3.0
Spokane	50	180	192	+6.7	3, 717	3, 592	-3.4
Tacoma.	84	209	158	-24.4	3,601	2,751	-23.6
West Virginia: Wheeling	45	255	264	+3.5	4,690	5, 591	+19. 2
Wisconsin: All reporting localities 1_	58	858	1, 396	+62.7	14, 888	24, 976	+67.8
Total, all localities	11, 172	92, 478	92, 953	+. 5	1, 985, 522	2, 022, 884	+1.9

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

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

IN THE following table are shown the fluctuations in employment and pay-roll totals in October 1933 as compared with September 1933, in certain industrial groups by States. These tabulations have been prepared from data secured directly from reporting establishments and from information supplied by cooperating State agencies. The combined total of all groups does not include building-construction data, information concerning which is published elsewhere in a separate tabulation by city and State totals. In addition to the combined total of all groups, the trend of employment and pay rolls in the manufacturing, public utility, hotel, wholesale trade, retail trade, bituminous-coal mining, crude-petroleum producing, quarrying and nonmetallic mining, metalliferous mining, laundry, and dyeing and cleaning groups is presented. In this State compilation, the totals of the telephone and telegraph, power and light, and electric-railroad operation groups have been combined and are presented as one group—public utilities. Due to the extreme seasonal fluctuations in the canning and preserving industry, and the fact that during certain months the activity in this industry in a number of States is negligible, data for this industry are not presented separately. The number of employees and the amount of weekly pay roll in September and October 1933 as reported by identical establishments in this industry are included, however, in the combined total of "all groups."

The percents of change shown in the accompanying table, unless otherwise noted, are unweighted percents of change; that is, the industries included in the groups, and the groups comprising the total of all groups, have not been weighted according to their relative

importance in the combined totals.

The State totals for the anthracite-mining industry, which is confined entirely to the State of Pennsylvania, will be found in table

1, nonmanufacturing industries.

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.

		Tot	al all gr	oups			M	anufacti	uring	
State	Num- ber of estab- lish- ments	Num- ber on pay roll, Oc- tober 1933	Per cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change	Num- ber of estab- lish- ments	Num- ber on pay roll, Oc- tober 1933	Per- cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change
Alabama Arizona Arkansas California Colorado	413	66, 320 9, 199 19, 029 278, 909 38, 646	+1.0 +5.3 +2.6 -8.8 +15.0	\$887, 770 191, 978 273, 376 6, 376, 951 774, 985	+3. 2 +11. 2 +. 2 -7. 3 +15. 0	213 53 178 1, 129 118	46, 993 2, 353 13, 677 164, 680 16, 526	+1.0 +1.6 +2.9 -14.0 +37.3	\$614, 311 49, 405 178, 428 3, 444, 299 315, 795	+4.0 +11.6 +.4 -13.9 +29.4
Connecticut Delaware Dist. of Columbia Florida Georgia	152 631 639	171, 944 12, 242 33, 264 26, 961 95, 024	+.9 $-5.4$ $+3.3$ $+5.6$ $-1.1$	3, 357, 053 243, 569 764, 824 465, 843 1, 294, 156	+1.1 +3.1 +5.1 +8.9 +1.2	658 48 57 141 318	151, 237 7, 865 3, 692 15, 722 79, 786	+.9 $+(3)$ $+7.5$ $+8.4$ $-1.7$	2, 824, 387 157, 822 118, 635 233, 419 992, 531	+1.1 +3.7 4.2 +10.8 4
Odaho Illinois Indiana Iowa Kansas	225 4 1,774 1,276 1,201 5 1,857	9, 927 350, 068 143, 077 48, 544 68, 896	+11.8 3 +2.5 -1.0 6+1.6	180, 119 7, 283, 044 2, 752, 522 941, 336 1, 485, 013	+6.0 +1.9 +7.0 +4.6 6 2	1, 120 579 435 455	5, 312 223, 093 105, 688 27, 284 28, 250	+21.0 -1.2 +3.5 +.1 +.5	92, 427 4, 260, 525 2, 090, 843 519, 345 568, 121	+10.8 1 +8.4 +2.3 +.6
Kentucky Louisiana Maine Maryland Massachusetts	502 582 828 5 8,058	75, 357 35, 380 50, 758 93, 771 394, 987	$\begin{array}{c c} +2.4 \\ -1.0 \\ -6.3 \\ +2.2 \\ +1.9 \end{array}$	1,316,995 584,764 861,826 1,847,958 8,112,533	+7.1 +1.5 -6.9 -1.3 +1.1	205 204 182 451 1,141	28, 138 21, 682 42, 006 67, 553 208, 083	$ \begin{array}{c c}6 \\ +(3) \\ -3.9 \\ 6+1.9 \\ +1.9 \end{array} $	514, 879 318, 905 712, 783 1, 274, 985 3, 870, 229	$\begin{array}{c c} +2.2 \\ -(3) \\ -6.1 \\ 6-1.2 \\1 \end{array}$
Michigan Minnesota Mississippi Missouri Montana	1, 613 1, 101 372 1, 217 357	290, 927 74, 239 10, 890 120, 775 11, 808	$ \begin{array}{r} -9.2 \\ +1.9 \\ +2.5 \\ -(3) \\ +14.0 \end{array} $	6, 233, 512 1, 554, 187 144, 728 2, 448, 889 281, 514	$ \begin{array}{r} -9.6 \\ +7.6 \\ +4.0 \\ +.8 \\ +13.8 \end{array} $	625 301 72 530 52	256, 161 36, 869 7, 351 69, 240 4, 128	$\begin{array}{r} -7.4 \\ +3.4 \\ +2.1 \\ -1.0 \\ +39.2 \end{array}$	5, 285, 411 737, 643 88, 352 1, 319, 598 88, 428	$ \begin{array}{c c} -8.1 \\ +8.7 \\ +1.3 \\ -2.0 \\ +39.2 \end{array} $
Nebraska Nevada New Hampshire New Jersey New Mexico	. 145 512 . 1,532	26, 692 1, 836 41, 281 203, 230 4, 508	+8.4 +7.6 -5.0 -1.4 (8)	557, 403 45, 227 660, 771 4, 509, 079 85, 932	+12.5 +12.2 -12.1 +2.2 +8.0	125 25 187 7 655 23	14, 596 373 36, 368 184, 329 456	+16.7 +.5 -4.2 +1.3 -6.9	3, 861, 332	+19.0 +2.7 -13.9 +2.7 6
New York North Carolina North Dakota Ohio Oklahoma	916 342 5,067	592, 547 134, 142 4, 558 455, 618 32, 767	+.6 +1.1 +6.7 +.5 +4.3	14, 075, 908 1, 814, 029 97, 283 9, 236, 944 652, 069	$ \begin{array}{c c} -(3) \\ +3.1 \\ +10.4 \\ +3.6 \\ +8.7 \end{array} $	9 1,801 556 59 1,909 148	365, 914 128, 630 1, 150 334, 644 12, 136	+.1 +1.1 1 2 +4.7	26, 169	$\begin{array}{r} -1.5 \\ +3.1 \\ +3.4 \\ +2.6 \\ +8.9 \end{array}$
Oregon	320	40, 301 674, 399 68, 544 59, 689 6, 308	-1.2 -1.7 +9.5 +.4 +3.3	757, 418 14, 034, 212 1, 315, 984 773, 808 144, 742	+1. 2 +1. 1 +9. 9 +2. 3 +5. 3	174	19, 737 397, 625 56, 252 56, 442 2, 263	8 +.7 +11.9 +1.0 +7.2	373, 865 7, 140, 815 1, 019, 629 718, 941 40, 804	+.8 +3.1 +12.7 +2.2 +5.4
TennesseeTexasUtahVermontVirginia	822 345 383 1,323		$ \begin{array}{c c}3 \\ +5.4 \\ +14.0 \\ +2.2 \\ +1.1 \end{array} $	1, 097, 625 1, 622, 405 318, 761 215, 445 1, 594, 155	+1.8	85 118	6,605	$ \begin{array}{c c} -1.3 \\ +7.1 \\ +36.2 \\ +4.7 \\ -(3) \end{array} $	116, 537	1 +6.3 +26.7 +4.4 3
Washington West Virginia Wisconsin Wyoming	1, 170 875 10 1, 050 195	64, 171 112, 132 155, 431 6, 574	+1.0	1, 278, 740 2, 090, 466 2, 773, 972 173, 474	+.3	183	40, 441 123, 970	$\begin{bmatrix}1 \\ -11.2 \\ 6+1.8 \\ +40.0 \end{bmatrix}$	726, 234 2, 139, 912	1 6 +4.5

<sup>1</sup> Includes automobile dealers and garages, and sand, gravel, and building construction.
2 Includes banks, insurance, and office employment.
3 Less than one tenth of 1 percent.
4 Includes building and contracting.
5 Includes construction, municipal, agricultural, and office employment, amusement and recreation, professional, and transportation services.
6 Weighted percent of change.
7 Includes laundries.
8 No change.

No change.
 Includes laundering and cleaning.
 Includes construction but does not include hotels and restaurants.

		Wh	olesale	trade	-			Retail t	rade	
State	Number of establishments	Num- ber on pay roll Oc- tober, 1933	Per- cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change	Num- ber of estab- lish- ments	Num- ber on pay roll Oc- tober 1933	Per- cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change
Alabama	14	514	+4. 5	\$15, 108	+22. 4	65	2, 210	+8.3	\$37, 317	+7. 2
Arizona	25	221	+. 9	6, 186	+9. 9	181	1, 717	+5.9	30, 100	+8. 1
Arkansas	20	608	+5. 5	16, 107	+10. 4	120	1, 561	+5.0	22, 991	-1. 7
California	103	5,740	+1. 8	157, 005	+2. 7	128	26, 967	+.4	568, 002	+. 5
Colorado	28	963	4	28, 114	+6. 7	280	4, 781	+3.8	92, 859	+5. 7
Connecticut Delaware Dist. of Columbia. Florida Georgia	54 7 26 72 33	984 93 376 1, 146 505	$ \begin{array}{c c} (8) \\ +2.2 \\ +2.5 \\ -1.4 \\ +2.4 \end{array} $	29, 448 1, 905 11, 242 26, 274 14, 747	+3.3 +4.6 +5.0 +4.5 +7.2	120 22 412 106 40	5, 237 454 12, 641 1, 953 2, 385	+4.6 +5.3 +3.7 +2.6 +1.8	103, 808 10, 273 257, 460 36, 554 41, 312	+4. 2 +4. 7 +6. 9 +7. 5 +6. 6
IdahoIllinoisIndianaIowaKansas	8	123	+.8	3, 446	+7. 2	67	936	+6. 4	14, 998	+11. 4
	49	2, 480	+1.3	60, 281	+1. 9	148	24, 967	+2. 9	491, 621	+1. 1
	66	1, 402	+1.6	34, 816	+2. 7	171	7, 010	+2. 1	124, 122	+2. 5
	36	1, 170	3	29, 738	+6. 2	128	3, 437	+2. 4	60, 325	+3. 5
	84	2, 128	+4.7	49, 116	-3. 5	473	6, 659	+1. 6	120, 459	+. 7
Kentucky	20	425	+.5	9, 353	+4.0	44	3, 176	+7.5	55, 236	+8.1
Louisiana	29	754	+2.3	18, 099	+9.6	48	3, 255	-6.9	53, 449	-1.7
Maine	18	468	(8)	10, 868	3	67	969	+.1	17, 551	+3.1
Maryland	36	763	8	17, 254	-1.6	39	7, 144	+7.9	121, 937	+2.8
Massachusetts	701	15, 284	+1.0	391, 191	+.7	4,184	66, 783	+3.1	1, 292, 010	+1.7
Michigan	62	1, 651	+2.0	46, 215	+6.4	166	11, 452	-4.0	225, 047	+2.8
Minnesota	68	4, 949	+1.8	132, 301	+6.9	263	8, 272	+6.3	143, 722	+2.6
Mississippi	4	112	+1.8	2, 208	+5.6	52	484	+1.5	5, 743	+8.9
Missouri	60	4, 935	+.5	132, 102	+7.6	109	9, 692	6	188, 548	+1.2
Montana	15	249	-3.1	7, 619	+6.6	81	989	+4.1	19, 446	+4.1
Nebraska Nevada New Hampshire New Jersey New Mexico	35 8 16 25 6	1, 021 112 175 674 87	+2.6 $(8)$ $-4.9$ $+7.7$ $+3.6$	27, 624 3, 373 4, 564 18, 647 3, 108	+5.1 +1.8 -2.7 +5.6 +4.4	188 39 73 414 51	2, 066 284 999 8, 803 271	+8.7 $+8.0$ $+2.0$ $+6.9$ $+1.1$	37, 920 6, 171 15, 301 192, 033 6, 215	$   \begin{array}{r}     +9.0 \\     +6.0 \\     +2.9 \\     +6.8 \\     +1.1   \end{array} $
New York	450	13, 853	+1.0	423, 425	+3.6	4, 258	87, 467	+5.0	1, 847, 147	+5. 2
North Carolina	16	208	+4.5	5, 353	+9.0	157	658	+7.2	14, 120	+3. 7
North Dakota	15	236	+.4	6, 645	+5.2	11	299	+8.7	4, 622	+8. 2
Ohio	231	5, 414	+.8	136, 833	+4.3	1, 593	38, 084	+6.3	718, 495	+4. 6
Oklahoma	56	1, 228	+1.1	29, 403	+9.0	107	2, 313	+4.4	42, 009	+10. 8
Oregon	54	1, 432	+. 6	38, 588	+8. 2	188	2, 532	+3.5-	51, 634	+4. 2
	123	3, 792	+2. 1	103, 115	+5. 6	358	31, 940	+10.2	614, 843	+8. 5
	44	1, 213	+4. 0	28, 717	+3. 6	491	5, 028	+5.2	105, 753	+3. 4
	14	217	+5. 9	4, 930	+9. 4	20	537	(8)	5, 869	+. 7
	10	130	8	3, 429	+5. 4	9	101	+11.0	1, 714	+11. 3
Tennessee	31 131 13 5 46	857 3,306 484 115 1,327	$ \begin{array}{r} -6.3 \\ +3.7 \\ +.6 \\ +6.5 \\ +10.4 \end{array} $	18, 149 81, 536 11, 772 2, 726 30, 178	$ \begin{array}{c} -(3) \\ +4.7 \\ +3.6 \\ +5.9 \\ +12.3 \end{array} $	55 79 78 33 502	3, 972 8, 142 591 451 5, 511	+9.8 +6.4 +1.0 +1.1 +6.0	61, 053 138, 268 13, 687 6, 970 103, 498	$\begin{array}{c} +7.3 \\ +6.5 \\ +3.9 \\ +2.9 \\ +5.0 \end{array}$
Washington West Virginia Wisconsin Wyoming	91 27 46 8	2, 288 609 888 64	1 +.7 6	62, 431 17, 257 29, 111 1, 865	+6.8 +10.1 +.3 +5.8	400 48 50 41	7, 174 902 11, 087 248	+2. 6 +4. 6 +7. 7 +3. 3	133, 395 16, 713 162, 269 5, 754	+2.1 +11.1 +8.5 +6.2

<sup>&</sup>lt;sup>3</sup> Less than one tenth of 1 percent.
<sup>8</sup>No change.

	Qu	arrying s	nd nonr	netallic mi	ning		Meta	alliferous	mining	
State	Num- ber of estab- lish- ments	Num- ber on pay roll October 1933	Percent of change	Amount of pay roll (1 week) October 1933	Percent of change	Num- ber of estab- lish- ments	Num- ber on pay roll October 1933	Per- cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change
AlabamaArizonaArkansasCaliforniaColorado	3 10	758 41 324 1,116 44	+27. 2 -18. 0 -13. 6 +1. 8 +25. 7	\$8, 187 473 4, 505 22, 403 612	$^{+47.6}_{-17.0}$ $^{-6.0}_{+11.2}$ $^{+4.6}$	9 20 33 16	1, 660 2, 362 2, 817 1, 086	$+2.3 \\ +10.7 \\ -3.7 \\ +1.4$	\$23, 858 53, 538 65, 261 29, 353	$ \begin{array}{r} -8.0 \\ +18.0 \\ +3.5 \\ +17.7 \end{array} $
Connecticut Delaware Dist. of Columbia_ Florida	26 3	353 59 835	-13. 1 -4. 8	5, 624 854 9, 550	-8.9 -3.3					
GeorgiaIdahoIllinois	27	1, 489  904	+9. 7 	15, 759 14, 938	+18.9 -4.3 -1.5	11	2, 147	+3.3	46, 875	
Indiana Iowa Kansas	32 24	1,795 589 1,206	+3.0 $-11.4$ $-12.2$ $+12.4$	27, 403 8, 092 22, 255 9, 630	-6.9 -6.1	12	936	-5.6	17, 220	
Kentucky Louisiana Maine Maryland Massachusetts		646 209 317 519	-10.3 $-16.1$ $+12.8$ $+3.2$	9, 630 9, 771 3, 860 4, 248 11, 219	+12.5 $+2.5$ $-26.1$ $+16.3$ $+5.2$					
Michigan Minnesota Mississippi Missouri	26 8 47	1, 420 501 171 1, 166	$ \begin{array}{r} -10.1 \\ +30.5 \\ +12.5 \\ +9.3 \end{array} $	27, 191 8, 726 2, 181 17, 545	$+3.1 \\ +41.8 \\ +21.6 \\ +18.4$	42 32 15	4, 036 1, 706	+8.1 +10.9 +1.3	59, 359 35, 601 22, 777	+13.3 +18.6 +5.7
Montana  Nebraska  Nevada  New Hampshire	7	235 258	-16.4 $+8.3$ $+150.5$	1, 388 3, 231 7, 650	-36.9 $+20.6$ $+255.3$	17	2, 380 466	+5.9	67, 248	+56.0
New Jersey New Mexico	ļ	811	+12.0	13, 146	+10.3	3 5		+44.4 -1.1	į	$^{+16.4}_{+12.7}$
New York North Carolina North Dakota	14	2, 176 395	6 -5. 5	39, 123 4, 980						
OhioOklahoma	1	3, 873 252	$+1.0 \\ +39.2$	58, 442 1, 980	+4.3 +28.5	32	1	1	25, 621	1
Oregon Pennsylvania Rhode Island		5, 797	+14.8 -2.4	984 84, 883	+25.7 +6.4			+3.4	1, 112	+10.6
South Carolina South Dakota	8	95 62	-20. 8 -3. 1	917 1, 153	+31.6					
Tennessee	21 6 40	1,539 407 148 2,329 1,411	$+8.2 \\ -37.5 \\ +28.7 \\ +2.4 \\ -5.8$	19, 744 8, 809 2, 216 42, 764 13, 396	$     \begin{array}{r}     +23.1 \\     -26.2 \\     +5.9 \\     -2.0 \\     -11.0     \end{array} $	12	2, 107	+4.0	6, 302	+10.4
Washington West Virginia Wisconsin Wyoming	18 24 14	212 899 <i>16</i> 7	+29.3 -1.4 -2.3	3, 855 13, 166 2, 248	+51.9 +5.7 -7.0	(11)	376	+4.7	6, 923	+1.5

<sup>11</sup> Not available.

		Bitum	inous-co	al mining			Crude-p	etroleum	producin	g
State	Num- ber of estab- lish- ments	Num- ber on pay roll October 1933	Per- cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change	Num- ber of estab- lish- ments	Num- ber on pay roll October 1933	Per- cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change
Alabama Arizona	57	10, 047	-1.8	\$122, 594	-4.0		<b>-</b>			
Arkansas	3	195	-20.5	2,752	-17.1	9	485	+9.2	\$11,821	+22.6
California Colorado	54	5, 254	+14.5	94, 785	+22.1	40	7, 723	+2.4	235, 022	+8.8
Connecticut		 	l							
Delaware										
Dist. of Columbia. Florida										
Georgia										
Idaho	1	}	1		ĺ		1	i		
Illinois	33	7,754	$-1.2 \\ -4.1$	157, 494 109, 876	+20.9	7	145	-7.6	2, 897	-1.2
IndianaIowa	53 23	7, 754 5, 793 1, 980	$-4.1 \\ +48.5$	109, 876 41, 035	+1.3	4	33	+37.5	382	+36.9
Kansas	26	1,336	+13.1	19, 589	+143.6 +15.2	30	1, 466	+20.0	31, 161	+17.8
Kentucky Louisiana		31,773	+5.5	513, 863	+14. 2	6 8	261 216	+6.5 +13.7	3, 595 5, 116	+24.7 +34.4
Maine	18	1, 451	+1.0	19,381	+4.8			- <b></b>		
Maryland Massachusetts		1,401		19,561	T4.0					
Michigan										
Minnesota	<del>-</del>									
Mississippi Missouri		1, 649		26.862	+22 4					
Montana	11	913	+.5 +5.1	26, 862 23, 713	$^{+22.4}_{+13.7}$	4	24	-17. 2	564	-17.3
Nebraska Nevada					<b></b>		<b>-</b>	- <b></b>		
New Hampshire										
New Jersey New Mexico		ł								
New Mexico	13	1, 493	+11.6	26, 228	+18.6	5	57	十7.5	1,562	+2.8
New York				<sup>-</sup>		6	303	+60.3	7, 261	+84.9
North Carolina North Dakota	10	721	+51.5	15, 108	+57.7					
Ohio	84	721 13, 520 779	+3.3	247, 271	+26.6	6	87	+17.6	1, 309	+70.9
Oklahoma	18	779	+21.0	15, 209	+31.4	56	5,335	+10.3	127, 505	+12.8
Oregon Pennsylvania	449	47, 987	-28.8	604, 521	-40.2	21	892	+36.6	20, 132	+50.5
Rhode Island	440	-11, 001	-20.0	004, 021			002	750.0	20, 102	700.0
South Carolina				- <b></b>						
South Dakota							<b></b> -	<del>-</del>		
Tennessee	22	2,978	+1.0	38, 535	-2.6 -5.6					
Texas Utah	5 16	371	+6.6 +36.7	6,815	$\begin{array}{c c} -5.6 \\ +38.1 \end{array}$	3	8, 445	+.7	285, 131	+6.0
Vermont	10	2, 043		51, 706						
Virginia	34	8, 346	+6.7	143, 690	+18.5					
Washington	10	387	+9.0	10, 791	+48.7					
West Virginia	353	59, 974	+3.0	1, 110, 970	$^{+48.7}_{+12.5}$	8	376	+13.6	7,824	+9.1
Wisconsin Wyoming	30	3, 338	+6.4	95, 899	+31.0	7	191	+4.4	4, 882	+3.7
11 1 OHHHE	30	0,000	7-0.4	90,099	F01. 0	'	101	1.2.2	7,002	

		Pı	ublic uti	lities				Hotel	s	
State	Num- ber of estab- lish- ments	Num- ber on pay roll October 1933		Amount of pay roll (1 week) October 1933	Per- cent of change	Num- ber of estab- lish- ments	Num- ber on pay roll October 1933		Amount of pay roll (1 week) October 1933	Per- cent of change
Alabama Arizona Arkansas California Colorado	68 62	1, 737 1, 401 1, 710 42, 039 5, 390	+2.3 +5.9 +.2 1 +2.6	\$35, 936 33, 964 39, 205 1, 172, 929 137, 222	+8.6 +8.8 4 +4.8 +5.3	26 21 16 187 59	1, 161 466 570 8, 921 1, 346	+. 6 +6. 6 +2. 1 -2. 5 -7. 6	\$9, 773 6, 529 4, 734 184, 561 17, 752	+4.9 +7.8 +5.5 -2.3 -6.6
Connecticut Delaware Dist. of Columbia_ Florida Georgia	135 28 22 185 186	9, 464 1, 104 8, 404 4, 775 6, 504	+1.3 +4.3 +.8 +1.5 +2.6	285, 346 31, 238 231, 275 123, 279 177, 474	+.3 +7.6 +5.1 +10.1 +7.6	32 6 48 58 29	1, 188 251 4, 123 1, 087 1, 306	+.8 (*) +7.0 +5.5 -4.6	14,718 3,401 57,434 10,395 10,057	+. 4 +3. 6 +8. 7 +6. 4 -1. 4
IdahoIllinoisIndianaIowaKansas	115 430	730 70, 426 7, 700 9, 256 7, 299	+6.0 +3.0 +1.2 1 5	14, 222 1, 934, 605 196, 552 212, 998 167, 029	+7. 3 +5. 5 +9. 3 +6. 7 (8)	22 12 53 83 67 32	355 12, 801 3, 294 2, 299 694	3 -1.2 +5.4 +5.5 +1.2	4, 021 207, 735 32, 691 21, 312 7, 463	+5.7 +7.5 +4.7 +6.1 +3.8
Kentucky Louisiana Maine Maryland Massachusetts	151 167 93	6, 300 5, 527 2, 558 12, 477 45, 698	+.4 +1.5 +2.1 +.7 +.4	145, 707 140, 207 68, 833 338, 287 1, 273, 862	+5. 4 +6. 7 +3. 6 -2. 1 3	36 22 37 23 92	1,832 1,726 1,225 1,125 4,787	$\begin{array}{c c} +2.9 \\ -4.7 \\ -30.0 \\1 \\ -6.8 \end{array}$	18, 459 17, 929 13, 976 13, 763 64, 711	+5.5 -4.3 -32.7 +3.1 -6.2
Michigan Minnesota Mississippi Missouri Montana	232 143 141	22, 473 12, 800 973 7, 171 1, 966	+1.2 +2.1 1 +.1 +9.6	655, 434 331, 135 19, 747 184, 827 54, 090	+4.8 +8.7 +7.3 +3.3 +5.6	110 80 17 90 28	4, 658 3, 236 440 4, 601 410	-4.8 +1.8 -2.4 +4.9 -1.9	51, 286 37, 740 3, 038 52, 528 5, 523	$\begin{array}{c c} -2.4 \\ +3.2 \\ -5.2 \\ +5.3 \\ -1.3 \end{array}$
Nebraska Nevada New Hampshire New Jersey New Mexico	38 140 265	5, 599 354 2, 149 21, 174 601	3 -3.0 +3.3 1 -9.8	142, 043 10, 181 57, 429 604, 087 12, 336	+6.8 +2.5 +4.0 +2.2 +2.2	42 12 26 85 15	1, 495 167 589 4, 440 320	+1. 2 -1. 2 -58. 0 -25. 4 -10. 6	15, 229 2, 694 6, 935 54, 653 3, 414	+8.3 -4.8 -54.9 -18.3 -6.5
New York North Carolina North Dakota Ohio Oklahoma	96 171 489	97, 472 1, 792 1, 235 31, 964 5, 926	+1. 4 +3. 8 +1. 3 +2. 1 +. 5	2, 966, 657 37, 495 30, 386 847, 841 133, 937	+1.8 +6.1 +7.2 +7.1 +6.3	277 36 24 152 63	30, 557 1, 103 404 8, 946 1, 604	$\begin{array}{c c}1 \\ -2.5 \\ +2.0 \\ +.9 \\ +3.8 \end{array}$	457, 043 9, 203 4, 105 104, 914 17, 083	+3.3 -2.1 +3.3 +2.5 +4.0
Oregon	734	5, 556 53, 130 3, 263 1, 533 1, 025	+.9 +.7 +.2 -7.1 +3.5	140, 160 1, 474, 411 93, 781 33, 694 25, 138	+4. 1 +5. 8 +3. 6 +5. 7 +6. 1	60 181 25 15 19	1, 261 9, 672 403 422 307	+3.5 +2.5 -40.8 +3.7 -1.6	15, 447 116, 784 4, 857 3, 128 3, 720	+5. 2 +4. 3 -34. 2 +9. 1 +2. 1
Tennessee	136 66 122	4, 341 6, 932 1, 712 1, 055 2, 474	+2.1 +5.5 9 +.4 +.6	98, 564 180, 767 33, 955 25, 582 58, 891	+3. 4 +7. 1 +2. 0 +1. 6 +6. 3	37 46 13 26 35	2, 203 3, 697 474 582 1, 906	7 +3.2 -2.3 -8.3 +2.1	45, 594 5, 813 5, 805	+1.3 +3.3 5 -6.0 +2.2
Washington	119	9, 599 6, 254 10, 808 449	+1.0 +2.9 +1.6 (8)	259, 208 157, 210 312, 150 10, 456	+5. 4 +7. 5 +8. 1 +5. 2	84 38 13 43 12	2, 510 1, 112 1, 282 127	6 +1. 1 -4. 3 +2. 4	11, 733 (11)	$+1.5 \\ +1.7 \\ +2.4$

No change.
 Not available.
 Includes restaurants.
 Includes steam railroads.
 Includes railrways and express.

			Laundr	ies			Dye	ing and	cleaning		
State	Num- ber of estab- lish- ments	Num- ber on pay roll October 1933	Per- cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change	Num- ber of estab- lish- ments	Num- ber on pay roll October 1933	Per- cent of change	Amount of pay roll (1 week) October 1933	Per- cent of change	
Alabama Arizona Arkansas California Colorado	5 10 13 18 69 9	455 377 362 4, 977 586	$ \begin{array}{r} -2.4 \\ +1.3 \\ -4.7 \\ -1.0 \\ -2.3 \end{array} $	\$4, 179 5, 191 3, 343 88, 701 7, 860	$ \begin{array}{r} -1.1 \\ +2.0 \\ -8.0 \\ +1.6 \\ -5.5 \end{array} $	33	104 45 149	-21.8 (8) -13.9	\$1, 022 615 2, 598	-21.6 $+10.6$ $-12.8$	
Connecticut Delaware Dist, of Columbia. Florida Georgia	25 3 20 9 12	1, 184 237 2, 561 501 660	+. 2 8 +. 3 -2. 3 -1. 9	19, 234 3, 965 38, 627 4, 944 5, 982	3 -2.2 1 2 -7.5	12 5 13 4	270 132 119 98	+4. 2 -2. 2 +5. 3 -1. 0	5, 555 2, 302 1, 867 1, 125	+4.1 $-2.4$ $+3.6$ $-1.9$	
IdahoIllinoisIndianaIowaKansas	15 26 21 5 15 40	1, 620 1, 553 223 918	$ \begin{array}{r} -3.6 \\ -3.0 \\ -2.2 \\ +1.2 \end{array} $	22, 774 20, 827 3, 113 11, 188	-3.3 -5.7 -4.4 2	12 6	215 261	+1.4 -1.5	3, 616 4, 125	+1.8 -4.5	
Kentucky Louisiana Maine Maryland Massachusetts	16 19 25 113	794 417 1,886 3,696	-4.0 -11.3 -1.3 +.2	9, 512 5, 958 28, 478 58, 528	-10.2 -14.8 -4.0 -1.4	5 5 	251 86 462 1,872	$\begin{array}{c} +2.4 \\ +10.3 \\ \hline +.9 \\ -2.2 \end{array}$	3, 610 1, 078 6, 974 31, 503	+4.0 +17.9 +9.3 -9.0	
Michigan Minnesota Mississippi Missouri Montana	22 13 6 30 14	1, 445 663 311 2, 244 327	-4.3 -3.1 -1.6 -1.3 6	19, 880 10, 581 3, 096 29, 587 5, 600	$ \begin{array}{r} -3.4 \\ -1.5 \\ -2.6 \\ -3.2 \\ +3.3 \end{array} $	16 12 13	609 459 489	-1. 1 +. 2 +3. 6	11, 267 7, 680 8, 666	4 -3. 1 +3. 8	
Nebraska Nevada New Hampshire New Jersev	7 4 18 25	571 51 332 3,124	$ \begin{array}{r} -2.1 \\ -1.9 \\ -2.4 \\ -2.6 \end{array} $	7, 780 956 4, 794 61, 401	-6.6 -4.1 -6.3 7	3	104	(8) +1.5	1, 885 5, 163	+4.8	
New Mexico  New York  North Carolina  North Dakota	70 12 11	7, 138 735 210	-10.5 -1.6 -5.4 9	2, 795 121, 578 7, 776 3, 171	-9. 2 7 -6. 6 +2. 0	17	570	+2.0	10, 762	+2.6	
OhioOklahoma Oregon Pennsylvania	79 9 4 40	4, 086 619 311 2, 928	$ \begin{array}{r} -1.9 \\ -6.6 \\ -1.3 \\ +.1 \\ -2.7 \end{array} $	60, 106 7, 921 4, 887 44, 213	$ \begin{array}{c c} -2.4 \\ -6.1 \\ +.2 \\ +1.0 \end{array} $	42 6 4 18	1,646 180 64 1,036	+2.0 -12.6 -4.5 +.2	29, 664 2, 429 1, 204 19, 599	+5.5 -6.5 -4.6 +9.4	
Rhode Island South Carolina South Dakota	17 8 5	1, 100 296 104 888	-3.6 $-1.9$	18, 764 2, 860 1, 310 7, 687	+1.0 -2.8 -6.7 -8.6 -4.0	4	330	-5. 4 -3. 6	6, 177	+1.8	
Tennessee	24 7 4 10	1, 176 489 59 841	(8) -3. 4 (8) -9. 2 +4. 1	12, 767 6, 850 784 9, 171	-5.0 2 -4.7 -5.9	16 8 22	430 128 282	$ \begin{array}{r} -1.4 \\ -10.5 \\ -2.1 \end{array} $	7, 221 2, 294 4, 145	+3.0 +1.0 -10.3 +1.9	
Washington West Virginia Wisconsin Wyoming	12 20 15 28 6	558 694 <i>996</i> 95	$ \begin{array}{r} -4.0 \\6 \\ +.5 \\ -3.1 \end{array} $	10, 019 8, 646 12, 890 1, 535	-5.5 -2.2 -2.5 -4.4	14 9	197 221	-2.5 +.9	3, 541 2, 987	+1.3 +2.1	

<sup>8</sup> No change. 15 Includes dyeing and cleaning.

	Ban	ks, brokeras	ge, insuranc	ce, and real est	ate
State	Number of estab- lish- ments	Number on pay roll October 1933	Percent of change	Amount of payroll (1 week) October 1933	Percent of change
Alabama	18 29 19 1, 140 27	470 206 242 22, 931 1, 068	8 -1.9 8 6 7	\$13, 305 5, 606 5, 891 751, 471 37, 046	-1.8 +.8 +.7 +.2 +.3
Connecticut Delaware District of Columbia Florida Georgia	56 17 41 18 25	1, 979 570 1, 335 567 1, 023	+. 2 5 (8) +. 5 +. 4	68, 316 19, 696 47, 849 17, 393 29, 715	+.6 4 -1.2 +.3 +.9
Idaho	16 94 39 17 31	138 10, 802 1, 176 979 738	$ \begin{array}{c c} -1.4 \\ +.1 \\ -1.2 \\ +.1 \\ -1.2 \end{array} $	3, 422 368, 436 38, 174 31, 357 22, 607	+.5 +1.9 -1.0 3 9
Kentucky. Louisiana. Maine. Maryland. Massachusetts.	21 9 16 24 227	842 371 254 856 8, 408	5 +. 3 (8) (8) (9) +1. 6	29, 543 13, 520 6, 597 31, 660 26, 545	-2.4 5 +.2 +.1 +2.7
Michigan Minnesota Mississippi Missouri Montana		3, 987 4, 189 195 4, 747 244	+. 4 +25. 8 +. 5 +. 2 (8)	124, 308 101, 857 4, 322 139, 340 6, 867	+3.1 +15.3 +.9 -2.8 5
Nebraska	17	505	+.2	17, 412	+.8
New Hampshire. New Jersey. New Mexico.	39 109 16	381 12, 478 87	( <sup>5</sup> ) +. 3 +1. 2	9, 011 351, 086 2, 583	+. 2 5 +1. 5
New York North Carolina North Dakota Ohio Oklahoma	278	53, 634 556 274 7, 938 592	6 +8. 6 -1. 1 -1. 0 -3. 3	1, 842, 595 14, 459 6, 590 258, 356 17, 737	-1.3 +8.1 -2.3 2 9
Oregon Pennsylvania Rhode Island South Carolina South Dakota	798 28 11	758 23, 119 926 110 240	4 3 +.1 (8) (8)	26, 356 714, 474 37, 801 3, 301 6, 004	+.7 6 8 +3.1 +1.0
Tennessee	23 14 30	1, 129 1, 311 457 235 1, 337	+.4 +.7 -1.3 +.9 2	38, 701 37, 673 16, 203 6, 702 43, 326	+.9 +.6 -1.1 4 +.7
Washington West Virginia Wisconsin Wyoming	17	1, 324 609 919 90	+2.0 -1.1 2	40, 472 17, 471 31, 105 2, 762	$ \begin{array}{c c}7 \\ -1.1 \\ -(3) \\ +1.5 \end{array} $

<sup>&</sup>lt;sup>3</sup> Less than one tenth of 1 percent.
<sup>5</sup> No change.

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

IN THE following table are presented the fluctuations in employment and pay-roll totals in October 1933 as compared with September 1933 in 13 cities of the United States having a population of 500,000 or over. These changes are computed from reports received from identical establishments in each of the months considered.

In addition to including reports received from establishments in the several industrial groups regularly covered in the Bureau's survey, excluding building construction, reports have also been secured from other establishments in these cities for inclusion in these totals. Information concerning employment in building construction is not available for all cities at this time and therefore has not been included.

FLUCTUATIONS IN EMPLOYMENT AND PAY ROLLS IN OCTOBER 1933 AS COMPARED WITH SEPTEMBER 1933

Cities	Number of establish- ments re-	Number o	n pay roll	Per- cent of			Per-	
Offices	porting in both months	September 1933	October 1933	change	September 1933	October 1933	of change	
New York City Chicago, Ill. Philadelphia, Pa Detroit, Mich Los Angeles, Calif Cleveland, Ohio St. Louis, Mo Baltimore, Md Boston, Mass. Pittsburgh, Pa San Francisco, Calif Buffalo, N, Y Milwaukee, Wis.	526 833 1, 125 520 577 3, 654 435	345, 282 233, 432 149, 742 197, 275 77, 706 99, 868 73, 756 54, 684 99, 675 56, 333 53, 839 54, 494 45, 800	351, 859 236, 754 156, 319 174, 915 79, 113 99, 598 73, 731 56, 348 101, 249 56, 951 52, 311 56, 695	+1.9 +1.4 +4.4 -11.3 +1.8 3 -(1) +3.0 +1.6 +1.1 -3.1 +1.9	9, 148, 308 5, 375, 740 3, 308, 407 4, 525, 377 1, 852, 043 2, 074, 980 1, 577, 171 1, 100, 126 2, 411, 050 1, 191, 277 1, 257, 694 966, 001 895, 797	9, 164, 592 5, 473, 204 3, 516, 788 3, 951, 659 1, 899, 375 2, 094, 822 1, 565, 620 1, 127, 176 2, 461, 717 1, 242, 723 1, 257, 408 938, 827 934, 557	+0. 2 +1. 8 +6. 3 -12. 7 +2. 6 +1. 0 7 +2. 5 +2. 1 +4. 3 -(1) -2. 8 +4. 3	

<sup>1</sup> Less than one tenth of 1 percent.

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

N OCTOBER 31, 1933, the United States Government had on its pay rolls 577,170 employees. This is an increase of 4,303 as compared with October 31, 1932. Comparing October 1933 with September 1933, there was an increase of 10,814 employees or 1.9 percent.

The data presented herein does not include the legislative, judicial, or Army and Navy services. The information shown in table 1 was compiled by the various departments and offices of the United States Government and sent to the United States Civil Service Commission where it was assembled. The figures were tabulated by the Bureau of Labor Statistics and are published in compliance with the direction of Congress.

Table 1 shows the number of Federal employees inside the District of Columbia, the number of employees outside of the District of Columbia, and the total number for the entire Federal service.

Approximately 12 percent of the total number of workers on the pay rolls of the United States Government are employed inside the District of Columbia.

Table 1.—EMPLOYEES IN THE EXECUTIVE CIVIL SERVICE OF THE UNITED STATES, OCTOBER 1932, SEPTEMBER AND OCTOBER 1933

								<del></del>	
	Distric	et of Col	umbia	Outsi	de the D	istrict	Entire service		
Item	Perma- nent	Tem- pora- ry <sup>1</sup>	Total	Perma- nent	Tem- pora- ry <sup>1</sup>	Total	Perma- nent	Tem- pora- ry <sup>1</sup>	Total
Number of employees:	}								
October 1932	64, 484	2, 490	66, 974	470, 043	35, 850	505, 893	534, 527	38, 340	572, 867
September 1933									
October 1933	64, 668								
Gain or loss:	01,000	0,000	, 1, 001	101,000	02,000	000, 220	010, 121	00, 110	011,210
October 1932-October	ļ								
1933	+184	+3.896	+4.080	-15.987	+16.210	+223	-15,803	+20.106	+4,303
September 1933-October	1 '	,	,	,	,	•	,	,	,
1933	+1,410	96	+1.314	+306	+9.194	+9.500	+1.716	+9.098	+10,814
Percent of change:	, -,	-	,		,	, -,		,	,
October 1932-October				ĺ					
1933	+.3	+156.5	+6.1	-3.4	+45.2	+(5)	3.0	+52.4	+.8
September 1933-October				ŀ					i '
1933	+2.2	-1.5	+1.9	+.1	+21.4	+1.9	+.3	+18.4	+1.9
Labor turn-over October			l .	l					
1933:	1								l
Additions	2 2, 007			3 12, 152			4 14, 159		
Separations	1,326				3 14, 790			15, 583	
Turn-over rate per 100	2.07	12.33	3. 01	2.68	31. 16	5.40	2, 63	28, 91	5. 11
	1			1	1		i	l	l

Comparing October 1933 with September 1933, there was an increase of 2.2 percent in the number of permanent employees (half of this increase was caused by a transfer of 729 employees of the Public Works Administration from a temporary to a permanent status), and a decrease of 1.5 percent in the number of temporary employees in the District of Columbia, making a net increase of 1.9 percent in the total Federal employment in the city of Washington.

Comparing October 1933 with October 1932, there was an increase of three tenths of 1 percent in permanent employees and an increase of 156.5 percent in temporary employees, making an increase of 6.1 percent in the total number of employees in the District of Columbia. The large increase in temporary employment is caused by the setting up of a number of new independent establishments since October of last year.

Outside the District of Columbia, the number of permanent employees decreased 3.4 percent and the number of temporary employees increased 45.2 percent, comparing October 1933 pay rolls with those for October 1932.

Comparing October 1933 with September 1933, there was an increase of 0.3 percent in the number of permanent employees, an increase of 18.4 percent in the number of temporary employees, and an increase of 1.9 percent in total Federal employment.

Pay-roll figures for the entire Government service are presented herewith for the first time. The total Government pay roll for all classes of civil employees for the month of September was \$70,609,548, October pay rolls totaled \$74,407,443.

Table 2 shows employment and pay rolls for the Emergency Conservation Work.

There was an increase of 30,685 persons engaged in Emergency Conservation Work, comparing October with September. This increase was caused by recruiting additional enrolled personnel during the month.

¹ Not including field employees of the Post Office Department.
² Not including 729 employees of the Federal Emergency Administration of Public Works transferred from a temporary to a permanent status.
² Not including 461 employees of the Federal Emergency Administration of Public Works, transferred from a temporary to a permanent status.
² See notes to details.
² Less than one tenth of 1 percent.

TABLE 2.—EMPLOYMENT AND PAY ROLLS IN THE EMERGENCY CONSERVATION WORK, SEPTEMBER AND OCTOBER 1933

0	Nur	nber	Pay rolls		
Group	September	October	September	October	
Enrolled personnel Reserve officers, line Reserve officers, medical Supervisory and technical	208, 402 2, 902 986 14, 744	239, 859 3, 298 1, 074 13, 488	\$6, 508, 392 678, 676 1, 754, 485	\$7, 490, 799 (¹) 1, 605, 140	
Total	227, 034	257, 719	8, 941, 553	29, 095, 939	

<sup>&</sup>lt;sup>1</sup> Data not available. <sup>2</sup> Not including October pay rolls for Reserve officers, line and medical.

Information concerning employment and pay rolls in the Emergency Conservation Work is collected by the Bureau of Labor Statistics from the War Department and the Forest Service of the

Department of Agriculture.

The pay of the enrolled enlisted personnel is \$30 per month, except that 5 percent of the personnel of each company are paid \$45 a month and an additional 8 percent are paid \$36 per month. The pay roll for this branch of the service is figured on this basis. The amounts paid to Reserve officers, line and medical, are shown for September for the first time. Data for these branches will be supplied regularly hereafter.

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

EPORTS of the Interstate Commerce Commission for class I railroads show that the number of employees (exclusive of executives and officials) decreased from 1,018,138 on September 15, 1933, to 1,011,110 on October 15, 1933, or 0.7 percent. Data are not yet available concerning total compensation of employees for October 1933. The latest pay-roll information available shows a decrease from \$121,857,255 in August to \$118,777,553 in September, or 2.5 percent.

The monthly trend of employment from January 1923 to October 1933 on class I railroads—that is, all roads having operating revenues of \$1,000,000 or over—is shown by index numbers published in the following table. These index numbers are constructed from monthly reports of the Interstate Commerce Commission, using the 12-month average for 1926 as 100.

TABLE 1.—INDEXES OF EMPLOYMENT ON CLASS I STEAM RAILROADS IN THE UNITED STATES, JANUARY 1923 TO OCTOBER 1933

[12-month average, 1926=100] 1923 1928 1929 1930 1932 Month 1924 1925 1926 1933 96. 6 97. 0 97. 4 98. 9 95. 3 95. 8 97. 4 February\_\_\_\_\_ 95. 4 95. 2 96. 0 96. 7 89.0 88.9 85. 4 85. 5 72. 7 72. 9 60.3 52. 7 51. 5 89. 9 91. 7 March.... 100.5 90.1 60.5 96. 6 97. 8 60. 0 59. 7 98. 9 87. 0 73. 5 51.8 100. 2 98. 6 99. 4 99. 7 100. 9 101. 0 95. 9 95. 6 95. 7 96. 1 96. 6 86. 5 84. 7 83. 7 82. 2 72. 8 72. 4 71. 2 57. 8 56. 4 55. 0 June 107. 1 98.0 101.6 **53.** 6 102. 9 55. 4 1 56. 8 57. 7 July\_\_\_\_\_August\_\_\_\_\_ 108.2 102. 7 109. 4 102. 8 September.... 95. 3 96.8 69.3 55.8 October\_\_\_\_\_ November\_\_\_\_ 100.8 98. 9 95. 7 95. 3 92. 9 67.7 57.3 107.3 100.7 103.4 96.9 80.4 57.0 99. 0 93. 0 64. 5 105. 2 99. 1 101. 2 77.0December ..... 54.8 92.9 2 54. 2 Average.... 104. 1 97.9 100.0 97. 5 93.3 83.5 70.6 57.9

<sup>1</sup> Revised.

<sup>&</sup>lt;sup>2</sup> Average for 10 months.

### Wage-Rate Changes in American Industries

#### Manufacturing Industries

THE following table presents information concerning wage-rate adjustments occurring between September 15 and October 15, 1933, as shown by reports received from manufacturing establishments supplying employment data to this Bureau.

Increases in wage rates averaging 12.3 percent and affecting 96,461 employees were reported by 468 of the 18,602 manufacturing establishments surveyed in October. The iron and steel industry reported the greatest number of workers affected by wage-rate increases over the month interval. Thirty-five establishments in that industry reported increases in wage rates affecting 38,053 workers and averaging 10.7 percent. Increases affecting 7,109 employees and averaging 10.6 percent were reported by 21 establishments in the automobile industry. Other industries in which increases in rates affecting from 2,000 to 3,000 employees were reported were foundry and machineshop products, chemicals, rayon, and brass, bronze, and copper products.

Of the 18,602 manufacturing establishments included in the October survey, 18,129 establishments, or 97.5 percent of the total, reported no change in wage rates over the month interval. The 3,262,266 employees not affected by changes in wage rates constituted 97.1 percent of the total number of employees covered by the October trend-of-employment survey of manufacturing industries.

Only five manufacturing establishments reported wage-rate decreases between September and October.

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING OCTOBER 15, 1933

	Estab-	Total		er of est ts report		Number of employees having—		
Industry	ments report- ing number of em- ployees		No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases
All manufacturing industries Percent of total	18, 602 100. 0	3, 358, 960 100. 0	18, 129 97. 5	468 2. 5	(1) 5	3, 262, 266 97. 1	96, 461 2. 9	233
Food and kindred products:  Baking Beverages Butter Confectionery Flour Ice cream Slaughtering and meat packing Sugar, beet Sugar refining, cane Textiles and their products: Fabrics:	417 356 244 63 13	73, 420 26, 154 5, 966 43, 619 17, 646 11, 377 112, 501 21, 913 9, 704	1, 013 396 305 297 412 349 243 54	17 15 2 4 5 7 1 9	2	73, 082 25, 228 5, 960 43, 507 17, 553 11, 285 112, 498 19, 955 7, 518	338 921 6 99 93 92 3 1,958 2,186	5 13
Carpets and rugs Cotton goods Cotton small wears Dyeing and finishing	27 689 116	16, 632 309, 034 11, 621	27 683 114	6 2		16, 632 308, 238 11, 616	796 5	
textiles.  Hats, fur-felt. Knit goods. Silk and rayon goods. Woolen and worsted	153 36 466 238	33, 600 6, 248 124, 945 50, 798 75, 365	151 36 454 236	12 2 1		33, 460 6, 248 123, 553 50, 001 75, 118	797	

<sup>&</sup>lt;sup>1</sup>Less than 1 tenth of 1 percent.

Table 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING OCTOBER 15, 1933—Continued

	Datab			per of est		Numb	er of employable	oyees
Industry	Estab- lish- ments report- ing	Total number of em- ployees	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases
Textiles and their products-								
Continued. Wearing apparel:	.396	70 604	374	22		67 040	0.055	
Clothing, men's Clothing, women's	593	70, 604 34, 458	566	27		67, 949 32, 959	2, 655 1, 499	
Corsets and allied gar- ments Men's furnishings	32 73	5, 453 7, 242	29 70	3		5, 050 7, 109	403	- <b>-</b>
Millinerv	135 122	8,845	134 122	1		8, 792 18, 650	133 53	
Shirts and collars Iron and steel and their prod- ucts, not including machin- ery:	122	18, 650	122			18, 000		
Bolts, nuts, washers, and	79	14, 406	78	1		13, 812	594	
Cast-iron pipe. Cutlery (not including sil-	44	6, 630	42	2		6, 092	538	
ver and plated cutlery) and edge tools	132	11, 292	129	3		11, 203	89	
Forgings, iron and steel Hardware	66 99	11, 292 7, 214 28, 269 254, 363	63 97	3 2		6, 806 28, 216 216, 310	408 53	
Iron and steel Plumbers' supplies	206 73	254, 363 9, 314	171 70	35 3		216, 310 9, 242	38, 053 72	
Steam and hot-water heat- ing apparatus and steam		3,011				3, 212		
fittingsStoves	98 162	16, 843 25, 346	92 155	6 7		16, 256 24, 697	587 649	
Structural and ornamental metal work	202		197	5			522	
Tin cans and other tinware Tools (not including edge tools, machine tools, files,	60	17, 045 10, 238	58	2		16, 523 10, 081	157	
and saws)	127	8,950	126	1		8, 934	16	
Wirework Machinery, not including trans-	71	7,836	70	1		7,832	4	
portation equipment: Agricultural implements Cash registers, adding ma- chines, and calculating	79	9, 118	75	4		7, 773	1,345	
macnines	35	16, 366	35	 		16, 366		
Electrical machinery, ap- paratus, and supplies	291	112, 500	282	9		111,053	1,447	
Engines, turbines, tractors, and water wheels Foundry and machine-shop	92	21, 167	87	5		20, 069	1,098	
products	1,075	1	1,046	29		122, 015	3, 009	
Machine tools Radios and phonographs	143 43	125, 024 15, 601 37, 148	136 38	7 5		122, 015 14, 813 36, 852	788 296	- <b>-</b>
Textile machinery and parts	52 16	37, 148 10, 768 11, 988	51 15	1		10, 621 11, 979	147	
Typewriters and supplies.  Nonferrous metals and their products:	1	11,000	1	_		21,010		
Aluminum manufactures	27	6, 949	26	1	•	6, 937	12	
Brass, bronze, and copper products.  Clocks and watches and time-recording devices	212	39, 185	207	5		36, 621	2, 564	
_ time recording devices	27 130	9, 606	26 130	1		9,376	230	
Jewelry Lighting equipment	52	9, 487 3, 642	52			9, 487 3, 642		
Silverware and plated ware. Smelting and refining—cop-	56	9, 247	56			9, 247		
per, lead, and zinc Stamped and enameled	42	14, 140	40	2		1,289	851	
ware Transportation equipment:	86	15, 932	84	2		15, 104	828	
Aircraft	25 239	6, 445 221, 612	24 218	1 21		5, 295 214, 503	1, 150 7, 109	
railroad Locomotives	49 11	8, 876 2, 851	49 11			8, 876 2, 851		
Shipbuilding Railroad repair shops:	100	2, 851 30, 322	98	2		2, 851 30, 255	67	
Electric railroad Steam railroad	380 540	19, 631 76, 434	363 540	17		18, 741 76, 434	890	

TABLE 1.—WAGE-RATE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING OCTOBER 15, 1933—Continued

	Estab-	, rotai j		er of est ts report		Number of employees having—			
Industry	lish- ments report- ing	number of em- ployees	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage rate in- creases	Wage rate de creases	
Lumber and allied products:									
FurnitureLumber:	468	60, 655	455	13		58, 751	1,904		
Millwork	494	21, 348	481	12	1	20, 890	328	130	
Sawmills	621	83, 438	614	7		82,722	716		
Turpentine and rosin	27	1, 923	26	1		1,829	94		
stone, clay, and glass products:	ĺ	·	1	i	Ι,	,			
Brick, tile, and terra cotta	662	20, 469	650			20, 142	327		
Cement	131	13, 199	128			12,609			
Glass	177	46,900	170	7		46,076	824		
Marble, granite, slate, and								1	
other products	235	5, 982	234			5, 957	25		
Pottery	120	19,007	118	2		18, 894	113		
Leather and its manufactures:	040	100.000	990	9		110 001	077		
Boots and shoes	348	120, 806	339	6		119, 931	875	<b></b>	
Leather	158	32, 227	152	0		31, 619	608		
Boxes, paper	327	27, 785	325	2		27, 685	100		
Paper and pulp	416	101,951	409	7		100, 883	1,068		
Printing and publishing:	110	101,001	100			100,000	1,000		
Book and job	784	48, 202	780	4	l	48, 053	149		
Newspapers and peri-		,		_		,			
odicals	463	70,883	462		1	70, 798		8	
Chemicals and allied products:									
Chemicals	106	26, 471	103	3		24, 067	2,404		
Cottonseed oil, cake, and	٠			_				1	
meal	104	6,677	101	3		6, 490	187		
Druggists' preparations		8, 930	50 27			8, 930			
Explosives	31 175	4,569	152			4,380	189		
Fertilizers Paints and varnishes	363	8, 957 17, 680	355	23 8		7, 182 17, 317			
Petroleum refining	140	56, 180	139	1		56, 118			
Rayon and allied products_	24	37, 681	22	2		34, 881			
Soap	109	17, 274	107	i ž		16, 951	323		
Rubber products:	100	1,,2,,	10.	_ ~		10,001	020		
Rubber boots and shoes	9	10, 400	8	1		10, 123	277		
Rubber goods, other than	Ī _	,	1	i -		,		1	
boots, shoes, tires, and		1							
inner tubes	98	27, 300	95	3		26, 477	823		
Rubber tires and inner		1	]						
tubes	42	58, 668	41	1	- <b></b> -	57, 265	1,403		
Fobacco manufactures:	(	1	!	l	1			ì	
Chewing and smoking to-	90	0.40	90	1	1	0.401	1	1	
bacco and snuff	30 208	9, 491	30 205			9, 491	010		
Cigars and cigarettes	208	46, 407	205	1 3		45, 591	910		

#### Nonmanufacturing Industries

Data concerning wage-rate changes occurring between September 15 and October 15, 1933, in 15 groups of nonmanufacturing industries

are presented in the following table.

No changes in wage rates were reported in the anthracite-mining industry. Increases were reported in each of the remaining 14 industries and decreases were reported in 3 industries over the month interval. The average percents of increase reported were as follows: Canning and preserving, 24.8 percent; bituminous-coal mining, 22.1 percent; hotels, 20.4 percent; power and light, 17.7 percent; retail trade, 17 percent; metalliferous mining, 15.2 percent; laundries and wholesale trade, each 13.1 percent; crude-petroleum producing, 12.5 percent; quarrying and nonmetallic mining, 10.3 percent; electric-railroad and motor-bus operation and maintenance, 7.5 percent; banks, brokerage, insurance, real estate, 5.3 percent; dyeing and clean-

ing, 5.1 percent; and telephone and telegraph, 4.8 percent. The average percents of decrease were: Quarrying and nonmetallic mining and retail trade, each 9.1 percent, and wholesale trade, 7.6 percent.

TABLE 2.—WAGE-RATE CHANGES IN NONMANUFACTURING INDUSTRIES DURING MONTH ENDING OCTOBER 15, 1933

	Estab-	Total		er of est ts report		Number of employees having—			
Industrial group	lish- ments report- ing	number of em- ployees	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	No wage- rate changes	Wage- rate in- creases	Wage- rate de- creases	
Anthracite mining Percent of total. Bituminous-coal mining Percent of total. Metalliferous mining Percent of total. Metalliferous mining Percent of total. Cudarying and nonmetallic mining Percent of total. Crude-petroleum producing Percent of total. Telephone and telegraph Percent of total. Percent of total. Electric-railroad and motor-bus operation and maintenance. Percent of total. Retail trade. Percent of total. Retail trade. Percent of total. Hotels. Percent of total.	159 100. 0 1, 514 100. 0 297 100. 0 1, 202 100. 0 260 100. 0 8, 294 100. 0 3, 132 100. 0 18, 583 100. 0 18, 503 100. 0 2, 706	77, 833 100. 0 210, 835 100. 0 27, 974 100. 0 36, 894 100. 0 29, 053 100. 0 204, 268 100. 0 133, 244 100. 0 91, 276 100. 0 437, 841 100. 0	159 100.0 1,160 76.6 286 96.3 1,179 98.1 252 96.9 8,292 100.0 3,106 99.2 517 92.8 3,023 99.5 18,554 99.8 2,695 99.8		2 0.2	77, 833 100.0 144, 742 68, 7 26, 369 94, 3 35, 305 95, 7 28, 685 98, 7 246, 004 99, 8 199, 680 97, 8 127, 148 91, 038 99, 7 437, 219 99, 9 139, 728	66, 093 31. 3 1, 605 5. 7 1, 516 4. 1 368 1. 3 412 0. 2 4, 588 2. 2 6, 096 4. 6 231 0. 3 611 0. 1 402 0. 0. 3	73 0. 2	
Canning and preserving Percent of total Laundries Percent of total Dyeing and cleaning Percent of total	888 100. 0 965 100. 0 377 100. 0	96, 778 100. 0 57, 152 100. 0 11, 863 100. 0	883 99. 4 945 97. 9 372 98. 7	0.6 20 2.1 5 1.3		96, 678 99. 9 55, 789 97. 6 11, 460 96. 6	100 0. 1 1, 363 2. 4 403 3. 4		
Banks, brokerage, insurance, and real estate Percent of total	4, 569 100. 0	178, 777 100. 0	4, 564 99. 9	5 0. 1		178, 671 99. 9	106 0. 1		

<sup>1</sup> Less than one tenth of 1 percent.

## **Employment Created by Public-Works Fund**

THE Bureau of Labor Statistics is charged with the duty of showing each month the number of wage earners employed on work

financed from the \$3,300,000,000 public-works fund.

Public-works allotments are divided into two large classes. First, Federal allotments; second, non-Federal allotments. Federal allotments are monies which have been alloted to some branch of the United States Government. They are financed wholly by public-works funds. They include such types of projects as post-office buildings, built by the Procurement Division of the Treasury Department; naval vessels, built by the Bureau of Construction and Repair of the United States Navy Department; river, harbor, and flood-control work, supervised by the Corps of Engineers, War Department; and reclamation projects, such as the Boulder Dam and the Tennessee Valley project.

Whenever a contract is awarded by one of these Federal agencies, the name and address of the contractor, the type of project, and the amount of the contract is at once furnished to the Bureau of Labor Statistics. The Bureau then forwards a copy of its form (B.L.S. 742)

to each of the contractors, asking for the number of wage earners employed, the amount of pay rolls, and the number of man-hours worked, as well as the total amount of expenditures for materials purchased, for all pay-roll periods ending between the 15th of the past month and the 15th of the current month. The contractor in turn mails the schedule back to the Bureau, where the data are tabulated.

Information concerning non-Federal projects are obtained from the State engineers of the Public Works Administration. Whenever a contract for a non-Federal project is awarded, the procedure is exactly the same as described for Federal projects. Non-Federal projects include such work as road and street paving, sewerage systems and water works, school buildings, public buildings of all kinds, and slum clearance and housing projects. The Public Works Administration grants 30 percent of the total cost of non-Federal projects, and if necessary will loan the remaining 70 percent.

In addition to the work done by contractors, some Government departments, cities, and States do work under force account—that is, they hire the labor directly. Data concerning force-account work are obtained in the same manner as for contract work, except that the schedules are made out by the Federal, State, county, or city agency

The information shown in the following tables should be regarded as more or less of a preliminary report, as work financed from public-

works fund is just getting under way.

Table 1 shows employment, pay rolls, and man-hours worked on projects financed from public-works funds, during October 1933, by type of project.

TABLE 1.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON PROJECTS FINANCED FROM PUBLIC-WORKS FUNDS DURING OCTOBER 1933, BY TYPE OF PROJECT

Type of project	Num- ber of proj- ects re- ported	Number of wage earners em- ployed	Amount of pay roll	Number of man- hours worked		Average number of hours worked in month	Expendi- tures for material
Building construction Public roads. River, harbor, and flood control. Streets and roads <sup>2</sup> . Naval vessels. Reclamation. Water and sewerage. Miscellaneous  Total.	66 1,664 101 20 34 12 5 68	4, 157 94, 350 11, 639 1, 230 3, 626 3, 485 253 1, 815	\$387, 901 (1) 378, 035 62, 354 401, 294 204, 729 7, 929 135, 225 1, 577, 467	572, 293 (1) 693, 562 100, 437 515, 149 337, 530 12, 692 256, 621 2, 488, 284	\$0.678 (1) .545 .621 .779 .607 .625 .527	137. 7 (1) 59. 6 81. 7 142. 1 96. 9 50. 2 141. 4	\$412, 429 (1) 849, 249 73, 855 8, 248, 361 168, 880 7, 172 3 697, 285

For the month ending October 15, there were 120,555 employees directly engaged on construction jobs, excluding clerical and supervisory workers, whose wages were paid directly from public-works

Of the 120,555 people directly put to work on public-works construction projects up to October 15, 94,350 were working under the supervision of the Bureau of Public Roads. No data concerning

Data not available.
 Other than those reported by the Bureau of Public Roads.
 Includes \$544,385 worth of materials which cannot be charged to any specific type of project.

pay rolls, man-hours, or expenditures for materials were obtained from that Bureau. Beginning with the November figures, however, this information will be supplied.

Of the remaining 26,205 wage earners, the largest part were working on river, harbor, and flood-control projects. Building construction

accounted for the employment of the third largest group.

The pay roll for workers, excluding those on public roads, totaled \$1,577,467. As the men worked an aggregate of 2,488,284 hours, this makes an hourly rate of 63.4 cents. Pay rolls for work on naval vessels reached a larger total than pay rolls for any other type of River, harbor, and flood-control work created more hours project. of labor, however.

The average hourly rate of earnings for workers on naval vessels was 77.9 cents. All types of work, except river, harbor, flood-control, and miscellaneous projects paid an average of over 60 cents per hour.

Expenditures for materials ranged from less than \$7,500 in the case of water and sewerage projects to over \$8,000,000 in the case of naval vessels. During the month scheduled, \$10,457,231 was expended for materials purchased by contractors reporting to the Bureau.

Table 2 shows employment, pay rolls, and man-hours worked during October on projects financed from public-works funds, by geographic divisions.

Table 2.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS WORKED ON PROJECTS FINANCED FROM PUBLIC-WORKS FUNDS DURING OCTOBER 1933, BY GEOGRAPHIC DIVISIONS

	Number of wage earners employed on—		Amount	Number	Aver- age	Aver- age	<b>7</b> 7 11
Geographic division	Public roads	Projects other than public roads	Amount of pay roll i	of man- hours worked 1	earn- ings per hour <sup>1</sup>	number of hours worked in month	Expendi- tures for materials <sup>1</sup>
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	12, 363 20, 550 9, 522 16, 803 6, 241 11, 138 17, 733	3, 898 2, 286 3, 124 5, 731 3, 395 4, 184 3, 587	\$371, 351 201, 459 116, 901 170, 548 273, 203 182, 426 261, 579	523, 884 290, 745 179, 373 316, 620 393, 776 360, 361 423, 525	\$0.709 .693 .652 .539 .694 .506	134. 4 127. 2 57. 4 55. 2 116. 0 86. 1 118. 1	\$282, 475 7, 975, 438 187, 838 665, 676 328, 019 194, 733 278, 667
Total	94, 350	26, 205	1, 577, 467	2, 488, 284	. 634	95. 0	2 10, 457, 231

Of the 120,555 wage earners paid from public-works funds, over 20,000 worked in each of the following geographic divisions: Middle Atlantic States, West North Central States, and Mountain and Pacific States. The South Atlantic was the only geographic division having fewer than 10,000 workers paid from public-works funds.

The New England pay rolls reached a total of over \$370,000; the Middle Atlantic, South Atlantic, and Mountain and Pacific had pay

rolls totaling over \$200,000.

The highest earnings per hour, 70.9 cents, were shown in the New England States. This was followed by 69.4 cents in the South Atlantic and 69.3 cents in the Middle Atlantic States.

Excluding data for public roads which are not available.
 Includes \$544,385 worth of materials which cannot be charged to any specific geographic division.

By far the largest proportion of the material orders were placed by contractors located in the Middle Atlantic States. The preponderance of expenditures for materials to be used in the Middle Atlantic States was caused by the placing of an order for steel for battleship construction, amounting to over \$7,000,000. Materials purchased to be used in the West North Central States cost nearly \$700,000. In no other geographic division did expenditures for material total as much as \$400,000. Following is a list of the kinds of materials purchased, together with the expenditures for each type.

Kind	of	mater <b>i</b> als
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	Amount expended
Cement	\$71, 373
Chemicals	11, 804
Clay products	39, 735
Concrete products	19, 059
Cordage and twine	22, 173
Crushed stone	90, 301
Electrical machinery, apparatus, and supplies	40, 567
Explosives	14, 039
Forgings, iron and steel	10, 274
Foundry and machine-shop products not elsewhere classified	52, 748
Hardware, miscellaneous	22, 906
Hardware, miscellaneous	250, 812
Lighting equipment	34, 000
Lighting equipment Lumber and timber products not elsewhere classified	722, 778
Machine tools	56, 818
Marble, granite, slate, and other stone products	38, 787
Minerals and earths, ground or otherwise treated	13, 996
Nonferrous-metal alloys; nonferrous-metal products, except alu-	20,000
minum, not elsewhere specified	153, 281
Paving materials and mixtures	43, 244
Planing-mill products	22, 707
Pumps and pumping equipment	13, 281
Refrigerators, mechanical	38, 235
Sand and gravel	13, 164
Smelting and refining, lead	11, 660
Steel-works and rolling-mill products	8, 378, 478
Structural and ornamental metalwork, not made in plants operated	, ,
in connection with rolling mills	80, 964
Wire, drawn from purchased rods	43, 963
Other	146, 084
m 4 1	10 455 001

It will be seen from this list that manufacturers of many classes of materials will profit by the public-works program. It is estimated that the fabrication of the materials purchased will give employment to approximately 27,000 people.

Total 10, 457, 231

As already stated, this report must be classified as preliminary. Up to October 15 the construction program of the Public Works

Administration had not as yet assumed full force.

### Employment on Public Roads

THE following table shows the number of employees (excluding those employed on road projects financed from public-works funds) engaged in building and maintaining State and Federal roads during September and October 1933, by geographic divisions.

NUMBER OF EMPLOYEES ENGAGED IN THE CONSTRUCTION AND MAINTENANCE OF PUBLIC ROADS, STATE AND FEDERAL, DURING SEPTEMBER AND OCTOBER 1933, BY GEOGRAPHIC DIVISIONS <sup>1</sup>

Geographic division	Federal		State	
	September	October	September	October
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	3, 359 7, 872 16, 220 7, 594 9, 204 18, 058 17, 573	2, 640 5, 103 10, 357 5, 482 7, 040 14, 163 12, 087	22, 979 47, 121 40, 884 27, 780 42, 249 24, 869 16, 976	16, 103 45, 815 53, 210 32, 527 43, 970 22, 217 16, 129
Total	79, 880	56, 872 -28. 8	222, 858	229, 971 +3. 2

<sup>&</sup>lt;sup>1</sup> Exclusive of employment furnished by projects financed from public-works funds.

During the month of October there were 56,872 men employed on Federal road projects other than those financed from the public-works fund. This is a decrease of 28.8 percent as compared with September. The reason for the decrease in employees on Federal road work is that very few contracts are being awarded for road building from Federal funds outside of the public-works fund. There was an increase of over 64,000 in the number of people employed on public-road work financed from P.W.A. funds.

The number of people engaged on highway projects financed from State funds increased 3.2 percent in October as compared with September. The increases were confined to the East North Central, the West North Central, and the South Atlantic States. Decreases were shown in the other four divisions, with New England registering the largest falling-off in employment. Most of the employees working on road projects financed from State funds were engaged in maintenance work. Out of a total of 229,971 in October, 171,260, or 74.5 percent, were working at maintaining existing roads.