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# EMPLOYMENT and PAY ROLLS

DETAILED REPORT  
NOVEMBER 1947

United States Department of Labor  
Bureau of Labor Statistics

## ESTIMATES OF MANUFACTURING EMPLOYMENT - NEW SERIES

### Industries in the Products of Petroleum and Coal Group

In this detailed report the Bureau presents a new series of production-worker estimates for the individual industries comprising the products of petroleum and coal group. The new estimates, adjusted to benchmark data through 1945 from the Bureau of Employment Security of the Social Security Administration, correct the downward bias which has accumulated since 1939 and are, therefore, more representative of the true levels of employment.

The estimates and indexes for all industries in the group, with the exception of the coke and byproducts industry, have been adjusted. Despite the lapse of several years without any adjustment to levels other than the 1939 Census of Manufactures, the changes are relatively small.

This report shows the new production-worker employment estimates and indexes of employment and pay rolls for the months currently presented. A set of summary sheets presenting comparable data for the industries in the products of petroleum and coal group from January 1939 to date will be provided upon request.

U. S. Department of Labor  
Bureau of Labor Statistics

## EMPLOYMENT AND PAY ROLLS

## Detailed Report

November 1947

Explanatory notes outlining briefly the concepts, methodology, and sources used in preparing data for this report appear in the appendix. See pages i - vii.

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Data for the 2 most recent months shown are subject to revision.

Table 1. - Estimated Number of Wage and Salary Workers in  
Nonagricultural Establishments, by Industry Division

(In thousands)

Industry division	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
TOTAL	43,444	43,295	43,039	42,439	42,065
Manufacturing	15,861	15,831	15,801	15,271	15,064
Mining	897	895	894	883	883
Contract construction	1,854	1,896	1,904	1,713	1,753
Transportation and public utilities:	4,071	4,092	4,110	4,101	4,093
Transportation	2,866	2,894	2,905	2,955	2,956
Communication	713	707	713	687	680
Other public utilities	492	491	492	459	457
Trade	9,076	8,886	8,688	8,898	8,667
Finance	1,588	1,586	1,583	1,543	1,540
Service	4,669	4,662	4,634	4,555	4,514
Government:	5,428	5,447	5,425	5,475	5,551
Federal	1,751	1,744	1,761	2,065	2,100
State and local	3,677	3,703	3,664	3,410	3,451

See explanatory notes, sections A. - H.



Table 2. - Estimated Number of Wage and Salary Workers  
in Manufacturing Industries, by Major Industry Group

(In thousands)

Major industry group	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
ALL MANUFACTURING	15,861	15,831	15,801	15,271	15,064
<u>Durable goods</u>	7,986	7,925	7,875	7,721	7,623
Iron and steel and their products	1,873	1,864	1,862	1,800	1,761
Electrical machinery	757	749	738	763	751
Machinery, except electrical	1,539	1,534	1,530	1,479	1,458
Transportation equipment, except automobiles	570	543	529	592	588
Automobiles	993	991	987	954	954
Nonferrous metals and their products	466	464	461	488	483
Lumber and timber basic products	749	750	747	659	650
Furniture and finished lumber products	537	531	524	497	489
Stone, clay, and glass products	502	499	497	489	489
<u>Nondurable goods</u>	7,875	7,906	7,926	7,550	7,441
Textile-mill products and other fiber manufactures	1,354	1,333	1,307	1,340	1,322
Apparel and other finished textile products	1,338	1,349	1,312	1,209	1,211
Leather and leather products	411	408	406	398	395
Food	1,638	1,705	1,829	1,544	1,490
Tobacco manufactures	104	103	100	104	102
Paper and allied products	469	467	462	461	454
Printing; publishing, and allied industries	708	706	700	679	672
Chemicals and allied products	759	755	746	728	714
Products of petroleum and coal	233	233	233	222	222
Rubber products	276	272	267	294	290
Miscellaneous industries	585	575	564	571	569

See explanatory notes, section A - H.

Table 3.--Federal Employment and Pay Rolls in All Areas and in Continental United States and Total Government Employment and Pay Rolls in Washington, D. C.

(In thousands)

Area and branch	Employment (as of first of month)			Pay rolls (total for month)		
	1947		Nov. 1946	1947		Nov. 1946
	Nov. 1/	Oct. 1/		Nov. 1/	Oct. 1/	
<u>Total (including areas outside United States)</u>						
Total Federal	2,006.5	2,002.4	2,400.4	\$448,971	\$499,559	\$530,854
Executive	1,966.3	1,962.0	2,357.8	439,764	490,101	521,717
Defense agencies	905.2	901.2	1,229.7	185,173	214,651	261,404
Post Office Dept.	429.8	425.0	426.2	101,000	99,713	96,174
Other agencies	631.3	635.8	701.9	153,591	175,737	164,139
Legislative	7.1	7.1	6.9	2,457	2,457	2,127
Judicial	3.5	3.4	3.1	1,191	1,334	1,193
Government corps.	29.6	29.9	32.6	5,559	5,667	5,817
<u>Continental United States</u>						
Total Federal	1,771.4	1,764.5	2,084.1	413,728	457,944	488,250
Executive	1,738.6	1,731.4	2,049.3	405,131	449,085	479,844
Defense agencies	706.4	699.8	949.1	157,069	180,915	225,897
Post Office Dept.	428.3	423.5	424.8	100,639	99,356	95,876
Other agencies	603.9	608.1	675.4	147,423	168,814	158,071
Legislative	7.0	7.1	6.9	2,457	2,457	2,127
Judicial	3.4	3.4	3.0	1,154	1,297	1,160
Government corps.	22.4	22.6	24.9	4,986	5,105	5,119
<u>Washington, D. C.</u>						
Total government	221.4	221.2	249.8	58,357	65,557	64,576
District of Columbia government	18.3	18.3	17.6	4,214	4,497	4,090
Federal	203.1	202.9	232.2	54,143	61,060	60,486
Executive	195.4	195.2	224.7	51,491	58,387	58,163
Defense agencies	64.5	64.5	79.1	15,616	17,495	20,758
Post Office Dept.	7.3	7.3	7.5	2,731	2,744	2,261
Other agencies	123.6	123.4	138.1	33,144	38,148	35,144
Legislative	7.1	7.1	6.9	2,457	2,457	2,127
Judicial	.6	.6	.6	195	216	196

1/ Data for Central Intelligence Agency are excluded for security reasons.

Table 4.-- Personnel and Pay of the Military Branch of the Federal Government

(In thousands)

Personnel and pay	1947		November 1946	Average monthly per- sonnel and total annual pay	
	November	October		1943	1939
Personnel, total as of first of month including those on active duty and those on terminal leave .....	1,490	1,543	2,441	8,944	345
Army .....	920	941	1,717	6,733	192
Navy .....	459	491	585	1,744	124
Marine Corps .....	92	92	117	311	19
Coast Guard .....	19	19	22	156	10
Men .....	1,473	1,525	2,412	8,833	<u>1/</u>
Women .....	17	18	29	111	<u>1/</u>
Pay, total .....	\$303,763	\$346,961	\$736,851	\$11,173,186	\$331,523
Army .....	180,971	205,578	456,558	8,143,833	155,482
Navy .....	102,562	119,898	230,902	2,408,736	143,238
Marine Corps.....	16,046	16,684	41,013	392,140	16,877
Coast Guard .....	4,184	4,801	8,378	228,477	15,926
Pay rolls .....	246,170	262,040 <u>2/</u>	349,749	10,140,852	331,523
Mustering-out pay .....	9,117	9,954	50,617	-	-
Family allowances .....	23,127	25,145	35,316	1,032,334	-
Leave payments .....	25,349	49,822	301,169	-	-
Cash .....	3,982	6,430	19,610	-	-
Bonds .....	21,367	43,392	281,559	-	-

1/ Data not available.2/ Includes for first time lump-sum payments for terminal leave authorized by Public Law 350 of the 80th Congress. Also includes quarterly cash payments for clothing allowances for Navy and Coast Guard.



Table 5.- Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State\*  
(In thousands)

Region and State	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
<b>New England</b>					
Maine	113.1	114.7	114.5	117.7	117.6
New Hampshire	82.9	82.1	80.7	79.0	79.6
Vermont	39.7	39.9	40.2	42.1	41.6
Massachusetts	741.6	732.5	720.4	754.1	750.0
Rhode Island	152.9	148.1	143.0	150.5	147.7
Connecticut	414.3	411.1	407.8	410.9	406.7
<b>Middle Atlantic</b>					
New York	1,922.8	1,900.1	1,870.8	1,928.9	1,926.8
New Jersey	751.4	749.2	735.9	753.2	748.9
Pennsylvania	1,519.1	1,505.5	1,491.7	1,458.1	1,482.6
<b>East North Central</b>					
Ohio	1,244.7	1,244.0	1,238.1	1,230.5	1,223.5
Indiana	562.7	580.0	552.3	538.3	545.1
Illinois	1,257.0	1,249.0	1,237.8	1,203.4	1,195.7
Michigan	1,021.8	1,023.3	1,004.6	1,033.3	1,040.6
Wisconsin	432.7	444.2	442.1	412.8	417.8
<b>West North Central</b>					
Minnesota	199.0	209.9	201.6	196.0	200.0
Iowa	148.6	149.4	149.1	132.0	136.4
Missouri	362.6	356.8	356.6	343.7	340.2
North Dakota	7.0	7.0	7.2	6.0	5.9
South Dakota	11.4	11.3	11.5	8.4	8.2
Nebraska	45.1	43.1	43.2	39.6	40.3
Kansas	79.8	79.4	80.0	74.0	73.7
<b>South Atlantic</b>					
Delaware	45.6	48.2	48.4	45.1	48.0
Maryland	229.3	232.4	228.2	238.6	245.3
District of Columbia	17.5	17.5	17.3	16.7	16.7
Virginia	217.7	214.5	211.5	211.4	211.4
West Virginia	133.6	132.8	132.5	131.4	132.9
North Carolina	373.6	367.7	366.1	*363.7	361.9
South Carolina	194.8	192.3	192.0	183.3	182.8
Georgia	253.9	251.9	248.5	261.5	260.8
Florida	80.6	78.6	76.8	79.6	77.1
<b>East South Central</b>					
Kentucky	130.3	128.2	125.8	122.2	126.2
Tennessee	253.8	251.8	250.8	245.0	243.2
Alabama	220.9	217.5	219.8	215.2	212.0
Mississippi	94.1	95.0	95.3	87.3	87.2
<b>West South Central</b>					
Arkansas	76.0	74.9	74.0	69.7	69.1
Louisiana	143.5	142.7	142.6	128.8	127.1
Oklahoma	55.7	55.2	55.2	52.6	52.2
Texas	339.9	337.8	341.5	316.1	312.1



Table 5. - Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State\* - Continued  
(In thousands)

Region and State	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
Mountain					
Montana	19.1	18.1	18.2	18.0	16.9
Idaho	20.4	19.3	19.5	21.7	23.2
Wyoming	7.1	6.8	6.8	6.7	5.9
Colorado	60.6	57.9	56.6	56.9	55.5
New Mexico	10.2	10.1	10.2	10.3	10.5
Arizona	12.6	12.7	12.5	12.7	12.2
Utah	32.0	30.1	26.3	26.2	28.8
Nevada	3.7	3.7	3.7	3.4	3.4
Pacific					
Washington	179.6	191.7	185.0	174.1	177.8
Oregon	117.2	122.2	122.4	122.2	127.4
California	734.3	744.1	759.9	725.5	738.8

Table 5a. - Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States\*  
(In thousands)

State	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
Illinois	3,166	3,142	3,123	3,048	3,018
Massachusetts	1,722	1,707	1,684	1,723	1,714
Montana	137	137	135	133	132
New Jersey	1,576	1,574	1,562	1,561	1,557
New York	5,482	5,440	5,385	5,401	5,363
Pennsylvania	3,604	3,574	3,540	3,465	3,478
Texas	1,675	1,662	1,659	1,613	1,609
Wisconsin	982	998	987	941	947

See explanatory notes, sections H and I.

\* Revised data in all except the first two columns are identified by an asterisk for the first month of publication of such data.

Table 6. - Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
ALL MANUFACTURING	12,876	12,849	12,832	12,449	12,253
Durable goods	6,574	6,518	6,473	6,379	6,281
Nondurable goods	6,302	6,331	6,359	6,070	5,972
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS	1,592	1,583	1,580	1,535	1,500
Blast furnaces, steel works, and rolling mills	497.9	498.1	498.8	481.5	473.5
Gray-iron and semisteel castings	83.6	83.7	83.2	84.1	81.9
Malleable-iron castings	27.2	26.7	26.4	24.8	24.4
Steel castings	49.1	49.0	49.1	51.2	48.8
Cast-iron pipe and fittings	21.0	20.8	20.6	19.4	19.1
Tin cans and other tinware	46.4	46.4	47.8	41.3	42.2
Wire drawn from purchased rods	30.7	30.5	30.1	29.9	29.2
Wirework	40.0	40.2	40.8	40.9	41.3
Cutlery and edge tools	24.3	24.1	23.5	27.3	25.8
Tools (except edge tools, machine tools, files, and saws)	25.0	24.6	24.3	26.4	26.8
Hardware	50.4	49.6	48.7	49.5	48.3
Plumbers' supplies	29.3	28.6	28.4	29.2	23.5
Stoves, oil burners, and heating equipment not elsewhere classified	68.0	67.7	67.2	62.0	60.3
Steam and hot-water heating apparatus and steam fittings	45.6	45.7	45.4	51.4	50.2
Stamped and enameled ware and galvanizing	86.2	85.5	85.2	83.7	82.1
Fabricated structural and ornamental metalwork	59.5	59.0	59.5	56.9	55.1
Metal doors, sash, frames, molding, and trim	10.6	10.4	10.2	10.1	10.0
Bolts, nuts, washers, and rivets	21.0	20.6	21.0	21.0	20.6
Forgings, iron and steel	27.2	27.1	26.9	26.7	26.5
Wrought pipe, welded and heavy-riveted 1/	14.0	13.6	13.2	13.8	13.1
Screw-machine products and wood screws	26.2	26.1	26.1	29.3	29.0
Steel barrels, kegs, and drums	5.9	5.9	6.1	6.3	6.3
Firearms	14.2	14.1	13.7	14.2	14.2
ELECTRICAL MACHINERY	584	577	567	590	579
Electrical equipment	314.5	312.2	309.8	310.9	307.6
Radios and phonographs	87.7	86.3	82.5	91.5	88.5
Communication equipment	80.4	79.0	77.5	92.2	90.6

See explanatory notes, section A, C, and G.

Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Cont

(In thousands)

Industry group and industry	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
MACHINERY, EXCEPT ELECTRICAL	1,194	1,190	1,185	1,150	1,131
Machinery and machine-shop products	376.1	377.8	378.3	377.7	370.3
Engines and turbines	42.7	43.0	43.2	45.6	44.8
Tractors	57.8	57.2	56.4	53.7	53.7
Agricultural machinery, excluding tractors	51.4	51.1	51.3	43.5	42.3
Machine tools	50.3	51.4	51.7	60.3	62.0
Machine-tool accessories	42.2	42.1	42.5	51.8	51.2
Textile machinery	39.2	38.7	36.9	34.7	33.9
Pumps and pumping equipment	54.6	54.7	56.1	58.3	57.4
Typewriters	24.8	24.4	23.9	22.2	21.3
Cash registers, adding and calculating machines	43.4	42.4	41.6	36.4	35.4
Washing machines, wringers and driers, domestic	15.5	15.1	14.8	12.6	12.0
Sewing machines, domestic and industrial	12.8	12.4	12.0	10.5	10.3
Refrigerators and refrigeration equipment	78.8	78.6	78.1	64.2	63.5
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	443	420	406	464	457
Locomotives	26.0	25.9	25.1	27.1	27.4
Cars, electric- and steam-railroad	56.8	55.2	55.4	50.3	48.5
Aircraft and parts, excluding aircraft engines	133.1	133.0	129.7	146.3	143.2
Aircraft engines	25.9	26.2	26.6	29.3	28.6
Shipbuilding and boatbuilding	118.0	101.1	93.0	133.8	133.9
Motorcycles, bicycles, and parts	14.6	14.2	13.9	11.7	11.5
AUTOMOBILES	797	795	798	778	774
NONFERROUS METALS AND THEIR PRODUCTS	399	397	394	422	417
Smelting and refining, primary, of nonferrous metals	39.1	39.2	39.3	39.3	38.6
Alloying; and rolling and drawing of nonferrous metals, except aluminum	52.1	52.3	52.5	62.0	61.5
Clocks and watches	28.0	27.7	27.5	28.5	28.2
Jewelry (precious metals) and jewelers' findings	18.1	17.8	17.1	17.4	17.4
Silverware and plated ware	17.2	17.0	16.6	15.1	14.7
Lighting equipment	29.0	29.6	29.9	31.2	31.2
Aluminum manufactures	43.0	42.5	41.8	50.9	50.6
Sheet-metal work, not elsewhere classified	25.9	25.7	24.9	27.2	26.7



Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
<b>LUMBER AND TIMBER BASIC PRODUCTS 2/</b>	680	681	678	599	590
Sawmills and logging camps	547.3	550.2	549.6	479.5	473.8
Planing and plywood mills	132.4	129.8	128.1	119.1	116.6
<b>FURNITURE AND FINISHED LUMBER PRODUCTS 2/</b>	453	446	438	419	411
Mattresses and bedsprings	35.9	34.9	33.3	31.5	30.1
Furniture	243.6	238.6	233.1	223.5	220.0
Wooden boxes, other than cigar	35.3	36.0	35.8	34.2	33.6
Caskets and other morticians' goods	19.7	19.4	19.6	18.7	17.3
Wood preserving	17.3	17.9	18.2	16.5	16.5
Wood, turned and shaped	32.5	31.6	31.4	30.7	30.3
<b>STONE, CLAY, AND GLASS PRODUCTS 2/</b>	432	429	427	422	422
Glass and glassware	120.0	120.0	118.9	122.9	124.2
Glass products made from purchased glass	12.6	12.2	12.0	12.7	12.4
Cement	36.9	36.8	37.0	34.7	34.6
Brick, tile, and terra cotta	75.5	75.6	75.4	69.4	70.9
Pottery and related products	57.2	56.1	55.9	54.1	53.7
Gypsum	6.5	6.4	6.1	6.1	5.8
Wallboard, plaster (except gypsum), and mineral wool	12.7	12.3	12.1	11.0	10.8
Lime	9.5	9.1	9.2	9.0	9.0
Marble, granite, slate, and other products	18.5	18.4	18.5	17.2	17.2
Abrasives	16.5	16.5	16.9	20.0	19.8
Asbestos products	21.3	21.3	21.0	21.6	21.3
<b><u>Nondurable Goods</u></b>					
<b>TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 2/</b>	1,238	1,217	1,192	1,230	1,215
Cotton manufactures, except smallwares	516.9	508.2	498.9	512.3	505.3
Cotton smallwares	13.9	13.7	13.4	15.8	15.9
Silk and rayon goods	106.9	105.7	103.3	105.9	104.6
Woolen and worsted manufactures, except dyeing and finishing	174.2	170.9	168.7	179.2	177.0
Hosiery	136.2	133.4	130.2	134.7	132.5
Knitted cloth	11.5	11.2	11.0	12.9	12.8
Knitted outerwear and knitted gloves	31.4	30.8	29.6	36.1	35.3
Knitted underwear	47.9	46.9	45.6	40.8	40.3
Dyeing and finishing textiles, including woolen and worsted	85.9	85.1	83.0	83.8	82.7
Carpets and rugs, wool	34.4	33.6	32.9	28.7	27.9
Hats, fur-felt	13.6	13.6	13.2	13.6	13.3
Jute goods, except felts	3.0	3.0	2.9	4.1	4.3
Cordage and twine	16.1	15.4	14.7	17.0	17.2



Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Contd

(In thousands)

Industry group and industry	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 2/	1,171	1,181	1,149	1,063	1,065
Men's clothing, not elsewhere classified	309.2	306.9	299.4	279.8	270.3
Shirts, collars, and nightwear	81.1	79.3	77.2	68.9	65.2
Underwear and neckwear, men's	18.1	17.3	17.1	18.6	18.5
Work shirts	16.1	15.8	15.9	15.4	15.0
Women's clothing, not elsewhere classified	452.1	462.3	452.1	406.8	417.9
Corsets and allied garments	19.3	18.7	18.1	16.6	16.3
Millinery	21.2	25.2	23.8	20.2	24.3
Handkerchiefs	5.2	5.1	5.0	4.4	4.4
Curtains, draperies, and bedspreads	32.1	30.9	28.7	29.5	30.2
Housefurnishings, other than curtains, etc.	30.0	31.6	30.6	29.3	30.1
Textile bags	28.3	28.1	27.8	28.9	28.2
LEATHER AND LEATHER PRODUCTS 2/	369	366	364	357	355
Leather	46.9	46.9	46.7	43.3	44.0
Boot and shoe cut stock and findings	19.8	19.6	19.3	20.7	20.3
Boots and shoes	227.5	225.8	225.1	218.6	216.3
Leather gloves and mittens	13.2	13.1	12.8	13.9	14.0
Trunks and suitcases	14.7	14.4	13.5	14.8	15.0
FOOD 2/	1,197	1,259	1,381	1,141	1,091
Slaughtering and meat packing	191.7	183.0	182.0	163.2	92.9
Butter	33.8	34.9	35.8	35.8	36.3
Condensed and evaporated milk	19.5	20.5	21.2	19.3	19.9
Ice cream	26.3	27.8	31.1	24.7	25.7
Flour	39.7	39.8	39.0	39.1	38.9
Feeds, prepared	28.5	28.9	29.6	27.5	27.6
Cereal preparations	13.0	13.0	14.0	13.9	13.8
Baking	224.8	224.5	219.8	211.9	205.3
Sugar refining, cane	20.8	20.5	20.8	15.5	14.0
Sugar, beet	26.0	26.3	11.9	27.1	24.1
Confectionery	79.5	76.4	68.3	63.7	63.0
Beverages, nonalcoholic	34.3	35.8	39.3	27.5	27.5
Malt liquors	73.3	74.7	76.2	63.0	63.4
Canning and preserving	172.0	240.1	384.3	215.6	270.0
TOBACCO MANUFACTURES	90	89	86	91	89
Cigarettes	34.0	33.4	32.6	34.5	33.9
Cigars	42.2	41.6	40.3	42.3	41.4
Tobacco (chewing and smoking) and snuff	7.2	7.3	7.1	8.0	7.8

Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
PAPER AND ALLIED PRODUCTS <u>2/</u>	387	385	381	383	376
Paper and pulp	197.6	196.9	197.0	190.0	187.7
Paper goods, other	58.7	58.6	57.3	57.9	56.8
Envelopes	12.4	12.2	12.0	11.8	11.4
Paper bags	17.9	17.9	17.7	19.2	18.7
Paper boxes	99.1	98.1	96.0	103.2	100.4
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>2/</u>	435	433	429	415	410
Newspapers and periodicals	145.1	144.6	144.4	135.0	133.9
Printing; book and job	182.0	180.7	177.5	176.5	174.3
Lithographing	33.0	32.6	32.4	32.5	32.0
Bookbinding	38.7	38.5	38.2	36.4	35.6
CHEMICALS AND ALLIED PRODUCTS	575	572	563	550	539
Paints, varnishes, and colors	36.9	36.7	36.5	35.9	36.0
Drugs, medicines, and insecticides	50.7	51.3	51.4	53.5	53.1
Perfumes and cosmetics	10.7	10.4	9.8	12.4	12.6
Soap	16.4	16.1	15.7	13.8	13.7
Rayon and allied products	59.5	59.5	58.8	58.9	57.8
Chemicals, not elsewhere classified	123.9	123.3	123.6	120.5	118.1
Explosives and safety fuses	14.1	13.9	13.8	12.7	12.9
Compressed and liquefied gases	6.2	6.1	6.3	5.8	5.3
Ammunition, small-arms	7.1	7.0	6.9	6.8	6.9
Fireworks	2.8	2.8	2.4	3.5	3.4
Cottonseed oil	19.9	19.5	15.2	20.5	17.5
Fertilizers	22.7	22.8	22.9	22.1	22.0
PRODUCTS OF PETROLEUM AND COAL <u>2/</u>	162	162	163	155	155
Petroleum refining	109.5	109.7	110.8	106.9	106.8
Coke and byproducts	29.9	29.7	29.3	27.6	27.7
Paving materials	3.4	3.4	3.4	2.4	2.7
Roofing materials	18.5	18.4	18.4	17.4	17.2

See explanatory notes, sections A, C, and G.

Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
RUBBER PRODUCTS <sup>2/</sup>	224	220	215	240	236
Rubber tires and inner tubes	115.1	114.4	112.5	129.2	127.1
Rubber boots and shoes	22.0	21.7	21.0	22.4	21.4
Rubber goods, other	87.0	84.0	81.9	88.8	87.1
MISCELLANEOUS INDUSTRIES <sup>2/</sup>	454	447	436	445	441
Instruments (professional and scientific), and fire-control equipment	27.5	28.0	27.7	27.0	28.5
Photographic apparatus	39.9	38.7	38.2	35.3	35.1
Optical instruments and ophthalmic goods	27.6	27.5	27.5	30.0	29.8
Pianos, organs, and parts	17.8	17.4	16.5	13.8	13.4
Games, toys, and dolls	43.4	42.3	40.9	35.0	33.7
Buttons	12.7	12.1	11.6	14.2	14.6
Fire extinguishers	2.7	2.8	2.8	3.0	2.9

See explanatory notes, sections A, C, and G.

- <sup>1/</sup> Revisions have been made as follows in the data for earlier months:  
Wrought pipe, welded and heavy-riveted - July 1947 to 12.8.
- <sup>2/</sup> Estimates for the individual industries comprising the major industry group have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable series from January 1939 are available upon request. More recently adjusted data for the individual industries comprising the major industry group indicated below supersede data shown in publications dated prior to:

Major industry group	Mimeographed release	Monthly Labor Review
Food	November 1947	December 1947
Miscellaneous industries	November 1947	December 1947
Textile-mill products and other fiber manufactures	December 1947	January 1948
Products of petroleum and coal	January 1948	February 1948



Table 7. - Estimated Employment in  
Selected Nonmanufacturing Industries

(In thousands)

Industry group and industry <u>1/</u>	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
<b>MINING: <u>2/</u></b>					
Coal:					
Anthracite	67.0	67.0	66.9	68.7	68.9
Bituminous coal	335	333	331	334	334
Metal	77.9	77.5	77.9	75.2	74.1
Iron	29.2	29.6	29.7	27.5	27.8
Copper	24.5	24.3	24.3	22.5	21.8
Lead and zinc	14.3	13.8	13.9	15.5	15.0
Gold and silver	7.7	7.6	7.8	7.3	7.2
Miscellaneous	2.3	2.2	2.2	2.4	2.3
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>					
Class I steam railways <u>3/</u>	1,341	1,357	1,364	1,382	1,376
Street railways and busses <u>4/</u>	249	249	251	253	252
Telephone	614	609	613	583	577
Telegraph <u>5/</u>	36.6	36.9	37.6	40.9	41.5
Electric light and power	268	267	268	250	249
<b>SERVICE:</b>					
Hotels (year-round)	378	380	379	388	389
Power laundries <u>2/</u>	6/	6/	6/	6/	6/
Cleaning and dyeing <u>2/</u>	6/	6/	6/	6/	6/

See explanatory notes, section G.

- 1/ Includes all employees unless otherwise noted.
- 2/ Includes production and related workers only.
- 3/ Includes all employees at middle of month. Excludes employees of switching and terminal companies. Class I steam railways include those with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.
- 4/ Includes private and municipal street railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.
- 5/ Includes all land line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.
- 6/ The change in definition from "wage earner" to "production worker" in the power laundries and cleaning and dyeing industries results in the omission of driver-salesmen. This causes a significant difference in the data. New series are being prepared.



Table 8. - Indexes of Production-Worker Employment and Pay Rolls  
in Manufacturing Industries  
(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
ALL MANUFACTURING	157.2	156.8	156.6	152.0	344.8	341.5	336.9	298.2
Durable goods	182.1	180.5	179.3	176.7	384.5	379.3	372.0	331.1
Nondurable goods	137.6	138.2	138.8	132.5	306.1	304.6	302.5	266.0
<u>Durable Goods</u>								
IRON AND STEEL AND THEIR PRODUCTS	160.6	159.7	159.3	154.9	333.4	327.6	324.5	280.8
Blast furnaces, steel works, and rolling mills	128.2	128.2	128.4	124.0	254.6	247.5	250.4	208.7
Gray-iron and semisteel castings	143.0	143.2	142.3	144.0	318.1	324.4	321.9	299.6
Malleable-iron castings	150.7	148.2	146.4	137.5	362.8	354.8	337.2	294.4
Steel castings	163.1	162.8	163.1	170.3	337.5	333.0	326.4	315.5
Cast-iron pipe and fittings	126.9	126.1	125.0	117.6	302.2	303.9	292.7	262.4
Tin cans and other tinware	146.0	146.0	150.4	129.9	315.9	327.3	344.9	232.6
Wire drawn from purchased rods	139.6	139.0	137.1	136.3	266.0	263.9	256.2	240.7
Wirework	131.8	132.3	134.4	134.6	293.3	285.4	286.2	261.7
Cutlery and edge tools	157.9	156.1	152.2	177.3	379.6	368.4	355.9	389.9
Tools (except edge tools, machine tools, files, and saws)	163.6	160.7	158.9	172.4	357.5	347.7	343.6	348.8
Hardware	141.3	139.2	136.7	139.0	323.8	316.8	304.6	281.5
Plumbers' supplies	118.7	116.1	115.4	118.6	255.6	242.4	230.6	216.2
Stoves, oil burners, and heating equipment not elsewhere classified	147.3	146.8	145.6	134.4	317.2	327.9	313.8	265.0
Steam and hot-water heating apparatus and steam fittings	150.6	150.6	149.7	169.7	330.2	317.7	311.1	328.4
Stamped and enameled ware and galvanizing	155.1	153.9	153.4	150.7	356.9	351.2	344.6	303.2
Fabricated structural and ornamental metalwork	167.6	166.1	167.5	160.3	345.2	342.9	335.2	275.3
Metal doors, sash, frames, molding, and trim	136.4	134.0	131.1	131.0	291.2	286.0	276.8	250.2
Bolts, nuts, washers, and rivets	146.9	143.9	146.6	147.1	309.1	305.2	292.5	270.3
Forgings, iron and steel	177.3	176.6	175.1	173.9	380.7	381.8	359.3	323.6
Wrought pipe, welded and heavy-riveted 1/	167.1	162.7	157.8	164.8	349.9	337.9	314.1	295.5
Screw-machine products and wood screws	154.5	154.5	154.3	173.2	331.7	334.2	326.1	349.6
Steel barrels, kegs, and drums	97.3	97.6	100.5	103.8	243.4	236.7	257.6	237.2
Firearms	284.6	281.7	274.4	284.0	627.0	615.4	605.7	569.9
ELECTRICAL MACHINERY	225.5	222.8	218.9	227.6	462.8	455.9	442.2	416.0
Electrical equipment	174.0	172.7	171.4	172.0	354.2	349.6	344.4	308.3
Radios and phonographs	201.5	198.4	189.7	210.2	448.7	445.3	419.8	427.3
Communication equipment	250.3	245.8	241.2	287.0	496.8	486.4	459.3	521.3

See explanatory notes, sections A, C, F, and G.

16.  
Table 8. - Indexes of Production-Worker Employment and Pay Rolls  
in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
MACHINERY, EXCEPT ELECTRICAL	225.9	225.1	224.3	217.7	450.4	448.9	442.6	390.1
Machinery and machine-shop products	185.9	186.7	187.0	186.7	374.3	373.6	372.0	336.8
Engines and turbines	228.7	230.6	231.4	244.5	515.0	493.4	507.3	492.4
Tractors	184.7	182.7	180.2	171.6	331.8	328.5	318.2	269.9
Agricultural machinery, excluding tractors	184.8	183.6	184.5	156.3	376.6	394.4	387.3	280.7
Machine tools	137.4	140.4	141.2	164.6	249.5	253.9	254.2	285.5
Machine-tool accessories	167.7	167.3	168.7	205.9	294.6	294.6	296.1	343.4
Textile machinery	179.1	176.9	168.4	158.5	390.3	376.4	361.4	301.1
Pumps and pumping equipment	225.3	225.8	231.4	240.6	470.9	474.9	488.0	451.1
Typewriters	153.2	150.6	147.6	137.2	352.8	337.5	317.6	279.0
Cash registers, adding and calculating machines	220.7	215.5	211.2	185.2	456.5	449.5	436.4	352.0
Washing machines, wringers and driers, domestic	208.0	202.3	197.6	168.2	442.9	424.6	395.0	291.7
Sewing machines, domestic and industrial	163.2	157.9	152.7	133.6	376.3	364.8	343.9	260.5
Refrigerators and refrigeration equipment	224.2	223.4	222.2	182.6	427.8	440.4	421.3	301.9
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	279.1	264.8	255.6	292.4	544.0	533.4	499.9	531.1
Locomotives	402.0	400.5	388.1	419.4	863.1	870.1	875.3	836.8
Cars, electric- and steam-railroad	231.4	225.2	225.7	205.2	503.5	493.6	468.8	406.6
Aircraft and parts, excluding aircraft engines	335.5	335.3	327.0	368.8	650.6	662.0	623.3	680.4
Aircraft engines	291.0	294.8	299.2	329.8	479.2	499.9	501.3	484.3
Shipbuilding and boatbuilding	170.5	146.0	134.3	193.2	318.1	293.1	262.0	336.8
Motorcycles, bicycles, and parts	209.0	203.8	200.0	168.1	442.7	432.2	404.9	318.4
AUTOMOBILES	198.2	197.7	198.3	193.3	388.1	378.5	373.5	325.7
NONFERROUS METALS AND THEIR PRODUCTS	173.9	173.3	171.7	184.0	357.9	353.2	343.6	345.3
Smelting and refining, primary, of nonferrous metals	141.5	141.9	142.2	142.1	295.7	291.9	298.7	256.8
Alloying; and rolling and drawing of nonferrous metals, except aluminum	134.2	134.7	135.2	159.7	259.7	257.0	254.4	290.0
Clocks and watches	137.8	136.7	135.3	140.5	325.5	315.7	307.8	309.6
Jewelry (precious metals) and jewelers' findings	125.4	123.2	118.6	120.3	262.6	254.9	233.7	231.0
Silverware and plated ware	141.8	139.8	136.6	124.5	329.0	322.2	312.5	261.4
Lighting equipment	141.7	144.4	146.0	152.5	282.8	283.4	277.1	271.2
Aluminum manufactures	182.5	180.5	177.7	216.3	346.4	340.7	321.5	373.7
Sheet-metal work, not elsewhere classified	138.3	137.3	133.0	145.2	290.2	292.8	278.1	278.0

Table 8. - Indexes of Production-Worker Employment and Pay Rolls  
in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
<b>LUMBER AND TIMBER BASIC PRODUCTS 2/</b>	161.7	162.1	161.2	142.4	388.6	387.6	388.6	284.7
Sawmills and logging camps 1/	174.5	175.4	175.2	152.9	425.3	425.2	430.5	305.7
Planing and plywood mills	167.4	164.1	161.9	150.5	385.5	381.2	368.1	291.3
<b>FURNITURE AND FINISHED LUMBER PRODUCTS 2/</b>	138.2	136.1	133.5	127.7	322.1	318.5	305.0	268.5
Mattresses and bedsprings	174.9	170.3	162.3	153.6	372.6	378.7	356.0	305.8
Furniture	136.9	134.1	131.0	125.6	323.2	315.0	297.9	263.7
Wooden boxes, other than cigar	124.6	127.1	126.3	120.7	301.9	308.8	305.0	266.3
Caskets and other morticians' goods	141.5	139.6	140.6	134.7	287.3	281.4	283.4	248.2
Wood preserving	137.9	142.4	145.1	131.6	355.6	384.2	393.7	314.6
Wood, turned and shaped	132.1	128.5	127.9	124.9	290.8	287.8	281.2	263.1
<b>STONE, CLAY, AND GLASS PRODUCTS 2/</b>	147.1	146.0	145.5	143.9	316.3	313.6	306.0	274.8
Glass and glassware	168.2	168.2	166.7	172.2	358.6	351.2	342.8	319.4
Glass products made from purchased glass	125.7	121.5	120.1	127.1	270.1	264.5	251.5	252.6
Cement	151.4	151.1	152.1	142.6	297.6	294.7	298.3	244.4
Brick, tile, and terra cotta	130.1	130.2	129.8	119.5	296.5	300.2	294.1	242.2
Pottery and related products	169.0	166.0	165.2	160.0	341.9	342.7	326.5	286.2
Gypsum	132.4	128.7	124.2	124.1	284.5	278.1	258.3	241.5
Wallboard, plaster (except gypsum), and mineral wool	156.4	151.2	149.4	135.7	381.5	368.4	357.8	290.1
Lime	99.9	95.8	97.0	95.2	259.5	258.9	245.5	221.4
Marble, granite, slate, and other products	100.1	99.2	99.9	93.2	175.9	183.5	180.9	151.5
Abrasives	213.7	213.8	217.9	259.0	418.2	408.0	418.2	440.8
Asbestos products	134.1	134.4	132.0	136.0	313.6	305.6	299.2	293.4
<b>Nondurable Goods</b>								
<b>TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 2/</b>	108.2	106.4	104.2	107.6	280.8	264.9	256.3	246.0
Cotton manufactures, except smallwares	123.6	121.5	119.3	122.5	362.1	329.1	317.4	305.9
Cotton smallwares	98.6	97.2	95.2	112.0	215.1	213.6	210.6	229.9
Silk and rayon goods	84.4	83.5	81.6	83.6	236.6	227.6	220.2	202.4
Woolen and worsted manufactures, except dyeing and finishing	110.5	108.4	107.0	113.6	276.6	270.4	268.5	253.7
Hosiery	81.1	79.4	77.5	80.2	186.4	177.2	166.4	167.6
Knitted cloth	99.4	97.1	95.2	111.6	221.7	214.4	207.8	235.7
Knitted outerwear and knitted gloves	105.5	103.5	99.5	121.4	243.0	237.0	215.3	273.5
Knitted underwear	117.6	115.3	111.9	100.2	293.3	282.8	274.3	225.5
Dyeing and finishing textiles including woolen and worsted	121.6	120.5	117.6	118.6	279.8	271.3	269.5	246.9
Carpets and rugs, wool	127.1	124.4	121.7	106.1	297.6	288.7	276.5	215.6
Hats, fur-felt	88.5	88.4	85.8	88.3	181.9	185.9	177.2	202.8
Jute goods, except felts	79.4	79.5	76.6	107.0	170.1	168.7	163.7	241.7
Cordage and twine	125.7	120.4	115.3	133.1	300.6	282.0	258.6	283.4



Table 8. - Indexes of Production-Worker Employment and Pay Rolls  
in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>2/</u>	148.3	149.6	145.6	134.6	319.6	336.0	318.5	283.2
Men's clothing, not elsewhere classified	134.7	133.6	130.4	121.8	301.5	303.5	284.9	271.9
Shirts, collars, and nightwear	109.7	107.2	104.4	93.1	266.0	258.9	243.2	217.7
Underwear and neckwear, men's <u>1/</u>	106.5	102.3	101.1	109.6	292.9	280.2	261.3	285.7
Work shirts	113.7	111.7	112.4	108.7	269.5	260.4	266.9	262.0
Women's clothing, not elsewhere classified	158.0	161.5	158.0	142.1	319.3	349.5	334.7	284.9
Corsets and allied garments <u>1/</u>	102.8	99.8	96.5	88.2	225.7	218.5	205.4	182.8
Millinery	83.2	98.9	93.4	79.2	120.3	195.2	173.1	117.2
Handkerchiefs	102.8	100.9	98.3	87.1	260.4	251.4	239.4	204.5
Curtains, draperies, and bedspreads	180.9	173.7	161.4	166.2	422.2	412.1	371.9	368.1
Housefurnishings, other than curtains, etc.	268.7	283.4	274.0	262.6	590.1	632.2	604.6	543.1
Textile bags	224.8	222.6	220.1	228.9	482.2	472.6	458.8	432.3
LEATHER AND LEATHER PRODUCTS <u>2/</u>	106.4	105.6	104.8	102.9	235.4	234.9	231.6	201.6
Leather	93.7	93.7	93.3	86.6	199.8	199.1	198.5	160.1
Boot and shoe cut stock and findings	99.0	98.1	96.9	103.6	190.3	189.6	191.4	183.5
Boots and shoes	98.5	97.8	97.5	94.7	223.5	223.8	221.5	190.8
Leather gloves and mittens	131.8	131.5	128.1	139.5	264.1	267.5	253.5	272.2
Trunks and suitcases	177.1	172.5	162.6	178.1	397.3	381.8	335.9	348.3
FOOD <u>2/</u>	140.1	147.3	161.7	133.5	300.6	308.8	331.6	252.0
Slaughtering and meat packing	142.0	135.5	134.7	120.9	317.4	271.7	271.9	226.1
Butter	168.0	173.3	178.0	178.1	341.6	349.5	364.8	318.4
Condensed and evaporated milk	179.7	188.9	194.5	177.2	377.8	402.5	419.8	331.9
Ice cream	149.4	157.8	176.8	140.4	270.1	288.5	326.2	239.9
Flour	143.1	143.3	140.4	140.7	339.5	338.7	334.7	288.8
Feeds, prepared	164.8	167.1	171.2	159.5	345.6	357.3	382.9	308.3
Cereal preparations	155.8	155.7	168.0	165.8	316.9	300.3	337.5	306.2
Baking	118.1	117.9	115.5	111.3	227.8	230.8	223.2	205.3
Sugar refining, cane	131.1	129.0	131.3	97.8	302.3	279.1	278.7	162.3
Sugar, beet	224.1	226.4	102.9	233.1	517.6	464.0	214.3	470.3
Confectionery	142.7	137.2	122.6	114.3	325.1	312.2	271.3	225.7
Beverages, nonalcoholic	143.8	150.4	164.9	115.2	240.0	258.7	295.6	172.7
Malt liquors	181.3	184.6	188.4	155.8	326.8	344.1	370.3	250.2
Canning and preserving	114.4	159.8	255.7	143.4	265.7	437.9	683.8	311.5
TOBACCO MANUFACTURES	96.5	95.1	92.3	97.6	216.3	214.5	205.3	212.7
Cigarettes	124.0	121.7	118.7	125.7	253.3	252.8	243.7	247.1
Cigars	82.9	81.7	79.1	83.0	195.8	190.6	179.8	194.3
Tobacco (chewing and smoking) and snuff	78.9	79.4	77.4	87.0	164.0	172.7	171.6	166.7



Table 8. - Indexes of Production-Worker Employment and Pay Rolls  
in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
PAPER AND ALLIED PRODUCTS <u>2/</u>	145.7	145.0	143.5	144.3	319.6	314.4	309.6	276.6
Paper and pulp	143.4	142.9	142.9	137.9	319.9	317.3	317.0	267.0
Paper goods, other	155.7	155.3	151.9	153.4	326.4	320.4	311.7	288.5
Envelopes	142.2	140.6	137.4	135.4	285.3	279.8	273.7	248.5
Paper bags	161.3	160.7	159.2	172.4	347.4	350.0	333.9	333.0
Paper boxes	143.0	141.5	138.5	148.8	315.7	304.2	291.5	285.4
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>2/</u>	132.8	132.0	130.7	126.6	252.3	247.9	245.0	214.0
Newspapers and periodicals	122.2	121.8	121.7	113.7	224.0	221.6	221.6	182.0
Printing; book and job	142.6	141.6	139.1	138.3	279.3	272.8	266.6	241.4
Lithographing	125.8	124.2	123.4	123.6	236.1	226.2	225.9	208.3
Bookbinding	150.3	149.3	148.1	141.1	325.1	325.4	322.9	291.0
CHEMICALS AND ALLIED PRODUCTS	199.5	198.4	195.2	190.9	406.2	400.5	395.1	345.0
Paints, varnishes, and colors	131.0	130.4	129.8	127.7	241.4	235.4	233.2	208.2
Drugs, medicines, and insecticides	185.0	187.3	187.6	195.4	377.5	383.6	373.3	341.9
Perfumes and cosmetics	102.9	100.6	94.2	120.0	201.8	190.6	174.3	215.5
Soap	120.6	118.5	115.9	101.3	264.8	255.7	252.0	170.8
Rayon and allied products	123.3	123.2	121.8	121.9	246.4	244.3	246.8	215.2
Chemicals, not elsewhere classified	178.1	177.2	177.6	173.3	340.9	334.7	336.2	301.3
Explosives and safety fuses	194.0	191.5	190.5	174.6	368.6	354.1	356.6	282.7
Compressed and liquefied gases	155.4	154.9	158.7	146.0	290.7	283.4	290.2	242.5
Ammunition, small-arms	165.7	164.6	161.3	159.8	391.0	387.2	376.3	332.3
Fireworks	244.8	245.6	210.8	305.9	687.5	734.1	568.7	824.6
Cottonseed oil	130.9	128.1	100.2	134.7	363.3	358.3	263.6	341.3
Fertilizers	120.9	121.6	121.8	117.7	309.5	319.9	335.1	276.6
PRODUCTS OF PETROLEUM AND COAL <u>2/</u>	153.2	153.3	154.0	146.6	305.0	298.5	302.7	252.6
Petroleum refining	149.5	149.8	151.4	146.0	287.7	279.7	287.6	243.4
Coke and byproducts	137.6	136.9	135.1	127.2	299.7	296.5	289.9	232.3
Paving materials	138.1	137.4	140.0	99.0	268.8	291.6	302.8	184.2
Roofing materials	228.0	227.7	226.8	214.5	526.4	523.1	510.5	428.0

See explanatory notes, sections A, C, F, and G.

Table 8. - Indexes of Production-Worker Employment and Pay Rolls  
in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
RUBBER PRODUCTS 2/	185.2	182.0	178.1	198.8	383.3	375.6	369.0	377.4
Rubber tires and inner tubes	212.2	211.0	207.5	238.3	407.5	398.0	397.9	414.7
Rubber boots and shoes	147.9	146.1	141.6	151.0	322.4	331.7	314.4	295.4
Rubber goods, other	167.7	162.0	157.8	171.3	362.2	352.3	338.3	340.4
MISCELLANEOUS INDUSTRIES 2/	185.6	182.9	178.4	182.0	393.7	384.4	369.0	354.0
Instruments (professional and scientific), and fire-control equipment	242.8	247.4	245.0	239.0	474.9	478.9	469.3	422.1
Photographic apparatus	225.9	218.8	216.1	199.5	426.7	405.1	394.3	344.2
Optical instruments and ophthalmic goods	232.1	231.6	231.6	252.3	445.3	443.5	442.3	458.0
Pianos, organs, and parts	228.6	223.8	211.4	176.5	500.1	475.6	460.2	367.2
Games, toys, and dolls	226.9	221.4	213.9	183.2	525.9	518.7	482.3	405.3
Buttons	112.7	107.7	103.4	126.3	262.1	245.8	230.2	287.1
Fire extinguishers	269.5	273.2	277.6	289.8	560.6	555.4	558.9	586.4

See explanatory notes, sections A, C, F, and G.

- 1/ Revisions have been made as follows in the indexes for earlier months:  
Wrought pipe, welded and heavy-riveted - July 1947 employment to 153.3; pay roll to 308.0.  
Sawmills and logging camps - August 1947 pay roll to 435.3.  
Underwear and neckwear, men's - August 1947 pay roll to 240.7.  
Corsets and allied garments - August 1947 pay roll to 194.7.
- 2/ Indexes for the individual industries comprising the major industry group have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable series from January 1939 are available upon request. More recently adjusted data for the individual industries comprising the major industry group indicated below supersede data shown in publications dated prior to:

Major industry group.	Mimeographed release	Monthly Labor Review
Food	November 1947	December 1947
Miscellaneous industries	November 1947	December 1947
Textile-mill products and other fiber manufactures	December 1947	January 1948
Products of petroleum and coal	January 1948	February 1948

Table 9. - Indexes of Employment and Pay Rolls in  
Selected Nonmanufacturing Industries

(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
<b>MINING:</b>								
Coal:								
Anthracite	80.9	80.9	80.7	82.9	199.1	224.1	211.1	182.3
Bituminous coal	90.5	89.9	89.2	90.0	275.2	275.2	270.2	233.1
Metal	88.3	87.9	88.3	85.2	181.6	179.5	179.0	146.9
Iron	144.9	147.0	147.3	136.1	299.3	303.0	298.7	238.6
Copper	102.8	102.0	101.8	94.6	222.9	220.8	223.2	170.0
Lead and zinc	91.7	88.9	89.6	99.4	217.0	206.0	203.6	192.1
Gold and silver	31.3	30.8	31.4	29.6	53.4	51.6	52.0	44.5
Miscellaneous	57.1	55.7	56.6	60.9	104.8	101.9	102.5	99.9
Quarrying and nonmetallic	103.4	104.5	105.4	101.2	250.2	261.2	258.5	222.4
Crude petroleum production <u>1/</u>	94.3	94.5	95.7	93.0	179.0	169.9	175.6	151.0
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>								
Class I steam railways <u>2/</u>	135.8	137.4	138.1	139.9	<u>3/</u>	<u>3/</u>	<u>3/</u>	<u>3/</u>
Street railways and busses	128.7	128.8	129.6	130.6	223.6	223.2	224.1	210.9
Telephone	193.4	191.6	192.9	183.4	321.5	314.2	312.3	273.0
Telegraph	97.2	98.1	99.8	108.7	206.8	208.1	211.8	194.2
Electric light and power	109.7	109.4	109.9	102.5	187.6	182.8	183.1	157.6
<b>TRADE: <u>4/</u></b>								
Wholesale	116.5	115.5	113.3	112.7	213.6	206.9	203.3	189.7
Retail	119.8	115.7	112.4	117.4	216.5	206.9	202.5	191.7
Food	116.1	115.0	112.6	108.6	220.0	213.8	209.2	185.7
General merchandise	143.6	131.3	122.8	145.2	251.1	224.5	220.4	225.0
Apparel	124.0	119.1	113.5	124.1	222.7	213.1	203.5	207.6
Furniture and housefurnishings	92.4	89.5	87.5	85.5	177.3	167.6	159.8	148.6
Automotive	107.6	105.6	104.8	98.5	198.6	193.8	188.5	169.3
Lumber and building materials	126.4	126.9	124.5	115.1	233.5	238.4	231.8	191.9
<b>SERVICE:</b>								
Hotels (year-round) <u>5/</u>	117.1	117.7	117.4	120.2	228.6	227.1	222.4	218.5
Power laundries	106.9	108.5	109.6	109.9	199.7	204.5	208.2	191.5
Cleaning and dyeing	116.0	120.0	118.6	123.0	213.8	221.6	220.7	217.0

See footnotes, table 7, and explanatory notes, sections F and G.

1/ Does not include well drilling or rig building.2/ Source: Interstate Commerce Commission.3/ Not available.4/ Includes nonsupervisory workers and working supervisors only.5/ Money payments only; additional value of board, room, uniforms, and tips, not included.



## EXPLANATORY NOTES

Sec. A. Revisions of Employment Estimates - The employment estimates shown in this report for the industry divisions (e.g., mining, manufacturing, etc.) and industry groups (e.g., iron and steel, electrical machinery, etc.) have been adjusted to levels indicated by benchmark data through 1945 and supersede data shown in mimeographed releases dated prior to April 1947 and in the Monthly Labor Review dated prior to May 1947.

Sec. B. Sources of Benchmark Data - The chief purpose of recent revisions, published in the February 1947 DETAILED REPORT, was to adjust the levels of employment estimates to benchmark data through 1945. In preparing estimates for private employment prior to 1939, the various industrial censuses taken by the Bureau of the Census were used as sources of benchmark data. Data obtained from unemployment compensation agencies and the Bureau of Old Age and Survivors Insurance are the main bases for 1945 benchmarks. Benchmarks for State and local government are based on data compiled by the Bureau of the Census, while most of the data on Federal Government employment is made available by the U. S. Civil Service Commission. The Interstate Commerce Commission is the source for railroads, and the U. S. Maritime Commission for water transportation.

Sec. C. Scope of Employment Revisions - Recent revisions also include a new type of estimate for employment in construction based upon establishment reports. This estimate is more consistent with the estimating procedure used for other industry divisions. In addition, federal force account construction employment has been transferred from the construction segment to government.

Each of the industry divisions was affected by the recent revisions. Adjustments have also been made in each of the 20 major groups comprising the manufacturing industry division. To be consistent with the estimates for these major industry groups, and more representative of the true level of employment, estimates for the individual manufacturing industries, formerly based on the 1939 Census of Manufactures, are now being revised. As these revisions are completed, they are published in this Report and indicated by appropriate footnotes. Since the revised employment estimates shown in this Report cover only the current months a set of summary sheets presenting comparable figures from January 1939 to date, by month, for each industry will be provided upon request.

Sec. D. How Employment Estimates Are Made - Estimates of changes in the level of employment are based on reports from a sample group of establishments, inasmuch as full coverage is prohibitively costly and time-consuming. In using a sample, it is essential that an accurate base be established from which estimates may be carried forward. This base or "benchmark" is either a complete count or an estimate with a satisfactory degree of accuracy. When a new benchmark becomes available, estimates prepared since the last benchmark are reviewed to determine if any adjustment of level is required. This is the basic principle of employment estimating used by the BLS. It yields a satisfactory compromise between a slow but highly accurate complete count on the one hand, and a rapid but less accurate sample count on the other.

Briefly, the Bureau of Labor Statistics computes employment estimates as follows: first, a benchmark or level of employment is determined; second, a sample of establishments is selected; and third, changes in employment indicated by this reporting sample are applied to the benchmark to determine the monthly estimates of

employment between benchmark periods. For example, if the latest complete data on employment for an industry were 40,200 in September 1945, and if the industry has a reporting sample of 13 establishments employing 23,200 workers in September and 23,800 in October, the October estimate would be prepared as follows:

$$40,200 \times \frac{23,800}{23,200} = 41,240$$

In general data showing month-to-month changes in employment reflect the fluctuations shown by establishments reporting to the Bureau of Labor Statistics. However, the usual estimating method is inadequate in the finance and service industries, which have a preponderance of small establishments. A special sampling procedure has been introduced, involving the scientific selection of a sample of cities and of a representative list of blocks in these cities. Data obtained from the establishments in these blocks yield substantially better estimates of month-to-month changes in employment in the service and finance industries than would be obtained by the use of the sampling procedure employed for other industries. For railroads and the Federal Government, complete reports of employment are available.

Why Revisions are Necessary - Because reports are not immediately available from new firms, they are frequently introduced into the Bureau of Labor Statistics sample after they have been in operation for some time. This lapse of time produces a rather consistent understatement which becomes larger from year to year. It is important, therefore, that estimates not be allowed to go uncorrected for too long a period. During the war period adjustment of many of the nonmanufacturing industry divisions was unavoidably postponed for several years. Consequently, the most recent revision corrects for the downward bias that had accumulated in the nonmanufacturing series since 1941. Revisions in some industry divisions have been carried back to 1939 in order to incorporate greater refinements in methodology and new source materials that have become available. For example, improved data on the small firm component of the trade and service industries, supplied by the Bureau of Old Age and Survivors Insurance, made possible refinements in these series back to 1939.

Sec. E. Comparability With Other Types of Employment Data - The Bureau of Labor Statistics employment estimates are based upon reports submitted by cooperating establishments and therefore differ from employment information obtained by household interviews, such as the Monthly Report of the Labor Force. The Bureau of Labor Statistics estimates of employment in nonagricultural establishments differ from the Monthly Report of the Labor Force total nonagricultural employment estimates in several important respects. For example: (1) The Bureau of Labor Statistics estimates cover all full- and part-time wage and salary workers in private nonagricultural establishments who worked or received pay during the pay period ending nearest the 15th of the month, in Federal establishments during the pay period ending just before the first of the month, and in State and local government during the pay period ending on or just before the last of the month. Persons who worked in more than one establishment during the reporting period would be counted more than once; (2) Proprietors, self-employed persons, domestic servants, and unpaid family workers are excluded.

Sec. F. Pay-Roll Indexes - Cooperating establishments are instructed to report pay rolls of production or nonsupervisory workers prior to deduction for old age and unemployment insurance, withholding taxes, bonds, and union dues. Pay for sick leave, holidays, and vacations taken is included. Respondents are instructed to exclude pay for vacations not taken as well as cash estimates of any payments in kind. Bonuses, unless earned and paid regularly each pay period, are also excluded.

The methodology for obtaining pay-roll estimates is similar to that for employment estimates. Sample changes showing monthly movements are used in projecting established benchmarks to secure current pay-roll estimates. These pay-roll estimates are converted into indexes, using the 1939 average as a base.

Sec. G. Source of Data - Employment and pay-roll estimates are based on reports from cooperating establishments. Excluding about 9,000 block-sample returns, the approximate number of establishments, and workers covered, for each of the industry divisions are shown below.

Approximate Coverage of BLS Employment  
and Pay-Roll Sample

Industry division	: Number of : establishments	: Employees or production workers	
		Number	: Percent of total
Manufacturing	33,000	7,500,000	60
Mining	2,700	354,000	40
Contract construction	12,500	335,000	18
Public utilities	7,000	832,000	75
Trade:			
Wholesale	11,400	326,000	20
Retail	45,000	1,300,000	25
Service:			
Hotels (year-round)	1,300	137,000	35
Power laundries and cleaning and dyeing	1,700	74,000	20

Sec. H. Coverage of Employment Estimates - The employment estimates shown in Tables 1, 2, and 5 cover all full- and part-time wage and salary workers who worked or received pay during the pay period ending nearest the 15th of the month. Proprietors, self-employed persons, domestic servants, and personnel of the armed forces are excluded. Production-worker estimates as shown in Tables 6 and 8 are limited to working foremen and all nonsupervisory workers except administrative, office, and sales personnel.

Sec. I. State Estimates - State estimates are prepared in cooperation with various State Agencies, as indicated below. The estimates for manufacturing have been adjusted to recent data made available under the Federal Social Security program. Since some states have adjusted to more recent benchmark data than others, and because varying methods of computation are used, the total of the state estimates differs from the national total (see Tables 1 and 2). Because of these recent revisions the state estimates for manufacturing are not consistent with the unrevised data shown prior to June 1947 for total employment in nonagricultural establishments, by state. Comparable series of manufacturing estimates for each state, January 1943 to date, and also for nonagricultural employment for selected states, through December 1946, are available upon request to the cooperating State agency or the appropriate Bureau of Labor Statistics regional office. Estimates of nonagricultural employment, by state, for those States which are now publishing such estimates are shown in Table 5a. These totals are consistent with the manufacturing estimates in Table 5. As estimates for additional States become available, they will be shown in Table 5a.



### Cooperating State Agencies

Arizona - Employment Security Commission, P. O. Box 111, Phoenix.  
California - Division of Labor Statistics and Research, San Francisco 2.  
Connecticut - Employment Security Division, Hartford 15.  
Delaware - Federal Reserve Bank of Philadelphia, 925 Chestnut Street, Philadelphia 1.  
Florida - Florida Industrial Commission, Tallahassee.  
Georgia - Employment Security Administration, Atlanta 3.  
Illinois - Dept. of Labor, Division of Statistics and Research, Chicago 6.  
Indiana - Employment Security Division, Indianapolis 12.  
Kansas - Kansas State Labor Department, Topeka.  
Louisiana - Bureau of Business Research, College of Commerce, Louisiana State University, Baton Rouge 3.  
Maine - Unemployment Compensation Commission, 331 Water Street, Augusta.  
Maryland - Dept. of Labor and Industry, Baltimore 2.  
Massachusetts - Dept. of Labor and Industries, State House, Boston 33.  
Michigan - Dept. of Labor and Industry, Lansing 13.  
Minnesota - Division of Employment and Security, St. Paul 1.  
Missouri - Division of Employment Security, 1101 Capitol Avenue, Jefferson City.  
Montana - Unemployment Compensation Commission of Montana, Helena.  
Nevada - Employment Security Department, Carson City.  
New Jersey - Dept. of Labor, Trenton 8.  
New York - Div. of Placement and Unemployment Insurance, 342 Madison Avenue, New York 17.  
North Carolina - North Carolina Dept. of Labor, Raleigh.  
Oklahoma - Oklahoma Employment Security Commission, American National Bldg., Oklahoma City 2.  
Pennsylvania - Federal Reserve Bank of Philadelphia, 925 Chestnut Street, Philadelphia 1. (Manufacturing)  
Dept. of Labor and Industry, Harrisburg. (Nonmanufacturing)  
Rhode Island - Dept. of Labor, Division of Census and Statistics, Providence 2.  
Tennessee - Dept. of Employment Security, Cotton States Bldg., Nashville 3.  
Texas - Bureau of Business Research, University of Texas, Austin 12.  
Utah - Dept. of Employment Security, Salt Lake City 13.  
Vermont - Unemployment Compensation Commission, Montpelier.  
Virginia - Division of Research and Statistics, State Dept. of Labor and Industry, Richmond 21.  
Washington - Office of Unemployment Compensation and Placement, P. O. Box 367, Olympia.  
Wisconsin - Industrial Commission of Wisconsin, Madison 3.

### BLS Regional Offices

New England - Regional Director, U. S. Bureau of Labor Statistics, Old South Bldg., 294 Washington St., Boston 8, Massachusetts (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont)  
North Atlantic - Regional Director, U. S. Bureau of Labor Statistics, 1000 Parcel Post Bldg., 341 Ninth Avenue, New York 1, New York (Delaware, Pennsylvania, New Jersey, New York)  
North Central - Regional Director, U. S. Bureau of Labor Statistics, 312 National War Agencies Bldg., 226 W. Jackson Blvd., Chicago 6, Illinois (Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota, Wisconsin)  
Southern - Regional Director, U. S. Bureau of Labor Statistics, 6th Floor Silvey Bldg., 114 Marietta Street, N.W., Atlanta 3, Georgia (Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas)  
Pacific-Rocky Mountain - Regional Director, U. S. Bureau of Labor Statistics, 546 Federal Office Bldg., San Francisco 2, California (Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming)

Technical advice and assistance on employment statistics in the states of Virginia, West Virginia, Maryland, and the District of Columbia will be given by the Bureau's Washington Office.

## GLOSSARY

Continental United States - Covers only the 48 States and the District of Columbia.

Contract construction - Covers only firms engaged in the construction business on a contract basis for others. Force account construction workers, i.e., hired directly by and on the pay rolls of Federal, State, and local government, public utilities, and private establishments, are excluded.

Defense Agencies - Covers the national military establishment, Maritime Commission, National Advisory Committee for Aeronautics, The Panama Canal, Philippine Alien Property Administration, Philippine War Damage Commission, Office of Selective Service Records, War Assets Administration, Office of Defense Transportation; Office of Scientific Research and Development, National Security Resources Board.

Family Allowances - Represents the Government's contribution; the amount contributed by the personnel is included under pay rolls.

Federal Government-Executive branch - Includes U. S. Navy Yards, Federal arsenals, and force-account construction. Fourth-class postmasters are included under the executive branch in table 3, but are excluded from the government data in tables 1 and 7. Employment shown here for the executive branch differs from data published by the U. S. Civil Service Commission in the following respects: (1) Substitute rural mail carriers are excluded here; (2) seamen and trainees who are hired and paid by private steamship companies having contracts with the Maritime Commission are excluded here; (3) the Panama Railroad Company is shown here under Government corporations but is included under the executive branch by the Civil Service Commission as of the last day of the month, is here presented as of the first day of the next month.

Finance - Covers establishments operating in the fields of finance, insurance, and real estate; excludes the Federal Reserve District Banks and the mixed ownership banks of the Farm Credit Administration.

Government - Covers Federal, State, and local governmental establishments performing legislative, executive, and judicial functions, as well as all government-owned and operated establishments and institutions (arsenals, navy yards, hospitals, Federal Reserve banks, etc.) and government force-account construction. The data in tables 1 and 7 exclude fourth-class postmasters because they presumably have other major jobs.

Government corporations - Covers only three corporations: The Panama Railroad Company, the Federal Reserve banks, and the mixed-ownership banks of the Farm Credit Administration. All other corporations are included under the executive branch.

Indexes of production-worker employment - Estimates of production-worker employment expressed as a percentage of the average employment in 1939.

Indexes of production-worker pay rolls - Estimates of production-worker pay rolls expressed as a percentage of the average pay roll for 1939.

Leave payments - Payments were authorized by P. L. 704 of the 79th Congress and P. L. 254 of the 80th Congress to enlisted personnel who were discharged prior to September 1, 1946 for accrued and unused leave and to officers and enlisted personnel then on active duty for leave accrued in excess of 60 days. Value of bonds represents face value; interest will be paid in addition to the face value at the time the bonds are cashed. Excludes payment of present personnel while on terminal leave which is included in the pay rolls.

Manufacturing - Covers only privately owned establishments; governmental manufacturing operations such as arsenals and navy yards are excluded.

Military pay rolls - Covers personnel on active duty or on terminal leave. Coast Guard pay rolls and Army pay rolls for 1943 represent actual expenditures. Other data represent estimated obligations based on an average monthly personnel count. Pay rolls for the Navy proper and Coast Guard include cash payments for clothing-allowance balances in January, April, July, and October.

Mining - Covers establishments engaged in the extraction from the earth of organic and inorganic minerals which occur in nature as solids, liquids, or gases; includes various contract services required in mining operations, such as removal of overburden, tunnelling and shafting, and the drilling of acidizing of oil wells; also includes ore dressing, beneficiating, and concentration.

Nonagricultural establishments - Governmental or private business establishments;  
(1) that are physically located within continental United States; and  
(2) whose principal activity can be classified under one of the following industry divisions--mining, contract construction, manufacturing, transportation and public utilities, wholesale and retail trade, finance, service, or government.

Pay rolls - Private pay rolls represent pay rolls of nonsupervisory employees and working supervisors, government pay rolls represent the total pay before deductions for old-age and unemployment insurance, group insurance, withholding tax, bonds, and union dues, but after deductions for damaged work. Includes pay for sick leave, holidays, and vacations taken. Private pay rolls exclude cash payments for vacations not taken, retroactive pay not earned during period reported, value of payments in kind, and bonuses, unless earned and paid regularly each pay period.

Production workers - Includes working foremen, and all nonsupervisory workers (including lead men and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., power plant) and record-keeping and other services closely associated with the above production operations. Excludes supervisory employees (above the working foreman level) and their clerical staffs, routemen, salesmen, and other groups of nonproduction workers defined below under wage and salary workers.



Service - Covers establishments primarily engaged in rendering services to individuals and business firms. Excludes automobile repair services, government owned and operated hospitals, museums, etc., and domestic service.

Trade - Covers establishments engaged in wholesale trade, i.e., selling merchandise to retailers, and in retail trade, i.e., selling merchandise for personal or household consumption, and rendering services incidental to the sale of goods. Includes auto repair services.

Transportation and public utilities - Covers only privately owned and operated enterprises engaged in providing all types of transportation and related services telephone, telegraph and other communication services; or providing electricity, gas, steam, water, or sanitary services. Government owned and operated establishments are included under government.

Wage and salary workers - In addition to production and related workers as defined above, includes workers engaged in the following activities: executive, purchasing, finance, accounting, legal, personnel (including cafeterias, medical, etc.), professional and technical activities, sales, sales-delivery advertising, credit, collection, and in installation and servicing of own products, routine office functions, factory supervision (above the working foreman level), and other workers not included as production workers. Also includes employees on the establishment pay roll engaged in new construction and major additions or alterations to the plant who are utilized as a separate work force (force-account construction workers).

Wage earner - See production workers.

Washington, D. C. - Data for the executive branch of the federal Government also include areas in Maryland and Virginia which are within the metropolitan area, as defined by the Bureau of the Census.