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EMPLOYMENT and PAY ROLLS

DETAILED REPORT
DECEMBER 1947

United States Department of Labor
Bureau of Labor Statistics

ESTIMATES OF EMPLOYMENT - NEW SERIES

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

MANUFACTURING - Industries in the Electrical Machinery and the Chemicals and Allied Products Groups - The estimates and indexes for all industries in these two groups 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.

NONMANUFACTURING - Power Laundries and Cleaning and Dyeing Industries - The estimates and indexes for these two industries have been adjusted. Also, the employee definition has been changed from "wage earner" to "production worker" with the resultant exclusion of driver-salesmen.

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

U. S. Department of Labor
Bureau of Labor Statistics

EMPLOYMENT AND PAY ROLLS

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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.

2.

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

(In thousands)

Industry division	1947			1946	
	Dec.	Nov.	Oct.	Dec.	Nov.
TOTAL	44,066	43,449	43,298	42,928	42,439
Manufacturing	15,951	15,871	15,831	15,348	15,271
Mining	898	897	895	874	883
Contract construction	1,788	1,849	1,896	1,644	1,713
Transportation and public utilities:	4,064	4,071	4,092	4,071	4,101
Transportation	2,851	2,866	2,894	2,919	2,955
Communication	719	713	707	691	687
Other public utilities	494	492	491	461	459
Trade	9,455	9,075	8,889	9,234	8,898
Finance	1,591	1,588	1,586	1,546	1,543
Service	4,688	4,670	4,662	4,573	4,555
Government:	5,631	5,428	5,447	5,638	5,475
Federal	1,985	1,751	1,744	2,236	2,065
State and local	3,646	3,677	3,703	3,402	3,410

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	
	Dec.	Nov.	Oct.	Dec.	Nov.
ALL MANUFACTURING	15,951	15,871	15,831	15,348	15,271
<u>Durable goods</u>	8,055	7,986	7,925	7,731	7,721
Iron and steel and their products	1,888	1,875	1,864	1,787	1,800
Electrical machinery	759	758	749	771	763
Machinery, except electrical	1,555	1,538	1,534	1,489	1,479
Transportation equipment, except automobiles	584	571	543	600	592
Automobiles	1,006	988	991	943	954
Nonferrous metals and their products	470	466	464	493	488
Lumber and timber basic products	747	750	750	652	659
Furniture and finished lumber products	543	538	531	504	497
Stone, clay, and glass products	503	502	499	492	489
<u>Nondurable goods</u>	7,896	7,885	7,906	7,617	7,550
Textile-mill products and other fiber manufactures	1,373	1,355	1,333	1,353	1,340
Apparel and other finished textile products	1,367	1,338	1,349	1,229	1,209
Leather and leather products	415	411	408	403	398
Food	1,605	1,644	1,705	1,548	1,544
Tobacco manufactures	102	104	103	105	104
Paper and allied products	474	470	467	465	461
Printing, publishing, and allied industries	712	711	706	688	679
Chemicals and allied products	763	759	755	732	728
Products of petroleum and coal	233	235	233	221	222
Rubber products	277	275	272	296	294
Miscellaneous industries	575	583	575	577	571

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		Dec. 1946	1947		Dec. 1946
	Dec. 1/	Nov. 1/		Dec. 1/	Nov. 1/	
<u>Total (including areas outside United States)</u>						
Total Federal	2,229.2	2,006.5	2,614.2	\$517,249	\$451,452	\$581,890
Executive	2,189.5	1,966.3	2,572.0	507,795	442,193	572,642
Defense agencies	894.9	905.2	1,176.6	208,931	192,079	269,854
Post Office Dept. 2/	667.9	429.8	715.4	133,921	98,666	137,277
Other agencies	626.7	631.3	680.0	164,943	151,448	165,511
Legislative	7.0	7.1	6.8	2,457	2,457	2,166
Judicial	3.5	3.5	3.1	1,336	1,191	1,190
Government corps.	29.2	29.4	32.3	5,661	5,611	5,892
<u>Continental United States</u>						
Total Federal	2,005.6	1,771.4	2,308.0	478,858	414,133	534,974
Executive	1,973.1	1,738.6	2,273.6	470,025	405,536	526,438
Defense agencies	708.1	706.4	906.8	178,268	162,219	230,411
Post Office Dept. 2/	665.7	428.3	713.2	133,472	98,313	136,878
Other agencies	599.3	603.9	653.6	158,285	145,004	159,149
Legislative	7.0	7.1	6.8	2,457	2,457	2,166
Judicial	3.4	3.4	3.0	1,301	1,154	1,155
Government corps.	22.1	22.3	24.6	5,075	4,986	5,215
<u>Washington, D. C.</u>						
Total government	224.0	221.5	252.6	65,078	59,409	66,860
District of Columbia government	18.1	18.4	17.6	4,544	4,223	4,189
Federal	205.9	203.1	235.0	60,534	55,186	62,671
Executive	198.3	195.4	227.6	57,859	52,534	60,298
Defense agencies	64.7	64.5	78.4	17,625	16,110	20,205
Post Office Dept. 2/	10.1	7.3	11.0	3,097	2,606	2,507
Other agencies	123.5	123.6	138.2	37,137	33,818	37,586
Legislative	7.0	7.1	6.8	2,457	2,457	2,166
Judicial	.6	.6	.6	218	195	207

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

2/ December figures include estimated additional employment and pay roll for Christmas season.

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

(In thousands)

Personnel and pay	1947		December 1946	Average monthly per- sonnel and total annual pay	
	December	November		1943	1939
Personnel, total as of first of month, including those on active duty and those on terminal leave.....	1,452	1,490	2,204	8,944	345
Army.....	911	920	1,512	6,733	192
Navy.....	433	459	562	1,744	124
Marine Corps.....	89	92	108	311	19
Coast Guard.....	19	19	22	156	10
Men.....	1,435	1,473	2,176	8,833	1/
Women.....	17	17	28	111	1/
Pay, total.....	\$292,746	\$303,705	\$757,647	\$11,173,186	\$331,523
Army.....	176,403	180,913	495,634	8,143,833	155,482
Navy.....	97,646	102,562	216,576	2,408,736	143,238
Marine Corps.....	14,495	16,046	36,059	392,140	16,877
Coast Guard.....	4,202	4,184	9,378	228,477	15,926
Pay rolls.....	238,952	246,112	395,144	10,140,852	331,523
Mustering-out pay.....	13,362	9,117	45,315	-	-
Family allowances.....	23,827	23,127	33,165	1,032,334	-
Leave payments.....	16,605	25,349	284,023	-	-
Cash.....	2,866	3,982	16,468	-	-
Bonds.....	13,739	21,367	267,555	-	-

1/ Data not available.

Table 5. - Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State *

(In thousands)

Region and State	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
New England					
Maine	112.5	113.1	114.7	117.1	117.7
New Hampshire	83.9	82.9	82.1	81.6	79.0
Vermont	39.8	39.7	39.9	41.8	42.1
Massachusetts	753.2	741.6	732.5	762.1	754.1
Rhode Island	154.3	152.9	148.1	152.0	150.5
Connecticut	416.0	414.3	411.1	416.1	410.9
Middle Atlantic					
New York	1,918.6	1,922.8	1,900.1	1,939.6	1,928.9
New Jersey	757.4	751.4	749.2	757.7	753.2
Pennsylvania	1,524.9	1,519.0	1,505.5	1,511.7	1,458.1
East North Central					
Ohio	1,247.3	1,244.7	1,244.0	1,238.3	1,230.5
Indiana	555.0	561.0	580.0	538.4	538.3
Illinois	1,266.3	1,257.0	1,249.0	1,229.6	1,203.4
Michigan	1,018.8	1,021.8	1,023.3	1,041.6	1,033.3
Wisconsin	434.1	432.7	444.2	420.1	412.8
West North Central					
Minnesota	199.9	199.0	209.9	200.2	196.0
Iowa	149.8	148.6	149.4	144.0	132.0
Missouri	366.8	362.6	356.8	356.0	343.7
North Dakota	7.1	7.0	7.0	6.5	6.0
South Dakota	11.5	11.4	11.3	10.5	8.4
Nebraska	45.9	45.1	43.1	44.0	39.6
Kansas	79.9	79.8	79.4	79.3	74.0
South Atlantic					
Delaware	45.2	45.6	48.2	45.0	45.1
Maryland	231.1	229.3	232.4	240.7	238.6
District of Columbia	17.4	17.5	17.5	17.0	16.7
Virginia	217.3	217.0	214.5	212.6	211.4
West Virginia	133.0	133.4	132.8	133.4	131.4
North Carolina	378.2	373.6	367.7	*367.0	363.7
South Carolina	197.6	194.8	192.3	186.7	183.3
Georgia	256.7	253.9	251.9	*263.6	*261.5
Florida	82.7	80.6	78.6	89.4	79.6
East South Central					
Kentucky	130.7	130.3	128.2	127.4	122.2
Tennessee	253.0	253.8	251.8	248.6	245.0
Alabama 1/	229.3	228.0	*224.3	221.6	215.2
Mississippi	95.5	94.1	95.0	90.5	87.3
West South Central					
Arkansas	75.5	76.0	74.9	70.1	69.7
Louisiana	141.1	143.5	142.7	132.5	128.8
Oklahoma	56.5	55.7	55.2	55.8	52.6
Texas	347.7	339.9	337.8	328.9	316.1

Table 5. - Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State* - Continued

(In thousands)

Region and State	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
Mountain					
Montana	18.7	19.1	18.1	*18.1	*18.0
Idaho	19.9	20.4	19.3	21.9	21.7
Wyoming	7.2	7.1	6.8	7.0	6.7
Colorado	60.4	60.6	57.9	58.7	56.9
New Mexico	10.3	10.2	10.1	10.2	10.3
Arizona	13.0	12.6	12.7	13.5	12.7
Utah	27.3	29.4	30.1	25.4	26.2
Nevada	3.7	3.7	3.7	3.5	3.4
Pacific					
Washington 1/	178.2	183.9	191.7	*168.8	*175.4
Oregon	112.2	117.2	122.2	118.4	122.2
California	716.8	736.3	744.1	*705.4	*725.5

Table 5a. - Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States*

(In thousands)

State	1947			1946	
	Nov.	Oct.	Sept.	Nov.	Oct.
Illinois	3,180	3,166	3,142	3,092	3,048
Massachusetts	1,743	1,725	1,707	1,735	1,723
Montana	137	137	137	133	133
New Jersey	1,580	1,573	1,574	1,569	1,561
New York	5,489	5,482	5,440	5,469	5,401
Pennsylvania	3,622	3,606	3,574	3,536	3,465
Texas	1,690	1,675	1,662	1,639	1,613
Wisconsin	982	981	998	950	941

See explanatory notes, section 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.

1/ Revisions have been made as follows in the data for earlier months:

Alabama - June, July, and August 1947 to 225.6, 222.1, and 223.1.

Washington - July, August, September, and December 1946 to 176.9, 177.3, 179.4 and 166.0 respectively. January through May 1947 to 162.3, 166.1, 169.2, 170.4, and 174.9.

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

(In thousands)

Industry group and industry	1947			1946	
	Dec.	Nov.	Oct.	Dec.	Nov.
ALL MANUFACTURING	12,960	12,881	12,850	12,514	12,449
Durable goods	6,640	6,577	6,518	6,393	6,379
Nondurable goods	6,320	6,304	6,332	6,121	6,070
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS	1,605	1,592	1,583	1,521	1,535
Blast furnaces, steel works, and rolling mills	497.8	498.0	498.2	467.0	481.5
Gray-iron and semisteel castings	83.9	83.4	83.5	84.4	84.1
Malleable-iron castings	27.8	27.2	26.7	24.2	24.8
Steel castings	49.4	49.1	49.0	51.5	51.2
Cast-iron pipe fittings	21.3	20.9	20.8	19.2	19.4
Tin cans and other tinware	47.0	46.4	46.4	41.5	41.3
Wire drawn from purchased rods	31.0	30.7	30.5	29.9	29.9
Wirework 1/	41.7	39.9	40.0	40.5	40.9
Cutlery and edge tools	24.6	24.4	24.2	27.7	27.3
Tools (except edge tools, machine tools, files, and saws)	25.5	25.0	24.6	26.8	26.4
Hardware	51.7	50.4	49.6	49.6	49.5
Plumbers' supplies	29.5	29.3	28.6	29.8	29.2
Stoves, oil burners, and heating equipment not elsewhere classified	67.4	68.0	67.7	60.8	62.0
Steam and hot-water heating apparatus and steam fittings	46.1	45.6	45.7	51.0	51.4
Stamped and enameled ware and galvanizing	86.6	86.2	85.5	84.5	83.7
Fabricated structural and ornamental metalwork	59.7	59.5	59.0	57.1	56.9
Metal doors, sash, frames, molding, and trim	10.7	10.5	10.4	10.1	10.1
Bolts, nuts, washers, and rivets	21.1	21.0	20.6	21.2	21.0
Forgings, iron and steel	27.6	27.2	27.1	26.7	26.7
Wrought pipe, welded and heavy-riveted	14.4	14.0	13.6	13.2	13.8
Screw-machine products and wood screws	26.4	26.2	26.1	29.3	29.3
Steel barrels, kegs, and drums	6.0	5.9	5.9	6.1	6.3
Firearms	14.5	14.2	14.1	14.0	14.2
ELECTRICAL MACHINERY 2/	585	584	577	597	590
Electrical equipment	382.2	380.3	377.1	375.4	370.7
Radios and phonographs	104.7	106.3	104.3	111.6	109.1
Communication equipment	98.2	97.5	95.6	110.5	109.9

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

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

(In thousands)

Industry group and industry	1947			1946	
	Dec.	Nov.	Oct.	Dec.	Nov.
MACHINERY, EXCEPT ELECTRICAL	1,210	1,194	1,190	1,161	1,150
Machinery and machine-shop products	376.8	376.1	377.8	379.6	377.7
Engines and turbines	43.8	42.7	43.0	45.6	45.6
Tractors	59.3	57.8	57.2	54.5	53.7
Agricultural machinery, excluding tractors	53.7	51.4	51.1	44.8	43.5
Machine tools	50.5	50.3	51.4	60.6	60.3
Machine-tool accessories	42.5	42.2	42.1	51.5	51.8
Textile machinery	39.9	39.2	38.7	35.3	34.7
Pumps and pumping equipment	55.0	54.6	54.7	58.9	58.3
Typewriters	25.4	24.8	24.4	22.3	22.2
Cash registers, adding, and calculating machines	44.4	43.4	42.4	37.3	36.4
Washing machines, wringers, and driers, domestic	16.1	15.5	15.1	12.5	12.6
Sewing machines, domestic and industrial	13.1	12.8	12.4	10.7	10.5
Refrigerators and refrigeration equipment	80.2	78.8	78.6	65.2	64.2
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	457	446	420	473	464
Locomotives	26.5	26.0	25.9	27.1	27.1
Cars, electric- and steam-railroad	56.9	56.8	55.2	50.8	50.3
Aircraft and parts, excluding aircraft engines	136.0	136.2	133.9	144.7	146.3
Aircraft engines	25.9	25.9	26.2	29.0	29.3
Shipbuilding and boatbuilding	125.7	117.6	100.2	142.8	133.8
Motorcycles, bicycles, and parts	14.7	14.4	14.1	12.1	11.7
AUTOMOBILES	813	797	795	774	778
NONFERROUS METALS AND THEIR PRODUCTS	402	399	397	426	422
Smelting and refining, primary, of nonferrous metals	39.3	39.1	39.2	40.2	39.3
Alloying; and rolling and drawing of nonferrous metals, except aluminum	52.5	52.1	52.3	62.8	62.0
Clocks and watches	27.9	28.0	27.7	28.2	28.5
Jewelry (precious metals) and jewelers' findings	17.9	18.2	17.8	17.9	17.4
Silverware and plated ware	17.5	17.2	17.0	15.2	15.1
Lighting equipment	29.1	29.0	29.6	31.6	31.2
Aluminum manufactures	44.0	43.0	42.5	51.3	50.9
Sheet-metal work, not elsewhere classified	26.0	25.9	25.7	26.9	27.2

Table 6.- Estimated Number of Production Workers in Manufacturing Industries - Cont'd
(In thousands)

Industry group and industry	1947			1946	
	Dec.	Nov.	Oct.	Dec.	Nov.
LUMBER AND TIMBER BASIC PRODUCTS <u>2/</u>	678	680	681	592	599
Sawmills and logging camps	544.4	547.3	550.2	472.8	479.5
Planing and plywood mills	133.6	132.4	129.8	119.3	119.1
FURNITURE AND FINISHED LUMBER PRODUCTS <u>2/</u>	457	453	446	425	419
Mattresses and bedsprings	36.0	35.9	34.9	30.6	31.5
Furniture	246.8	243.6	238.6	227.2	223.5
Wooden boxes, other than cigar	34.8	35.3	36.0	34.3	34.2
Caskets and other morticians' goods	19.8	19.7	19.4	19.6	18.7
Wood preserving	16.8	17.3	17.9	16.8	16.5
Wood, turned and shaped	32.8	32.5	31.6	31.9	30.7
STONE, CLAY, AND GLASS PRODUCTS <u>2/</u>	433	432	429	424	422
Glass and glassware	119.7	120.1	120.0	122.4	122.9
Glass products made from purchased glass	12.8	12.6	12.2	12.9	12.7
Cement	36.6	36.8	36.8	35.2	34.7
Brick, tile, and terra cotta	76.3	75.8	75.6	69.3	69.4
Pottery and related products	57.6	57.2	56.1	55.0	54.1
Gypsum	6.6	6.5	6.4	6.2	6.1
Wallboard, plaster (except gypsum), and mineral wool	12.7	12.7	12.3	11.1	11.0
Lime	9.4	9.5	9.1	8.9	9.0
Marble, granite, slate, and other products	18.3	18.5	18.4	17.3	17.2
Abrasives	16.8	16.5	16.5	20.1	20.0
Asbestos products	21.7	21.3	21.3	21.7	21.6
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES <u>2/</u>	1,256	1,238	1,217	1,242	1,230
Cotton manufactures, except smallwares	523.2	516.9	508.2	516.3	512.3
Cotton smallwares	14.3	13.9	13.7	16.0	15.8
Silk and rayon goods	108.5	106.9	105.7	106.9	105.9
Woolen and worsted manufactures, except dyeing and finishing	177.3	174.2	170.9	181.7	179.2
Hosiery	138.4	136.2	133.4	135.9	134.7
Knitted cloth	11.5	11.5	11.2	12.5	12.9
Knitted outerwear and knitted gloves	31.4	31.4	30.8	36.4	36.1
Knitted underwear	48.8	47.8	46.9	41.3	40.8
Dyeing and finishing textiles, including woolen and worsted	87.0	85.9	85.1	84.3	83.8
Carpets and rugs, wool	35.4	34.4	33.6	29.5	28.7
Hats, fur-felt	13.8	13.6	13.6	13.8	13.6
Jute goods, except felts	3.1	3.0	3.0	4.1	4.1
Rope and twine	16.5	16.1	15.4	17.2	17.0

Table 6.- Estimated Number of Production Workers in Manufacturing Industries - Cont'd
(In thousands)

Industry group and industry	1947			1946	
	Dec.	Nov.	Oct.	Dec.	Nov.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 2/	1,199	1,171	1,181	1,079	1,063
Men's clothing, not elsewhere classified	310.5	309.2	306.9	282.7	279.8
Shirts, collars, and nightwear	82.4	81.1	79.3	70.5	68.9
Underwear and neckwear, men's	18.4	18.1	17.3	18.8	18.6
Work shirts	15.7	15.5	15.8	15.9	15.4
Women's clothing, not elsewhere classified	470.5	452.1	462.3	414.4	406.8
Corsets and allied garments	19.6	19.4	18.8	16.9	16.6
Millinery	23.1	21.2	25.2	22.5	20.2
Handkerchiefs	5.2	5.2	5.1	4.6	4.4
Curtains, draperies, and bedspreads	32.2	32.1	30.9	26.9	29.5
Housefurnishings, other than curtains, etc.	30.6	30.0	31.6	29.6	29.3
Textile bags	28.6	28.4	28.1	29.8	28.9
LEATHER AND LEATHER PRODUCTS 2/	373	369	366	362	357
Leather	46.9	46.9	46.9	45.4	43.3
Boot and shoe cut stock and findings	19.8	19.8	19.6	20.6	20.7
Boots and shoes	231.3	227.5	225.8	221.7	218.6
Leather gloves and mittens	13.1	13.2	13.1	13.7	13.9
Trunks and suitcases	14.1	14.7	14.4	14.7	14.8
FOOD 2/	1,165	1,197	1,259	1,139	1,141
Slaughtering and meat packing	203.7	191.7	183.0	179.7	163.2
Butter	32.9	33.9	34.8	34.7	35.8
Condensed and evaporated milk	18.6	19.5	20.5	19.0	19.3
Ice cream	24.9	26.3	27.8	24.3	24.7
Flour	39.4	39.7	39.8	39.0	39.1
Feeds, prepared	29.1	28.5	28.9	26.9	27.5
Cereal preparations	12.1	12.8	12.8	13.7	13.9
Baking	220.8	224.8	224.5	215.1	211.9
Sugar refining, cane	20.0	20.8	20.5	18.3	15.5
Sugar, beet	20.9	26.2	26.3	19.3	27.1
Confectionery	79.1	79.5	76.4	65.9	63.7
Beverages, nonalcoholic	33.3	34.3	35.8	27.5	27.5
Malt liquors	69.7	73.3	74.7	64.0	63.0
Canning and preserving	148.9	172.0	240.1	194.8	215.6
TOBACCO MANUFACTURES	88	90	89	92	91
Cigarettes	34.2	34.0	33.4	34.5	34.5
Cigars	40.2	42.2	41.6	42.9	42.3
Tobacco (chewing and smoking) and snuff	7.3	7.2	7.3	7.8	8.0

Table 6.- Estimated Number of Production Workers in Manufacturing Industries - Cont'd
(In thousands)

Industry group and industry	1947			1946	
	Dec.	Nov.	Oct.	Dec.	Nov.
PAPER AND ALLIED PRODUCTS <u>2/</u>	390	387	385	387	383
Paper and pulp	199.6	197.6	196.9	191.8	190.0
Paper goods, other	59.1	58.8	58.6	58.0	57.9
Envelopes	12.4	12.4	12.2	12.0	11.8
Paper bags	18.2	17.9	17.9	19.7	19.2
Paper boxes	99.8	99.1	98.1	104.3	103.2
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>2/</u>	436	435	433	420	415
Newspapers and periodicals	145.6	145.1	144.6	136.7	135.0
Printing; book and job	182.8	182.0	180.7	178.0	176.5
Lithographing	32.9	33.0	32.6	32.7	32.5
Bookbinding	38.3	38.7	38.5	36.9	36.4
CHEMICALS AND ALLIED PRODUCTS <u>2/</u>	579	577	573	555	550
Paints, varnishes, and colors	50.6	50.2	49.9	48.4	47.7
Drugs, medicines, and insecticides	65.9	66.4	67.1	68.9	68.4
Perfumes and cosmetics	12.9	13.9	13.5	14.6	15.9
Soap	25.6	25.8	25.3	22.1	21.1
Rayon and allied products	63.5	63.1	62.9	60.6	61.0
Chemicals, not elsewhere classified	198.1	196.4	195.0	190.5	185.9
Explosives and safety fuses	21.9	21.7	21.4	19.4	19.4
Compressed and liquefied gases	9.9	9.7	9.7	8.8	8.9
Ammunition, small-arms	7.4	7.2	7.2	6.6	6.8
Fireworks	2.8	2.9	2.9	3.5	3.5
Cottonseed oil	24.4	24.5	24.0	22.3	24.6
Fertilizers	28.0	26.7	26.8	26.5	25.2
PRODUCTS OF PETROLEUM AND COAL <u>2/</u>	162	163	162	155	155
Petroleum refining	109.9	109.7	109.7	107.2	106.9
Coke and byproducts	29.9	30.0	29.6	26.9	27.6
Paving materials	2.7	3.4	3.4	2.3	2.4
Roofing materials	18.3	18.5	18.4	17.3	17.4

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	
	Dec.	Nov.	Oct.	Dec.	Nov.
RUBBER PRODUCTS 2/	225	223	220	242	240
Rubber tires and inner tubes	114.8	115.1	114.4	129.0	129.2
Rubber boots and shoes	22.5	22.0	21.7	23.0	22.4
Rubber goods, other	87.7	86.1	84.0	89.9	88.8
MISCELLANEOUS INDUSTRIES 2/	447	454	447	448	445
Instruments (professional and scientific), and fire-control equipment	28.1	27.8	28.0	28.4	27.0
Photographic apparatus	40.3	39.9	38.7	35.4	35.3
Optical instruments and ophthalmic goods	28.0	27.6	27.5	30.6	30.0
Pianos, organs, and parts	17.6	17.8	17.4	13.3	13.8
Games, toys, and dolls	38.5	43.4	42.3	33.8	35.0
Buttons	13.4	12.7	12.1	14.6	14.2
Fire extinguishers	2.7	2.7	2.8	3 0	3.0

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

1/ Revisions have been made as follows in the data for earlier months:
 Wirework - July 1947 to 38.6.

2/ 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
Textile-mill products and other fiber manufactures	December 1947	January 1948
Products of petroleum and coal	January 1948	February 1948
Electrical machinery	February 1948	March 1948
Chemicals and allied products	February 1948	March 1948

Table 7. - Estimated Number of Employees in
Selected Nonmanufacturing Industries 1/

(In thousands)

Industry group and industry	1947			1946	
	Dec.	Nov.	Oct.	Dec.	Nov.
MINING: <u>2/</u>					
Coal:					
Anthracite	67.2	67.0	67.0	68.7	68.7
Bituminous coal	337	335	333	326	334
Metal:	77.9	77.5	77.1	76.0	75.2
Iron	28.6	29.2	29.6	26.6	27.5
Copper	25.1	24.5	24.3	23.3	22.5
Lead and zinc	14.0	13.8	13.4	16.1	15.5
Gold and silver	8.0	7.7	7.6	7.6	7.3
Miscellaneous	2.3	2.3	2.2	2.4	2.4
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railways <u>3/</u>	1,331	1,340	1,357	1,353	1,382
Street railways and busses <u>4/</u>	249	249	249	252	253
Telephone	620	614	609	586	583
Telegraph <u>5/</u>	36.7	36.6	36.9	40.4	40.9
Electric light and power	269	268	267	252	250
SERVICE:					
Hotels (year-round)	381	378	380	384	388
Power laundries <u>2/</u> <u>6/</u>	237	238	241	246	244
Cleaning and dyeing <u>2/</u> <u>6/</u>	91.0	92.6	95.6	94.0	95.4

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 figures presented here differ from those shown previously (in the mimeographed releases dated prior to February 1948 and the Monthly Labor Review prior to March 1948) in two respects: The employee definition has been changed from "wage earners" to "production workers" with the resultant exclusion of driver-salesmen, and the data have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable data from January 1939 are available upon request.

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
ALL MANUFACTURING	158.2	157.2	156.9	152.8	356.6	345.0	341.6	306.2
Durable goods	183.9	182.1	180.5	177.0	399.3	384.6	379.3	337.3
Nondurable goods	138.0	137.6	138.2	133.6	314.8	306.2	304.7	275.8
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS	161.9	160.6	159.7	153.4	341.2	333.4	327.6	276.2
Blast furnaces, steel works, and rolling mills	128.2	128.2	128.2	120.2	253.4	255.6	248.4	193.9
Gray-iron and semisteel castings 1/	143.6	142.8	142.9	144.5	330.4	314.0	320.2	307.8
Malleable-iron castings	154.0	150.7	148.2	134.1	378.3	362.8	354.8	283.8
Steel castings	164.1	163.1	162.8	171.3	347.9	337.5	333.0	315.4
Cast-iron pipe and fittings 1/	128.7	126.7	126.0	116.2	317.7	299.6	300.8	259.9
Tin cans and other tinware	147.9	146.0	146.0	130.5	331.2	315.9	327.3	244.5
Wire drawn from purchased rods	141.3	139.6	139.0	135.9	275.7	266.0	263.9	239.6
Wirework 1/	137.1	131.2	131.7	133.4	316.6	292.9	285.1	261.7
Cutlery and edge tools	159.6	158.5	156.7	179.8	380.0	378.3	367.1	404.7
Tools (except edge tools, machine tools, files, and saws)	166.7	163.6	160.7	175.0	374.7	357.5	347.7	360.8
Hardware	145.1	141.3	139.2	139.0	340.2	323.8	316.8	286.2
Plumbers' supplies	119.8	118.7	116.1	120.8	261.5	255.6	242.4	226.7
Stoves, oil burners, and heating equipment not elsewhere classified	146.1	147.3	146.8	131.7	330.9	317.2	327.9	264.8
Steam and hot-water heating apparatus and steam fittings	152.3	150.6	150.6	168.3	340.0	330.2	317.7	312.7
Stamped and enameled ware and galvanizing	155.8	155.1	153.9	152.2	371.4	356.9	351.2	320.9
Fabricated structural and ornamental metalwork	168.2	167.6	166.1	160.8	354.2	345.2	342.9	293.0
Metal doors, sash, frames, molding, and trim	138.6	136.2	134.0	130.2	308.0	293.6	286.0	257.4
Bolts, nuts, washers, and rivets	147.2	146.9	143.9	148.3	316.7	309.1	305.2	272.9
Forgings, iron and steel	179.6	177.3	176.6	173.9	397.5	380.7	381.8	333.2
Wrought pipe, welded and heavy-riveted	172.6	167.1	162.7	158.0	372.8	349.9	337.9	285.8
Screw-machine products and wood screws	155.8	154.5	154.5	173.0	347.9	331.7	334.2	351.3
Steel barrels, kegs, and drums	99.4	97.3	97.6	100.1	263.1	243.4	236.7	231.9
Firearms	290.5	284.6	281.7	280.6	657.2	627.0	615.4	568.0
ELECTRICAL MACHINERY 2/	225.8	225.4	222.7	230.6	472.1	463.1	456.0	430.2
Electrical equipment	209.2	208.2	206.5	205.5	434.3	423.9	417.8	374.2
Radios and phonographs	238.2	241.7	237.0	253.6	542.9	539.6	533.2	528.0
Communication equipment	302.7	300.3	294.6	340.3	604.6	597.8	584.5	632.3

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
MACHINERY, EXCEPT ELECTRICAL	229.0	225.9	225.1	219.6	470.2	450.4	448.9	399.9
Machinery and machine-shop products	186.3	185.9	186.7	187.6	388.7	374.3	373.6	346.7
Engines and turbines	235.0	228.7	230.6	244.5	518.5	515.0	493.4	500.8
Tractors	189.6	184.7	182.7	174.2	341.3	331.8	328.5	271.3
Agricultural machinery, excluding tractors	193.1	184.8	183.6	161.0	409.1	376.6	394.4	291.1
Machine tools	137.9	137.4	140.4	165.3	257.9	249.5	253.9	290.7
Machine-tool accessories	168.7	167.7	167.3	204.8	307.0	294.6	294.6	351.0
Textile machinery	182.2	179.1	176.9	161.4	405.4	390.3	376.4	321.7
Pumps and pumping equipment	226.8	225.3	225.8	243.1	486.8	470.9	474.9	467.8
Typewriters	156.9	153.2	150.6	137.2	363.5	352.8	337.5	270.1
Cash registers, adding, and calculating machines	225.6	220.7	215.5	189.3	482.6	456.5	449.5	347.2
Washing machines, wringers, and driers, domestic	215.2	208.0	202.3	166.8	483.7	442.9	424.6	306.2
Sewing machines, domestic and industrial	167.3	163.2	157.9	136.2	392.2	376.3	364.8	273.0
Refrigerators and refrigeration equipment	228.0	224.2	223.4	185.6	458.2	427.8	440.4	306.4
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	287.8	281.0	264.8	298.2	590.5	546.4	532.2	571.2
Locomotives	409.4	402.0	400.5	418.8	878.6	863.1	870.1	876.0
Cars, electric- and steam-railroad	231.8	231.4	225.2	207.2	522.4	503.5	493.6	408.8
Aircraft and parts, excluding aircraft engines	342.8	343.2	337.4	364.8	676.6	661.5	663.8	683.3
Aircraft engines	291.0	291.0	294.8	326.2	503.5	479.2	499.9	533.7
Shipbuilding and boatbuilding	181.5	169.9	144.7	206.2	378.9	316.6	289.9	399.1
Motorcycles, bicycles, and parts	210.1	207.0	201.8	173.6	448.2	441.3	430.8	346.7
AUTOMOBILES	202.1	198.2	197.7	192.3	419.8	388.1	378.5	328.9
NONFERROUS METALS AND THEIR PRODUCTS	175.4	173.9	173.3	185.8	367.0	357.9	353.2	356.3
Smelting and refining, primary, of nonferrous metals	142.3	141.5	141.9	145.4	294.9	295.7	291.9	271.2
Alloying; and rolling and drawing of nonferrous metals, except aluminum	135.2	134.2	134.7	161.7	267.4	259.7	257.0	301.9
Clocks and watches	137.7	137.8	136.7	139.1	326.0	325.5	315.7	306.3
Jewelry (precious metals) and jewelers' findings	123.8	125.9	123.2	123.9	268.5	261.1	254.9	250.5
Silverware and plated ware	144.7	141.8	139.8	125.5	346.7	329.0	322.2	275.8
Lighting equipment	141.9	141.7	144.4	154.4	287.2	282.8	283.4	272.5
Aluminum manufactures	187.0	182.5	180.5	217.7	358.7	346.4	340.7	384.5
Sheet-metal work, not elsewhere classified	138.7	138.3	137.3	143.7	304.2	290.2	292.8	281.9

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
LUMBER AND TIMBER BASIC PRODUCTS 2/	161.3	161.7	162.1	140.8	390.2	388.6	387.6	290.6
Sawmills and logging camps	173.6	174.5	175.4	150.7	422.0	425.3	425.2	306.9
Planing and plywood mills	168.8	167.4	164.1	150.9	403.6	385.5	381.2	308.6
FURNITURE AND FINISHED LUMBER PRODUCTS 2/	139.2	138.2	136.1	129.6	333.9	322.1	318.5	279.1
Mattresses and bedsprings	175.8	174.9	170.3	149.3	395.0	372.6	378.7	306.9
Furniture	138.7	136.9	134.1	127.7	334.3	323.2	315.0	273.4
Wooden boxes, other than cigar	122.7	124.6	127.1	121.1	312.1	301.9	308.8	279.7
Caskets and other morticians' goods	142.2	141.5	139.6	141.0	299.6	287.3	281.4	271.9
Wood preserving	134.1	137.9	142.4	134.0	350.6	355.6	384.2	326.1
Wood, turned and shaped	133.4	132.1	128.5	129.9	306.4	290.8	287.8	280.9
STONE, CLAY, AND GLASS PRODUCTS 2/	147.6	147.1	146.0	144.4	320.4	316.3	313.6	281.6
Glass and glassware	167.8	168.4	168.2	171.5	356.5	357.2	351.2	326.7
Glass products made from purchased glass	127.5	126.2	122.0	129.3	287.2	269.6	264.0	264.4
Cement	150.5	151.0	151.1	144.6	285.2	294.0	294.7	247.6
Brick, tile, and terra cotta	131.4	130.6	130.2	119.4	301.9	296.7	300.2	245.3
Pottery and related products	170.3	169.0	166.0	162.5	354.4	349.8	342.7	299.1
Gypsum	134.6	132.4	128.7	124.8	290.2	284.5	278.1	245.1
Wallboard, plaster (except gypsum), and mineral wool	156.5	156.4	151.2	136.8	384.6	381.5	368.4	300.1
Lime	99.6	99.9	95.8	93.6	258.0	259.5	258.9	219.7
Marble, granite, slate, and other products	99.0	100.1	99.2	93.6	184.8	175.9	183.5	158.0
Abrasives	217.6	213.7	213.8	260.0	462.1	418.2	408.0	459.9
Asbestos products	136.6	134.1	134.4	136.4	322.0	313.6	305.6	300.0
Nondurable goods								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 2/	109.8	108.2	106.4	108.6	294.1	280.8	264.9	253.7
Cotton manufactures, except smallwares	125.1	123.6	121.5	123.4	376.4	362.1	329.1	314.0
Cotton smallwares	101.7	98.6	97.2	113.6	232.9	215.1	213.6	241.8
Silk and rayon goods	85.7	84.4	83.5	84.4	248.4	236.6	227.6	209.4
Woolen and worsted manufactures, except dyeing and finishing	112.4	110.5	108.4	115.3	294.4	276.6	270.4	264.6
Hosiery	82.3	81.1	79.4	80.9	193.5	186.4	177.2	171.8
Knitted cloth	99.9	99.4	97.1	108.2	231.6	221.7	214.4	225.0
Knitted outerwear and knitted gloves	105.6	105.5	103.5	122.3	242.4	243.0	237.0	271.7
Knitted underwear	120.0	117.5	115.3	101.4	306.9	295.4	282.8	234.6
Dyeing and finishing textiles, including woolen and worsted	123.2	121.6	120.5	119.4	297.5	279.8	271.3	258.4
Carpets and rugs, wool	130.9	127.1	124.4	109.1	311.6	297.6	288.7	226.7
Hats, fur-felt	89.7	88.5	88.4	89.5	202.1	181.9	185.9	209.4
Jute goods, except felts	80.6	79.4	79.5	108.2	175.4	170.1	168.7	250.1
Cordage and twine	128.8	125.7	120.4	134.6	320.0	300.6	282.0	294.6

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>2/</u>	151.9	148.3	149.6	136.6	343.3	319.6	336.0	292.7
Men's clothing, not elsewhere classified	135.2	134.7	133.6	123.1	309.5	301.5	303.5	278.4
Shirts, collars, and nightwear	111.4	109.7	107.2	95.3	283.2	266.0	258.9	230.3
Underwear and neckwear, men's	108.8	106.5	102.3	111.1	304.0	292.9	280.2	280.2
Work shirts	111.4	109.4	112.1	112.8	257.5	253.1	262.0	280.2
Women's clothing, not elsewhere classified	164.4	158.6	161.5	144.8	355.9	319.3	349.5	296.3
Corsets and allied garments	104.4	103.3	100.2	90.1	230.5	226.8	219.0	186.6
Millinery	90.7	83.2	98.9	88.2	154.8	120.3	195.2	140.4
Handkerchiefs	101.4	102.2	100.9	91.1	251.0	260.4	251.4	220.4
Curtains, draperies, and bedspreads	181.3	180.9	173.7	151.6	424.7	422.2	412.1	330.0
Housefurnishings, other than curtains, etc.	274.3	268.7	283.4	265.4	653.1	590.1	632.2	545.6
Textile bags	226.8	225.3	222.6	236.1	492.9	484.8	472.6	464.0
LEATHER AND LEATHER PRODUCTS <u>2/</u>	107.4	106.4	105.6	104.4	241.8	235.4	234.9	218.3
Leather	93.6	93.7	93.7	90.7	202.3	199.8	199.1	174.5
Boot and shoe cut stock and findings	99.4	99.0	98.1	103.0	202.6	190.3	189.6	191.8
Boots and shoes	100.2	98.5	97.8	96.0	231.9	223.5	223.8	209.3
Leather gloves and mittens	130.8	131.8	131.5	137.1	262.7	264.1	267.5	261.0
Trunks and suitcases	168.8	177.1	172.5	176.7	365.5	397.3	381.8	353.1
FOOD <u>2/</u>	136.4	140.1	147.3	133.3	298.9	300.6	309.6	263.3
Slaughtering and meat packing	150.8	142.0	135.5	133.0	338.9	317.4	271.7	252.0
Butter	163.6	168.2	172.9	172.7	342.2	346.0	353.4	325.9
Condensed and evaporated milk	170.6	179.7	188.9	174.7	364.0	377.8	402.5	337.8
Ice cream	141.4	149.1	157.8	137.9	258.5	269.9	288.5	245.0
Flour	141.9	143.1	143.3	140.5	319.4	336.9	336.4	303.7
Feeds, prepared	168.4	165.3	167.7	155.9	381.4	346.9	358.6	302.2
Cereal preparations	144.3	153.7	153.6	164.3	306.3	313.7	304.4	307.9
Baking	116.0	118.1	117.9	113.0	229.2	227.8	230.8	215.6
Sugar refining, cane	125.9	131.1	129.0	115.6	250.6	302.3	279.1	220.1
Sugar, beet	179.7	225.5	226.4	166.3	392.8	516.8	464.0	366.9
Confectionery	141.9	142.7	137.2	118.2	330.8	325.1	312.2	241.3
Beverages, nonalcoholic	139.7	143.8	150.4	115.2	236.3	240.0	258.7	179.5
Malt liquors	172.4	181.3	184.6	158.1	307.7	326.8	344.1	267.3
Canning and preserving	99.1	114.4	159.8	129.6	250.2	265.7	437.9	302.5
TOBACCO MANUFACTURES	94.4	96.5	95.1	98.3	219.8	216.3	214.5	222.0
Cigarettes	124.5	124.0	121.7	125.9	267.9	253.3	252.8	254.7
Cigars	79.0	82.9	81.7	84.3	190.0	195.8	190.6	206.7
Tobacco (chewing and smoking) and snuff	79.4	78.9	79.4	85.4	169.8	164.0	172.7	166.8

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
PAPER AND ALLIED PRODUCTS 2/	146.9	145.7	145.0	145.7	327.5	319.6	314.4	284.5
Paper and pulp	144.8	143.4	142.9	139.2	327.3	319.9	317.3	272.7
Paper goods, other	156.6	155.9	155.3	153.6	335.7	327.4	320.4	300.4
Envelopes	142.6	142.5	140.6	137.7	282.7	281.5	279.8	255.8
Paper bags	163.4	161.3	160.7	176.9	369.5	347.4	350.0	352.2
Paper boxes	143.9	143.0	141.5	150.4	323.2	315.7	304.2	294.5
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES 2/	133.0	132.8	132.0	127.9	258.0	252.3	247.9	223.9
Newspapers and periodicals	122.7	122.2	121.8	115.2	229.8	224.0	221.6	189.7
Printing; book and job	143.2	142.6	141.6	139.5	286.7	279.3	272.8	253.7
Lithographing	125.3	125.8	124.2	124.7	237.1	236.1	226.2	216.3
Bookbinding	148.8	150.3	149.3	143.1	326.6	325.1	325.4	306.9
CHEMICALS AND ALLIED PRODUCTS 2/	201.0	200.1	199.0	193.8	414.9	407.5	401.0	357.0
Paints, varnishes, and colors	178.9	177.7	176.5	171.4	329.8	327.4	318.6	284.7
Drugs, medicines, and insecticides	239.2	241.3	243.7	250.3	488.5	489.9	499.1	447.7
Perfumes and cosmetics	123.6	133.1	129.9	140.3	240.5	265.3	250.1	257.3
Soap	167.9	168.9	165.7	144.6	384.2	371.0	357.6	268.3
Rayon and allied products	131.4	130.5	130.1	125.5	265.9	260.5	257.8	223.7
Chemicals, not elsewhere classified	283.3	280.9	278.9	272.6	555.8	540.8	529.8	483.3
Explosives and safety fuses	300.7	298.0	293.6	266.3	565.0	566.2	542.8	448.9
Compressed and liquefied gases	248.8	244.9	243.5	222.2	459.6	458.0	445.6	381.0
Ammunition, small-arms	172.7	168.7	167.2	155.0	411.9	398.0	393.3	325.1
Fireworks	243.7	249.2	249.9	297.7	643.1	721.9	747.3	786.2
Cottonseed oil	159.5	160.5	157.2	146.3	448.4	448.7	443.1	384.2
Fertilizers	148.7	141.6	142.1	140.8	393.0	362.5	373.9	349.2
PRODUCTS OF PETROLEUM AND COAL 2/	152.9	153.5	153.3	146.1	308.2	304.5	297.0	250.9
Petroleum refining	150.1	149.8	149.8	146.4	293.4	288.9	279.7	247.0
Coke and byproducts 1/	137.9	138.2	136.5	124.0	295.4	292.7	288.1	211.6
Paving materials	109.9	138.1	137.4	92.9	221.5	268.8	291.6	178.2
Roofing materials	226.2	228.0	227.7	214.1	535.7	526.4	523.1	425.7

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947			1946	1947			1946
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
RUBBER PRODUCTS 2/	186.1	184.5	182.0	200.1	396.5	383.3	375.6	392.2
Rubber tires and inner tubes	211.7	212.2	211.0	237.9	412.1	407.5	398.0	425.3
Rubber boots and shoes	151.4	147.9	146.1	154.8	367.1	322.4	331.7	318.0
Rubber goods, other	169.1	166.0	162.0	173.4	379.9	362.2	352.3	359.9
MISCELLANEOUS INDUSTRIES 2/	182.7	185.6	182.9	183.2	396.6	393.7	384.4	363.3
Instruments (professional and scientific), and fire-control equipment	248.1	246.1	247.4	251.3	499.2	480.8	478.9	456.3
Photographic apparatus	228.2	225.9	218.8	200.2	431.0	426.7	405.1	345.2
Optical instruments and ophthalmic goods	235.4	232.1	231.6	257.1	458.5	445.3	443.5	472.3
Pianos, organs, and parts	226.2	228.6	223.8	170.1	543.0	500.1	475.6	330.4
Games, toys, and dolls	201.3	226.9	221.4	177.0	469.5	525.9	518.7	389.2
Buttons	119.1	113.0	107.7	130.2	280.8	262.5	245.8	294.2
Fire extinguishers	263.8	269.5	273.2	299.5	508.4	506.6	555.4	598.1

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

- 1/ Revisions have been made as follows in the indexes for earlier months:
Gray-iron and semisteel castings - September 1947 pay roll to 317.8.
Cast-iron pipe and fittings - July, August, and September 1947 pay roll to 288.8, 278.1, and 288.8.
Wirework - July 1947 employment to 127.1; pay roll to 261.5.
Coke and byproducts - August 1947 pay roll to 280.0.

- 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
Textile-mill products and other fiber manufactures	December 1947	January 1948
Products of petroleum and coal	January 1948	February 1948
Electrical machinery	February 1948	March 1948
Chemicals and allied products	February 1948	March 1948

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

(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1947		1946		1947		1946	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
MINING:								
Coal:								
Anthracite	81.1	80.9	80.9	83.0	212.2	199.1	224.1	212.3
Bituminous coal	91.0	90.5	89.9	88.1	290.2	275.2	275.2	258.3
Metal:	88.3	87.8	87.4	86.2	184.3	180.4	178.1	159.3
Iron	141.9	145.1	147.0	132.4	291.5	300.4	303.0	239.7
Copper	105.1	102.8	102.0	97.8	234.8	222.9	220.8	192.2
Lead and zinc	90.0	88.9	86.2	103.4	218.4	208.0	197.7	220.1
Gold and silver	32.3	31.1	30.7	30.7	56.0	53.2	51.3	49.8
Miscellaneous	57.4	57.1	55.7	59.6	105.6	105.1	102.3	93.3
Quarrying and nonmetallic	100.4	103.4	104.5	99.7	241.7	250.2	261.2	221.9
Crude petroleum production <u>1/</u>	94.3	94.3	94.5	92.6	172.5	179.0	169.9	147.1
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railways <u>2/</u>	134.8	135.7	137.4	136.9	3/	3/	3/	3/
Street railways and busses	128.5	128.7	128.8	130.1	226.9	223.6	223.2	213.6
Telephone	195.0	193.3	191.6	184.6	314.5	321.7	314.2	264.5
Telegraph	97.6	97.2	98.1	107.4	207.8	206.8	208.1	190.5
Electric light and power	110.3	109.7	109.4	103.0	185.7	187.6	182.8	161.6
TRADE: <u>4/</u>								
Wholesale	116.9	116.5	115.5	114.4	213.7	213.6	206.9	197.2
Retail	130.4	119.8	115.8	126.5	237.1	216.5	207.1	212.2
Food	117.4	116.1	115.0	111.9	221.5	220.0	213.8	194.6
General merchandise	176.1	143.6	131.5	171.0	312.5	251.1	225.2	277.2
Apparel	136.7	124.0	119.4	135.5	248.8	222.7	213.5	230.2
Furniture and housefurnishings	97.4	92.4	89.5	90.4	192.9	177.3	167.6	165.7
Automotive	109.9	107.6	105.6	100.2	204.2	198.6	193.8	178.8
Lumber and building materials	126.1	126.4	126.9	116.1	238.1	233.5	238.8	200.5
SERVICE:								
Hotels (year-round) <u>5/</u>	118.1	117.1	117.7	119.1	233.2	228.6	226.9	218.8
Power laundries <u>6/</u>	120.9	121.3	123.1	125.5	233.6	226.8	232.3	227.7
Cleaning and dyeing <u>6/</u>	156.4	159.3	164.4	161.6	292.9	293.8	303.8	293.6

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.

6/ See footnote 6, table 7.

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 non-manufacturing 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	33,200	7,438,000	58
Mining	2,700	396,000	61
Contract construction	12,500	335,000	18
Public utilities	7,200	877,000	76
Trade:			
Wholesale	11,800	333,000	20
Retail	38,600	1,069,000	25
Service:			
Hotels (year-round)	1,200	142,000	37
Power laundries and cleaning and dyeing	1,600	71,000	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. The estimates as shown in Tables 6 and 8 refer to production and related workers as defined in the Glossary, page vi.

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, Phoenix.
California - Division of Labor Statistics and Research, San Francisco 2.
Connecticut - Employment Security Division, Hartford 15.
Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1.
Florida - Industrial Commission, Tallahassee.
Georgia - Employment Security Administration, Atlanta 3.
Illinois - Dept. of Labor, Division of Unemployment Compensation, Chicago 54.
Indiana - Employment Security Division, Indianapolis 12.
Kansas - State Labor Department, Topeka.
Louisiana - Louisiana State University, Bureau of Business Research, Baton Rouge 3.
Maine - Unemployment Compensation Commission, 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, Jefferson City.
Montana - Unemployment Compensation Commission of Montana, Helena.
Nevada - Employment Security Department, Carson City.
New Jersey - Dept. of Labor, Trenton 8.
New York - Dept. of Labor, Div. of Placement and Unemployment Insurance, New York 17.
North Carolina - Dept. of Labor, Raleigh.
Oklahoma - Employment Security Commission, Oklahoma City 2.
Pennsylvania - Federal Reserve Bank of Philadelphia, 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, Nashville 3.
Texas - University of Texas, Bureau of Business Research, Austin 12.
Utah - Dept. of Employment Security, Salt Lake City 13.
Vermont - Unemployment Compensation Commission, Montpelier.
Virginia - Dept. of Labor and Industry, Div. of Research and Statistics, Richmond 21.
Washington - Office of Unemployment Compensation and Placement, 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 civilian employees of 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 shown in table 1. 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; (4) employment collected and published 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 shown in table 1 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 weekly 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. Terminal leave payments to persons discharged after September 1, 1946 are excluded from leave payments shown but are included in 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. Starting October 1946 pay rolls include lump sum payments for terminal leave authorized by Public Law 350 of the 80th Congress.

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 production and related workers (or nonsupervisory employees and working supervisors) 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. Excludes 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. In mining industries further deductions are made for explosives or other supplies furnished by the company. In coal mining portal-to-portal pay is included. Federal civilian pay rolls are for all employees before deductions for income tax, retirement, and bonds.

Production and related 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.