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EMPLOYMENT and PAY ROLLS

DETAILED REPORT
OCTOBER 1947

United States Department of Labor
Bureau of Labor Statistics

ESTIMATES OF MANUFACTURING EMPLOYMENT - NEW SERIES

Industries in the Textile-Mill Products Group

In this detailed report the Bureau presents a new series of production-worker estimates for the individual industries comprising the textile-mill products group. The new estimates, adjusted to 1945 benchmark data 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 have been adjusted. Despite the lapse of several years without any adjustment to levels other than the 1939 Census of Manufactures, most of the changes are relatively small, with the largest of these occurring in the cotton manufactures, except smallwares industry.

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 textile-mill products group from January 1939 to date will be provided upon request.

U. S. Department of Labor
Bureau of Labor Statistics
Employment and Occupational Outlook Branch
Employment Statistics Division

EMPLOYMENT AND PAY ROLLS

Detailed Report

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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

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

(In thousands)

Industry division	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
TOTAL	43,298	43,036	42,624	42,065	41,848
Manufacturing	15,832	15,798	15,595	15,064	15,035
Mining	894	894	896	883	884
Contract construction	1,895	1,904	1,894	1,753	1,747
Transportation and public utilities	4,102	4,114	4,144	4,093	4,064
Transportation	2,904	2,909	2,927	2,956	2,930
Communication	707	713	722	680	678
Other public utilities	491	492	495	457	456
Trade	8,880	8,684	8,586	8,667	8,523
Finance	1,586	1,583	1,602	1,540	1,534
Service	4,662	4,634	4,619	4,514	4,456
Government	5,447	5,425	5,288	5,551	5,605
Federal	1,744	1,761	1,796	2,100	2,179
State and local	3,703	3,664	3,492	3,451	3,426

See explanatory notes, sections A - H.

*Annual averages 1929-1946 are presented in table 10.

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

Major Industry group	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
ALL MANUFACTURING	15,832	15,798	15,595	15,064	15,035
<u>Durable goods</u>	7,938	7,881	7,795	7,623	7,590
Iron and steel and their products	1,874	1,862	1,854	1,761	1,776
Electrical machinery	749	738	731	751	734
Machinery, except electrical	1,535	1,530	1,522	1,458	1,434
Transportation equipment, except automobiles	548	533	520	588	590
Automobiles	984	987	953	954	969
Nonferrous metals and their products	465	461	456	483	477
Lumber and timber basic products	751	749	748	650	642
Furniture and finished lumber products	532	524	517	489	482
Stone, clay, and glass products	500	497	494	489	486
<u>Nondurable goods</u>	7,894	7,917	7,800	7,441	7,445
Textile-mill products and other fiber manufactures	1,333	1,306	1,287	1,322	1,310
Apparel and other finished textile products	1,344	1,312	1,281	1,211	1,193
Leather and leather products	408	406	401	395	397
Food	1,698	1,822	1,791	1,490	1,564
Tobacco manufactures	103	100	99	102	100
Paper and allied products	467	462	461	454	450
Printing, publishing, and allied industries	706	700	697	672	662
Chemicals and allied products	755	746	730	714	704
Products of petroleum and coal	233	233	234	222	224
Rubber products	273	267	268	290	281
Miscellaneous industries	574	563	551	569	560

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		Oct. 1946	1947		Oct. 1946
	Oct.	Sept.		Oct.	Sept.	
<u>Total (including areas outside United States)</u>						
Total Federal	2,002.4	2,020.9	2,434.1	\$480,977	\$472,184	\$571,522
Executive	1,962.0	1,980.1	2,391.5	471,487	462,839	562,198
Defense agencies	901.2	907.0	1,272.0	204,284	198,793	286,380
Post Office Department	425.0	425.5	425.1	96,702	96,485	96,363
Other agencies	635.8	647.6	694.4	170,501	167,561	179,455
Legislative	7.1	7.2	6.9	2,457	2,448	2,194
Judicial	3.4	3.4	3.1	1,334	1,284	1,190
Government corporations	29.9	30.2	32.6	5,699	5,613	5,940
<u>Continental United States</u>						
Total Federal	1,764.5	1,781.7	2,118.8	438,413	429,642	527,303
Executive	1,731.4	1,748.5	2,084.1	429,608	420,958	518,720
Defense agencies	699.8	704.5	992.6	169,693	164,115	249,794
Post Office Department	423.5	424.0	423.7	96,357	96,137	96,065
Other agencies	608.1	620.0	667.8	163,558	160,706	172,861
Legislative	7.1	7.2	6.9	2,457	2,448	2,194
Judicial	3.4	3.3	3.0	1,297	1,248	1,154
Government corporations	22.6	22.7	24.8	5,051	4,988	5,235
<u>Washington, D. C.</u>						
Total government	221.1	221.9	250.8	61,562	59,896	69,825
District of Columbia government	18.2	18.1	17.5	4,504	4,381	4,241
Federal	202.9	203.8	233.3	57,058	55,515	65,584
Executive	195.2	196.0	225.9	54,385	52,862	63,180
Defense agencies	64.4	64.6	81.5	16,708	16,367	21,978
Post Office Dept.	7.3	7.1	7.5	2,221	2,239	2,214
Other agencies	123.5	124.3	136.9	35,456	34,256	38,988
Legislative	7.1	7.2	6.9	2,457	2,448	2,194
Judicial	.6	.6	.5	216	205	210

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

(In thousands)

Personnel and Pay	1947		October 1946	Average monthly personnel and total annual pay	
	October	September		1943	1939
Personnel, total as of first of month, including those on active duty and those on terminal leave.....	1,543	1,557	2,477	8,944	345
Army.....	941	956	1,738	6,733	192
Navy.....	491	491	596	1,744	124
Marine Corps.....	92	91	121	311	19
Coast Guard.....	19	19	22	156	10
Men.....	1,525	1,539	2,444	8,833	1/
Women.....	18	18	33	111	1/
Pay, total.....	\$335,546	\$332,364	\$606,717	\$11,173,186	\$331,523
Army.....	205,240	194,535	368,736	8,143,833	155,482
Navy.....	108,821	116,371	195,972	2,408,736	143,238
Marine Corps.....	16,684	16,218	33,835	392,140	16,877
Coast Guard.....	4,801	5,240	8,174	228,477	15,926
Pay rolls 2/.....	251,850	248,928	377,628	10,140,852	331,523
Mustering-out pay.....	9,954	9,632	64,343	---	---
Family allowances.....	23,920	23,770	35,650	1,032,334	---
Leave payments.....	49,822	50,034	129,096	---	---
Cash.....	6,430	6,054	10,086	---	---
Bonds.....	43,392	43,980	119,010	---	---

1/ Data not available.

2/ Includes cash payments for clothing allowance balances for Navy and Coast Guard in October.

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

Region and State	1947			1946	
	Sept.	Aug.	July	Sept.	Aug.
New England					
Maine	114.7	114.5	111.5	117.6	118.7
New Hampshire	82.1	80.7	77.6	79.6	79.2
Vermont	39.9	40.2	39.2	41.6	41.4
Massachusetts	732.5	720.4	707.2	750.0	741.2
Rhode Island	148.1	143.0	141.4	147.7	145.2
Connecticut	411.1	407.8	404.6	406.7	396.5
Middle Atlantic					
New York	1,900.1	1,870.8	1,801.9	1,926.8	1,910.8
New Jersey	749.2	735.9	719.6	748.9	742.8
Pennsylvania	1,505.8	1,491.7	1,471.8	1,482.6	1,466.7
East North Central					
Ohio	1,244.0	1,238.1	1,232.0	1,223.5	1,205.1
Indiana	580.3	552.3	550.0	545.1	530.7
Illinois	1,249.0	1,237.8	1,228.6	1,195.7	1,186.0
Michigan	1,023.3	1,004.6	997.0	1,040.6	1,010.4
Wisconsin	444.2	442.1	451.8	417.8	411.3
West North Central					
Minnesota	209.9	201.6	205.1	200.0	195.1
Iowa	149.4	149.1	147.4	136.4	143.3
Missouri	356.8	356.6	352.9	340.2	341.4
North Dakota	7.0	7.2	7.0	5.9	6.2
South Dakota	11.3	11.5	11.8	8.2	9.9
Nebraska	43.1	43.2	43.4	40.3	43.3
Kansas	79.4	80.0	80.7	*73.7	78.1
South Atlantic					
Delaware	48.2	48.4	45.2	48.0	47.9
Maryland	232.4	228.2	217.4	245.5	249.0
District of Columbia	17.5	17.3	17.4	16.7	16.4
Virginia	214.5	211.5	208.2	211.4	205.0
West Virginia	132.8	132.5	131.0	132.9	132.0
North Carolina	367.7	366.1	364.7	361.9	361.2
South Carolina	192.3	192.0	191.5	182.8	183.9
Georgia	251.9	248.5	*238.2	260.8	257.1
Florida	78.6	76.8	76.0	77.1	74.3
East South Central					
Kentucky	128.2	125.8	122.4	126.2	126.7
Tennessee	252.2	250.8	246.2	243.2	244.8
Alabama	217.5	219.8	221.4	212.0	210.3
Mississippi	95.0	95.3	91.4	87.2	87.1
West South Central					
Arkansas	74.9	74.0	71.0	69.1	*67.9
Louisiana	142.7	142.6	140.9	127.1	128.0
Oklahoma	55.2	55.2	53.8	52.2	*54.6
Texas	337.9	341.5	335.1	312.1	315.7

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

Region and State	1947			1946	
	Sept.	Aug.	July	Sept.	Aug.
Mountain					
Montana	18.1	18.2	18.4	16.9	16.7
Idaho	19.3	19.5	20.8	23.2	23.0
Wyoming	6.8	6.8	6.7	5.9	6.1
Colorado	57.9	56.6	55.9	55.5	54.5
New Mexico	10.1	10.2	10.1	10.5	10.6
Arizona	12.7	12.5	12.7	12.2	*11.9
Utah	30.1	26.3	29.1	28.8	24.8
Nevada	3.7	3.7	3.6	3.4	3.4
Pacific					
Washington	191.7	185.0	176.5	177.8	175.6
Oregon	122.2	122.4	116.6	127.4	126.5
California	743.6	759.9	703.6	738.8	740.8

See explanatory notes, section 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 5a. - Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States
(In thousands)

State	1947			1946	
	Sept.	Aug.	July	Sept.	Aug.
Illinois	3,142	3,123	3,113	3,018	2,996
Massachusetts	1,705	1,684	1,671	1,714	1,706
Montana	136	135	136	132	132
New Jersey	1,574	1,562	1,543	1,557	1,557
New York	5,440	5,385	5,316	5,363	5,374
Pennsylvania	3,571	3,540	3,510	3,478	3,444
Texas	1,662	1,659	1,653	1,609	1,607
Wisconsin	998	987	1,001	947	932

See explanatory notes, sections H and I.

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

(In thousands)

Industry group and industry	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
ALL MANUFACTURING	12,854	12,829	12,640	12,253	12,244
Durable goods	6,528	6,477	6,401	6,281	6,249
Nondurable goods	6,326	6,352	6,239	5,972	5,995
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS	1,589	1,580	1,572	1,500	1,514
Blast furnaces, steel works, and rolling mills	502.4	500.0	502.9	473.5	480.1
Gray-iron and semisteel castings	83.7	83.2	84.1	81.9	82.1
Malleable-iron castings	26.8	26.5	26.4	24.4	24.4
Steel castings	49.0	49.1	48.6	48.8	50.7
Cast-iron pipe and fittings	20.8	20.6	20.5	19.1	18.7
Tin cans and other tinware	46.3	47.7	47.1	42.2	44.8
Wire drawn from purchased rods	30.5	30.1	30.5	29.2	29.8
Wirework	40.2	40.8	39.9	41.3	41.3
Cutlery and edge tools	24.1	23.5	23.1	25.8	25.9
Tools (except edge tools, machine tools, files, and saws)	24.6	24.3	24.1	26.8	26.4
Hardware	49.6	48.7	47.8	48.3	47.4
Plumbers' supplies	28.6	28.4	28.6	23.5	28.1
Stoves, oil burners, and heating equipment not elsewhere classified	67.7	67.2	64.4	60.3	59.4
Steam and hot-water heating apparatus and steam fittings	45.7	45.4	45.5	50.2	48.9
Stamped and enameled ware and galvanizing	85.5	85.2	83.2	82.1	81.5
Fabricated structural and ornamental metalwork	59.0	59.5	59.6	55.1	56.1
Metal doors, sash, frames, molding, and trim	10.4	10.2	10.0	10.0	10.2
Bolts, nuts, washers, and rivets	20.8	21.0	21.1	20.6	20.4
Forgings, iron and steel	27.1	26.9	26.9	26.5	26.2
Wrought pipe, welded and heavy-riveted	13.6	13.2	13.1	13.1	13.4
Screw-machine products and wood screws	26.1	26.1	26.2	29.0	28.5
Steel barrels, kegs, and drums	5.9	6.1	6.2	6.3	6.2
Firearms	14.1	13.7	13.6	14.2	14.2
ELECTRICAL MACHINERY	577	567	559	579	563
Electrical equipment	312.3	309.8	305.7	307.6	300.1
Radios and phonographs	86.3	82.5	80.3	88.5	85.2
Communication equipment	79.0	77.5	77.3	90.6	89.0

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

(In thousands)

Industry group and industry	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
MACHINERY, EXCEPT ELECTRICAL	1,190	1,185	1,175	1,131	1,112
Machinery and machine-shop products	377.8	378.3	376.0	370.3	363.2
Engines and turbines	43.0	43.2	43.3	44.8	45.4
Tractors	57.2	56.4	55.0	53.7	52.0
Agricultural machinery, excluding tractors	51.1	51.3	50.5	42.3	41.2
Machine tools	51.4	51.7	51.9	62.0	62.0
Machine-tool accessories	41.8	42.1	42.5	51.2	50.6
Textile machinery	38.9	37.0	36.0	33.9	33.4
Pumps and pumping equipment	54.7	56.1	55.7	57.4	57.5
Typewriters	24.4	23.9	23.4	21.3	20.5
Cash registers, adding and calculating machines	42.4	41.6	40.5	35.4	34.6
Washing machines, wringers and driers, domestic	15.1	14.8	14.9	12.0	11.9
Sewing machines, domestic and industrial	12.4	12.0	11.9	10.3	10.1
Refrigerators and refrigeration equipment	77.7	78.1	77.8	63.5	60.2
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	424	409	397	457	455
Locomotives	25.9	25.1	24.4	27.4	27.1
Cars, electric- and steam-railroad	55.2	55.4	54.6	48.5	47.9
Aircraft and parts, excluding aircraft engines	133.9	130.6	130.7	143.2	139.5
Aircraft engines	26.2	26.6	26.7	28.6	27.6
Shipbuilding and boatbuilding	103.5	95.2	87.1	133.9	139.0
Motorcycles, bicycles, and parts	14.2	13.9	13.6	11.5	11.0
AUTOMOBILES	795	798	772	774	788
NONFERROUS METALS AND THEIR PRODUCTS	397	394	390	417	411
Smelting and refining, primary, of nonferrous metals	39.2	39.3	39.4	38.6	37.5
Alloying and rolling and drawing of nonferrous metals except aluminum	52.3	52.5	52.8	61.5	61.7
Clocks and watches	27.8	27.5	26.9	28.2	27.8
Jewelry (precious metals) and jewelers' findings	17.6	17.1	16.6	17.4	17.9
Silverware and plated ware	17.0	16.6	16.2	14.7	14.6
Lighting equipment	29.7	30.0	30.0	31.2	30.6
Aluminum manufactures	42.5	41.8	40.5	50.6	49.7
Sheet-metal work, not elsewhere classified <u>1/</u>	25.7	24.9	25.0	26.7	26.1

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

(In thousands)

Industry group and industry	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
LUMBER AND TIMBER BASIC PRODUCTS <u>2/</u>	681	679	679	590	583
Sawmills and logging camps	550.3	549.7	551.5	473.8	468.5
Planing and plywood mills	130.9	129.1	127.1	116.6	114.3
FURNITURE AND FINISHED LUMBER PRODUCTS <u>2/</u>	446	438	433	411	405
Mattresses and bedsprings	34.9	33.3	31.5	30.1	29.9
Furniture	238.6	233.1	230.3	220.0	216.5
Wooden boxes, other than cigar	36.0	35.8	35.6	33.6	33.3
Caskets and other morticians' goods	19.4	19.6	19.4	17.3	17.4
Wood preserving	17.9	18.2	18.9	16.5	16.6
Wood, turned and shaped	31.6	31.4	31.5	30.3	30.1
STONE, CLAY, AND GLASS PRODUCTS <u>2/</u>	429	427	424	422	418
Glass and glassware	119.7	118.6	118.2	124.2	123.0
Glass products made from purchased glass	12.2	12.0	12.0	12.4	12.0
Cement	36.8	37.0	36.8	34.6	34.9
Brick, tile, and terra cotta	75.5	75.3	75.1	70.9	70.7
Pottery and related products	56.1	55.9	56.1	53.7	53.5
Gypsum	6.4	6.1	6.1	5.8	5.9
Wallboard, plaster (except gypsum), and mineral wool	12.3	12.1	11.8	10.8	10.8
Lime	9.1	9.2	9.2	9.0	8.9
Marble, granite, slate, and other products	18.4	18.5	18.4	17.2	17.4
Abrasives	16.6	16.9	16.2	19.8	19.3
Asbestos products	21.3	21.0	20.6	21.3	20.5
<u>Nondurable Goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES <u>2/</u>	1,217	1,192	1,172	1,215	1,204
Cotton manufactures, except smallwares	508.2	498.9	494.1	505.3	500.9
Cotton smallwares	13.7	13.4	13.1	15.9	15.7
Silk and rayon goods	105.7	103.3	101.5	104.6	103.6
Woolen and worsted manufactures, except dyeing and finishing	170.9	168.7	162.9	177.0	176.1
Hosiery	133.4	130.2	128.2	132.5	130.2
Knitted cloth	11.2	11.0	10.9	12.8	12.7
Knitted outerwear and knitted gloves	30.8	29.6	27.9	35.3	34.7
Knitted underwear	46.9	45.6	45.0	40.3	39.9
Dyeing and finishing textiles, including woolen and worsted	85.1	83.0	81.2	82.7	82.5
Carpets and rugs, wool	33.6	32.9	32.4	27.9	27.4
Hats, fur-felt	13.6	13.2	13.3	13.3	13.1
Jute goods, except felts	3.0	2.9	3.0	4.3	4.2
Twine and twine	15.4	14.7	14.9	17.2	16.9

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

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

(In thousands)

Industry group and industry	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 2/	1,181	1,149	1,122	1,065	1,049
Men's clothing, not elsewhere classified	307.0	299.4	294.7	270.3	266.6
Shirts, collars, and nightwear	79.3	77.2	75.1	65.2	65.0
Underwear and neckwear, men's	17.3	17.2	16.6	18.5	17.8
Work shirts	15.8	15.9	15.6	15.0	15.2
Women's clothing, not elsewhere classified	462.3	452.1	440.4	417.9	415.0
Corsets and allied garments	18.6	18.0	17.5	16.3	15.9
Millinery	25.2	23.8	23.6	24.3	24.6
Handkerchiefs	5.1	5.0	4.6	4.4	4.2
Curtains, draperies, and bedspreads	31.2	28.9	27.3	30.2	28.2
Housefurnishings, other than curtains, etc.	31.6	30.6	29.4	30.1	29.5
Textile bags	28.1	27.8	27.3	28.2	27.1
LEATHER AND LEATHER PRODUCTS 2/	366	364	360	355	358
Leather	46.9	46.7	46.0	44.0	44.4
Boot and shoe cut stock and findings	19.6	19.3	19.2	20.3	20.1
Boots and shoes	225.8	225.1	223.4	216.3	219.3
Leather gloves and mittens	13.1	12.8	12.7	14.0	13.9
Trunks and suitcases	14.4	13.5	12.7	15.0	14.6
FOOD 2/	1,255	1,376	1,344	1,091	1,175
Slaughtering and meat packing	183.0	182.0	182.9	92.9	103.9
Butter	34.9	35.8	37.8	36.3	36.6
Condensed and evaporated milk	20.5	21.2	22.7	19.9	20.7
Ice cream	27.8	31.1	32.8	25.7	27.3
Flour	39.8	39.0	39.3	38.9	37.2
Feeds, prepared	28.9	29.6	29.9	27.6	26.3
Cereal preparations	13.0	14.0	14.2	13.8	13.7
Baking	224.5	219.8	218.0	205.3	205.6
Sugar refining, cane	20.5	20.8	20.8	14.0	14.7
Sugar, beet	26.0	11.9	10.5	24.1	8.7
Confectionery	76.4	68.3	62.8	63.0	56.8
Beverages, nonalcoholic	35.7	39.1	39.7	27.5	28.3
Malt liquors	74.7	76.2	76.0	63.4	63.8
Canning and preserving	237.3	379.0	349.7	270.0	366.4
TOBACCO MANUFACTURES	88	86	85	89	87
Cigarettes	33.4	32.6	32.9	33.9	33.7
Cigars	41.6	40.3	39.3	41.4	40.0
Tobacco (chewing and smoking) and snuff	7.3	7.1	7.0	7.8	7.6

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

(In thousands)

Industry group and industry	1947				
	Oct.	Sept.	Aug.	Oct.	Sept.
PAPER AND ALLIED PRODUCTS <u>2/</u>	385	381	380	376	372
Paper and pulp	196.9	197.0	196.6	187.7	186.8
Paper goods, other	58.8	57.4	56.7	56.8	56.1
Envelopes	12.2	12.0	11.8	11.4	11.3
Paper bags	17.9	17.7	18.0	18.7	18.3
Paper boxes	98.1	96.0	95.6	100.4	98.2
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>2/</u>	433	429	426	410	401
Newspapers and periodicals	144.6	144.4	143.0	133.9	131.7
Printing, book and job	180.7	177.5	175.7	174.3	170.1
Lithographing	32.8	32.5	32.6	32.0	31.6
Bookbinding	38.5	38.2	38.3	35.6	34.3
CHEMICALS AND ALLIED PRODUCTS	572	563	547	539	530
Paints, varnishes, and colors	36.7	36.5	36.2	36.0	36.0
Drugs, medicines, and insecticides	51.3	51.4	50.9	53.1	52.1
Perfumes and cosmetics	10.4	9.8	9.4	12.6	12.2
Soap	16.1	15.7	15.3	13.7	14.2
Rayon and allied products	59.2	58.8	58.0	57.8	57.4
Chemicals, not elsewhere classified	123.4	123.6	124.6	118.1	116.6
Explosives and safety fuses	13.9	13.8	13.8	12.9	12.8
Compressed and liquefied gases	6.1	6.3	6.4	5.3	5.7
Ammunition, small-arms	7.0	6.9	4.4	6.9	7.4
Fireworks	2.8	2.4	2.0	3.4	3.2
Cottonseed oil	19.5	15.2	10.9	17.5	13.0
Fertilizers	22.8	22.9	21.5	22.0	22.3
PRODUCTS OF PETROLEUM AND COAL	162	162	163	155	157
Petroleum refining	101.0	102.0	103.0	99.2	99.8
Coke and byproducts	27.5	27.2	27.1	25.8	25.9
Paving materials	2.3	2.4	2.3	2.0	2.3
Roofing materials	13.2	13.2	13.1	12.6	12.6

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

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

(In thousands)

Industry group and industry	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
RUBBER PRODUCTS <u>2/</u>	220	215	215	236	229
Rubber tires and inner tubes	114.4	112.5	116.6	127.1	122.6
Rubber boots and shoes	21.7	21.0	18.9	21.4	21.0
Rubber goods, other	84.0	81.9	79.6	87.1	85.2
MISCELLANEOUS INDUSTRIES <u>2/</u>	446	435	425	441	433
Instruments (professional and scientific), and fire-control equipment	28.0	27.7	27.5	28.5	28.8
Photographic apparatus	38.7	38.2	38.3	35.1	35.0
Optical instruments and ophthalmic goods	27.5	27.5	27.6	29.8	29.2
Pianos, organs, and parts	16.1	15.2	14.6	13.4	13.0
Games, toys, and dolls	42.3	41.0	38.6	33.7	32.5
Buttons	12.1	11.6	11.4	14.6	14.6
Fire extinguishers	2.8	2.8	2.8	2.9	2.9

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

- 1/ Revisions have been made as follows in the data for earlier months:
Sheet-metal work, not elsewhere classified - June 1947 to 25.7.
- 2/ Estimates for the individual industries comprising the major industry group have been adjusted to levels indicated by final 1945 data 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

Table 7. - Estimated Employment in
Selected Nonmanufacturing Industries

(In thousands)

Industry group and industry <u>1/</u>	1947			1946	
	Oct.	Sept.	Aug.	Oct.	Sept.
MINING: <u>2/</u>					
Coal:					
Anthracite	67.0	66.9	67.5	68.9	68.1
Bituminous coal	333	331	328	334	335
Metal	77.5	77.9	79.0	74.1	73.7
Iron	29.6	29.7	29.8	27.8	27.7
Copper	24.3	24.3	24.2	21.8	21.5
Lead and zinc	13.8	13.9	14.8	15.0	14.9
Gold and silver	7.6	7.8	7.8	7.2	7.2
Miscellaneous	2.2	2.2	2.3	2.3	2.4
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railways <u>3/</u>	1,359	1,364	1,381	1,376	1,363
Street railways and busses <u>4/</u>	249	251	253	252	252
Telephone	609	613	616	577	575
Telegraph <u>5/</u>	36.9	37.6	37.8	41.5	42.2
Electric light and power	267	268	269	249	249
SERVICE:					
Hotels (year-round)	380	379	379	389	385
Power laundries <u>2/</u>	<u>6/</u>	<u>6/</u>	<u>6/</u>	<u>6/</u>	<u>6/</u>
Cleaning and dyeing <u>2/</u>	<u>6/</u>	<u>6/</u>	<u>6/</u>	<u>6/</u>	<u>6/</u>
GOVERNMENT:					
Federal <u>7/</u>	1,744	1,761	1,796	2,100	2,179
State and local	3,703	3,664	3,492	3,451	3,426

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.
- 7/ Continental United States only. Excludes fourth-class postmasters.

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
ALL MANUFACTURING	156.9	156.6	154.3	149.6	341.6	336.9	323.3	292.8
Durable goods	180.8	179.4	177.3	173.9	379.6	372.2	356.9	328.1
Nondurable goods	138.1	138.7	136.2	130.4	304.5	302.4	290.4	258.3
<u>Durable Goods</u>								
IRON AND STEEL AND THEIR PRODUCTS	160.2	159.3	158.5	151.2	329.0	325.7	314.4	273.7
Blast furnaces, steel works, and rolling mills	129.3	128.7	129.5	121.9	249.9	252.9	250.4	203.2
Gray-iron and semisteel castings	143.2	142.3	143.9	140.2	324.4	321.9	303.3	294.0
Malleable-iron castings	148.6	146.8	146.3	135.5	357.1	339.4	312.5	292.5
Steel castings	162.8	163.1	161.5	162.0	333.0	326.4	313.2	291.0
Cast-iron pipe and fittings	126.1	125.0	124.0	115.7	303.9	292.7	281.5	253.5
Tin cans and other tinware	145.7	150.1	148.1	132.9	325.8	343.3	331.1	248.8
Wire drawn from purchased rods	139.0	137.1	138.6	132.7	263.9	256.2	251.5	231.3
Wirework	132.3	134.4	131.3	135.9	285.4	286.2	267.8	265.1
Cutlery and edge tools	156.1	152.2	149.5	167.4	368.4	355.9	329.6	368.9
Tools (except edge tools, machine tools, files, and saws)	160.7	158.9	157.5	174.9	347.7	343.6	325.9	355.8
Hardware	139.2	136.7	134.1	135.5	316.8	304.6	288.5	278.3
Plumbers' supplies	116.1	115.4	115.9	95.4	242.4	230.6	220.7	173.2
Stoves, oil burners, and heating equipment not elsewhere classified	146.8	145.6	139.6	130.8	327.9	313.8	280.9	258.9
Steam and hot-water heating apparatus and steam fittings	150.6	149.7	150.0	165.7	317.7	311.1	289.2	325.5
Stamped and enameled ware and galvanizing	153.9	153.4	149.8	147.7	351.2	344.6	327.6	300.7
Fabricated structural and ornamental metalwork	166.1	167.5	167.8	155.2	342.9	335.2	335.5	273.9
Metal doors, sash, frames, molding, and trim	134.0	131.1	129.1	129.2	286.0	276.8	263.4	247.9
Bolts, nuts, washers, and rivets	145.4	146.6	147.7	143.8	306.5	292.5	291.3	253.9
Forgings, iron and steel	176.6	175.1	174.9	172.1	381.8	359.3	331.3	318.6
Wrought pipe, welded and heavy-riveted	162.7	157.8	156.8	156.3	338.6	314.1	308.2	261.9
Screw-machine products and wood screws	154.5	154.3	154.8	171.6	334.2	326.1	317.9	349.0
Steel barrels, kegs, and drums	97.6	100.5	101.5	104.0	236.7	257.6	251.6	223.0
Firearms	281.7	274.4	271.4	284.3	615.4	605.7	581.1	553.2
ELECTRICAL MACHINERY	222.8	218.9	215.6	223.4	455.9	442.2	420.3	408.1
Electrical equipment	172.7	171.4	169.1	170.1	349.6	344.4	330.4	303.7
Radios and phonographs	198.4	189.7	184.7	203.4	445.3	419.8	385.0	408.5
Communication equipment	245.8	241.2	240.8	282.0	486.4	459.3	438.5	521.5

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	
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
MACHINERY, EXCEPT ELECTRICAL	225.1	224.3	222.4	214.0	448.2	442.6	426.1	388.0
Machinery and machine-shop products	186.7	187.0	185.9	183.0	373.6	372.0	360.2	333.5
Engines and turbines	230.6	231.4	232.1	240.1	493.4	507.3	513.1	481.7
Tractors	182.7	180.2	176.0	171.8	328.5	318.2	303.1	269.0
Agricultural machinery, excluding tractors	183.6	184.5	181.6	152.1	394.4	387.3	370.1	277.2
Machine tools	140.4	141.2	141.6	169.2	253.9	254.2	250.8	291.9
Machine-tool accessories	166.1	167.5	169.0	203.6	291.9	293.5	280.3	343.3
Textile machinery 1/	177.4	168.9	164.3	154.7	372.7	357.6	326.6	298.3
Pumps and pumping equipment	225.8	231.4	229.6	237.0	474.9	488.0	475.1	452.8
Typewriters	150.6	147.6	144.1	131.6	337.5	317.6	306.2	261.6
Cash registers, adding and calculating machines	215.5	211.2	206.0	179.9	449.5	436.4	400.7	336.0
Washing machines, wringers and driers, domestic	202.3	197.6	200.0	160.3	424.6	395.0	388.9	301.2
Sewing machines, domestic and industrial	157.9	152.7	152.0	130.8	364.8	343.9	319.6	255.0
Refrigerators and refrigeration equipment	221.0	222.2	221.2	180.6	436.9	421.3	404.1	311.4
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	267.2	257.4	250.0	287.8	535.2	501.5	482.9	542.3
Locomotives	400.5	388.1	377.2	423.6	870.1	875.3	811.9	895.6
Cars, electric- and steam-railroad	225.1	225.8	222.8	197.6	487.8	465.9	436.3	386.2
Aircraft and parts, excluding aircraft engines	337.5	329.1	329.3	360.9	663.1	624.4	637.6	681.3
Aircraft engines	294.8	299.2	299.9	321.8	499.9	501.3	486.7	530.2
Shipbuilding and boatbuilding	149.4	137.5	125.8	193.3	297.8	266.1	241.8	353.7
Motorcycles, bicycles, and parts	203.8	200.0	195.3	165.0	432.2	404.9	392.8	317.5
AUTOMOBILES	197.7	198.3	192.0	192.3	380.3	373.5	338.7	324.3
NONFERROUS METALS AND THEIR PRODUCTS	173.3	171.7	170.0	182.0	353.2	343.6	329.7	338.8
Smelting and refining, primary, of nonferrous metals	141.9	142.2	142.8	139.9	291.9	298.7	289.2	250.6
Alloying and rolling and drawing of nonferrous metals except aluminum	134.7	135.2	136.1	158.4	257.0	254.4	248.1	286.6
Clocks and watches	137.2	135.7	132.8	138.8	316.1	307.5	289.8	301.6
Jewelry (precious metals) and jewelers' findings	122.1	118.6	115.1	120.8	254.2	233.7	208.8	235.5
Silverware and plated ware	140.0	136.8	133.9	121.6	324.5	314.7	287.6	257.5
Lighting equipment	145.2	146.7	146.6	152.3	284.9	278.5	271.2	264.6
Aluminum manufactures	180.5	177.7	172.1	214.9	340.7	321.5	308.3	362.0
Sheet-metal work, not elsewhere classified 1/	137.0	133.0	133.5	142.2	293.1	278.1	279.2	280.8

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	
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
LUMBER AND TIMBER BASIC PRODUCTS 2/	162.1	161.6	161.5	140.4	385.5	385.7	387.3	292.0
Sawmills and logging camps	175.5	175.3	175.8	151.0	420.6	425.8	430.4	315.0
Planing and plywood mills	165.5	163.2	160.7	147.4	386.6	373.3	365.8	294.8
FURNITURE AND FINISHED LUMBER PRODUCTS 2/	136.1	133.5	131.9	125.2	318.5	305.0	293.3	264.2
Mattresses and bedsprings	170.3	162.3	153.5	146.7	378.7	356.0	323.0	297.2
Furniture	134.1	131.0	129.4	123.7	315.0	297.9	284.7	260.1
Wooden boxes, other than cigar	127.1	126.3	125.6	118.8	308.8	305.0	304.7	267.8
Caskets and other morticians' goods	139.6	140.6	139.2	124.7	281.4	283.4	271.6	228.0
Wood preserving	142.4	145.1	150.4	131.6	384.2	393.7	404.2	313.8
Wood, turned and shaped	128.5	127.9	128.2	123.1	287.8	281.2	281.4	258.7
STONE, CLAY, AND GLASS PRODUCTS 2/	146.0	145.5	144.6	143.8	311.2	306.0	301.7	271.3
Glass and glassware	167.7	166.3	165.7	174.0	342.7	340.7	334.1	316.2
Glass products made from purchased glass	121.5	120.1	120.2	123.7	264.5	251.5	246.4	239.6
Cement	151.1	152.1	151.1	141.9	294.7	298.3	297.0	242.5
Brick, tile, and terra cotta	130.1	129.7	129.4	122.1	301.2	295.0	289.1	248.5
Pottery and related products	166.0	165.2	165.9	158.6	342.7	326.5	330.4	285.7
Gypsum	128.7	124.2	123.5	117.2	278.1	258.3	260.4	233.2
Wallboard, plaster (except gypsum), and mineral wool	151.2	149.4	145.3	133.1	368.4	357.8	353.9	281.7
Lime	95.8	97.0	97.0	94.7	258.9	245.5	243.3	218.3
Marble, granite, slate, and other products	99.2	99.9	99.4	92.8	183.5	180.9	176.4	155.8
Abrasives	215.2	217.9	208.8	256.2	407.0	418.2	375.6	407.8
Asbestos products	134.4	132.0	129.9	134.1	305.6	299.2	301.7	287.5
<u>Nondurable Goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 2/	106.4	104.2	102.5	106.2	264.9	256.3	240.1	241.1
Cotton manufactures, except smallwares	121.5	119.3	118.1	120.8	329.1	317.4	305.7	297.0
Cotton smallwares	97.2	95.2	93.3	113.3	213.6	210.6	195.4	238.1
Silk and rayon goods	83.5	81.6	80.2	82.7	227.6	220.2	208.5	199.9
Woolen and worsted manufactures, except dyeing and finishing	108.4	107.0	103.3	112.3	270.4	268.5	233.6	254.5
Hosiery	79.4	77.5	76.3	78.9	177.2	166.4	158.6	162.9
Knitted cloth	97.1	95.2	94.2	110.8	214.4	207.8	204.1	235.0
Knitted outerwear and knitted gloves	103.5	99.5	94.0	118.7	239.0	217.2	200.6	264.1
Knitted underwear	115.3	111.9	110.5	98.9	282.8	274.3	258.0	220.8
Dyeing and finishing textiles including woolen and worsted	120.5	117.6	114.9	117.1	271.3	269.5	248.7	238.4
Carpets and rugs, wool	124.4	121.7	119.7	103.3	288.7	276.5	246.3	207.1
Hats, fur-felt	88.4	85.8	86.3	86.5	185.9	177.2	171.4	199.0
Jute goods, except felts	79.5	76.6	78.1	112.3	168.7	163.7	162.0	252.7
Cordage and twine	120.4	115.3	116.5	134.3	282.0	258.6	256.0	283.6

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>2/</u>	149.6	145.6	142.2	134.9	336.0	318.5	302.3	283.6
Men's clothing, not elsewhere classified	133.7	130.4	128.3	117.7	302.3	284.9	264.8	246.2
Shirts, collars, and nightwear	107.2	104.4	101.6	88.2	258.9	243.2	225.5	195.6
Underwear and neckwear, men's	102.0	101.4	97.9	109.0	268.2	256.6	236.3	272.4
Work shirts <u>1/</u>	111.7	112.4	110.7	106.4	260.4	266.9	263.6	236.7
Women's clothing, not elsewhere classified	161.5	158.0	153.9	146.0	349.5	334.7	323.1	311.8
Corsets and allied garments	99.0	95.8	93.4	86.8	218.5	203.1	192.3	177.1
Millinery <u>1/</u>	98.9	93.4	92.6	95.1	195.2	173.1	171.2	168.3
Handkerchiefs	100.9	98.3	90.6	86.6	252.8	239.4	210.6	193.8
Curtains, draperies, and bedspreads	175.6	162.6	153.9	169.8	417.2	374.0	334.7	375.1
Housefurnishings, other than curtains, etc.	283.4	274.0	263.5	269.3	632.2	604.6	573.5	512.6
Textile bags	222.6	220.1	216.5	223.9	472.6	458.8	443.6	419.6
LEATHER AND LEATHER PRODUCTS <u>2/</u>	105.6	104.8	103.8	102.2	234.9	231.6	220.4	199.5
Leather	93.7	93.3	91.9	87.9	199.1	198.5	189.8	158.4
Boot and shoe cut stock and findings	98.1	96.9	96.3	101.5	189.6	191.4	189.8	182.4
Boots and shoes	97.8	97.5	96.7	93.7	223.8	221.5	209.9	188.2
Leather gloves and mittens	130.6	128.1	126.8	140.0	264.8	253.5	242.3	280.1
Trunks and suitcases	172.5	162.6	153.1	179.9	381.8	335.9	309.1	353.2
FOOD <u>2/</u>	146.9	161.1	157.3	127.7	308.8	331.6	325.6	232.2
Slaughtering and meat packing	135.5	134.7	135.5	68.8	271.7	271.9	270.0	108.6
Butter	173.3	178.0	188.0	180.6	349.5	364.8	391.3	334.0
Condensed and evaporated milk	188.9	194.5	208.8	183.3	402.5	419.8	446.0	345.1
Ice cream	157.8	176.8	185.9	145.7	288.5	326.2	346.0	253.8
Flour	143.3	140.4	141.6	140.3	338.7	334.7	336.1	291.3
Feeds, prepared	167.1	171.2	173.1	159.8	357.3	382.9	364.1	304.6
Cereal preparations	155.7	168.0	169.7	164.9	300.3	337.5	361.2	312.1
Baking	117.9	115.5	114.5	107.9	230.8	223.2	218.4	196.7
Sugar refining, cane	129.0	131.3	131.2	88.0	279.1	278.7	284.2	135.5
Sugar, beet	224.4	102.9	90.2	207.6	450.8	214.3	286.7	344.1
Confectionery	137.2	122.6	112.8	113.0	312.2	271.3	233.4	214.0
Beverages, nonalcoholic	149.7	164.1	166.4	115.5	256.7	293.3	298.0	172.3
Malt liquors	184.6	188.4	187.9	156.7	344.1	370.3	365.1	251.4
Canning and preserving	157.9	252.1	232.7	179.7	434.2	676.8	653.7	452.6
TOBACCO MANUFACTURES	95.1	92.3	91.6	95.8	214.5	204.9	203.0	207.4
Cigarettes	121.7	118.7	120.0	123.7	252.8	243.7	248.5	238.9
Cigars	81.7	79.1	77.3	81.4	190.6	179.8	173.5	191.7
Tobacco (chewing and smoking) and snuff	79.5	77.4	76.8	85.6	172.8	167.5	164.2	160.0

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
PAPER AND ALLIED PRODUCTS 2/	145.0	143.5	143.0	141.7	314.4	308.5	300.6	268.5
Paper and pulp	142.9	142.9	142.7	136.2	317.3	317.0	312.3	260.4
Paper goods, other	155.8	152.1	150.3	150.5	319.1	309.3	292.7	280.1
Envelopes	140.6	137.4	136.0	131.1	279.8	273.7	258.8	230.2
Paper bags	160.7	159.2	161.6	168.6	350.0	333.9	337.6	327.4
Paper boxes	141.5	138.5	137.9	144.9	304.2	291.5	280.1	274.1
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES 2/	132.0	130.7	129.8	125.0	247.9	245.0	235.5	208.4
Newspapers and periodicals	121.8	121.7	120.5	112.8	221.6	221.6	214.0	178.9
Printing, book and job	141.6	139.1	137.7	136.6	272.8	266.6	254.8	233.4
Lithographing	124.8	123.8	124.0	121.9	227.3	225.5	215.7	202.7
Bookbinding	149.3	148.0	148.7	138.2	326.3	322.9	311.9	283.0
CHEMICALS AND ALLIED PRODUCTS	198.4	195.2	189.7	187.2	400.5	395.1	380.4	335.3
Paints, varnishes, and colors	130.4	129.8	128.6	127.9	235.4	233.2	232.0	204.8
Drugs, medicines, and insecticides	187.3	187.6	185.6	193.8	383.6	373.3	362.5	331.9
Perfumes and cosmetics	100.6	94.2	90.3	121.8	190.6	174.3	163.6	212.7
Soap	118.5	115.9	112.8	100.8	255.7	252.0	233.4	169.0
Rayon and allied products	122.7	121.8	120.1	119.8	244.6	246.8	239.9	209.8
Chemicals, not elsewhere classified	177.4	177.6	179.2	169.8	335.5	336.2	336.8	294.0
Explosives and safety fuses	191.5	190.5	190.0	178.2	354.1	356.6	353.4	292.4
Compressed and liquefied gases	154.9	158.7	161.8	133.6	283.4	290.2	286.2	220.0
Ammunition, small-arms	164.6	161.3	102.6	160.9	387.2	376.3	204.2	326.2
Fireworks	245.6	210.8	175.2	290.2	734.1	568.7	441.6	778.4
Cottonseed oil	128.4	100.2	71.9	115.3	359.1	263.6	185.4	277.7
Fertilizers	121.6	121.8	114.6	117.1	319.9	335.1	304.6	280.4
PRODUCTS OF PETROLEUM AND COAL	152.8	153.4	154.1	146.8	297.9	302.4	297.2	252.7
Petroleum refining	138.7	140.0	141.5	136.2	258.7	266.4	262.2	228.2
Coke and byproducts	126.9	125.3	125.0	118.9	273.3	267.4	263.6	215.8
Paving materials	95.8	97.7	93.5	82.6	210.6	218.9	197.6	150.5
Roofing materials	164.5	163.9	162.7	157.1	378.1	369.3	363.7	303.5

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
RUBBER PRODUCTS <u>2/</u>	182.0	178.1	177.8	194.8	375.6	369.0	357.4	361.3
Rubber tires and inner tubes <u>1/</u>	211.0	207.5	214.9	234.4	398.0	397.9	396.0	397.6
Rubber boots and shoes	146.1	141.6	127.2	144.0	331.7	314.4	268.4	249.6
Rubber goods, other	162.0	157.8	153.5	167.9	352.3	338.3	321.5	335.3
MISCELLANEOUS INDUSTRIES <u>2/</u>	182.3	177.8	173.5	180.2	383.4	368.1	347.5	350.7
Instruments (professional and scientific), and fire-control equipment	247.4	245.0	243.4	252.3	478.9	469.3	460.3	448.6
Photographic apparatus	218.8	216.1	216.5	198.6	405.1	394.3	385.1	333.7
Optical instruments and ophthalmic goods	231.6	231.6	231.8	250.9	443.5	442.3	426.5	450.4
Pianos, organs, and parts	206.2	194.7	187.2	171.9	445.8	431.4	384.8	339.1
Games, toys, and dolls	221.4	214.4	202.1	176.3	519.0	482.2	431.4	378.8
Buttons	107.7	103.4	101.9	130.5	245.8	230.2	220.7	285.6
Fire extinguishers	273.2	277.6	277.3	281.8	555.4	558.9	583.7	562.3

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

- 1/ Revisions have been made as follows in the indexes for earlier months:
Textile machinery - July 1947 pay roll to 345.5.
Sheet-metal work, not elsewhere classified - June 1947 employment to 137.2; pay roll to 285.5.
Work shirts - July 1947 pay roll to 247.2.
Millinery - July 1947 pay roll to 145.5.
Rubber tires and inner tubes - July 1947 pay roll to 389.5.

- 2/ Indexes for the individual industries comprising the major industry group have been adjusted to levels indicated by final 1945 data 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

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
MINING:								
Coal:								
Anthracite	80.9	80.7	81.4	83.2	224.1	211.1	216.6	199.9
Bituminous coal	89.9	89.2	88.4	90.1	275.2	270.2	264.4	237.1
Metal	87.9	88.3	89.5	83.9	179.5	179.0	178.3	148.0
Iron	147.0	147.3	148.3	138.7	303.0	298.7	300.7	252.4
Copper	102.0	101.8	101.7	91.2	220.8	223.2	217.0	167.1
Lead and zinc	88.9	89.6	95.1	96.3	206.0	203.6	207.8	188.5
Gold and silver	30.8	31.4	31.6	28.9	51.6	52.0	51.7	43.0
Miscellaneous	55.7	56.6	57.9	59.2	101.9	102.5	104.6	99.9
Quarrying and nonmetallic	104.5	105.4	106.3	101.7	261.2	258.5	259.6	227.6
Crude petroleum production ^{1/}	94.5	95.7	97.4	93.4	169.9	175.6	173.4	150.1
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railways ^{2/}	137.6	138.1	139.8	139.3	3/	3/	3/	3/
Street railways and busses	128.8	129.6	130.7	130.3	223.2	224.1	225.2	212.6
Telephone	191.6	192.9	193.8	181.6	314.2	312.3	306.2	269.2
Telegraph	98.1	99.8	100.5	110.3	208.1	211.8	213.5	201.7
Electric light and power	109.4	109.9	110.2	102.0	182.8	183.1	182.9	155.3
TRADE: ^{4/}								
Wholesale	115.5	113.3	112.2	110.7	206.9	203.3	198.2	184.5
Retail	115.7	112.3	110.0	112.2	206.9	202.5	197.6	182.5
Food	115.0	112.6	114.7	103.7	213.8	209.3	212.2	174.6
General merchandise	131.3	122.6	115.7	132.4	224.5	219.8	212.0	204.8
Apparel	119.1	113.4	103.4	120.1	213.1	203.4	182.9	201.5
Furniture and housefurnishings	89.5	87.5	85.9	83.1	167.6	159.8	155.1	139.8
Automotive	105.6	104.8	105.1	96.6	193.8	188.5	188.5	166.0
Lumber and building materials	126.9	124.6	123.1	113.6	238.4	232.5	229.0	190.9
SERVICE:								
Hotels (year-round) ^{5/}	117.7	117.4	117.6	120.6	227.1	222.4	221.0	214.5
Power laundries	108.5	109.6	110.2	110.1	204.5	208.2	203.9	189.8
Cleaning and dyeing	120.0	118.6	117.4	126.1	221.6	220.7	208.9	225.7

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.

Table 10. - Estimated Number of Wage and Salary Workers in
Nonagricultural Establishments, by Industry Division, 1929-1946*

(in thousands)

Year	Total	Manufacturing	Mining	Construction	Transportation and public utilities	Trade	Finance	Service	Government
1929	31,041	10,534	1,078	1,497	3,907	6,401	1,431	3,127	3,066
1930	29,143	9,401	1,000	1,372	3,675	6,064	1,398	3,084	3,149
1931	26,383	8,021	864	1,214	3,243	5,531	1,333	2,913	3,264
1932	23,377	6,797	722	970	2,804	4,907	1,270	2,682	3,225
1933	23,466	7,258	735	809	2,659	4,999	1,225	2,614	3,167
1934	25,699	8,346	874	862	2,736	5,552	1,247	2,784	3,298
1935	26,792	8,907	888	912	2,771	5,692	1,262	2,883	3,477
1936	28,802	9,653	937	1,145	2,956	6,076	1,313	3,060	3,662
1937	30,718	10,606	1,006	1,112	3,114	6,543	1,355	3,233	3,749
1938	28,902	9,253	882	1,055	2,840	6,453	1,347	3,196	3,876
1939	30,287	10,078	845	1,150	2,912	6,705	1,382	3,228	3,987
1940	32,031	10,780	916	1,294	3,013	7,055	1,419	3,362	4,192
1941	36,164	12,974	947	1,790	3,248	7,567	1,462	3,554	4,622
1942	39,697	15,051	983	2,170	3,433	7,481	1,440	3,708	5,431
1943	42,042	17,381	917	1,567	3,619	7,322	1,401	3,786	6,049
1944	41,480	17,111	883	1,094	3,798	7,399	1,374	3,795	6,026
1945	39,977	15,302	826	1,082	3,672	7,654	1,383	3,891	5,967
1946	40,712	14,365	836	1,493	4,023	8,448	1,523	4,430	5,595

* Annual averages only are available for the years 1929-1939. Monthly data are available beginning with January 1939 and may be obtained upon request.

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 final 1945 benchmark data 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 1945 benchmark data. 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 non-agricultural 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 Rolls 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 Table 1). 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 by state, 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.
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 - Dept. 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.
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 governments, 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.