

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
NOVEMBER 1948**

**United States Department of Labor
Bureau of Labor Statistics**

Prepared by
Division of Employment and Occupational Outlook
Branch of Employment Statistics
Samuel Weiss, Chief

EMPLOYMENT AND PAY ROLLS

Detailed Report

November 1948

<u>TABLE</u>	<u>CONTENTS</u>	<u>PAGE</u>
1.	Estimated Number of Wage and Salary Workers in Nonagricultural Establishments, by Industry Division.....	2
2.	Estimated Number of Wage and Salary Workers in Manufacturing Industries, by Major Industry Group.....	3
3.	Estimated Number of Wage and Salary Workers in Selected Nonmanufacturing Industries, by Major Industry Group.....	4
4.	Federal Civilian Employment and Pay Rolls in All Areas and in Continental United States, and Total Civilian Government Employment and Pay Rolls in Washington, D. C.	5
5.	Personnel and Pay of the Military Branch of the Federal Government.....	6
6.	Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States, October 1948.....	7
7.	Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State, October 1948.....	8
8.	Estimated Number of Production Workers in Manufacturing Industries.....	10
9.	Estimated Number of Employees in Selected Nonmanufacturing Industries.....	16
10.	Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries.....	17
11.	Indexes of Employment and Weekly Pay Rolls in Selected Nonmanufacturing Industries.....	23
	Explanatory Notes.....	1
	Glossary.....	vi

Data for the 2 most recent months

shown are subject to revision

* * * * *

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

2.

TABLE 1: Estimated Number of Wage and Salary Workers in Nonagricultural Establishments, by Industry Division

(In thousands)

Industry division	1948			1947	
	November	October	September	November	October
TOTAL	45,741	45,890	45,889	44,918	44,758
Manufacturing	16,449	16,598	16,697	16,256	16,209
Mining	940	941	948	923	922
Contract construction	2,161	2,206	2,239	2,046	2,099
Transportation and public utilities	4,066	4,090	4,092	4,077	4,097
Trade	10,035	9,889	9,733	9,886	9,684
Finance	1,720	1,723	1,732	1,673	1,671
Service	4,656	4,654	4,647	4,670	4,662
Government	5,714	5,789	5,801	5,387	5,414

See explanatory notes, sections A - E, and the glossary for definitions.

TABLE 2: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by Major Industry Group

(In thousands)

Major industry group	1948			1947	
	November	October	September	November	October
ALL MANUFACTURING	16,449	16,598	16,697	16,256	16,209
DURABLE GOODS	8,301	8,319	8,294	8,194	8,126
Iron and steel and their products	1,952	1,955	1,945	1,908	1,896
Electrical machinery	736	731	725	772	763
Machinery, except electrical	1,560	1,569	1,569	1,569	1,565
Transportation equipment, except automobiles	588	583	572	578	552
Automobiles	978	983	985	961	964
Nonferrous metals and their products	474	473	469	479	472
Lumber and timber basic products	907	918	930	828	827
Furniture and finished lumber products	562	562	558	573	565
Stone, clay, and glass products	544	545	541	526	522
NONDURABLE GOODS	8,148	8,279	8,403	8,062	8,083
Textile-mill products and other fiber manufactures	1,367	1,371	1,384	1,391	1,368
Apparel and other finished textile products	1,335	1,353	1,348	1,277	1,287
Leather and leather products	408	421	425	442	438
Food	1,833	1,931	2,069	1,769	1,833
Tobacco manufactures	103	103	101	104	103
Paper and allied products	493	491	487	479	476
Printing, publishing, and allied industries	735	735	725	726	720
Chemicals and allied products	786	789	785	777	773
Products of petroleum and coal	248	240	245	239	237
Rubber products	250	248	246	259	257
Miscellaneous industries	590	597	588	599	591

See explanatory notes, sections A-H, and the glossary for definitions.

4.

TABLE 3: Estimated Number of Wage and Salary Workers in Selected Nonmanufacturing Industries, by Major Industry Group

(In thousands)

Major industry group	1948			1947	
	November	October	September	November	October
MINING	940	941	948	923	922
Anthracite	82	82	82	81	81
Bituminous coal	421	422	426	417	415
Metal	103	103	100	100	99
Quarrying and nonmetallic	95	96	98	96	97
Crude petroleum and natural gas production <u>1/</u>	239	238	242	229	230
TRANSPORTATION AND PUBLIC UTILITIES	4,066	4,090	4,092	4,077	4,097
Transportation	2,809	2,835	2,832	2,872	2,899
Communication	740	740	741	713	707
Other public utilities	517	515	519	492	491
GOVERNMENT	5,714	5,789	5,801	5,387	5,414
Federal	1,856	1,875	1,873	1,751	1,744
State and local	3,858	3,914	3,928	3,636	3,670

See explanatory notes, sections A - H, and the glossary for definitions.

1/ Includes well drilling and rig building.

TABLE 4: Federal Civilian Employment and Pay Rolls in All Areas and in Continental United States, and Total Civilian Government Employment and Pay Rolls in Washington, D. C. 1/

(In thousands)

Area and branch	Employment (as of first of month)				Pay rolls (total for month)			
	1948			1947	1948			1947
	November	October	September	November	November	October	September	November
<u>All Areas</u>								
TOTAL FEDERAL	2,083.6	2,076.0	2,083.6	2,006.4	\$567,723	\$544,907	\$552,535	\$451,502
Executive	2,044.2	2,036.9	2,044.0	1,966.3	557,836	534,933	542,686	442,171
Defense agencies	939.5	931.9	933.2	905.2	248,451	236,748	235,749	192,111
Post Office Department	459.7	458.4	457.0	429.8	126,889	124,095	121,908	98,666
Other agencies	645.0	646.6	653.9	631.3	182,496	174,090	185,029	151,394
Legislative	7.4	7.4	7.4	7.1	2,682	2,656	2,694	2,457
Judicial	3.5	3.5	3.5	3.5	1,419	1,454	1,453	1,192
Government corporations	28.5	28.2	28.7	29.5	5,786	5,864	5,702	5,682
<u>Continental United States</u>								
TOTAL FEDERAL	1,876.5	1,868.9	1,868.6	1,771.4	523,410	500,746	509,616	414,020
Executive	1,843.9	1,836.3	1,836.0	1,738.6	514,181	491,503	500,419	405,485
Defense agencies	770.3	762.7	756.5	706.4	213,891	201,988	202,296	162,219
Post Office Department	458.0	456.7	455.4	428.3	126,333	123,633	121,479	98,313
Other agencies	615.6	616.9	624.1	603.9	173,957	165,882	176,644	144,953
Legislative	7.4	7.4	7.4	7.1	2,682	2,656	2,694	2,457
Judicial	3.5	3.4	3.4	3.4	1,379	1,413	1,414	1,154
Government corporations	21.7	21.8	21.8	22.3	5,168	5,174	5,089	4,924
<u>Washington, D. C.</u>								
TOTAL GOVERNMENT	236.4	234.6	235.1	221.5	74,288	70,711	73,566	59,400
D. C. government	19.0	18.6	18.9	18.4	4,519	4,448	4,606	4,223
Federal	217.4	216.0	216.2	203.1	69,769	66,263	68,960	55,177
Executive	209.4	208.0	208.2	195.4	66,856	63,379	66,037	52,525
Defense agencies	71.1	70.6	70.8	64.5	22,064	20,866	22,008	16,110
Post Office Department	7.7	7.6	7.5	7.3	2,669	2,684	2,722	2,606
Other agencies	130.6	129.8	129.9	123.6	42,123	39,829	41,307	33,809
Legislative	7.4	7.4	7.4	7.1	2,682	2,656	2,694	2,457
Judicial	.6	.6	.6	.6	231	228	229	195

See the glossary for definitions.

1/ Data for Central Intelligence Agency are excluded.

6.

TABLE 5: Personnel and Pay of the Military Branch of the Federal Government 1/

(In thousands)

Designation	1948			1947	
	November	October	September	November	October
PERSONNEL (as of first of month)					
Total	1,610	1,584	1,548	1,490	1,543
By branch:					
Army	647	636	609	2/ 920	2/ 941
Air Force	410	406	401	2/ 2/	2/ 2/
Navy	446	438	432	459	491
Marine Corps	85	84	86	92	92
Coast Guard	21	21	21	19	19
By sex:					
Men	1,596	1,571	1,535	1,473	1,525
Women	14	13	13	18	18
PAY (for entire month)					
Total	\$299,746	\$294,843	\$292,040	\$309,705	\$355,961
By branch:					
Army and Air Force	191,206	183,593	184,162	186,912	214,578
Navy	89,234	91,927	88,556	102,562	119,898
Marine Corps	14,514	14,667	14,610	16,046	16,684
Coast Guard	4,792	4,657	4,713	4,184	4,802
By type of pay:					
Pay rolls	264,953	259,175	251,398	252,112	271,040
Mustering-out pay	5,692	5,818	9,292	9,117	9,954
Family allowance	28,534	28,253	28,115	23,127	25,145
Leave payments	567	1,598	3,235	25,349	49,822
Cash	166	366	620	3,982	6,430
Bonds	401	1,231	2,615	21,367	43,392

See the glossary for definitions.

1/ Because of rounding, the individual figures may not add to group totals.

2/ Separate figures for Army and Air Force not available, combined data shown under Army.

TABLE 6: Estimated Number of Wage and Salary Workers In Nonagricultural Establishments for Selected States

(In thousands)

State	1948			1947	
	October	September	August	October	September
Arizona	156	154	153	146	145
California	3,129	3,160	3,143	3,086	3,083
Connecticut	776	771	761	* 780	* 771
Georgia	750	745	742	735	738
Idaho	134	132	122	126	127
Illinois	3,228	3,218	3,195	3,166	3,142
Indiana	1,222	1,237	1,203	1,207	1,222
Maine	269	275	280	268	272
Maryland	719	720	717	681	678
Massachusetts	1,732	1,735	1,726	*1,724	1,709
Minnesota	813	825	823	789	798
Missouri	1,158	1,149	1,146	1,140	1,129
Montana	143	143	142	138	137
Nevada <u>1/</u>	48	49	50	48	49
New Jersey	1,594	1,604	1,599	1,573	1,574
New Mexico	129	129	128	118	120
New York	5,513	5,500	5,461	5,502	5,461
Pennsylvania	3,669	3,660	3,627	3,604	3,573
Rhode Island	288	288	285	293	286
Tennessee	752	756	754	704	704
Texas	1,771	1,758	1,746	1,675	1,665
Utah	188	189	178	179	184
Vermont <u>1/</u>	94	95	96	96	96
Washington	685	688	677	* 673	* 674
Wisconsin	1,003	1,018	1,007	981	998

See explanatory notes, sections H and I.

1/ Does not include contract construction.

* Other months have been revised as follows:

Connecticut - November 1947 through July 1948 to 782, 792, 770, 766, 773, 773, 768, 766, and 762.

Massachusetts - November 1947 through February 1948 to 1,739, 1,773, 1,711, and 1,706.

Washington - November 1947 through January 1948 to 667, 668, and 651.

8.

TABLE 7: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State

(In thousands)

Region and State	1948			1947	
	October	September	August	October	September
NEW ENGLAND:					
Maine 1/	113.7	117.9	120.2	116.9	119.6
New Hampshire	82.1	82.1	83.6	82.9	82.1
Vermont 1/	36.7	37.3	37.9	39.3	39.2
Massachusetts	727.9	731.3	725.6	741.6	732.5
Rhode Island	142.8	144.7	144.1	152.9	148.1
Connecticut 1/	397.0	397.1	392.1	414.8	409.2
MIDDLE ATLANTIC:					
New York	1,888.1	1,888.5	1,869.6	1,922.8	1,900.1
New Jersey	747.3	750.4	743.9	751.4	749.2
Pennsylvania	1,508.6	1,508.1	1,498.0	1,517.9	1,504.5
EAST NORTH CENTRAL:					
Ohio	1,225.4	1,230.6	1,224.5	1,244.7	1,243.8
Indiana	551.6	569.4	542.7	561.0	580.0
Illinois	1,243.3	1,243.8	1,231.0	1,257.0	1,249.0
Michigan	1,002.0	1,004.9	987.8	1,021.8	1,023.3
Wisconsin 1/	431.8	445.9	434.5	433.3	452.0
WEST NORTH CENTRAL:					
Minnesota 1/	201.9	210.2	210.0	200.2	210.6
Iowa 1/	153.8	153.9	153.0	151.3	152.3
Missouri 1/	349.8	347.3	349.1	351.9	348.7
North Dakota	7.0	6.8	6.9	6.7	6.7
South Dakota	11.9	11.6	11.7	11.4	11.3
Nebraska	43.6	42.4	43.1	45.1	43.1
Kansas	85.3	84.7	84.5	79.8	79.4
SOUTH ATLANTIC:					
Delaware	46.3	48.9	48.2	* 45.8	48.2
Maryland	235.3	242.4	239.2	229.3	232.4
District of Columbia	16.9	17.0	16.7	17.5	17.5
Virginia	218.4	217.7	214.5	*217.0	214.5
West Virginia	134.1	132.9	133.7	133.4	132.8
North Carolina	370.8	375.4	378.9	374.1	368.1
South Carolina	193.8	194.3	196.9	194.8	192.3
Georgia 1/	280.0	280.1	280.7	280.3	281.6
Florida 1/	90.7	89.9	88.2	90.4	88.6

TABLE 7: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State - Continued

(In thousands)

Region and State	1948			1947	
	October	September	August	October	September
EAST SOUTH CENTRAL:					
Kentucky	129.2	128.1	127.4	130.3	128.2
Tennessee 1/	256.3	256.3	258.9	254.1	252.6
Alabama 1/	229.1	227.1	228.3	227.9	225.4
Mississippi	87.2	87.4	90.6	94.1	95.0
WEST SOUTH CENTRAL:					
Arkansas 1/	80.2	79.5	77.6	76.7	81.2
Louisiana 1/	153.9	155.9	155.9	149.2	149.5
Oklahoma 1/	67.8	67.2	66.9	64.3	64.1
Texas	352.4	351.4	353.6	339.8	337.9
MOUNTAIN:					
Montana	18.8	18.1	18.0	19.1	18.1
Idaho 1/	26.0	24.8	20.1	22.4	22.6
Wyoming	7.4	6.8	6.8	7.1	6.8
Colorado	60.2	58.3	56.9	60.6	57.9
New Mexico 1/	10.1	10.4	10.5	8.8	9.1
Arizona 1/	15.2	14.0	15.2	14.0	13.8
Utah	31.6	31.1	27.4	29.4	30.1
Nevada 1/	3.4	3.5	3.6	3.5	3.4
PACIFIC:					
Washington	191.6	190.5	183.1	183.9	186.7
Oregon	118.7	121.5	121.2	117.2	122.2
California	767.6	801.7	771.6	736.4	744.8

See explanatory notes, sections H and I.

1/ Series based on Standard Industrial Classification.

*/ Other months have been revised as follows:

Delaware - November 1947 to 45.8.Virginia - November and December 1947 to 217.3 and 215.1.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1948			1947	
	November	October	September	November	October
ALL MANUFACTURING	13,234	13,378	13,488	13,176	13,143
DURABLE GOODS	6,809	6,824	6,803	6,746	6,681
NONDURABLE GOODS	6,425	6,554	6,685	6,430	6,462
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS ^{1/}	1,654	1,657	1,648	1,619	1,609
Blast furnaces, steel works, and rolling mills	538.2	535.0	535.1	505.6	505.1
Gray-iron and semisteel castings	115.2	115.6	114.9	118.9	118.9
Malleable-iron castings	38.6	38.5	38.6	36.7	36.1
Steel castings	75.1	75.0	74.7	69.9	69.6
Cast-iron pipe and fittings	29.9	29.3	29.4	28.3	28.1
Tin cans and other tinware	47.0	48.7	50.1	47.1	47.0
Wire drawn from purchased rods	28.7	29.1	28.6	31.2	31.0
Wirework	42.1	42.1	42.8	40.5	40.6
Cutlery and edge tools	25.0	24.3	23.9	24.8	24.5
Tools (except edge tools, machine tools, files, and saws)	24.5	24.6	24.7	25.4	25.0
Hardware	54.2	53.9	53.5	53.8	52.9
Plumbers' supplies	42.6	42.4	41.3	39.6	38.7
Stoves, oil burners, and heating equipment, not elsewhere classified	87.6	93.3	92.0	96.2	95.7
Steam and hot-water heating apparatus and steam fittings	66.1	66.6	65.3	65.0	64.9
Stamped and enameled ware and galvanizing	117.6	116.5	114.3	122.5	121.2
Fabricated structural and ornamental metalwork	65.8	66.3	65.0	63.6	62.9
Metal doors, sash, frames, molding, and trim	11.3	11.2	11.0	10.7	10.5
Bolts, nuts, washers, and rivets	28.4	28.3	28.1	28.4	27.8
Forgings, iron and steel	38.2	37.4	36.9	36.8	36.7
Wrought pipe, welded and heavy-riveted	19.7	19.9	19.8	18.9	18.4
Screw-machine products and wood screws	35.5	35.5	35.0	35.5	35.4
Steel barrels, kegs, and drums	7.7	7.9	8.0	8.0	8.0
Firearms	22.4	22.1	21.7	19.3	19.0
ELECTRICAL MACHINERY ^{1/}	557	553	548	595	588
Electrical equipment	367.9	367.1	368.6	391.4	388.0
Radios and phonographs	95.9	93.1	89.7	106.3	104.3
Communication equipment	93.5	92.4	89.7	97.5	95.6

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1948			1947	
	November	October	September	November	October
MACHINERY, EXCEPT ELECTRICAL <u>1/</u>	1,204	1,209	1,208	1,218	1,214
Machinery and machine-shop products	505.6	506.7	509.0	515.1	516.6
Engines and turbines	52.5	52.1	50.5	53.0	53.3
Tractors	60.9	59.8	59.2	58.6	58.0
Agricultural machinery, excluding tractors	76.2	75.9	72.8	68.0	67.5
Machine tools	47.5	47.6	48.0	51.1	52.1
Machine-tool accessories	54.5	54.7	55.3	55.8	55.6
Textile machinery	41.4	41.6	41.8	39.8	39.3
Pumps and pumping equipment	69.1	68.9	69.1	74.3	74.2
Typewriters	18.9	20.6	21.0	25.2	24.8
Cash registers; adding, and calculating machines	44.1	44.2	44.9	44.1	43.0
Washing machines, wringers, and driers, domestic	15.5	15.7	15.7	15.8	15.3
Sewing machines, domestic and industrial	14.9	14.8	14.6	13.0	12.6
Refrigerators and refrigeration equipment	79.5	81.0	81.7	80.1	79.7
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	453	449	439	452	427
Locomotives	26.5	26.6	26.5	26.0	25.9
Cars, electric- and steam-railroad	56.1	54.5	54.5	56.8	55.2
Aircraft and parts, excluding aircraft engines	149.8	145.3	138.5	133.4	133.9
Aircraft engines	28.0	27.5	26.7	25.9	26.2
Shipbuilding and boatbuilding	94.5	97.3	97.5	117.6	100.2
Motorcycles, bicycles, and parts	13.6	13.8	13.3	14.4	14.1
AUTOMOBILES	779	784	788	766	764
NONFERROUS METALS AND THEIR PRODUCTS <u>1/</u>	404	403	399	410	404
Smelting and refining, primary, of nonferrous metals	41.4	41.2	40.2	39.7	39.7
Alloying; and rolling and drawing of nonferrous metals, except aluminum	54.5	54.6	54.3	52.9	53.0
Clocks and watches	28.2	28.8	28.6	28.4	28.1
Jewelry (precious metals) and jewelers' findings	27.5	27.5	27.1	28.1	27.5
Silverware and plated ware	28.3	28.1	27.7	26.5	26.1
Lighting equipment	31.8	31.9	32.2	34.3	34.9
Aluminum manufactures	40.8	40.2	38.5	43.6	43.1
Sheet-metal work, not elsewhere classified	37.1	37.3	37.0	40.6	40.1

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd.

(In thousands)

Industry group and industry	1948			1947	
	November	October	September	November	October
LUMBER AND TIMBER BASIC PRODUCTS 1/	821	831	843	751	751
Sawmills and logging camps	667.2	678.2	691.4	612.8	616.3
Planing and plywood mills	154.1	152.8	152.1	137.7	134.5
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	470	470	466	483	475
Mattresses and bedsprings	35.7	37.1	36.8	33.2	37.2
Furniture	256.5	255.6	252.5	259.3	253.8
Wooden boxes, other than cigar	35.4	35.0	34.4	37.6	38.3
Caskets and other morticians' goods	19.5	19.2	19.5	20.9	20.7
Wood preserving	17.0	17.1	17.3	18.6	19.0
Wood, turned and shaped	33.9	34.5	34.3	34.5	33.6
STONE, CLAY, AND GLASS PRODUCTS 1/	467	468	464	452	449
Glass and glassware	121.8	123.2	122.9	123.4	122.7
Glass products made from purchased glass	34.7	34.4	33.9	34.6	34.3
Cement	37.2	36.9	36.2	35.5	35.4
Brick, tile, and terra cotta	83.5	83.5	83.6	77.2	76.8
Pottery and related products	61.5	61.0	60.3	58.3	57.0
Gypsum	7.8	7.9	7.8	7.6	7.4
Wallboard, plaster (except gypsum), and mineral wool	14.9	14.8	14.7	14.6	14.3
Lime	10.7	10.7	10.8	10.3	10.6
Marble, granite, slate, and other products	19.0	19.0	18.9	18.5	18.4
Abrasives	20.5	20.6	20.5	19.1	19.3
Asbestos products	25.6	25.7	24.9	24.7	24.9
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	1,245	1,249	1,261	1,271	1,249
Cotton manufactures, except smallwares	508.9	511.4	516.9	516.9	508.2
Cotton smallwares	13.3	13.4	13.4	13.9	13.7
Silk and rayon goods	122.0	122.4	122.1	114.8	113.4
Woolen and worsted manufactures, except dyeing and finishing	158.2	159.6	165.8	174.2	170.9
Hosiery	142.3	141.7	141.7	146.3	143.1
Knitted cloth	11.5	11.3	11.1	11.5	11.2
Knitted outerwear and knitted gloves	33.9	32.8	31.8	33.7	33.0
Knitted underwear	46.0	47.9	49.1	51.4	50.4
Dyeing and finishing textiles, including woolen and worsted	91.9	91.5	91.1	92.2	91.4
Carpets and rugs, wool	40.7	40.8	40.7	36.9	36.1
Hats, fur-felt	12.0	11.5	12.5	13.6	13.6
Jute goods, except felts	4.3	4.1	4.0	3.0	3.0
Cordage and twine	15.1	14.9	15.3	16.1	15.4

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd.

(In thousands)

Industry group and industry	1948			1947	
	November	October	September	November	October
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	1,159	1,175	1,173	1,117	1,127
Men's clothing, not elsewhere classified	308.0	319.2	320.4	309.2	306.9
Shirts, collars, and nightwear	77.7	78.1	77.4	81.1	79.3
Underwear and neckwear, men's	19.4	18.8	18.1	18.1	17.3
Work shirts	18.8	18.9	18.2	15.5	15.8
Women's clothing, not elsewhere classified	488.3	488.8	490.3	452.1	462.3
Corsets and allied garments	19.4	19.3	19.0	19.4	18.8
Millinery	22.2	25.7	24.8	21.6	25.2
Handkerchiefs	5.5	5.3	5.0	5.2	5.1
Curtains, draperies, and bedspreads	27.1	27.4	27.9	32.1	30.9
Housefurnishings, other than curtains, etc.	33.0	32.1	31.4	30.0	31.6
Textile bags	29.9	29.7	29.2	28.4	28.1
LEATHER AND LEATHER PRODUCTS 1/	363	376	379	396	393
Leather	46.4	47.7	48.0	50.2	50.2
Boot and shoe cut stock and findings	17.0	17.6	17.9	19.8	19.6
Boots and shoes	229.5	238.5	241.0	251.1	248.8
Leather gloves and mittens	12.3	12.8	13.0	13.2	13.1
Trunks and suitcases	14.2	14.6	14.3	14.8	14.4
FOOD 1/	1,306	1,400	1,537	1,288	1,353
Slaughtering and meat packing	205.3	197.7	195.2	203.9	194.2
Butter	34.6	35.5	36.6	33.9	34.8
Condensed and evaporated milk	19.5	20.3	21.1	19.5	20.5
Ice cream	24.3	26.2	29.6	26.3	27.8
Flour	41.7	40.1	41.5	42.1	42.0
Feeds, prepared	28.9	29.2	29.3	28.5	28.9
Cereal preparations	13.1	13.2	13.2	12.8	12.8
Baking	255.7	258.0	253.2	246.1	245.4
Sugar refining, cane	22.5	22.4	25.0	24.8	24.3
Sugar, beet	24.5	24.3	10.6	27.4	27.6
Confectionery 2/	89.7	88.9	81.1	87.0	83.5
Beverages, nonalcoholic	40.4	43.0	46.6	38.2	39.7
Malt liquors	80.7	81.3	86.0	80.6	81.8
Canning and preserving	196.9	291.7	444.4	190.1	265.2
TOBACCO MANUFACTURES 1/	90	90	88	90	89
Cigarettes	35.1	35.1	34.9	34.0	33.4
Cigars	47.2	46.5	44.9	47.8	47.0
Tobacco (chewing and smoking) and snuff	7.8	7.9	7.8	8.2	8.2

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd.

(In thousands)

Industry group and industry	1948			1947	
	November	October	September	November	October
PAPER AND ALLIED PRODUCTS 1/	403	401	398	394	392
Paper and pulp	206.6	206.0	206.7	200.7	200.2
Paper goods, other	63.6	63.5	62.7	63.3	63.0
Envelopes	13.0	12.8	12.6	12.4	12.2
Paper bags	17.0	17.3	17.8	17.9	17.9
Paper boxes	101.5	99.8	97.0	99.0	98.1
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES 1/	442	442	436	444	441
Newspapers and periodicals	151.0	150.7	149.4	145.1	144.6
Printing; book and job	187.8	188.8	185.4	190.6	189.3
Lithographing	31.4	31.4	31.1	33.0	32.6
Bookbinding	35.1	34.9	34.4	38.7	38.5
CHEMICALS AND ALLIED PRODUCTS 1/	597	600	597	589	586
Paints, varnishes, and colors	48.1	48.7	48.6	48.0	47.6
Drugs, medicines, and insecticides	64.8	64.4	64.2	66.4	67.1
Perfumes and cosmetics	12.9	12.8	12.5	13.9	13.5
Soap	26.5	27.2	27.0	25.8	25.3
Rayon and allied products	63.9	63.9	63.7	63.1	62.9
Chemicals, not elsewhere classified	209.6	210.0	210.9	205.5	204.3
Explosives and safety fuses	27.4	27.7	27.6	24.8	24.1
Compressed and liquefied gases	9.5	9.9	9.8	9.7	9.7
Ammunition, small-arms	7.4	7.4	7.5	7.2	7.2
Fireworks	2.6	2.6	2.8	2.9	2.9
Cottonseed oil	26.5	26.6	23.4	24.5	24.0
Fertilizers	28.7	28.8	28.7	29.2	29.3
PRODUCTS OF PETROLEUM AND COAL 1/	168	163	168	165	165
Petroleum refining	115.0	108.4	114.0	112.3	112.4
Coke and byproducts	32.2	32.1	32.4	30.0	29.6
Paving materials	2.8	2.9	2.9	3.4	3.4
Roofing materials	17.2	18.1	18.0	18.5	18.4

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd.

(In thousands)

Industry group and industry	1948			1947	
	November	October	September	November	October
RUBBER PRODUCTS <u>1/</u>	199	198	197	210	208
Rubber tires and inner tubes	91.2	90.0	91.4	102.4	102.0
Rubber boots and shoes	23.2	22.9	22.5	22.0	21.7
Rubber goods, other	84.5	84.7	82.9	86.1	84.0
MISCELLANEOUS INDUSTRIES <u>1/</u>	453	460	451	466	459
Instruments (professional and scientific), and fire-control equipment	30.0	29.5	29.0	27.8	28.0
Photographic apparatus	39.7	39.7	39.7	38.8	38.7
Optical instruments and ophthalmic goods <u>2/</u>	26.1	26.4	26.1	27.6	27.5
Pianos, organs, and parts	13.5	13.9	13.5	17.8	17.4
Games, toys, and dolls	47.1	50.0	48.1	43.4	42.3
Buttons	13.1	13.1	13.0	12.7	12.1
Fire extinguishers	2.9	2.9	2.8	2.7	2.8

See explanatory notes, sections C, D, and G, and the glossary for definitions.

1/ Estimates for the individual industries comprising the major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

More recently adjusted data for the individual industries comprising the major industry groups listed below supersede data shown in publications dated prior to:

Major industry group	: Mimeographed release :-	Monthly Labor Review
Iron and steel and their products	December 1948	January 1949
Stone, clay, and glass products	December 1948	January 1949

2/ Data for earlier months in 1948 have been revised as follows:
Confectionery - June through August to 64.5, 63.0, and 71.6.
Optical instruments and ophthalmic goods - August to 26.0.

TABLE 9: Estimated Number of Employees in Selected Nonmanufacturing Industries 1/

(In thousands)

Industry group and industry	1948			1947	
	November	October	September	November	October
MINING: <u>2/</u>					
Coal					
Anthracite	77.0	76.6	77.5	76.2	76.2
Bituminous coal	403	404	408	399	397
Metal	88.0	92.0	89.4	89.4	88.7
Iron	32.1	32.8	33.4	32.0	32.4
Copper	23.1	27.0	26.9	26.1	25.8
Lead and zinc	16.6	16.2	13.0	15.4	14.9
Gold and silver	8.2	8.1	8.2	8.1	8.0
Miscellaneous	7.9	7.9	7.9	7.8	7.6
Quarrying and nonmetallic	85.3	86.6	87.8	86.4	87.3
Crude petroleum and natural gas production <u>3/</u>	130.4	129.9	133.2	126.4	127.1
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railroads <u>4/</u>	1,329	1,345	1,350	1,340	1,357
Street railways and busses <u>5/</u>	245	246	248	249	249
Telephone	642	642	643	614	609
Telegraph <u>6/</u>	34.2	34.5	34.7	36.6	36.9
Electric light and power	282	281	284	268	267
SERVICE:					
Hotels (year-round)	371	375	373	378	380
Power laundries <u>2/</u>	225	229	232	238	241
Cleaning and dyeing <u>2/</u>	87.5	89.4	88.7	92.7	95.6

See explanatory notes, sections C, D, and G, and the glossary for definitions.

1/ Unless otherwise noted, data include all employees.2/ Includes production and related workers only.3/ Does not include well drilling or rig building.4/ Includes all employees at middle of month. Excludes employees of switching and terminal companies. Class I steam railroads include those with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.5/ Includes private and municipal street-railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.6/ Includes all land-line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries
(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
ALL MANUFACTURING	161.5	163.3	164.6	160.8	378.1	382.1	382.2	353.4
DURABLE GOODS	188.6	189.0	188.4	186.8	428.3	434.1	423.7	395.0
NONDURABLE GOODS	140.3	143.1	145.9	140.4	329.1	331.2	341.6	312.8
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	166.8	167.1	166.2	163.3	373.6	376.0	365.0	335.1
Blast furnaces, steel works, and rolling mills	138.5	137.7	137.7	130.2	304.7	305.0	300.3	255.1
Gray-iron and semisteel castings	185.1	185.8	184.7	191.2	429.2	437.9	433.3	419.9
Malleable-iron castings	200.8	200.3	200.8	191.1	505.7	512.2	493.1	459.6
Steel castings	234.2	234.1	233.1	218.0	528.0	523.2	504.4	451.7
Cast-iron pipe and fittings	169.9	166.3	167.0	160.6	470.9	445.7	437.1	381.4
Tin cans and other tinware	148.0	153.2	157.7	148.3	334.7	351.6	391.7	320.7
Wire drawn from purchased rods	130.5	132.3	130.3	141.8	269.7	274.1	263.8	270.1
Wirework	138.4	138.4	140.8	133.2	331.6	333.2	322.5	297.4
Cutlery and edge tools	162.1	157.7	154.9	161.0	405.8	392.1	374.9	384.1
Tools (except edge tools, machine tools, files, and saws)	160.3	160.8	161.6	166.1	373.8	376.3	366.3	363.0
Hardware	152.1	151.2	150.0	150.8	363.9	359.7	349.2	345.7
Plumbers' supplies	162.4	161.7	157.2	150.9	376.9	381.9	338.7	324.1
Stoves, oil burners, and heating equipment, not elsewhere classified	178.3	189.8	187.2	195.8	400.0	448.4	426.7	425.4
Steam and hot-water heating apparatus and steam fittings	204.7	206.4	202.3	201.2	466.4	476.4	447.6	441.1
Stamped and enameled ware and galvanizing	198.8	196.9	193.1	207.0	491.9	482.6	453.7	477.1
Fabricated structural and ornamental metalwork	185.3	186.7	183.0	179.0	406.2	409.4	371.9	368.6
Metal doors, sash, frames, molding, and trim	145.7	144.1	142.1	138.3	342.7	340.1	340.4	298.1
Bolts, nuts, washers, and rivets	186.3	185.6	184.6	186.5	433.6	428.0	415.5	391.5
Forgings, iron and steel	233.2	228.1	225.1	225.0	544.8	533.6	513.4	484.8
Wrought pipe, welded and heavy-riveted	220.7	223.6	222.2	212.5	515.8	505.1	487.1	443.1
Screw-machine products and wood screws	196.8	196.8	194.3	196.8	445.2	453.0	433.1	421.7
Steel barrels, kegs, and drums	119.5	121.5	124.2	123.5	324.3	326.4	306.9	308.6
Firearms	421.3	414.9	406.4	361.6	1018.0	998.7	963.1	796.1
ELECTRICAL MACHINERY <u>1/</u>	215.1	213.4	211.5	229.7	479.2	474.4	465.4	471.9
Electrical equipment	201.4	201.0	201.8	214.3	447.8	445.4	442.2	436.3
Radios and phonographs	218.1	211.7	203.8	241.7	539.7	509.1	489.4	539.6
Communication equipment	288.0	284.7	276.2	300.3	587.6	591.6	567.3	597.8

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
MACHINERY, EXCEPT ELECTRICAL 1/	227.9	228.7	228.7	230.5	486.9	491.7	484.0	459.6
Machinery and machine-shop products	243.5	244.0	245.1	248.1	527.3	531.5	523.2	498.8
Engines and turbines	281.2	279.1	270.8	283.9	620.1	622.1	581.9	601.9
Tractors	194.6	191.2	189.4	187.5	358.4	364.1	360.5	336.9
Agricultural machinery, excluding tractors	267.1	266.1	255.2	238.4	592.4	597.9	577.1	482.5
Machine tools	129.7	130.0	131.2	139.5	248.1	250.3	248.3	253.3
Machine-tool accessories	211.1	211.9	214.0	216.2	387.1	391.8	391.0	380.2
Textile machinery	188.9	189.7	190.7	181.9	450.4	457.5	458.9	396.3
Pumps and pumping equipment	277.6	276.8	278.0	298.9	625.5	620.1	615.0	624.6
Typewriters	115.6	126.8	129.8	155.5	271.1	255.0	286.8	358.2
Cash registers; adding, and calculating machines	224.1	224.8	228.1	224.1	487.9	481.3	492.3	463.5
Washing machines, wringers, and driers, domestic	207.3	210.6	210.3	211.2	470.0	484.2	460.6	449.7
Sewing machines, domestic and industrial	189.8	188.6	186.4	165.7	501.9	491.6	478.8	382.1
Refrigerators and refrigeration equipment	226.0	230.4	232.3	227.7	486.2	508.7	493.3	434.3
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	285.7	282.9	276.3	264.6	611.8	613.3	581.8	555.1
Locomotives	409.6	410.7	409.0	402.0	942.5	909.4	948.4	863.1
Cars, electric- and steam-railroad	228.9	222.1	222.2	231.4	533.9	526.6	477.3	503.5
Aircraft and parts, excluding aircraft engines	377.4	366.2	349.2	336.2	830.7	794.9	746.1	653.8
Aircraft engines	315.0	309.0	300.1	291.0	601.3	599.7	570.0	479.2
Shipbuilding and boatbuilding	136.5	140.5	140.8	169.9	262.4	291.2	283.1	316.6
Motorcycles, bicycles, and parts	194.6	197.4	190.3	207.0	468.2	474.3	424.5	441.3
AUTOMOBILES	193.6	194.9	195.9	190.4	425.5	439.9	425.9	395.6
NONFERROUS METALS AND THEIR PRODUCTS 1/	176.1	176.0	173.9	178.8	391.1	394.2	386.3	367.3
Smelting and refining, primary, of nonferrous metals	150.0	149.1	145.5	143.7	340.0	344.6	342.4	300.3
Alloying; and rolling and drawing of nonferrous metals, except aluminum	140.4	140.7	140.0	136.3	298.2	308.0	307.0	263.7
Clocks and watches	139.0	141.9	141.1	139.9	348.1	353.0	348.6	330.5
Jewelry (precious metals) and jewelers' findings	190.3	190.6	187.7	194.6	407.3	397.0	383.8	403.6
Silverware and plated ware	233.5	231.5	228.5	218.8	572.0	565.0	555.4	507.4
Lighting equipment	155.2	155.6	157.3	167.3	343.1	340.0	345.6	333.9
Aluminum manufactures	173.1	170.6	163.5	185.4	355.7	352.5	325.8	351.7
Sheet-metal work, not elsewhere classified	197.6	199.0	197.2	216.8	450.6	467.4	443.9	454.0

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
LUMBER AND TIMBER BASIC PRODUCTS <u>1/</u>	195.4	197.7	200.6	178.5	499.7	519.2	523.3	429.1
Sawmills and logging camps	212.7	216.2	220.4	195.4	549.7	575.3	584.4	476.2
Planing and plywood mills	194.9	193.2	192.3	174.1	486.4	491.9	478.6	400.9
FURNITURE AND FINISHED LUMBER PRODUCTS <u>1/</u>	143.1	143.3	142.0	147.1	349.2	354.9	344.5	343.0
Mattresses and bedsprings	173.9	180.9	179.5	186.2	371.2	414.3	411.5	396.6
Furniture	144.2	143.6	141.9	145.7	356.7	358.1	344.2	344.0
Wooden boxes, other than cigar	125.1	123.6	121.5	132.7	316.3	322.7	315.7	321.4
Caskets and other morticians' goods	140.1	138.4	140.1	150.6	287.8	284.9	289.7	305.8
Wood preserving	135.5	136.0	137.9	147.8	378.3	383.3	379.3	375.8
Wood, turned and shaped	138.0	140.4	139.7	140.6	328.3	338.7	323.8	309.5
STONE, CLAY, AND GLASS PRODUCTS <u>1/</u>	158.9	159.4	158.2	154.0	366.9	372.1	361.2	331.2
Glass and glassware	170.6	172.6	172.3	172.9	384.0	395.3	383.2	367.0
Glass products made from purchased glass	147.3	143.8	139.1	145.6	344.6	329.0	310.9	312.0
Cement	153.0	151.5	148.5	145.6	315.2	316.1	310.4	283.5
Brick, tile, and terra cotta	143.9	143.9	144.0	133.1	356.5	362.4	353.5	302.3
Pottery and related products	181.7	180.4	178.3	172.2	407.5	399.8	374.0	356.5
Gypsum	157.6	160.7	158.5	153.4	387.7	397.1	386.5	329.5
Wallboard, plaster (except gypsum), and mineral wool	183.6	182.6	181.7	180.2	495.7	493.8	491.8	444.1
Lime	112.6	113.4	114.1	114.5	322.3	326.9	323.8	299.1
Marble, granite, slate, and other products	102.6	102.9	102.1	100.1	190.9	196.8	194.2	175.9
Abrasives	264.6	265.7	264.6	247.4	583.3	594.6	588.5	484.3
Asbestos products	161.0	161.7	157.0	155.3	398.4	414.5	402.7	363.2
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES <u>1/</u>	108.9	109.2	110.3	111.1	291.9	291.2	295.5	288.2
Cotton manufactures, except smallwares	121.6	122.2	123.6	123.6	348.9	350.0	354.9	362.1
Cotton smallwares	94.2	95.1	95.4	98.6	222.1	222.5	228.7	215.1
Silk and rayon goods	96.4	96.7	96.5	90.7	299.1	299.4	301.3	254.1
Woolen and worsted manufactures, except dyeing and finishing	100.3	101.2	105.2	110.5	267.5	265.7	286.1	276.6
Hosiery	84.7	84.4	84.3	87.1	210.3	208.8	201.1	200.2
Knitted cloth	99.3	98.0	95.9	99.4	232.9	228.7	219.7	221.7
Knitted outerwear and knitted gloves	114.2	110.2	107.1	113.3	272.7	249.8	250.5	261.0
Knitted underwear	113.0	117.7	120.6	126.2	271.5	291.2	297.3	317.3
Dyeing and finishing textiles, including woolen and worsted	130.1	129.5	129.0	130.5	316.8	311.6	310.7	300.5
Carpets and rugs, wool	150.7	150.9	150.6	136.5	393.5	393.2	387.5	319.6
Hats, fur-felt	78.4	74.6	81.4	88.5	163.1	162.9	180.9	181.9
Jute goods, except felts	114.3	107.1	104.5	79.4	285.9	266.8	248.4	170.1
Cordage and twine	117.8	116.8	119.5	125.7	291.5	284.7	283.7	300.6

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	146.9	148.8	148.6	141.5	335.4	325.0	348.1	304.8
Men's clothing, not elsewhere classified	134.1	139.0	139.5	134.7	300.1	302.4	324.7	301.5
Shirts, collars, and nightwear	105.1	105.6	104.7	109.7	258.8	256.0	254.0	266.0
Underwear and neckwear, men's	114.5	111.0	107.0	106.5	336.4	310.6	301.3	292.9
Work shirts	133.2	133.5	129.1	109.4	339.5	352.4	341.4	253.1
Women's clothing, not elsewhere classified	170.6	170.8	171.3	158.0	379.8	351.0	390.2	319.3
Corsets and allied garments	103.6	103.0	101.5	103.3	239.1	233.1	225.3	226.8
Millinery	86.9	100.8	97.0	84.7	138.1	192.8	201.5	123.6
Handkerchiefs	108.2	104.4	98.8	102.2	303.2	289.3	259.4	260.4
Curtains, draperies, and bedspreads	152.8	154.0	157.3	180.9	345.2	346.5	356.5	422.2
Housefurnishings, other than curtains, etc.	295.5	287.6	281.0	268.7	725.2	696.8	634.9	590.1
Textile bags	236.8	235.2	231.7	225.3	550.2	555.0	549.5	484.8
LEATHER AND LEATHER PRODUCTS 1/	104.5	108.3	109.3	114.1	223.3	236.8	245.1	252.5
Leather	92.8	95.4	96.0	100.3	202.0	206.3	206.5	213.8
Boot and shoe cut stock and findings	85.1	88.1	89.8	99.0	166.5	175.3	185.2	190.3
Boots and shoes	99.4	103.3	104.4	108.7	211.3	227.6	238.7	246.7
Leather gloves and mittens	123.5	128.2	129.9	131.8	256.5	266.8	274.5	264.1
Trunks and suitcases	170.5	174.8	171.8	177.9	406.4	397.3	393.3	406.0
FOOD 1/	152.9	163.8	179.9	150.7	340.7	358.2	389.8	323.5
Slaughtering and meat packing	152.0	146.4	144.5	151.0	336.2	305.4	303.5	337.6
Butter	172.1	176.2	181.7	168.2	379.0	384.7	397.8	346.0
Condensed and evaporated milk	179.6	186.3	194.3	179.7	424.4	435.6	473.7	377.8
Ice cream	137.8	148.6	167.9	149.1	273.9	291.2	333.5	269.9
Flour	150.2	144.5	149.4	151.6	351.9	355.2	360.7	357.0
Feeds, prepared	167.3	169.1	170.0	165.3	405.9	405.8	415.4	346.9
Cereal preparations	156.8	158.0	157.6	153.7	342.3	341.6	326.0	313.7
Baking	134.3	135.5	133.0	129.3	280.8	286.6	282.6	249.4
Sugar refining, cane	141.5	141.0	157.4	156.5	282.2	286.4	348.2	360.8
Sugar, beet	211.0	209.2	91.0	235.9	496.5	433.3	207.7	540.7
Confectionery 2/	161.1	159.5	145.6	156.1	387.9	376.4	345.7	355.6
Beverages, nonalcoholic	169.7	180.5	195.4	160.2	287.1	298.6	340.9	267.3
Malt liquors	199.5	200.9	212.6	199.3	377.4	371.8	417.2	359.3
Canning and preserving	131.0	194.1	295.7	126.5	317.9	544.3	835.0	293.7
TOBACCO MANUFACTURES 1/	96.5	95.9	93.9	96.5	223.5	224.3	214.8	216.3
Cigarettes	127.9	128.2	127.3	124.0	264.4	279.0	268.1	253.3
Cigars	84.5	83.2	80.5	85.5	207.4	197.2	187.4	201.7
Tobacco (chewing and smoking) and snuff	77.2	78.6	77.7	81.3	173.1	180.7	176.1	169.0

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948		1947		1948		1947	
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
PAPER AND ALLIED PRODUCTS 1/	151.7	151.0	149.8	148.6	362.2	357.4	355.0	325.9
Paper and pulp	150.0	149.5	150.0	145.7	364.7	359.1	362.9	325.0
Paper goods, other	168.6	168.4	166.1	167.9	392.8	381.2	372.3	352.7
Envelopes	149.5	146.9	145.2	142.5	315.6	305.3	298.3	281.5
Paper bags	152.8	160.1	159.9	161.3	362.4	391.4	390.2	347.4
Paper boxes	146.3	144.0	139.9	142.7	344.5	342.1	328.0	314.5
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES 1/	134.7	134.8	133.0	135.4	275.4	273.6	273.6	257.2
Newspapers and periodicals	127.2	127.0	125.9	122.2	253.3	252.2	253.6	224.0
Printing; book and job	147.1	147.9	145.3	149.3	307.9	305.4	304.8	292.5
Lithographing	119.7	119.7	118.5	125.8	234.5	235.5	233.1	236.1
Bookbinding	136.0	135.3	133.7	150.3	315.1	309.7	307.8	325.1
CHEMICALS AND ALLIED PRODUCTS 1/	207.1	208.1	207.1	204.5	460.2	460.1	462.5	416.4
Paints, varnishes, and colors	170.2	172.1	172.0	169.9	329.9	338.4	339.3	313.1
Drugs, medicines, and insecticides	235.4	234.1	233.2	241.3	512.4	506.9	491.1	489.9
Perfumes and cosmetics	124.1	122.7	119.7	133.1	261.9	252.2	243.0	265.3
Soap	173.9	178.4	177.2	168.9	405.3	412.2	400.7	371.0
Rayon and allied products	132.3	132.3	131.8	130.5	300.1	296.7	297.5	260.5
Chemicals, not elsewhere classified	299.9	300.3	301.6	294.0	634.0	628.6	641.6	566.0
Explosives and safety fuses	375.4	379.3	379.2	339.7	749.1	763.8	796.0	645.6
Compressed and liquefied gases	239.2	247.9	247.0	244.9	491.0	488.5	513.9	458.0
Ammunition, small-arms	171.5	173.7	174.2	168.7	403.7	409.4	411.2	398.0
Fireworks	220.6	227.4	243.3	249.0	544.2	552.7	621.0	711.6
Cottonseed oil	173.5	174.6	153.3	160.5	537.6	541.9	459.3	448.7
Fertilizers	152.4	152.9	152.3	155.1	415.3	430.8	436.1	397.2
PRODUCTS OF PETROLEUM AND COAL 1/	158.9	153.6	159.1	156.1	352.7	344.1	345.6	309.5
Petroleum refining	157.0	148.1	155.7	153.4	341.0	323.6	326.1	295.9
Coke and byproducts	148.2	147.8	149.2	138.2	346.7	349.5	353.2	292.7
Paving materials	113.6	117.2	118.0	138.1	253.3	276.3	279.1	268.8
Roofing materials	212.8	223.3	222.7	228.0	517.5	577.7	558.3	526.4

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
RUBBER PRODUCTS <u>1/</u>	164.5	163.5	162.8	174.0	341.9	345.5	344.9	361.4
Rubber tires and inner tubes	168.2	165.9	168.6	188.7	312.9	318.2	326.2	362.4
Rubber boots and shoes	156.2	154.0	151.2	147.9	377.2	369.0	355.9	322.4
Rubber goods, other	162.9	163.4	159.9	166.0	378.7	383.0	370.8	362.2
MISCELLANEOUS INDUSTRIES <u>1/</u>	184.9	187.8	184.2	190.4	420.8	422.6	411.8	403.9
Instruments (professional and scientific), and fire-control equipment	265.0	261.0	256.7	246.1	571.9	555.5	530.1	480.8
Photographic apparatus	224.6	224.5	224.4	219.5	456.7	450.2	450.5	416.8
Optical instruments and ophthalmic goods <u>2/</u>	219.8	221.9	219.7	232.1	448.2	452.6	444.4	445.3
Pianos, organs, and parts	173.7	178.2	173.6	228.6	389.5	387.6	369.1	500.1
Games, toys, and dolls	246.6	261.7	251.7	226.9	644.2	662.5	613.5	525.9
Buttons	116.5	117.0	116.1	113.0	276.4	275.4	271.9	262.5
Fire extinguishers	281.0	281.8	271.3	269.5	638.1	616.9	606.1	560.6

See explanatory notes, sections C, F, and G, and the glossary for definitions.

1/ See footnote 1, table 8.

2/ Indexes for earlier months in 1948 have been revised as follows:

Confectionery - June through August employment to 115.8, 113.0, and 128.5; June and July pay roll to 261.8 and 255.4.

Optical instruments and ophthalmic goods - August employment to 218.3; pay roll to 439.6.

TABLE 11: Indexes of Employment and Weekly Pay Rolls in Selected Nonmanufacturing Industries

(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Nov.	Oct.	Sept.	Nov.	Nov.	Oct.	Sept.	Nov.
MINING:								
Coal								
Anthracite	92.1	91.7	92.7	91.2	227.3	260.4	247.3	224.4
Bituminous coal	108.3	108.8	109.7	107.4	343.1	358.5	355.1	327.4
Metal	95.0	99.3	95.5	96.5	215.2	224.9	211.2	194.8
Iron	152.1	155.4	153.2	151.3	355.0	371.6	361.0	310.2
Copper	92.6	107.9	107.7	104.4	226.4	255.6	247.6	224.7
Lead and zinc	101.9	99.8	79.8	94.8	265.4	252.7	199.2	220.6
Gold and silver	31.6	30.9	31.4	31.3	56.6	56.4	54.1	53.7
Miscellaneous	183.4	188.6	183.9	185.7	401.4	405.0	406.7	346.7
Quarrying and nonmetallic	124.6	126.5	128.3	126.2	329.5	345.2	342.4	305.7
Crude petroleum and natural gas production	114.0	113.5	116.4	110.5	235.3	230.7	235.6	211.0
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railroads ^{1/}	134.6	136.2	136.7	135.7	2/	2/	22/	2/
Street railways and busses	126.2	126.9	127.9	128.7	237.4	242.0	239.7	223.6
Telephone	202.1	201.9	202.3	193.3	349.0	338.2	335.4	321.5
Telegraph	90.7	91.6	92.3	97.2	215.3	217.4	220.4	206.8
Electric light and power	115.5	115.2	116.2	109.7	205.8	204.5	204.3	187.6
TRADE: ^{3/}								
Wholesale	118.3	118.1	117.1	116.5	224.2	222.5	220.8	213.6
Retail	119.4	116.0	113.4	119.8	228.4	223.5	219.4	216.5
Food	113.8	113.8	112.0	116.1	229.6	227.4	226.0	220.0
General merchandise	146.4	135.3	127.2	143.6	270.3	252.7	238.3	251.1
Apparel	122.8	119.4	113.9	124.0	226.5	222.2	210.8	222.7
Furniture and housefurnishings	93.8	92.2	91.6	92.4	182.5	184.3	179.9	177.3
Automotive	111.7	110.0	110.1	107.6	219.0	215.6	217.0	198.6
Lumber and building materials	126.6	127.8	128.0	126.4	254.7	261.3	258.3	233.5
SERVICE:								
Hotels (year-round) ^{4/}	115.2	116.2	115.7	117.1	237.4	238.7	235.3	228.6
Power laundries	114.8	116.7	118.4	121.3	226.9	227.6	232.9	226.8
Cleaning and dyeing	150.5	153.7	152.5	159.4	289.3	300.0	296.8	293.7

See footnotes, table 9, and explanatory notes, sections C, F, and G.

^{1/} Source: Interstate Commerce Commission.^{2/} Not available.^{3/} Includes all nonsupervisory employees and working supervisors.^{4/} Money payments only; additional value of board, room, uniforms, and tips, not included.

EXPLANATORY NOTES

Sec. A. Scope of Employment Revisions - The employment estimates shown in this report for the industry divisions (e.g., manufacturing, mining, etc.) and industry groups (e.g., iron and steel, electrical machinery, etc.) have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Sec. B. Sources of Bench-Mark 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 bench-mark data. Data obtained from the Federal Security Agency are the main bases for 1946 bench marks. Bench marks 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. Revisions of Production-Worker Estimates - Data for the manufacturing major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Estimates for the individual manufacturing industries, formerly adjusted to data through 1945, are now being adjusted to 1946 bench-mark levels. As these revisions are completed, they are published in this report and indicated by appropriate footnotes. In the nonmanufacturing industries, the entire series of mining industries have been adjusted to 1946 bench-mark levels.

Since the data shown in this report cover only the current months, a set of summary sheets for each industry presenting comparable figures from January 1939 to date, by months, will be provided upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

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 "bench mark" is either a complete count or an estimate with a satisfactory degree of accuracy.

When a new bench mark becomes available, estimates prepared since the last bench mark 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 bench mark 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 bench mark to determine the monthly estimates of employment between bench-mark 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 estimates would be prepared as follows:

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

In general, then, the month-to-month changes in employment reflect the fluctuations shown by establishments reporting to the Bureau of Labor Statistics.

Why Revisions Are Necessary - Because reports are not immediately available from new firms, they are frequently introduced into the BLS 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. The most recent revisions correct for the downward bias that had accumulated in the nonmanufacturing series beginning January 1945 and in the manufacturing series beginning January 1946. Revisions in some industry divisions were made in order to incorporate greater refinements in methodology and new source materials that have become available.

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 BLS 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 BLS 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 bench marks 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. The approximate number of establishments, and workers covered, for each industry division is as follows:

Approximate Coverage of BLS Employment and Pay-Roll Sample

Industry division	: Number : of estab- : lishments :	Employees or production workers	
		Number	: Percent of total
Manufacturing	34,300	7,542,000	56
Mining	2,700	407,000	52
Contract construction	12,500	480,000	22
Public utilities	7,500	933,000	78
Trade:			
Wholesale	12,800	360,000	20
Retail	37,900	1,097,000	25
Service:			
Hotels (year-round)	1,200	131,000	35
Power laundries and cleaning and dyeing	1,600	67,000	21

Sec. H. Coverage of Employment Estimates - The employment estimates shown in tables 1, 2, 3, 6, and 7 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 and indexes shown in tables 8 and 10 refer to production and related workers as defined in the glossary, page ix.

Sec. I. State Estimates - State estimates are prepared in cooperation with various State Agencies as indicated on page v. 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 bench-mark 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. A number of States also make available more detailed industry data and information for earlier periods which may be secured directly upon request to the appropriate State Agency. Estimates of nonagricultural employment, by State, for those States which are now publishing such estimates are shown in table 6 and are consistent with the manufacturing estimates in table 7. As nonagricultural estimates for additional States become available, they will be shown in table 6.

The following publications are available upon request from the BLS Regional Offices or the Bureau's Washington Office:

Nonagricultural Employment, by State, 1943-1947;
Employment in Manufacturing Industries, by State,
1943-1946; Estimates of Total Employment in
Manufacturing Industries by State, 1947.

COOPERATING STATE AGENCIES

Alabama - Dept. of Industrial Relations, Montgomery 5.
Arizona - Unemployment Compensation Div., Employment Security Commission, Phoenix.
Arkansas - Employment Security Div., Dept. of Labor, Little Rock.
California - Div. of Labor Statistics and Research, Dept. of Industrial Relations, San Francisco 3.
Connecticut - Employment Security Div., Dept. of Labor and Factory Inspection, Hartford 15.
Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1, Pa.
Florida - Unemployment Compensation Div., Industrial Commission, Tallahassee.
Georgia - Employment Security Agency, Dept. of Labor, Atlanta 3.
Idaho - Employment Security Agency, Industrial Accident Board, Boise.
Illinois - Dept. of Labor, Chicago 1.
Indiana - Employment Security Div., Indianapolis 4.
Iowa - Employment Security Commission, Des Moines 8.
Kansas - State Labor Dept., Topeka.
Kentucky - Dept. of Economic Security, Frankfort.
Louisiana - Div. of Employment Security, Dept. of Labor, Baton Rouge 4.
Maine - Unemployment Compensation Commission, Augusta.
Maryland - Dept. of Employment Security, Baltimore 2.
Massachusetts - Div. of Statistics, Dept. of Labor and Industries, Boston 10.
Michigan - Dept. of Labor and Industry, Lansing 13.
Minnesota - Div. of Employment and Security, Dept. of Social Security, St. Paul 1.
Missouri - Div. of Employment Security, Dept. of Labor and Industrial Relations, Jefferson City.
Montana - Unemployment Compensation Commission, Helena.
Nebraska - Div. of Placement and Unemployment Insurance, Dept. of Labor, Lincoln 1.
Nevada - Employment Security Dept., Carson City.
New Hampshire - Unemployment Compensation Div., Bureau of Labor, Concord.
New Jersey - Dept. of Labor, Trenton 8.
New Mexico - Employment Security Commission, Albuquerque.
New York - Div. of Placement and Unemployment Insurance, Dept. of Labor, New York 17.
North Carolina - Dept. of Labor, Raleigh.
Oklahoma - Employment Security Commission, Oklahoma City 2.
Pennsylvania - Federal Reserve Bank of Philadelphia, Philadelphia 1 (mfg.); Bureau of Research and Information, Dept. of Labor and Industry, Harrisburg (nonmfg.).
Rhode Island - Div. of Census and Information, Dept. of Labor, Providence 2.
Tennessee - Dept. of Employment Security, Nashville 3.
Texas - Bureau of Business Research, University of Texas, Austin 12.
Utah - Dept. of Employment Security, Industrial Commission, Salt Lake City 13.
Vermont - Unemployment Compensation Commission, Montpelier.
Virginia - Div. of Research and Statistics, Dept. of Labor and Industry, Richmond 21.
Washington - Employment Security Dept., Olympia.
Wisconsin - Statistical Dept., Industrial Commission, Madison 3.
Wyoming - Employment Security Commission, Casper.

BLS REGIONAL OFFICES

New England - Regional Director, U. S. Bureau of Labor Statistics, Old South Bldg., 294 Washington St., Boston 33, 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, Selective Service System, War Assets Administration, Office of Defense Transportation, National Security Resources Board, National Security Council.

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 4, but are excluded from the government data shown in tables 1 and 3.

Employment shown here for the executive branch differs from data published by the U. S. Civil Service Commission in the following respects: (1) 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; (2) substitute rural mail carriers are excluded; (3) employment in December of each year includes the additional postal employees necessitated by the Christmas season, excluded from published Civil Service Commission figures starting 1942; (4) seamen and trainees who are hired and paid by private steamship companies having contracts with the Maritime Commission are excluded; (5) the Panama Railroad Company is shown here under Government corporations but is included under the executive branch by the Civil Service Commission.

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, etc.), government corporations, and government force-account construction. The data shown in tables 1 and 3 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 weekly pay rolls - Estimates of production-worker weekly pay rolls expressed as a percentage of the average weekly pay roll for 1939.

Leave payments - Payments were authorized by Public Law 704 of the 79th Congress and were continued by Public Law 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 is paid in addition when bonds are cashed. Lump-sum payments for terminal leave, which were authorized by Public Law 350 of the 80th Congress, and were started October 1947, are excluded here and included under pay rolls.

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

Military personnel - Represents persons on active duty as of the first of the month. Reserve personnel are excluded if on inactive duty or if on active duty for a brief training or emergency period.

Military pay rolls - Represent estimated pay roll obligations based on an average monthly personnel count, plus lump-sum payments for terminal leave. Pay rolls for the Navy 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 or 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 - manufacturing, mining, contract construction, transportation and public utilities, trade, finance, service, or government.

Pay rolls - Private pay rolls represent weekly pay rolls of both full- and part-time production and related workers (or nonsupervisory employees and working supervisors) who worked or received pay for any part of the pay period ending nearest the 15th of the month, 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 coal mining portal-to-portal pay is included.

Federal civilian pay rolls are for all employees before deductions for income tax, retirement, and bonds, and cover the working days in the calendar month.

Production and related workers - Includes working foremen and all non-supervisory workers (including lead men and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial, watchman services, products 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 service. 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.