

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
AUGUST 1948**

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

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ESTIMATES OF MANUFACTURING PRODUCTION WORKERS - NEW SERIES

Industries in Selected Major Industry Groups

In this Detailed Report the Bureau presents a new series of production-worker estimates for the individual industries comprising the major industry groups listed below. The new estimates have been adjusted to Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Only the industries indicated below were affected; comparison of the remaining industries, in the groups specified, with 1946 bench-mark levels indicated that no adjustment was necessary.

Electrical machinery:
Electrical equipment

Nonferrous metals and their products:
Sheet-metal work, not elsewhere classified

Furniture and finished lumber products:
Mattresses and bedsprings
Furniture
Wooden boxes, other than cigar
Caskets and other morticians' goods
Wood preserving
Wood, turned and shaped

Chemicals and allied products:
Paints, varnishes, and colors
Chemicals, not elsewhere classified
Explosives and safety fuses
Fertilizers

Miscellaneous industries:
No industries affected

This report shows the new production-worker employment estimates and indexes of employment and weekly pay rolls for the months currently presented. A set of summary sheets presenting comparable data from January 1939, to date, for the industries in these groups will be provided upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

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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 - ix.

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

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

(In thousands)

Industry division	1948			1947	
	August	July	June	August	July
TOTAL	45,487	45,078	45,009	44,125	43,686
Manufacturing	16,451	16,158	16,115	15,962	15,580
Mining	950	921	950	923	890
Contract construction	2,257	2,219	2,173	2,096	2,043
Transportation and public utilities	4,137	4,136	4,105	4,163	4,155
Trade	9,659	9,646	9,670	9,356	9,316
Finance	1,761	1,754	1,726	1,688	1,675
Service	4,622	4,645	4,663	4,619	4,686
Government	5,650	5,599	5,607	5,318	5,341

See explanatory notes, sections A - H, 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	
	August	July	June	August	July
ALL MANUFACTURING	16,451	16,158	16,115	15,962	15,580
DURABLE GOODS	8,188	8,153	8,122	7,987	7,874
Iron and steel and their products	1,929	1,897	1,904	1,884	1,854
Electrical machinery	717	714	726	745	742
Machinery, except electrical	1,555	1,560	1,577	1,552	1,519
Transportation equipment, except automobiles	543	561	562	530	527
Automobiles	958	983	918	926	941
Nonferrous metals and their products	466	457	469	463	462
Lumber and timber basic products	930	912	881	821	793
Furniture and finished lumber products	551	542	550	549	534
Stone, clay, and glass products	539	527	535	517	502
NONDURABLE GOODS	8,263	8,005	7,993	7,975	7,706
Textile-mill products and other fiber manufactures	1,397	1,364	1,418	1,320	1,305
Apparel and other finished textile products	1,334	1,235	1,263	1,222	1,141
Leather and leather products	431	422	419	429	417
Food	1,965	1,900	1,786	1,922	1,785
Tobacco manufactures	99	96	98	99	97
Paper and allied products	478	476	477	469	462
Printing, publishing, and allied industries	718	716	719	710	706
Chemicals and allied products	773	751	762	750	752
Products of petroleum and coal	247	247	245	238	237
Rubber products	244	240	243	252	250
Miscellaneous industries	577	558	563	564	554

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	
	August	July	June	August	July
MINING	950	921	950	923	890
Anthracite	83	81	82	82	79
Bituminous coal	425	395	426	408	379
Metal	99	102	104	102	101
Quarrying and nonmetallic	97	97	97	99	98
Crude petroleum and natural gas production <u>1/</u>	246	246	241	232	233
TRANSPORTATION AND PUBLIC UTILITIES	4,137	4,136	4,105	4,163	4,155
Transportation	2,867	2,873	2,860	2,946	2,943
Communication	747	745	734	722	721
Other public utilities	523	518	511	495	491
GOVERNMENT	5,650	5,599	5,607	5,318	5,341
Federal	1,855	1,833	1,804	1,795	1,828
State and local	3,795	3,766	3,803	3,523	3,513

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
	August	July	June	August	August	July	June	August
<u>Total (including areas outside United States)</u>								
TOTAL FEDERAL	2,094.6	2,084.3	2,053.9	2,067.2	\$557,311	\$528,437	\$505,345	\$464,076
Executive	2,055.4	2,044.7	2,014.5	2,026.1	547,283	518,639	495,792	454,723
Defense agencies	924.6	919.8	916.9	923.1	236,960	223,968	225,440	199,247
Post Office Dept.	476.4	471.2	458.2	442.3	123,136	121,677	102,653	96,145
Other agencies	654.4	653.7	639.4	660.7	187,187	172,944	167,699	159,331
Legislative	7.3	7.3	7.3	7.2	2,695	2,600	2,536	2,421
Judicial	3.5	3.5	3.5	3.4	1,390	1,301	1,279	1,259
Government corporations	28.4	28.8	28.6	30.5	5,943	5,897	5,738	5,673
<u>Continental United States</u>								
TOTAL FEDERAL	1,875.1	1,858.2	1,823.9	1,815.9	514,343	487,057	461,406	423,545
Executive	1,842.5	1,825.6	1,791.5	1,782.4	505,131	478,016	452,529	414,898
Defense agencies	742.9	732.2	724.7	708.7	203,510	191,686	189,974	166,681
Post Office Dept.	474.8	469.7	456.6	440.8	122,721	121,263	102,306	95,819
Other agencies	624.8	623.7	610.2	632.9	178,900	165,067	160,249	152,398
Legislative	7.3	7.3	7.3	7.2	2,695	2,600	2,536	2,421
Judicial	3.4	3.4	3.4	3.3	1,351	1,263	1,242	1,223
Government corporations	21.9	21.9	21.7	23.0	5,166	5,178	5,099	5,003
<u>Washington, D. C.</u>								
TOTAL GOVERNMENT	234.2	233.3	229.5	223.7	71,817	67,206	66,658	58,624
D. C. government	13.8	19.3	18.8	17.8	3,468	3,459	4,561	3,187
Federal	215.4	214.0	210.7	205.9	68,349	63,747	62,097	55,437
Executive	207.5	206.1	202.8	198.1	65,426	60,931	59,350	52,817
Defense agencies	70.2	69.0	67.6	65.1	21,465	20,235	19,250	15,705
Post Office Dept.	7.5	7.5	7.4	7.3	2,722	2,651	2,300	2,283
Other agencies	129.8	129.6	127.8	125.7	41,239	38,045	37,800	34,829
Legislative	7.3	7.3	7.3	7.2	2,695	2,600	2,536	2,421
Judicial	.6	.6	.6	.6	228	216	211	199

See the glossary for definitions.

^{1/} Data for Central Intelligence Agency are excluded starting August 1947 for employment and July 1947 for pay rolls.

6.

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

(In thousands)

Personnel and pay	1948			1947	
	August	July	June	August	July
PERSONNEL, TOTAL.....	1,514	1,463	1,439	1,575	1,592
Army and Air Force....	<u>2/</u> 978	<u>2/</u> 940	<u>2/</u> 930	973	990
Navy.....	430	420	407	492	490
Marine Corps.....	86	84	82	92	93
Coast Guard.....	21	20	20	19	19
Men.....	1,501	1,449	1,423	1,556	1,571
Women.....	14	14	16	19	20
PAY, TOTAL.....	\$278,165	\$276,655	\$277,368	\$334,129	\$339,128
<u>By branch:</u>					
Army and Air Force....	171,556	167,870	173,956	192,505	200,676
Navy.....	87,715	90,203	85,522	117,518	115,734
Marine Corps.....	14,335	13,884	13,551	17,884	16,212
Coast Guard.....	4,560	4,699	4,339	6,222	6,506
<u>By type of pay:</u>					
Pay rolls.....	244,547	246,422	243,239	248,670	259,172
Mustering-out pay.....	3,886	2,581	5,756	10,498	12,670
Family allowances.....	27,756	26,353	26,476	24,502	25,036
Leave payments.....	1,976	1,299	1,898	50,459	42,250
Cash.....	416	301	495	4,831	3,718
Bonds.....	1,560	998	1,403	45,628	38,532

See the glossary for definition.

^{1/} Because of rounding, the individual figures do not necessarily add to group totals^{2/} Air Force personnel, 384,000 in June, 388,000 in July, and 400,000 in August 1948.

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

(In thousands)

State	1948			1947	
	July	June	May	July	June
Arizona	154	155	154	144	144
Connecticut	761	765	767	764	769
Illinois	3,185	3,174	3,126	3,113	3,122
Indiana	1,207	1,209	1,197	1,184	1,193
Maine	276	270	259	265	257
Maryland	708	707	698	658	665
Massachusetts	1,715	1,731	1,720	1,674	1,696
Minnesota	813	803	782	783	770
Montana	141	138	136	137	135
Nevada <u>1/</u>	50	49	48	50	49
New Jersey	1,590	1,593	1,576	1,543	1,567
New Mexico <u>1/</u>	109	108	107	102	103
New York	5,405	5,416	5,385	5,338	5,381
Pennsylvania	3,584	3,606	3,577	3,509	3,530
Rhode Island	286	287	287	278	285
Texas	1,734	1,724	1,702	1,652	1,651
Utah	179	176	177	176	171
Vermont <u>1/</u>	95	96	95	94	95
Washington	674	655	641	657	664
Wisconsin	1,016	993	977	1,001	966

See explanatory notes, sections H and I.

1/ Does not include contract construction.

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

(In thousands)

Region and State	1948			1947	
	July	June	May	July	June
NEW ENGLAND:					
Maine <u>1/</u>	116.5	115.2	108.2	112.9	108.2
New Hampshire	82.1	82.7	81.6	77.6	79.3
Vermont <u>1/</u>	37.0	37.8	37.8	37.2	38.4
Massachusetts	711.1	726.1	723.4	707.2	724.7
Rhode Island	144.8	146.5	147.0	141.4	147.0
Connecticut <u>1/</u>	393.3	396.5	401.1	403.3	410.4
MIDDLE ATLANTIC:					
New York	1,816.5	1,831.7	1,829.0	1,801.9	1,841.6
New Jersey	732.1	741.8	740.7	719.6	745.2
Pennsylvania	1,476.1	1,492.4	1,487.3	1,471.1	1,487.2
EAST NORTH CENTRAL:					
Ohio	1,215.7	1,228.2	1,221.3	1,232.0	1,244.5
Indiana	544.0	546.4	541.9	550.0	553.6
Illinois	1,227.4	1,228.7	1,203.5	1,228.6	1,238.3
Michigan	996.8	962.7	998.5	997.0	1,013.1
Wisconsin <u>1/</u>	447.9	429.7	420.0	461.5	427.9
WEST NORTH CENTRAL:					
Minnesota <u>1/</u>	206.6	203.3	190.9	205.6	194.5
Iowa <u>1/</u>	152.1	149.8	135.1	149.8	148.6
Missouri <u>1/</u>	345.7	343.9	339.3	343.5	345.4
North Dakota	7.0	7.1	6.7	* 6.8	6.8
South Dakota	11.8	11.9	11.3	11.8	11.5
Nebraska	43.6	43.0	36.1	43.4	43.1
Kansas	83.9	84.5	77.0	80.7	81.0
SOUTH ATLANTIC:					
Delaware	46.6	46.6	45.8	45.2	45.4
Maryland	232.8	229.4	228.5	217.4	224.3
District of Columbia	17.2	17.1	17.2	17.4	17.2
Virginia	210.9	211.1	210.8	208.2	207.9
West Virginia	133.3	133.9	132.4	131.0	132.6
North Carolina	362.9	381.7	381.4	365.2	366.0
South Carolina	195.8	200.5	199.3	191.5	188.9
Georgia <u>1/</u>	274.3	275.7	273.8	262.5	263.7
Florida <u>1/</u>	88.0	90.0	93.2	85.7	88.2

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

(In thousands)

Region and State	1948			1947	
	July	June	May	July	June
EAST SOUTH CENTRAL:					
Kentucky	126.8	127.0	125.9	122.4	123.6
Tennessee	249.5	250.7	250.8	246.2	245.2
Alabama <u>1/</u>	229.8	228.3	228.0	219.6	221.1
Mississippi	91.3	89.5	88.1	91.4	90.9
WEST SOUTH CENTRAL:					
Arkansas <u>1/</u>	76.5	76.6	75.1	75.1	74.2
Louisiana <u>1/</u>	148.2	149.4	146.0	143.3	145.7
Oklahoma <u>1/</u>	66.7	68.9	65.2	62.9	62.6
Texas	350.7	354.8	341.7	335.1	339.3
MOUNTAIN:					
Montana	18.1	17.7	17.1	18.4	17.8
Idaho <u>1/</u>	20.6	18.8	18.1	22.9	22.3
Wyoming	6.8	6.8	6.5	6.7	6.3
Colorado	56.5	56.3	53.3	55.9	54.6
New Mexico <u>1/</u>	10.4	10.0	9.3	9.1	9.1
Arizona <u>1/</u>	15.7	16.0	15.7	14.0	14.8
Utah	28.7	26.0	24.2	29.1	24.9
Nevada <u>1/</u>	3.4	3.4	3.3	3.4	3.3
PACIFIC:					
Washington	179.9	163.4	152.4	176.5	179.3
Oregon	117.3	112.8	110.7	116.6	119.1
California	741.3	713.0	696.3	704.0	689.3

See explanatory notes, sections H and I.

1/ Series based on Standard Industrial Classification. Data for Georgia, Idaho, and Louisiana may not be strictly comparable with those published prior to the current report.

* Revised.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1948			1947	
	August	July	June	August	July
ALL MANUFACTURING	13,233	12,974	12,959	12,928	12,562
DURABLE GOODS	6,700	6,669	6,662	6,555	6,452
NONDURABLE GOODS	6,533	6,305	6,297	6,373	6,110
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS	1,631	1,601	1,610	1,597	1,569
Blast furnaces, steel works, and rolling mills	534.9	526.5	523.0	508.6	503.0
Gray-iron and semisteel castings	106.4	104.7	108.8	113.6	113.0
Malleable-iron castings	37.3	36.1	37.9	35.4	33.7
Steel castings	69.4	68.2	69.6	65.5	64.0
Cast-iron pipe and fittings	29.5	28.9	28.9	27.5	27.1
Tin cans and other tinware	49.0	47.3	44.7	47.6	44.3
Wire drawn from purchased rods	28.3	28.0	28.7	30.8	30.6
Wirework	42.3	41.8	40.2	40.3	39.0
Cutlery and edge tools	22.5	21.8	22.1	23.3	21.5
Tools (except edge tools, machine tools, files, and saws)	24.5	24.6	25.1	24.4	23.9
Hardware	50.1	49.3	49.8	48.3	49.1
Plumbers' supplies	40.3	38.8	40.3	38.5	38.3
Stoves, oil burners, and heating equipment, not elsewhere classified	84.0	77.6	78.7	86.4	82.7
Steam and hot-water heating apparatus and steam fittings	60.4	57.0	60.5	61.3	60.3
Stamped and enameled ware and galvanizing	109.0	110.1	111.0	111.9	109.2
Fabricated structural and ornamental metalwork	60.9	59.3	59.6	60.3	59.1
Metal doors, sash, frames, molding, and trim	10.8	10.4	10.4	10.1	9.6
Bolts, nuts, washers, and rivets	27.9	28.1	28.5	28.4	27.7
Forgings, iron and steel	35.2	35.1	34.9	36.2	35.9
Wrought pipe, welded and heavy-riveted	19.7	19.8	20.1	17.7	17.3
Screw-machine products and wood screws	34.8	35.2	35.9	35.4	36.0
Steel barrels, kegs, and drums	8.1	7.9	7.9	8.3	8.4
Firearms	21.3	21.5	21.4	18.3	19.3
ELECTRICAL MACHINERY <u>1/</u>	538	535	547	569	567
Electrical equipment	363.9	362.3	367.7	379.0	379.9
Radios and phonographs	86.9	85.9	89.0	96.8	93.3
Communication equipment	87.5	87.0	90.3	93.3	94.0

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	
	August	July	June	August	July
MACHINERY, EXCEPT ELECTRICAL	1,193	1,199	1,217	1,198	1,171
Machinery and machine-shop products	483.8	487.5	493.2	495.1	490.8
Engines and turbines	51.4	52.3	52.1	53.5	53.1
Tractors	58.8	60.0	60.4	55.7	56.8
Agricultural machinery, excluding tractors	72.5	74.8	76.3	66.4	64.4
Machine tools	47.8	46.8	47.0	52.5	50.6
Machine-tool accessories	55.1	51.8	55.4	56.4	55.4
Textile machinery	42.1	41.3	42.0	36.4	36.4
Pumps and pumping equipment	65.7	66.3	67.7	73.3	74.1
Typewriters	22.1	22.8	23.7	23.6	14.5
Cash registers; adding, and calculating machines	44.7	45.2	45.8	41.0	37.9
Washing machines, wringers, and driers, domestic	15.6	15.6	16.4	15.1	14.6
Sewing machines, domestic and industrial	14.3	14.1	14.0	12.1	12.0
Refrigerators and refrigeration equipment	83.1	84.2	84.8	78.6	77.2
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	415	430	434	405	403
Locomotives	17.2	26.4	26.3	24.4	23.8
Cars, electric- and steam-railroad	54.6	54.5	55.0	54.6	55.1
Aircraft and parts, excluding aircraft engines	133.5	130.3	127.6	130.7	129.3
Aircraft engines	21.6	25.6	25.9	26.7	26.8
Shipbuilding and boatbuilding	100.3	103.7	108.9	87.1	87.7
Motorcycles, bicycles, and parts	11.6	10.8	12.4	13.6	13.0
AUTOMOBILES	762	786	739	741	753
NONFERROUS METALS AND THEIR PRODUCTS ^{1/}	395	388	399	396	393
Smelting and refining, primary, of nonferrous metals	41.4	41.9	42.0	39.9	40.8
Alloying; and rolling and drawing of nonferrous metals, except aluminum	52.6	51.9	52.6	53.4	54.3
Clocks and watches	27.5	25.9	28.3	27.2	24.8
Jewelry (precious metals) and jewelers' findings	26.3	25.8	26.3	25.6	24.7
Silverware and plated ware	27.7	26.5	27.4	25.0	23.7
Lighting equipment	31.1	30.2	30.9	35.3	36.4
Aluminum manufactures	39.4	39.1	42.3	41.0	40.0
Sheet-metal work, not elsewhere classified	37.5	37.0	36.4	38.7	38.5

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	
	August	July	June	August	July
LUMBER AND TIMBER BASIC PRODUCTS <u>1/</u>	844	828	799	745	721
Sawmills and logging camps	692.1	681.1	654.5	614.6	589.9
Planing and plywood mills	151.9	147.7	145.8	130.8	130.9
FURNITURE AND FINISHED LUMBER PRODUCTS <u>1/</u>	461	452	459	460	445
Mattresses and bedsprings	35.2	33.2	33.4	33.4	30.3
Furniture	248.5	244.4	248.1	244.4	237.5
Wooden boxes, other than cigar	35.0	35.6	35.6	37.8	37.3
Caskets and other morticians' goods	19.3	18.9	19.4	20.5	20.3
Wood preserving	17.7	17.3	16.8	20.1	19.9
Wood, turned and shaped	35.0	33.9	35.4	33.4	32.1
STONE, CLAY, AND GLASS PRODUCTS	461	450	458	444	430
Glass and glassware	115.6	111.0	116.5	118.2	113.1
Glass products made from purchased glass	12.1	12.5	12.3	12.0	12.4
Cement	38.0	38.1	37.6	36.8	35.7
Brick, tile, and terra cotta	81.3	79.8	80.1	75.1	73.3
Pottery and related products	58.4	55.6	57.6	56.1	54.3
Gypsum	6.7	6.7	6.6	6.1	6.1
Wallboard, plaster (except gypsum), and mineral wool	12.7	12.7	12.6	11.8	11.5
Lime	9.4	9.4	9.3	9.2	9.3
Marble, granite, slate, and other products	18.8	18.7	18.5	18.4	16.8
Abrasives	18.0	16.3	17.8	16.2	17.0
Asbestos products	21.7	20.9	21.7	20.6	19.5
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	1,274	1,243	1,295	1,202	1,187
Cotton manufactures, except smallwares	520.3	508.9	527.7	494.1	492.6
Cotton smallwares	13.5	13.4	14.0	13.1	13.1
Silk and rayon goods	112.8	108.2	112.6	101.5	99.9
Woolen and worsted manufactures, except dyeing and finishing	169.4	167.2	173.8	162.9	158.1
Hosiery	133.4	125.6	135.3	128.2	125.9
Knitted cloth	11.2	11.1	11.2	10.9	10.3
Knitted outerwear and knitted gloves	29.4	28.1	30.8	27.9	27.0
Knitted underwear	46.5	46.6	48.1	45.0	43.6
Dyeing and finishing textiles, including woolen and worsted	85.1	84.5	86.5	81.2	80.2
Carpets and rugs, wool	37.2	37.1	37.2	32.4	31.9
Hats, fur-felt	13.3	12.3	13.4	13.3	12.8
Jute goods, except felts	4.3	4.3	4.3	3.0	4.1
Cordage and twine	15.4	15.8	16.2	14.9	14.8

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	
	August	July	June	August	July
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	1,160	1,070	1,095	1,071	992
Men's clothing, not elsewhere classified	318.2	296.5	314.4	294.7	278.2
Shirts, collars, and nightwear	78.6	75.8	80.0	75.1	71.7
Underwear and neckwear, men's	17.8	16.7	18.2	16.6	15.4
Work shirts	18.6	18.5	18.6	15.6	14.0
Women's clothing, not elsewhere classified	480.7	437.0	435.4	440.4	400.2
Corsets and allied garments	18.2	17.0	18.1	17.5	16.9
Millinery	24.9	22.0	20.0	23.6	20.5
Handkerchiefs	4.8	4.0	4.9	4.6	4.2
Curtains, draperies, and bedspreads	29.2	25.1	26.4	27.3	23.2
Housefurnishings, other than curtains, etc.	30.2	28.1	27.9	29.4	26.6
Textile bags	28.9	28.1	27.1	27.3	26.9
LEATHER AND LEATHER PRODUCTS <u>1/</u>	384	376	373	385	373
Leather	47.7	47.2	47.9	49.1	48.4
Boot and shoe cut stock and findings	18.1	17.7	17.8	19.2	18.8
Boots and shoes	245.7	240.2	236.6	245.7	237.8
Leather gloves and mittens	13.2	12.8	12.9	12.7	11.9
Trunks and suitcases	13.8	13.3	13.3	12.7	11.7
FOOD	1,414	1,362	1,257	1,442	1,311
Slaughtering and meat packing	183.1	187.5	186.1	182.9	182.3
Butter	37.9	39.3	40.5	37.8	38.8
Condensed and evaporated milk	21.7	22.4	23.0	22.7	23.5
Ice cream	31.6	32.6	31.6	32.8	33.4
Flour	39.4	39.8	38.6	39.3	39.4
Feeds, prepared	29.3	29.1	28.7	29.9	29.6
Cereal preparations	13.7	13.8	13.0	14.2	13.1
Baking	227.0	226.3	224.6	218.0	216.6
Sugar refining, cane	20.9	21.4	18.3	20.8	20.8
Sugar, beet	8.5	7.2	7.0	10.5	8.1
Confectionery	63.7	56.0	57.8	62.8	57.9
Beverages, nonalcoholic	43.9	44.6	41.0	39.7	35.5
Malt liquors	78.9	79.3	74.8	76.0	74.0
Canning and preserving	292.5	246.2	167.9	349.7	246.2
TOBACCO MANUFACTURES <u>1/</u>	86	83	85	85	84
Cigarettes	34.5	33.6	33.3	32.9	32.9
Cigars	44.1	41.7	43.6	44.5	43.0
Tobacco (chewing and smoking) and snuff	7.8	7.6	7.7	8.0	7.8

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	
	August	July	June	August	July
PAPER AND ALLIED PRODUCTS <u>1/</u>	391	388	390	387	380
Paper and pulp	206.7	205.8	204.2	199.8	197.3
Paper goods, other	58.7	60.5	61.7	60.6	60.2
Envelopes	12.4	12.3	12.5	11.8	11.6
Paper bags	17.7	17.4	17.5	18.0	17.8
Paper boxes	94.8	90.9	92.8	95.6	92.6
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	432	430	433	434	430
Newspapers and periodicals	147.7	146.8	146.9	143.0	143.2
Printing; book and job	183.1	183.0	184.4	184.3	184.3
Lithographing	31.2	31.2	31.1	32.6	31.5
Bookbinding	34.5	33.4	35.1	38.3	37.0
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	586	567	574	563	562
Paints, varnishes, and colors	49.7	49.1	49.1	46.7	46.2
Drugs, medicines, and insecticides	63.9	63.4	63.6	66.2	66.7
Perfumes and cosmetics	12.4	10.9	10.9	12.1	11.7
Soap	25.2	24.0	23.7	23.9	24.0
Rayon and allied products	64.9	64.4	64.3	61.1	61.0
Chemicals, not elsewhere classified	211.2	202.0	207.6	205.7	207.5
Explosives and safety fuses	27.8	27.4	26.7	23.3	21.4
Compressed and liquefied gases	10.1	10.0	10.1	10.1	9.8
Ammunition, small-arms	7.5	7.7	7.8	4.4	6.9
Fireworks	2.8	2.2	2.5	2.1	2.4
Cottonseed oil	14.3	12.5	12.7	13.1	11.6
Fertilizers	26.9	25.5	27.2	27.5	26.0
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	170	170	170	166	165
Petroleum refining	115.9	117.0	116.6	114.5	114.3
Coke and byproducts	32.2	31.8	31.7	29.2	29.0
Paving materials	2.7	2.6	2.6	3.3	2.8
Roofing materials	17.8	17.4	17.7	18.2	18.2

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	
	August	July	June	August	July
RUBBER PRODUCTS 1/	195	191	195	203	200
Rubber tires and inner tubes	91.5	90.9	91.9	104.7	102.9
Rubber boots and shoes	22.0	20.7	21.8	18.9	20.1
Rubber goods, other	81.0	79.2	81.7	79.6	76.8
MISCELLANEOUS INDUSTRIES 1/	441	425	430	435	426
Instruments (professional and scientific), and fire-control equipment	28.1	28.0	27.7	27.5	27.5
Photographic apparatus	39.7	39.0	38.3	38.3	38.3
Optical instruments and ophthalmic goods	24.8	23.9	25.6	27.6	27.9
Pianos, organs, and parts	13.8	12.8	13.5	14.6	14.9
Games, toys, and dolls	44.8	41.9	41.1	38.2	36.1
Buttons	13.0	12.5	12.9	11.4	10.7
Fire extinguishers	2.7	2.8	2.8	2.8	2.9

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
Lumber and timber basic products	September 1948	October 1948
Leather and leather products	September 1948	October 1948
Paper and allied products	September 1948	October 1948
Printing, publishing, and allied industries	September 1948	October 1948
Products of petroleum and coal	September 1948	October 1948
Rubber products	September 1948	October 1948
Electrical machinery	October 1948	November 1948
Nonferrous metals and their products	October 1948	November 1948
Furniture and finished lumber products	October 1948	November 1948
Chemicals and allied products	October 1948	November 1948
Miscellaneous industries	October 1948	November 1948

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

(In thousands)

Industry group and industry	1948			1947	
	August	July	June	August	July
MINING: <u>2/</u>					
Coal:					
Anthracite	77.6	76.1	77.4	76.7	74.2
Bituminous coal	407	378	407	390	363
Metal	88.4	91.7	92.8	91.0	90.6
Iron	33.8	33.7	33.7	32.7	32.6
Copper	26.6	26.6	26.7	25.7	25.7
Lead and zinc	12.0	15.0	16.2	16.5	16.3
Gold and silver	8.1	8.3	8.3	8.3	8.1
Miscellaneous	8.0	8.0	7.9	7.9	7.9
Quarrying and nonmetallic	87.4	86.8	86.8	88.9	88.6
Crude petroleum and natural gas production <u>3/</u>	137.1	136.6	133.5	131.0	130.8
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railroads <u>4/</u>	1,354	1,361	1,352	1,381	1,383
Street railways and busses <u>5/</u>	247	246	249	253	254
Telephone	647	644	633	616	614
Telegraph <u>6/</u>	35.1	36.0	36.1	37.8	38.2
Electric light and power	286	283	279	269	267
SERVICE:					
Hotels (year-round)	370	375	379	379	382
Power laundries <u>2/</u>	233	239	238	245	250
Cleaning and dyeing <u>2/</u>	89.7	92.6	94.7	93.1	97.7

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

1/ Unless otherwise noted, includes all nonsupervisory employees and working supervisors.

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			
	1946		1947		1948		1947	
	August	July	June	August	August	July	June	August
ALL MANUFACTURING	161.5	158.4	158.2	157.8	374.6	360.0	359.0	331.5
DURABLE GOODS	185.5	184.7	184.5	181.5	418.7	403.1	401.3	366.8
NONDURABLE GOODS	142.6	137.6	137.5	139.1	331.4	317.9	317.6	297.0
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS	164.5	161.4	162.4	161.0	361.1	336.9	340.5	316.8
Blast furnaces, steel works, and rolling mills	137.7	135.5	134.6	130.9	295.3	269.9	268.4	254.2
Gray-iron and semisteel castings	171.0	168.3	174.8	182.6	394.3	377.8	400.1	384.1
Malleable-iron castings	194.3	188.0	197.0	184.4	478.0	448.8	468.1	392.1
Steel castings	216.4	212.6	217.1	204.5	473.0	440.5	469.5	396.9
Cast-iron pipe and fittings	167.5	164.5	164.5	156.4	432.0	414.3	422.0	352.5
Tin cans and other tinware	154.1	148.8	140.8	149.8	364.3	353.2	310.8	334.9
Wire drawn from purchased rods	128.9	127.5	130.7	140.2	262.1	242.8	243.3	254.3
Wirework	139.3	137.6	132.4	132.5	326.0	315.1	295.7	271.6
Cutlery and edge tools	145.8	141.2	143.6	151.2	358.7	335.7	343.6	333.3
Tools (except edge tools, machine tools, files, and saws)	160.3	160.8	163.9	159.3	372.8	358.7	370.8	329.6
Hardware	140.6	138.3	139.7	135.6	327.7	303.8	318.6	291.8
Plumbers' supplies	153.7	147.8	153.7	146.7	338.1	316.7	329.0	278.6
Stoves, oil burners, and heating equipment, not elsewhere classified	170.8	157.9	160.2	175.8	395.5	352.0	359.9	355.9
Steam and hot-water heating apparatus and steam fittings	187.1	176.4	187.4	189.8	423.2	397.2	409.5	365.8
Stamped and enameled ware and galvanizing	184.2	186.1	187.6	189.1	443.9	428.9	439.3	415.0
Fabricated structural and ornamental metalwork	171.6	167.1	167.9	169.6	364.8	329.0	345.2	339.3
Metal doors, sash, frames, molding, and trim	139.5	134.2	133.7	130.6	324.7	292.9	309.1	266.4
Bolts, nuts, washers, and rivets	182.8	184.5	187.3	186.6	423.9	401.0	412.8	367.3
Forgings, iron and steel	215.2	214.5	213.3	221.0	475.0	449.6	454.1	419.0
Wrought pipe, welded and heavy-riveted	220.7	222.1	225.1	198.6	494.6	473.0	467.3	388.7
Screw-machine products and wood screws	193.0	195.3	199.1	196.3	427.0	426.8	436.9	402.6
Steel barrels, kegs, and drums	125.6	122.4	121.7	128.4	337.4	301.4	313.3	317.6
Firearms	400.3	403.0	402.6	343.3	926.1	952.7	945.9	734.8
ELECTRICAL MACHINERY <u>1/</u>	207.7	206.6	211.1	219.6	454.8	436.3	440.0	428.1
Electrical equipment	199.2	198.3	201.3	207.5	434.7	418.3	419.2	405.2
Radios and phonographs	197.6	195.3	202.3	220.0	468.9	456.9	458.6	459.7
Communication equipment	269.5	268.1	278.2	287.3	550.6	513.4	534.8	523.8

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
	August	July	June	August	August	July	June	August
MACHINERY, EXCEPT ELECTRICAL	225.8	226.9	230.4	226.8	477.8	469.5	480.7	434.5
Machinery and machine-shop products	233.0	234.8	237.5	238.4	500.9	489.3	500.7	462.1
Engines and turbines	275.8	280.6	279.5	287.0	598.2	584.5	601.4	597.2
Tractors	188.1	191.8	193.0	178.0	356.1	366.4	355.5	306.5
Agricultural machinery, excluding tractors	254.0	262.2	267.4	232.8	558.3	573.3	595.4	471.5
Machine tools	130.5	127.7	128.4	143.2	249.3	288.7	242.9	253.6
Machine-tool accessories	213.2	200.4	214.5	218.5	400.1	361.1	383.5	362.9
Textile machinery	192.1	188.6	191.6	166.1	460.0	437.9	459.1	330.2
Pumps and pumping equipment	264.1	266.5	272.3	294.7	585.1	585.2	596.5	609.6
Typewriters	136.3	140.8	145.9	145.8	297.5	318.7	325.2	309.6
Cash registers; adding, and calculating machines	227.4	229.5	232.9	208.3	494.6	506.2	505.9	405.2
Washing machines, wringers, and driers, domestic	208.3	209.5	220.0	202.2	468.4	438.5	480.9	393.3
Sewing machines, domestic and industrial	183.0	179.4	178.6	153.7	488.2	458.5	444.2	323.2
Refrigerators and refrigeration equipment	236.3	239.5	241.3	223.7	490.1	485.2	508.9	408.7
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	261.4	270.6	273.7	255.0	547.7	552.4	561.2	492.4
Locomotives	265.6	407.4	406.5	377.2	599.4	907.3	913.7	811.9
Cars, electric- and steam-railroad	222.8	222.3	224.4	222.8	516.9	467.9	492.5	436.3
Aircraft and parts, excluding aircraft engines	336.4	328.5	321.5	329.3	698.4	661.1	649.2	637.6
Aircraft engines	243.2	287.4	290.8	299.9	453.7	533.1	517.5	486.7
Shipbuilding and boatbuilding	144.8	149.8	157.2	125.8	291.6	305.3	321.7	241.8
Motorcycles, bicycles, and parts	166.1	154.7	177.5	195.3	372.2	300.2	345.7	392.8
AUTOMOBILES	189.4	195.4	163.6	184.1	422.1	428.4	385.7	345.1
NONFERROUS METALS AND THEIR PRODUCTS 1/	172.4	169.2	173.9	172.8	379.3	360.6	368.2	335.3
Smelting and refining, primary, of nonferrous metals	150.0	151.7	151.8	144.4	345.7	338.6	329.7	292.4
Alloying; and rolling and drawing of nonferrous metals, except aluminum	135.5	133.7	135.5	137.6	295.6	284.3	278.3	250.9
Clocks and watches	135.3	127.8	139.5	134.2	334.9	304.5	332.2	293.1
Jewelry (precious metals) and jewelers' findings	182.3	178.4	182.1	177.0	365.9	345.7	372.5	321.2
Silverware and plated ware	228.0	218.3	225.5	205.7	528.2	481.8	527.4	441.7
Lighting equipment	152.0	147.6	150.8	172.3	330.1	317.0	305.9	318.5
Aluminum manufactures	167.2	166.0	179.5	174.0	331.8	315.6	338.5	311.8
Sheet-metal work, not elsewhere classified	200.2	197.2	193.9	206.2	459.9	438.4	438.1	431.2

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
	August	July	June	August	August	July	June	August
LUMBER AND TIMBER BASIC PRODUCTS 1/	200.8	196.9	190.0	177.3	538.8	502.9	488.5	429.7
Sawmills and logging camps 2/	220.7	217.2	208.7	195.9	604.6	563.3	543.3	485.2
Planing and plywood mills	192.0	186.6	184.2	165.4	485.6	456.3	456.1	376.5
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	140.5	137.8	139.8	140.1	339.7	320.4	326.0	311.6
Mattresses and bedsprings	171.7	161.9	163.0	163.0	385.5	354.1	347.9	342.8
Furniture	139.7	137.4	139.4	137.4	337.3	317.7	325.7	302.2
Wooden boxes, other than cigar	123.6	125.6	125.6	133.3	334.1	318.6	325.7	323.4
Caskets and other morticians' goods	139.0	135.6	139.7	147.7	287.8	273.4	283.4	288.3
Wood preserving	140.7	137.7	133.6	159.6	377.0	373.5	358.1	429.0
Wood, turned and shaped	142.5	137.8	144.0	136.1	339.0	318.3	322.8	298.7
STONE, CLAY, AND GLASS PRODUCTS	157.0	153.2	156.0	151.2	359.4	335.5	347.1	315.5
Glass and glassware	162.1	155.6	163.2	165.7	356.6	316.8	348.5	334.1
Glass products made from purchased glass	120.4	124.4	123.2	120.2	272.7	258.8	267.7	246.4
Cement	156.1	156.4	154.5	151.1	331.9	328.7	323.5	297.0
Brick, tile, and terra cotta	140.1	137.5	138.0	129.4	349.2	335.1	329.9	289.1
Pottery and related products	172.7	164.4	170.2	165.9	374.8	336.6	355.2	330.4
Gypsum	135.8	136.4	134.0	123.5	331.4	307.5	306.1	260.4
Wallboard, plaster (except gypsum), and mineral wool	156.8	156.7	154.9	145.3	420.3	426.5	412.9	353.9
Lime	99.1	99.4	98.3	97.0	281.3	268.9	270.7	243.3
Marble, granite, slate, and other products	101.7	101.0	99.6	99.4	192.0	184.9	185.9	176.4
Abrasives	232.5	237.2	230.4	208.8	492.2	488.4	502.4	375.6
Asbestos products	136.9	131.6	136.7	129.9	343.0	327.5	334.5	301.7
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	111.4	108.7	113.2	105.1	298.0	285.4	304.6	246.2
Cotton manufactures, except smallwares	124.4	121.6	126.1	118.1	356.5	341.3	365.9	305.7
Cotton smallwares	95.9	95.1	99.4	93.3	226.7	226.0	238.0	195.4
Silk and rayon goods	89.1	85.4	89.0	80.2	274.0	257.1	271.5	208.5
Woolen and worsted manufactures, except dyeing and finishing	107.4	106.0	110.3	103.3	297.1	294.9	311.5	233.6
Hosiery	79.4	74.8	80.5	76.3	188.3	171.1	185.6	158.6
Knitted cloth	97.0	96.5	96.8	94.2	229.0	223.9	223.2	204.1
Knitted outerwear and knitted gloves	98.9	94.6	103.6	94.0	226.6	212.0	242.2	200.6
Knitted underwear	114.2	114.4	118.1	110.5	290.8	283.4	301.8	258.0
Dyeing and finishing textiles, including woolen and worsted	120.5	119.6	122.5	114.9	287.1	278.4	297.8	248.7
Carpets and rugs, wool	137.5	137.4	137.6	119.7	354.2	342.1	345.4	246.3
Hats, fur-felt	86.4	80.0	87.0	86.3	199.8	174.3	197.4	171.4
Jute goods, except felts	114.0	112.3	114.2	78.1	281.5	272.4	277.5	162.0
Cordage and twine	120.4	123.7	127.0	116.5	285.7	287.6	306.5	256.0

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
	August	July	June	August	August	July	June	August
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	146.9	135.6	138.6	135.6	343.4	303.6	303.6	288.4
Men's clothing, not elsewhere classified	138.6	129.1	136.9	128.3	323.5	294.1	312.9	264.8
Shirts, collars, and nightwear	106.3	102.5	108.2	101.6	256.2	246.6	258.5	225.5
Underwear and neckwear, men's	105.1	98.5	107.4	97.9	293.8	269.6	289.1	240.7
Work shirts	131.4	131.3	131.8	110.7	334.8	326.4	333.9	263.6
Women's clothing, not elsewhere classified	167.9	152.7	152.1	153.9	381.7	326.6	310.7	323.1
Corsets and allied garments	97.1	90.8	96.5	93.4	213.1	197.8	210.8	194.7
Millinery	97.6	86.4	78.2	92.6	198.7	164.7	132.0	171.2
Handkerchiefs	93.6	77.7	96.6	90.6	236.2	181.3	231.0	210.6
Curtains, draperies, and bedspreads	164.4	141.6	148.5	153.9	392.0	317.6	335.1	334.7
Housefurnishings, other than curtains, etc.	270.9	251.4	249.9	263.5	632.3	573.0	587.3	573.5
Textile bags	229.2	222.9	214.8	216.5	521.9	498.3	471.1	443.6
LEATHER AND LEATHER PRODUCTS 1/	110.7	108.3	107.4	111.1	249.0	236.9	233.4	235.8
Leather	95.3	94.3	95.7	98.1	207.3	203.6	205.2	202.5
Boot and shoe cut stock and findings	90.7	88.6	88.9	96.3	189.5	178.6	179.9	189.8
Boots and shoes	106.4	104.0	102.5	106.4	244.0	231.1	225.3	230.9
Leather gloves and mittens	132.1	127.8	128.8	126.8	285.4	267.4	273.6	242.3
Trunks and suitcases	166.0	159.6	159.3	153.1	376.2	339.5	339.5	309.1
FOOD	165.5	159.4	147.1	168.8	350.2	351.4	328.3	349.3
Slaughtering and meat packing	135.6	138.8	137.8	135.5	275.4	296.9	306.9	270.0
Butter	188.2	195.4	201.2	188.0	415.0	429.5	429.8	391.3
Condensed and evaporated milk	199.8	205.9	211.2	208.8	488.5	506.3	520.3	446.0
Ice cream	179.2	184.9	179.1	185.9	345.5	363.2	341.5	346.0
Flour	141.8	143.4	139.1	141.6	343.5	343.5	317.3	336.1
Feeds, prepared	169.4	168.5	166.5	173.1	401.7	397.2	391.7	364.1
Cereal preparations	164.3	164.5	155.2	169.7	344.2	374.8	353.7	361.2
Baking	119.2	118.9	118.0	114.5	247.4	247.6	245.4	218.4
Sugar refining, cane	131.7	134.6	115.4	131.2	303.6	313.7	244.7	284.2
Sugar, beet	73.3	62.0	60.2	90.2	146.9	128.0	123.0	186.7
Confectionery 2/	114.4	100.5	103.7	112.8	268.2	229.0	235.1	233.4
Beverages, nonalcoholic	184.2	187.0	172.2	166.4	309.3	343.3	304.2	298.0
Malt liquors	195.0	196.1	185.0	187.9	376.9	391.8	351.0	365.1
Canning and preserving	194.6	163.8	111.7	232.7	471.2	421.2	282.9	653.7
TOBACCO MANUFACTURES 1/	92.5	88.8	90.6	91.6	218.3	205.5	205.8	203.0
Cigarettes	125.8	122.4	121.2	120.0	288.3	270.0	263.1	248.5
Cigars	78.9	74.7	78.1	79.8	180.9	171.1	175.8	179.4
Tobacco (chewing and smoking) and snuff	77.2	75.6	76.1	79.3	173.3	164.1	166.7	169.9

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
	August	July	June	August	August	July	June	August
PAPER AND ALLIED PRODUCTS <u>1/</u>	147.4	146.1	146.9	145.7	349.6	341.7	337.8	307.2
Paper and pulp	150.0	149.4	148.2	145.0	363.6	357.7	347.7	317.3
Paper goods, other	155.5	160.2	163.6	160.8	347.4	355.3	358.4	313.8
Envelopes	141.9	140.9	144.0	136.0	288.2	272.9	284.0	258.8
Paper bags	159.2	156.3	157.8	161.6	392.7	380.0	364.4	337.6
Paper boxes	136.7	131.0	133.9	137.9	318.6	294.9	304.8	280.1
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	131.8	131.1	132.3	132.3	264.8	260.1	264.9	240.0
Newspapers and periodicals	124.4	123.7	123.8	120.5	240.6	235.5	238.1	214.0
Printing; book and job	143.5	143.4	144.5	144.4	297.6	296.0	299.3	267.3
Lithographing	119.0	118.9	118.3	124.0	232.8	223.5	230.3	215.7
Bookbinding	134.0	129.5	136.3	148.7	304.2	290.1	310.0	311.9
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	203.3	196.6	199.2	195.3	450.6	432.7	434.9	390.2
Paints, varnishes, and colors	175.7	173.6	173.6	165.1	345.1	343.0	335.6	297.6
Drugs, medicines, and insecticides	232.1	230.2	231.1	240.5	485.3	480.6	486.7	469.7
Perfumes and cosmetics	118.9	104.8	105.0	116.5	238.7	205.5	213.7	211.2
Soap	165.3	157.6	155.4	157.0	368.5	344.3	343.1	325.0
Rayon and allied products	134.3	133.2	133.0	126.4	302.7	289.6	280.2	252.2
Chemicals, not elsewhere classified	302.1	288.9	296.9	294.2	629.1	600.4	613.6	552.0
Explosives and safety fuses	380.7	376.1	365.7	319.7	798.3	760.2	737.6	594.5
Compressed and liquefied gases	253.1	252.1	254.2	253.2	512.0	518.2	505.4	448.1
Ammunition, small-arms	173.9	180.2	181.5	103.8	403.1	420.8	411.2	206.5
Fireworks	238.0	190.2	212.2	177.5	640.1	507.0	572.5	447.7
Cottonseed oil	93.8	82.0	83.0	85.9	261.7	230.1	228.3	221.6
Fertilizers	142.7	135.6	144.4	146.1	410.1	396.7	414.5	388.2
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	160.3	160.7	160.3	157.0	358.2	353.4	342.2	302.1
Petroleum refining	158.3	159.8	159.2	156.3	345.5	344.9	330.8	289.4
Coke and byproducts	148.4	146.7	145.9	134.7	348.0	329.5	330.1	285.6
Paving materials	111.8	107.7	107.1	133.9	258.9	246.3	235.0	273.2
Roofing materials	219.4	215.5	218.2	224.9	548.7	531.9	523.3	502.5

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
	August	July	June	August	August	July	June	August
RUBBER PRODUCTS <u>1/</u>	160.9	157.7	161.6	167.9	347.2	329.7	330.2	337.6
Rubber tires and inner tubes	168.7	167.6	169.4	193.0	341.0	329.8	322.0	355.5
Rubber boots and shoes	148.3	139.4	146.9	127.2	344.1	321.7	329.7	268.4
Rubber goods, other	156.3	152.7	157.5	153.5	358.3	331.9	343.7	321.5
MISCELLANEOUS INDUSTRIES <u>1/</u>	180.1	173.9	175.7	177.7	397.4	374.2	386.7	355.9
Instruments (professional and scientific), and fire-control equipment	248.7	247.4	244.5	243.4	508.3	487.2	491.0	460.3
Photographic apparatus <u>2/</u>	224.5	220.9	216.6	216.5	444.1	443.8	438.8	385.1
Optical instruments and ophthalmic goods	208.8	201.0	215.6	231.8	415.2	393.1	421.6	426.5
Pianos, organs, and parts	177.4	164.0	173.7	187.2	374.3	339.8	362.7	384.8
Games, toys, and dolls	234.2	219.3	214.8	200.1	557.8	513.1	510.6	426.2
Buttons	116.2	111.2	114.8	101.9	275.3	254.0	271.7	220.7
Fire extinguishers	269.1	271.8	270.6	277.3	566.7	573.0	595.6	583.7

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

1/ See footnote 1, table 8.

2/ Revisions have been made as follows in the pay-roll indexes for May 1948:

Sawmills and logging camps - 496.8.

Confectionery - 213.9.

Photographic apparatus - 409.7.

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
	August	July	June	August	August	July	June	August
MINING:								
Coal:								
Anthracite	92.8	91.1	92.6	91.7	259.4	192.7	246.0	244.0
Bituminous coal	109.5	101.7	109.6	105.0	366.8	293.8	344.2	314.7
Metal	95.5	99.1	100.2	98.3	209.8	202.2	208.2	193.3
Iron	159.9	159.6	159.6	154.6	355.6	333.1	345.0	313.0
Copper	106.5	106.6	106.9	102.8	255.3	242.4	232.9	219.0
Lead and zinc	74.0	92.2	99.7	101.4	189.1	193.2	238.1	220.5
Gold and silver	30.9	32.0	31.9	31.8	54.2	55.2	54.2	52.1
Miscellaneous	190.0	191.3	188.6	188.3	387.5	383.0	360.7	345.0
Quarrying and nonmetallic	127.7	126.7	126.8	129.8	340.7	322.3	321.7	317.2
Crude petroleum and natural gas production	119.8	119.4	116.7	114.5	251.0	240.8	227.1	204.0
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railroads ^{1/}	137.1	137.9	136.9	139.8	^{2/}	^{2/}	^{2/}	^{2/}
Street railways and busses	127.5	127.2	128.3	130.7	235.2	232.2	231.2	225.2
Telephone	203.7	202.8	199.4	193.8	331.3	336.1	327.1	306.2
Telegraph	93.3	95.7	96.0	100.5	225.5	233.2	228.5	213.5
Electric light and power	117.1	115.8	114.1	110.2	204.9	202.8	196.4	182.9
TRADE: ^{3/}								
Wholesale	117.0	116.2	115.3	112.2	220.6	215.3	211.8	198.2
Retail	111.2	112.0	113.6	110.0	218.1	218.3	218.3	197.6
Food	112.3	113.8	115.5	114.7	229.0	232.9	231.9	212.2
General merchandise	120.6	121.3	124.8	115.7	231.2	233.6	236.5	212.0
Apparel	105.1	108.0	115.4	103.4	195.5	202.1	214.3	182.9
Furniture and housefurnishings	90.2	90.5	91.2	85.9	178.5	176.7	179.6	155.1
Automotive	111.1	109.8	108.4	105.1	219.6	213.4	209.6	188.5
Lumber and building materials	129.6	128.2	126.3	123.1	264.6	257.3	252.8	229.0
SERVICE:								
Hotels (year-round) ^{4/}	114.6	116.2	117.6	117.6	233.9	234.4	236.3	221.0
Power laundries	119.0	122.1	121.5	125.0	228.1	240.6	238.3	231.3
Cleaning and dyeing	154.2	159.2	162.9	160.1	286.9	308.0	324.8	285.0

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 principal 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 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 finance and service 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 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. Excluding about 9,000 block-sample returns, the approximate number of establishments, and workers covered, for each of the industry divisions are as follows:

Approximate Coverage of BLS Employment and Pay-Roll Sample

Industry Division	: Number : Employees or production		Percent of total
	: of estab- lishments	: workers	
Manufacturing	34,200	7,503,000	59
Mining	2,800	361,000	53
Contract construction	14,000	492,000	25
Public utilities	7,200	912,000	77
Trade:			
Wholesale	12,400	343,000	19
Retail	35,000	935,000	22
Service:			
Hotels (year-round)	1,200	133,000	35
Power laundries and cleaning and dyeing	1,600	68,000	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 viii.

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 benchmark data than others, and because varying methods of computation are used, the total of the State estimates differs from the national total (see tables 1 and 2). Because of these recent revisions the State estimates for manufacturing are not consistent with the unrevised data shown prior to June 1947 for total employment in nonagricultural establishments, by State. 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. These totals 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.

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.
Louisiana - Div. of Employment Security, Dept. of Labor, Baton Rouge 4.
Maine - Unemployment Compensation Commission, Augusta.
Maryland - Dept. of Labor and Industry, 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 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 (Manufacturing); Bureau of Research and Information, Dept. of Labor and Industry, Harrisburg (Nonmanufacturing).
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, 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 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) seaman 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 table 1 exclude fourth-class postmasters because they presumably have other major jobs.

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

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

Indexes of production-worker 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 and pay rolls - Data are for personnel on active duty. Reserve personnel are excluded if on inactive duty or if on active duty for a brief training or emergency period. Personnel is as of the first of the month and pay rolls are for the entire month. Through October 1, 1947, discharged officer personnel were included until the end of their terminal-leave period; discharged enlisted personnel were included from October 1, 1946 through October 1, 1947 only. After October 1, 1947, lump-sum terminal-leave payments at time of discharge (authorized by Public Law 350 of the 80th Congress) were made.

Coast Guard pay rolls for all periods and Army pay rolls through April 1947 represent actual expenditures. Other pay rolls represent estimated obligations based on an average monthly personnel count. 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 mining industries further deductions are made for explosives or other supplies furnished by the company. In coal mining portal-to-portal pay is included. Federal civilian pay rolls are for all employees before deductions for income tax, retirement, and bonds.

Production and related workers - Includes working foremen and all 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, auxilliary 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.