

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
OCTOBER 1948**

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

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ESTIMATES OF MANUFACTURING PRODUCTION WORKERS - REVISED SERIES

Industries in Selected Major Industry Groups

In this Detailed Report the Bureau presents revised series of production-worker estimates for the individual industries comprising the major industry groups listed below. The new estimates 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. Only data beginning with January 1946 are affected by this latest revision.

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.

Iron and steel and their products:

- Gray-iron and semisteel castings
- Steel castings
- Hardware
- Stoves, oil burners, and heating equipment, not elsewhere classified
- Steam and hot-water heating apparatus and steam fittings
- Stamped and enameled ware and galvanizing
- Fabricated structural and ornamental metalwork

Stone, clay, and glass products:

- Glass and glassware
- Glass products made from purchased glass
- Cement
- Brick, tile, and terra cotta
- Pottery and related products
- Gypsum
- Wallboard, plaster (except gypsum), and mineral wool
- Lime
- Abrasives
- Asbestos products

This report shows the revised 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	
	October	September	August	October	September
TOTAL	45,872	45,875	45,478	44,758	44,513
Manufacturing	16,576	16,683	16,441	16,209	16,175
Mining	941	948	952	922	921
Contract construction	2,197	2,239	2,253	2,099	2,107
Transportation and public utilities	4,090	4,092	4,139	4,097	4,134
Trade	9,889	9,733	9,660	9,684	9,471
Finance	1,723	1,732	1,761	1,671	1,668
Service	4,667	4,647	4,622	4,662	4,634
Government	5,789	5,801	5,650	5,414	5,403

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	
	October	September	August	October	September
ALL MANUFACTURING	16,576	16,683	16,441	16,209	16,175
DURABLE GOODS	8,306	8,280	8,188	8,126	8,070
Iron and steel and their products	1,955	1,945	1,928	1,896	1,892
Electrical machinery	731	725	716	763	752
Machinery, except electrical	1,570	1,569	1,564	1,565	1,560
Transportation equipment, except automobiles	586	572	542	552	540
Automobiles	967	971	953	964	960
Nonferrous metals and their products	473	469	465	472	468
Lumber and timber basic products	917	930	930	827	821
Furniture and finished lumber products	562	558	552	565	557
Stone, clay, and glass products	545	541	538	522	520
NONDURABLE GOODS	8,270	8,403	8,253	8,083	8,105
Textile-mill products and other fiber manufactures	1,372	1,384	1,397	1,368	1,341
Apparel and other finished textile products	1,351	1,348	1,329	1,287	1,251
Leather and leather products	422	425	429	438	435
Food	1,924	2,069	1,957	1,833	1,964
Tobacco manufactures	103	101	99	103	100
Paper and allied products	490	487	479	476	470
Printing, publishing, and allied industries	736	725	720	720	713
Chemicals and allied products	789	785	775	773	763
Products of petroleum and coal	238	245	246	237	238
Rubber products	247	246	245	257	252
Miscellaneous industries	598	588	577	591	578

See explanatory notes, sections A-E, 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	
	October	September	August	October	September
MINING	941	948	952	922	921
Anthracite	82	82	83	81	81
Bituminous coal	422	426	426	415	412
Metal	103	100	99	99	100
Quarrying and nonmetallic	96	98	98	97	98
Crude petroleum and natural gas production <u>1/</u>	238	242	246	230	230
TRANSPORTATION AND PUBLIC UTILITIES	4,090	4,092	4,139	4,097	4,134
Transportation	2,835	2,832	2,869	2,899	2,929
Communication	740	741	747	707	713
Other public utilities	515	519	523	491	492
GOVERNMENT	5,789	5,801	5,650	5,414	5,403
Federal	1,875	1,873	1,855	1,744	1,761
State and local	3,914	3,928	3,795	3,670	3,642

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
	October	September	August	October	October	September	August	October
All Areas								
TOTAL FEDERAL	2,102.7	2,108.3	2,094.6	2,002.4	\$533,089	\$552,507	\$545,640	\$481,401
Executive	2,063.6	2,068.7	2,055.4	1,952.0	523,190	542,658	535,742	471,938
Defense agencies	931.9	933.2	924.6	901.2	225,165	235,730	229,236	203,892
Post Office Department	485.1	481.6	476.4	425.0	121,762	121,908	122,320	99,713
Other agencies	646.6	653.9	654.4	635.8	176,263	185,020	184,186	168,333
Legislative	7.4	7.4	7.3	7.1	2,656	2,694	2,695	2,457
Judicial	3.5	3.5	3.5	3.5	1,454	1,453	1,390	1,334
Government corporations	28.2	28.7	28.4	29.8	5,789	5,702	5,813	5,672
Continental United States								
TOTAL FEDERAL	1,895.6	1,893.3	1,875.1	1,764.4	493,461	509,588	504,040	443,408
Executive	1,863.0	1,860.7	1,842.5	1,731.4	484,217	500,391	494,839	434,545
Defense agencies	762.7	756.5	742.9	699.8	194,562	202,274	197,058	173,717
Post Office Department	483.4	480.0	474.8	423.5	121,332	121,479	121,906	99,356
Other agencies	616.9	624.2	624.8	608.1	168,323	176,638	175,875	161,472
Legislative	7.4	7.4	7.3	7.1	2,656	2,694	2,695	2,457
Judicial	3.4	3.4	3.4	3.4	1,413	1,414	1,351	1,297
Government corporations	21.8	21.8	21.9	22.5	5,175	5,089	5,155	5,109
Washington, D. C.								
TOTAL GOVERNMENT	232.6	235.1	234.3	221.2	70,891	73,633	71,359	64,467
D. C. government	18.6	18.9	18.9	18.3	4,452	4,606	3,480	4,496
Federal	214.0	216.2	215.4	202.9	66,439	69,027	67,879	59,971
Executive	208.0	208.2	207.5	195.2	63,555	66,104	64,956	57,298
Defense agencies	70.7	70.8	70.2	64.5	21,028	21,987	21,114	16,806
Post Office Department	7.6	7.5	7.5	7.3	2,765	2,772	2,695	2,744
Other agencies	129.7	129.9	129.8	123.4	39,762	41,395	41,147	37,748
Legislative	7.4	7.4	7.3	7.1	2,656	2,694	2,695	2,457
Judicial	.6	.6	.6	.6	228	229	228	216

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	
	October	September	August	October	September
PERSONNEL, TOTAL	1,584	1,548	1,514	1,543	1,557
Army	636	609	579	941	955
Air Force	406	401	400	21	21
Navy	438	432	430	491	491
Marine Corps	84	86	86	92	92
Coast Guard	21	21	21	19	19
Men	1,571	1,535	1,501	1,525	1,539
Women	13	13	14	18	18
PAY, TOTAL	\$294,813	\$292,040	\$278,234	\$355,961	\$332,804
<u>By branch:</u>					
Army and Air Force	183,593	184,162	171,556	214,578	194,535
Navy	91,927	88,556	87,715	119,898	116,810
Marine Corps	14,636	14,610	14,404	16,684	16,218
Coast Guard	4,657	4,713	4,560	4,802	5,240
<u>By type of pay:</u>					
Pay rolls	259,175	251,398	244,547	271,040	248,928
Mustering-out pay	5,787	9,292	3,955	9,954	9,632
Family allowances	28,253	28,115	27,756	25,145	24,210
Leave payments	1,598	3,235	1,976	49,822	50,034
Cash	366	620	416	6,430	6,054
Bonds	1,231	2,615	1,560	43,392	43,980

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 are 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	
	September	August	July	September	August
Arizona	154	153	153	* 145	* 143
Connecticut	770	760	761	773	765
Georgia	743	742	731	738	734
Illinois	3,218	3,195	3,185	3,142	3,122
Indiana	1,236	1,203	1,205	* 1,222	* 1,187
Maine	275	280	276	272	273
Maryland	722	717	708	678	671
Massachusetts	1,735	1,726	1,714	1,709	1,688
Minnesota	825	823	813	798	788
Montana	143	142	141	137	136
Nevada 1/	46	50	50	49	49
New Jersey	1,605	1,601	1,591	1,574	1,562
New Mexico	129	128	127	120	119
New York	5,501	5,461	5,405	5,461	5,405
Pennsylvania	3,660	3,627	3,609	3,573	3,538
Rhode Island	288	285	286	286	278
Tennessee	756	754	743	704	698
Texas	1,754	1,746	1,740	1,665	1,657
Utah	189	178	179	184	175
Vermont 1/	95	96	95	96	96
Washington	688	677	674	672	668
Wisconsin	1,018	1,007	1,016	998	987

See explanatory notes, sections H and I.

1/ Does not include contract construction.

* Interim months have been revised as follows:

Arizona - October 1947 through June 1948 to 146, 148, 153, 152, 152, 153, 153, 153, and 153.

Indiana - October 1947 through June 1948 to 1,207, 1,205, 1,221, 1,186, 1,180, 1,191, 1,183, 1,197, and 1,207.

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

(In thousands)

Region and State	1948			1947	
	September	August	July	September	August
NEW ENGLAND:					
Maine <u>1/</u>	117.9	120.2	116.5	119.6	119.4
New Hampshire	82.1	83.6	82.1	82.1	80.7
Vermont <u>1/</u>	37.0	37.8	37.0	39.2	39.1
Massachusetts	731.3	725.6	710.0	732.5	720.4
Rhode Island	144.7	144.1	144.8	148.1	143.0
Connecticut <u>1/</u>	397.1	392.1	393.3	409.2	406.0
MIDDLE ATLANTIC:					
New York	1,888.5	1,869.6	1,816.5	1,900.1	1,870.8
New Jersey	751.4	743.9	732.8	749.2	735.9
Pennsylvania	1,508.1	1,498.0	1,481.2	1,504.5	1,490.7
EAST NORTH CENTRAL:					
Ohio	1,230.6	1,224.5	1,216.4	1,243.8	1,238.1
Indiana	569.6	542.7	544.1	580.0	572.3
Illinois	1,243.8	1,231.0	1,227.4	1,249.0	1,237.8
Michigan	1,004.9	987.8	996.8	1,023.3	1,004.6
Wisconsin <u>1/</u>	445.9	434.5	447.9	452.0	446.6
WEST NORTH CENTRAL:					
Minnesota <u>1/</u>	210.2	210.0	206.6	210.6	206.8
Iowa <u>1/</u>	153.9	153.0	152.1	152.3	151.3
Missouri <u>1/</u>	347.3	349.1	345.7	348.7	348.9
North Dakota	6.8	6.9	7.0	6.7	6.9
South Dakota	11.6	11.7	11.8	11.3	11.5
Nebraska	42.4	43.1	43.6	43.1	43.2
Kansas	84.7	84.5	83.9	79.4	80.0
SOUTH ATLANTIC:					
Delaware	48.9	48.2	46.6	48.2	48.4
Maryland	242.4	239.2	232.8	232.4	228.2
District of Columbia	17.0	16.7	17.2	17.5	17.3
Virginia	216.3	214.5	211.5	214.5	211.5
West Virginia	132.9	133.7	133.3	132.8	132.5
North Carolina	375.4	378.9	362.9	368.1	366.6
South Carolina	194.3	196.9	195.8	192.3	192.0
Georgia <u>1/</u>	280.1	280.7	274.3	281.6	278.3
Florida <u>1/</u>	89.9	88.2	88.0	88.6	86.8

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

(In thousands)

Region and State	1948			1947	
	September	August	July	September	August
EAST SOUTH CENTRAL:					
Kentucky	128.1	127.4	126.8	128.2	125.8
Tennessee <u>1/</u>	256.2	258.9	255.6	252.6	252.0
Alabama <u>1/</u>	227.1	228.3	228.9	225.4	220.3
Mississippi	87.4	90.6	91.3	95.0	95.3
WEST SOUTH CENTRAL:					
Arkansas <u>1/</u>	77.5	77.6	75.6	81.2	82.9
Louisiana <u>1/</u>	155.9	155.9	148.2	149.5	150.3
Oklahoma <u>1/</u>	67.2	66.9	66.7	64.1	64.0
Texas	350.1	353.6	352.9	337.9	341.3
MOUNTAIN:					
Montana	18.1	18.0	18.1	18.1	18.2
Idaho <u>1/</u>	24.8	20.1	20.6	22.6	23.8
Wyoming	6.8	6.8	6.8	6.8	6.8
Colorado	58.4	56.9	56.5	57.9	56.6
New Mexico <u>1/</u>	10.4	10.5	10.4	9.1	9.3
Arizona <u>1/</u> <u>2/</u>	14.0	15.2	15.3	13.8	13.4
Utah	31.1	27.4	28.7	30.1	26.3
Nevada <u>1/</u>	3.5	3.6	3.4	3.4	3.4
PACIFIC:					
Washington	190.5	183.1	179.9	186.7	185.0
Oregon	121.5	121.2	117.3	122.2	122.4
California	799.6	770.9	741.3	744.8	760.2

See explanatory notes, sections H and I.

1/ Series based on Standard Industrial Classification.

2/ Interim months have been revised as follows:

Arizona - April 1948 through June 1948 to 15.1, 15.3, and 15.5.

10.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1948			1947	
	October	September	August	October	September
ALL MANUFACTURING	13,367	13,477	13,245	13,143	13,125
DURABLE GOODS	6,813	6,792	6,709	6,681	6,630
NONDURABLE GOODS	6,554	6,685	6,536	6,462	6,495
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	1,657	1,648	1,631	1,609	1,604
Blast furnaces, steel works, and rolling mills	535.0	535.1	535.8	505.1	505.1
Gray-iron and semisteel castings	115.6	114.9	112.3	118.9	118.1
Malleable-iron castings	38.5	38.6	37.4	36.1	35.6
Steel castings	75.0	74.7	73.1	69.6	69.6
Cast-iron pipe and fittings	29.3	29.4	29.5	28.1	27.8
Tin cans and other tinware	48.7	50.1	49.1	47.0	48.4
Wire drawn from purchased rods	29.1	28.6	28.4	31.0	30.5
Wirework	42.4	42.8	42.4	40.6	41.1
Cutlery and edge tools	24.3	23.9	22.5	24.5	23.9
Tools (except edge tools, machine tools, files, and saws)	24.6	24.7	24.6	25.0	24.6
Hardware	53.9	53.5	53.0	52.9	51.8
Plumbers' supplies	42.4	41.3	40.4	38.7	38.4
Stoves, oil burners, and heating equipment, not elsewhere classified	93.4	92.1	88.5	95.7	94.9
Steam and hot-water heating apparatus and steam fittings	66.4	65.3	63.9	64.9	64.4
Stamped and enameled ware and galvanizing	116.5	114.3	114.9	121.2	120.6
Fabricated structural and ornamental metalwork	66.3	65.0	64.2	62.9	63.3
Metal doors, sash, frames, molding, and trim	11.2	11.0	10.9	10.5	10.3
Bolts, nuts, washers, and rivets	28.3	28.1	27.9	27.8	28.3
Forgings, iron and steel	37.4	36.9	35.3	36.7	36.3
Wrought pipe, welded and heavy-riveted	19.8	19.7	19.7	18.4	17.8
Screw-machine products and wood screws	35.5	35.0	35.1	35.4	35.3
Steel barrels, kegs, and drums	7.9	8.0	8.1	8.0	8.2
Firearms	22.1	21.7	21.4	19.0	18.5
ELECTRICAL MACHINERY <u>1/</u>	553	548	538	588	578
Electrical equipment	367.4	368.7	363.9	388.0	384.7
Radios and phonographs	93.1	89.7	86.9	104.3	99.6
Communication equipment	92.4	89.7	87.5	95.6	93.6

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	
	October	September	August	October	September
MACHINERY, EXCEPT ELECTRICAL ^{1/}	1,209	1,208	1,202	1,214	1,209
Machinery and machine-shop products	506.7	509.0	502.2	516.6	516.5
Engines and turbines	52.9	50.5	51.5	53.3	53.5
Tractors	59.8	59.2	60.0	58.0	57.1
Agricultural machinery, excluding tractors	75.9	72.8	72.6	67.5	67.6
Machine tools	47.6	48.0	47.8	52.1	52.3
Machine-tool accessories	54.8	55.3	55.1	55.6	56.0
Textile-machinery	41.6	41.8	41.8	39.3	37.3
Pumps and pumping equipment	68.9	69.1	67.9	74.2	75.7
Typewriters	20.6	21.0	22.1	24.8	24.2
Cash registers; adding, and calculating machines	44.2	44.9	44.6	43.0	42.1
Washing machines, wringers, and driers, domestic	15.7	15.7	15.6	15.3	14.9
Sewing machines, domestic and industrial	14.8	14.6	14.3	12.6	12.1
Refrigerators and refrigeration equipment	81.1	81.8	82.3	79.7	79.1
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	449	439	414	427	414
Locomotives	26.6	26.5	17.2	25.9	25.1
Cars, electric- and steam-railroad	55.0	54.5	54.6	55.2	55.4
Aircraft and parts, excluding aircraft engines	145.3	138.5	133.5	132.8	129.7
Aircraft engines	27.5	26.7	21.6	26.2	26.6
Shipbuilding and boatbuilding	97.3	97.5	99.5	100.2	93.0
Motorcycles, bicycles, and parts	13.8	13.3	11.6	14.1	13.9
AUTOMOBILES	773	777	763	764	767
NONFERROUS METALS AND THEIR PRODUCTS ^{1/}	403	399	395	404	400
Smelting and refining, primary, of nonferrous metals	41.2	40.2	41.4	39.7	39.8
Alloying; and rolling and drawing of nonferrous metals, except aluminum	54.6	54.3	52.9	53.0	53.2
Clocks and watches	28.7	28.6	27.5	28.1	27.8
Jewelry (precious metals) and jewelers' findings	27.5	27.1	26.3	27.5	26.4
Silverware and plated ware	28.1	27.7	27.4	26.1	25.5
Lighting equipment	31.9	32.2	31.6	34.9	35.2
Aluminum manufactures	40.2	38.5	39.5	43.1	42.4
Sheet-metal work, not elsewhere classified	37.3	37.0	37.3	40.1	38.7

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	
	October	September	August	October	September
LUMBER AND TIMBER BASIC PRODUCTS <u>1/</u>	831	843	844	751	745
Sawmills and logging camps	678.2	691.4	692.1	616.3	613.3
Planing and plywood mills	152.8	152.1	152.5	134.5	132.0
FURNITURE AND FINISHED LUMBER PRODUCTS <u>1/</u>	470	466	461	475	466
Mattresses and bedsprings	37.1	36.8	35.2	37.2	35.4
Furniture	255.6	252.5	249.7	253.8	247.7
Wooden boxes, other than cigar	35.0	34.4	34.6	38.3	38.0
Caskets and other morticians' goods	19.2	19.5	19.4	20.7	20.8
Wood preserving	17.1	17.3	17.7	19.0	19.4
Wood, turned and shaped	34.4	34.2	34.6	33.6	33.4
STONE, CLAY, AND GLASS PRODUCTS <u>1/</u>	468	464	461	449	447
Glass and glassware	123.2	122.9	119.7	122.7	121.3
Glass products made from purchased glass	14.4	14.0	13.9	14.3	14.2
Cement	36.9	36.2	36.9	35.4	35.5
Brick, tile, and terra cotta	83.6	83.7	83.4	76.8	76.4
Pottery and related products	61.0	60.3	60.0	57.0	56.6
Gypsum	7.9	7.8	7.8	7.4	7.2
Wallboard, plaster (except gypsum), and mineral wool	14.8	14.7	14.7	14.3	14.3
Lime	10.7	10.8	10.8	10.6	10.8
Marble, granite, slate, and other products	19.1	19.0	19.0	18.4	18.5
Abrasives	20.6	20.5	20.7	19.3	19.8
Asbestos products	26.1	25.3	25.1	24.9	24.7
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES <u>1/</u>	1,249	1,261	1,274	1,249	1,223
Cotton manufactures, except smallwares	511.4	516.9	521.5	508.2	498.9
Cotton smallwares	13.4	13.4	13.5	13.7	13.4
Silk and rayon goods	122.4	122.1	121.5	113.4	110.8
Woolen and worsted manufactures, except dyeing and finishing	159.6	165.8	169.8	170.9	168.7
Hosiery	141.7	141.7	143.7	143.1	139.6
Knitted cloth	11.3	11.1	11.2	11.2	11.0
Knitted outerwear and knitted gloves	32.8	31.8	31.7	33.0	31.7
Knitted underwear	47.9	49.1	50.1	50.4	48.9
Dyeing and finishing textiles, including woolen and worsted	91.5	91.1	91.7	91.4	89.1
Carpets and rugs, wool	40.8	40.7	40.0	36.1	35.3
Hats, fur-felt	11.5	12.5	13.3	13.6	13.2
Jute goods, except felts	4.1	4.0	4.3	3.0	2.9
Cordage and twine	14.9	15.3	15.4	15.4	14.7

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	
	October	September	August	October	September
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	1,175	1,173	1,157	1,127	1,096
Men's clothing, not elsewhere classified	319.2	320.4	318.9	306.9	299.4
Shirts, collars, and nightwear	78.1	77.4	76.9	79.3	77.2
Underwear and neckwear, men's	18.8	18.1	17.9	17.3	17.1
Work shirts	18.9	18.2	18.6	15.8	15.9
Women's clothing, not elsewhere classified	488.8	490.3	478.8	462.3	452.1
Corsets and allied garments	19.3	19.0	18.6	18.8	18.1
Millinery	25.7	24.8	24.8	25.2	23.8
Handkerchiefs	5.3	5.0	4.9	5.1	5.0
Curtains, draperies, and bedspreads	27.4	27.9	28.6	30.6	28.7
Housefurnishings, other than curtains, etc.	32.1	31.4	30.4	31.6	30.6
Textile bags	29.7	29.2	28.9	28.1	27.8
LEATHER AND LEATHER PRODUCTS ^{1/}	376	379	383	393	390
Leather	47.7	48.0	47.7	50.2	49.8
Boot and shoe cut stock and findings	17.6	17.9	18.1	19.6	19.3
Boots and shoes	238.4	241.0	244.8	248.8	247.6
Leather gloves and mittens	12.8	13.0	13.2	13.1	12.8
Trunks and suitcases	14.6	14.3	13.8	14.4	13.5
FOOD ^{1/}	1,400	1,537	1,418	1,353	1,483
Slaughtering and meat packing	197.7	195.2	196.8	194.2	192.7
Butter	35.5	36.6	38.2	34.8	35.8
Condensed and evaporated milk	20.3	21.1	21.9	20.5	21.2
Ice cream	26.2	29.6	31.8	27.8	31.4
Flour	41.1	41.5	42.3	42.0	40.9
Feeds, prepared	29.2	29.3	29.5	28.9	29.6
Cereal preparations	13.2	13.2	13.8	12.8	14.0
Baking	258.0	253.2	251.0	245.4	239.9
Sugar refining, cane	22.4	25.0	25.3	24.3	24.7
Sugar, beet	24.3	10.6	9.1	27.6	12.6
Confectionery	87.7	80.2	70.4	83.5	74.5
Beverages, nonalcoholic	43.2	46.7	49.6	39.7	43.3
Malt liquors	81.6	86.5	87.8	81.8	83.1
Canning and preserving	291.7	444.4	326.2	265.2	424.1
TOBACCO MANUFACTURES ^{1/}	90	88	86	89	86
Cigarettes	35.1	34.9	34.5	33.4	32.6
Cigars	46.5	44.9	44.1	47.0	45.5
Tobacco (chewing and smoking) and snuff	7.9	7.8	7.8	8.2	8.0

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	
	October	September	August	October	September
PAPER AND ALLIED PRODUCTS <u>1/</u>	401	398	394	392	388
Paper and pulp	206.0	206.7	206.7	200.2	200.0
Paper goods, other	63.5	62.7	61.8	63.0	61.4
Envelopes	12.8	12.6	12.3	12.2	12.0
Paper bags	17.6	17.8	17.7	17.9	17.7
Paper boxes	99.8	97.0	94.8	98.1	96.0
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	442	436	432	441	437
Newspapers and periodicals	150.7	149.4	147.7	144.6	144.4
Printing; book and job	188.8	185.4	183.1	189.3	185.9
Lithographing	31.4	31.1	31.2	32.6	32.4
Bookbinding	34.9	34.4	34.8	38.5	38.2
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	600	597	586	586	576
Paints, varnishes, and colors	49.1	49.1	49.7	47.6	47.3
Drugs, medicines, and insecticides	64.4	64.2	63.9	67.1	67.1
Perfumes and cosmetics	12.8	12.5	12.4	13.5	12.6
Soap	27.2	27.0	25.1	25.3	24.7
Rayon and allied products	63.9	63.7	64.9	62.9	62.1
Chemicals, not elsewhere classified	210.0	210.9	211.2	204.3	204.3
Explosives and safety fuses	27.7	27.6	27.8	24.1	23.7
Compressed and liquefied gases	9.9	9.8	10.1	9.7	9.9
Ammunition, small-arms	7.4	7.5	7.5	7.2	7.0
Fireworks	2.6	2.8	2.7	2.9	2.5
Cottonseed oil	26.6	23.4	14.3	24.0	18.3
Fertilizers	28.8	28.7	26.8	29.3	29.3
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	163	168	170	165	166
Petroleum refining	108.4	114.0	115.9	112.4	113.4
Coke and byproducts	32.2	32.4	32.4	29.6	29.1
Paving materials	2.9	3.0	2.8	3.4	3.4
Roofing materials	18.1	18.0	17.8	18.4	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	
	October	September	August	October	September
RUBBER PRODUCTS ^{1/}	198	197	195	208	203
Rubber tires and inner tubes	90.0	91.4	91.5	102.0	100.5
Rubber boots and shoes	22.9	22.5	22.0	221.7	21.0
Rubber goods, other	84.8	83.0	80.8	84.0	81.9
MISCELLANEOUS INDUSTRIES ^{1/}	460	451	441	459	447
Instruments (professional and scientific), and fire-control equipment	29.6	29.1	28.1	28.0	27.7
Photographic apparatus	39.7	39.7	39.7	38.7	38.2
Optical instruments and ophthalmic goods	25.1	24.8	24.8	27.5	27.5
Pianos, organs, and parts	13.8	13.5	13.3	17.4	16.5
Games, toys, and dolls	50.5	48.6	45.3	42.3	40.9
Buttons	13.1	13.0	13.0	12.1	11.6
Fire extinguishers	2.9	2.8	2.7	2.8	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
Machinery, except electrical	November 1948	December 1948
Textile-mill products and other fiber manufactures	November 1948	December 1948
Food	November 1948	December 1948
Iron and steel and their products	December 1948	January 1949
Stone, clay, and glass products	December 1948	January 1949

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

(In thousands)

Industry group and industry	1948			1947	
	October	September	August	October	September
MINING: ^{2/}					
Coal					
Anthracite	76.6	77.5	77.7	76.2	76.0
Bituminous coal	404	408	408	397	394
Metal	92.0	89.4	88.4	88.7	89.6
Iron	32.8	33.4	33.7	32.4	32.4
Copper	27.0	26.9	26.5	25.8	25.7
Lead and zinc	16.2	13.0	12.0	14.9	15.5
Gold and silver	8.1	8.2	8.1	8.0	8.2
Miscellaneous	7.9	7.9	8.0	7.6	7.7
Quarrying and nonmetallic	86.6	87.8	87.8	87.3	88.1
Crude petroleum and natural gas production ^{3/}	129.9	133.2	137.1	127.1	128.7
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railroads ^{4/}	1,345	1,350	1,356	1,357	1,364
Street railways and busses ^{5/}	246	248	248	249	251
Telephone	642	643	647	609	613
Telegraph ^{6/}	34.5	34.7	35.1	36.9	37.6
Electric light and power	281	284	286	267	268
SERVICE:					
Hotels (year-round)	375	373	369	380	379
Power laundries ^{2/}	229	232	233	241	243
Cleaning and dyeing ^{2/}	89.5	88.7	89.7	95.6	94.3

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

^{1/} Unless otherwise noted, data include 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			
	1948			1947	1948			1947
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
ALL MANUFACTURING	163.2	164.5	161.7	160.4	381.5	381.7	374.7	350.1
DURABLE GOODS	188.7	188.1	185.8	185.0	432.9	422.6	418.8	389.9
NONDURABLE GOODS	143.1	145.9	142.7	141.1	331.2	341.7	331.6	311.2
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	167.1	166.2	164.5	162.3	376.0	365.0	360.5	331.6
Blast furnaces, steel works, and rolling mills	137.7	137.7	137.9	130.0	305.0	300.3	295.8	251.9
Gray-iron and semisteel castings	185.8	184.7	180.5	191.0	437.9	433.3	417.1	427.6
Malleable-iron castings	200.3	200.8	194.6	187.7	512.2	493.1	478.8	448.7
Steel castings	234.1	233.1	228.1	217.3	521.6	504.4	498.6	444.8
Cast-iron pipe and fittings	166.3	167.0	167.8	159.5	445.7	437.1	432.7	382.3
Tin cans and other tinware	153.2	157.7	154.4	148.0	351.6	391.7	364.9	331.9
Wire drawn from purchased rods	132.3	130.3	129.1	141.0	274.1	263.8	262.5	267.6
Wirework	139.4	140.8	139.6	133.6	335.9	322.5	326.6	289.0
Cutlery and edge tools	157.7	154.9	146.0	158.9	392.1	374.9	359.3	372.2
Tools (except edge tools, machine tools, files, and saws)	160.8	161.6	160.6	163.0	376.3	366.3	373.4	352.6
Hardware	151.2	150.0	148.8	148.4	359.7	349.2	347.1	337.6
Plumbers' supplies	161.7	157.2	154.0	147.4	381.9	338.7	338.7	306.8
Stoves, oil burners, and heating equipment, not elsewhere classified	190.0	187.3	180.1	194.7	450.6	428.7	416.9	439.0
Steam and hot-water heating apparatus and steam fittings	205.7	202.3	198.1	200.9	475.3	447.6	436.4	423.6
Stamped and enameled ware and galvanizing	196.9	193.1	194.2	204.8	482.6	453.7	467.9	468.0
Fabricated structural and ornamental metalwork	186.7	183.0	180.8	177.1	409.4	371.9	384.5	365.5
Metal doors, sash, frames, molding, and trim <u>2/</u>	144.1	142.1	141.2	135.8	340.1	340.4	328.5	290.0
Bolts, nuts, washers, and rivets	185.6	184.6	183.1	182.3	428.0	415.5	424.6	386.0
Forgings, iron and steel	228.3	225.3	215.6	223.8	525.6	505.7	475.8	485.5
Wrought pipe, welded and heavy-riveted	222.2	221.3	221.1	206.6	504.0	491.0	495.4	427.3
Screw-machine products and wood screws	196.8	194.3	194.5	196.4	453.0	433.1	429.4	424.3
Steel barrels, kegs, and drums	121.5	124.2	125.9	123.8	326.4	306.9	338.0	299.6
Firearms	414.9	406.4	401.0	357.4	998.7	963.1	927.8	780.3
ELECTRICAL MACHINERY <u>1/</u>	213.4	211.5	207.7	226.9	474.4	466.9	454.8	464.6
Electrical equipment	201.1	201.8	199.2	212.4	446.4	444.4	434.7	429.8
Radios and phonographs	211.7	203.8	197.6	237.0	509.1	489.4	468.9	533.2
Communication equipment	284.7	276.2	269.5	294.6	591.6	567.3	550.6	584.5

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		1946		1947	
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
MACHINERY, EXCEPT ELECTRICAL <u>1/</u>	228.7	228.7	227.4	229.7	491.7	484.0	482.3	458.0
Machinery and machine-shop products	244.0	245.1	241.9	248.8	531.5	523.2	520.0	497.1
Engines and turbines	283.3	270.8	276.3	285.8	646.9	581.9	594.5	576.0
Tractors	191.2	189.4	192.0	185.3	364.1	360.5	369.1	333.1
Agricultural machinery, excluding tractors	266.1	255.2	254.5	236.6	597.9	577.1	559.3	504.6
Machine tools	130.0	131.2	130.5	142.4	250.3	248.3	246.8	257.5
Machine-tool accessories	212.2	214.0	213.5	215.3	389.8	391.0	400.8	379.0
Textile machinery	189.7	190.7	191.0	179.3	457.5	458.9	454.3	381.7
Pumps and pumping equipment	276.8	278.0	273.1	298.3	620.1	615.0	605.0	627.4
Typewriters	126.8	129.8	136.5	152.7	255.0	286.8	298.0	342.3
Cash registers; adding, and calculating machines	224.8	228.1	226.7	218.5	481.3	492.3	489.2	455.8
Washing machines, wringers, and driers, domestic	210.6	210.3	208.7	205.1	484.2	460.6	469.3	430.5
Sewing machines, domestic and industrial	188.8	186.6	182.4	160.2	499.0	486.0	460.4	369.9
Refrigerators and refrigeration equipment	230.7	232.5	234.1	226.6	507.1	491.6	491.4	446.6
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	282.9	276.3	260.8	269.2	613.3	581.8	547.7	541.5
Locomotives	410.7	409.0	265.6	400.5	909.4	948.4	599.4	870.1
Cars, electric- and steam-railroad	224.2	222.2	222.8	225.2	530.8	477.3	516.9	493.6
Aircraft and parts, excluding aircraft engines	366.2	349.2	336.4	337.4	794.9	746.1	698.4	659.0
Aircraft engines	309.0	300.1	243.2	294.8	599.7	570.0	453.7	499.9
Shipbuilding and boatbuilding	140.5	140.8	143.7	144.7	291.2	283.1	290.6	289.9
Motorcycles, bicycles, and parts	197.4	190.3	165.8	201.8	474.3	424.5	374.2	430.8
AUTOMOBILES	192.2	193.2	189.7	190.0	431.4	417.5	419.1	385.8
NONFERROUS METALS AND THEIR PRODUCTS <u>1/</u>	176.0	173.9	172.4	176.3	394.2	386.3	379.3	359.3
Smelting and refining, primary, of nonferrous metals	149.1	145.5	150.0	143.9	344.6	342.4	345.7	296.0
Alloying; and rolling and drawing of nonferrous metals, except aluminum	140.7	140.0	136.2	136.6	308.0	307.0	298.5	260.6
Clocks and watches	141.5	141.1	135.3	138.6	352.0	348.6	334.9	320.1
Jewelry (precious metals) and jewelers' findings	190.6	187.7	182.3	190.2	397.0	383.8	365.9	393.4
Silverware and plated ware	231.5	228.5	226.2	215.3	565.0	555.4	519.4	496.2
Lighting equipment	155.6	157.3	154.1	170.2	340.0	345.6	328.2	333.8
Aluminum manufactures	170.6	163.5	167.9	183.0	352.5	325.8	332.9	345.5
Sheet-metal work, not elsewhere classified	198.7	197.2	198.7	214.0	464.6	443.9	454.5	456.3

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
LUMBER AND TIMBER BASIC PRODUCTS 1/	197.7	200.6	200.8	178.6	519.2	523.3	538.8	427.2
Sawmills and logging camps 2/	216.2	220.4	220.7	196.5	575.3	584.4	604.6	476.2
Planing and plywood mills	193.2	192.3	192.8	170.0	491.9	478.6	485.4	395.0
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	143.3	142.0	140.5	144.8	354.9	344.5	337.3	338.8
Mattresses and bedsprings	180.9	179.5	171.7	181.2	414.3	411.5	385.5	402.8
Furniture	143.6	141.9	140.3	142.7	358.1	344.2	334.8	335.2
Wooden boxes, other than cigar	123.6	121.5	122.3	135.2	322.7	315.7	327.3	328.6
Caskets and other morticians' goods	138.4	140.1	139.6	148.6	284.9	289.7	289.0	299.3
Wood preserving	136.0	137.9	141.0	151.5	383.3	379.3	382.8	408.7
Wood, turned and shaped	140.0	139.3	140.9	136.7	337.0	322.2	332.1	306.2
STONE, CLAY, AND GLASS PRODUCTS 1/	159.4	158.2	157.0	152.8	372.1	361.2	358.9	328.2
Glass and glassware	172.6	172.3	167.8	172.0	395.8	383.2	369.3	359.3
Glass products made from purchased glass	144.3	139.5	138.5	142.4	330.9	312.0	309.3	308.2
Cement	151.5	148.5	151.7	145.2	316.1	310.4	322.5	283.1
Brick, tile, and terra cotta	144.0	144.2	143.7	132.3	363.5	354.8	358.6	305.0
Pottery and related products	180.4	178.3	177.3	168.6	399.8	374.0	383.4	348.2
Gypsum	159.2	157.1	157.1	150.3	395.6	385.1	380.1	324.6
Wallboard, plaster (except gypsum), and mineral wool	182.2	181.2	180.8	176.5	492.0	507.0	484.7	430.0
Lime	113.3	113.9	114.3	111.8	325.6	322.6	324.5	302.2
Marble, granite, slate, and other products	103.2	102.4	102.5	99.2	196.2	194.2	195.6	183.5
Abrasives	265.7	264.6	267.4	249.5	594.6	588.5	576.3	476.2
Asbestos products	164.2	159.5	157.9	156.8	411.5	399.8	395.6	356.7
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	109.2	110.3	111.4	109.2	291.2	295.5	298.2	271.8
Cotton manufactures, except smallwares	122.2	123.6	124.7	121.5	350.0	354.9	357.4	329.1
Cotton smallwares	95.1	95.4	96.2	97.2	222.5	228.7	227.3	213.6
Silk and rayon goods	96.7	96.5	95.9	89.6	299.4	301.3	295.2	244.2
Woolen and worsted manufactures, except dyeing and finishing	101.2	105.2	107.7	108.4	265.7	286.1	297.8	270.4
Hosiery	84.4	84.3	85.5	85.2	208.8	201.1	202.8	190.1
Knitted cloth	98.0	95.9	97.5	97.1	228.7	219.7	228.4	214.4
Knitted outerwear and knitted gloves	110.2	107.1	106.6	111.1	249.8	250.5	244.1	254.3
Knitted underwear	117.7	120.6	123.0	123.7	291.2	297.3	313.2	303.5
Dyeing and finishing textiles, including woolen and worsted	129.5	129.0	129.8	129.3	311.6	310.7	309.2	291.1
Carpets and rugs, wool	150.9	150.6	148.1	133.5	393.2	387.5	381.5	309.8
Hats, fur-felt 2/	74.6	81.4	86.7	88.4	162.9	180.9	200.3	185.9
Jute goods, except felts	107.1	104.5	114.3	79.5	266.8	248.4	282.2	168.7
Cordage and twine	116.8	119.5	120.7	120.4	284.7	283.7	286.4	282.0
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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	148.8	148.6	146.5	142.7	325.0	348.1	342.3	320.5
Men's clothing, not elsewhere classified	139.0	139.5	138.9	133.6	302.4	324.7	324.0	303.5
Shirts, collars, and nightwear	105.6	104.7	104.0	107.2	256.0	254.0	247.1	258.9
Underwear and neckwear, men's	111.0	107.0	105.5	102.3	310.6	301.3	294.1	280.2
Work shirts	133.5	129.1	132.0	112.1	352.4	341.4	340.0	262.0
Women's clothing, not elsewhere classified	170.8	171.3	167.3	161.5	351.0	390.2	380.3	349.5
Corsets and allied garments	103.0	101.5	99.0	100.2	233.1	225.8	217.0	219.0
Millinery	100.8	97.0	97.3	98.9	192.8	201.5	197.0	195.2
Handkerchiefs	104.4	98.8	96.2	100.9	289.3	259.4	241.0	251.4
Curtains, draperies, and bedspreads 2/	154.0	157.3	161.1	173.7	346.5	356.5	382.1	412.1
Housefurnishings, other than curtains, etc.	287.8	281.0	272.3	283.4	696.8	634.9	633.4	632.2
Textile bags	235.2	231.7	229.2	222.6	555.0	549.5	521.9	472.6
LEATHER AND LEATHER PRODUCTS 1/	108.3	109.3	110.4	113.2	236.8	246.9	248.3	251.8
Leather	95.4	96.0	95.3	100.2	206.3	206.5	207.3	212.9
Boot and shoe cut stock and findings	88.1	89.8	90.7	98.1	175.3	185.2	189.5	189.6
Boots and shoes	103.2	104.4	106.0	107.8	228.2	239.4	242.9	246.6
Leather gloves and mittens	127.6	129.7	132.1	131.5	264.1	272.1	285.4	267.5
Trunks and suitcases	174.8	171.8	166.0	172.5	397.3	393.3	376.2	381.8
FOOD 1/	163.8	179.9	166.0	158.3	358.2	389.8	351.3	332.8
Slaughtering and meat packing	146.4	144.5	145.7	143.8	305.4	303.5	296.0	288.4
Butter	176.2	181.7	189.8	172.9	384.7	397.8	418.5	353.4
Condensed and evaporated milk	186.3	194.3	201.4	188.9	435.6	473.7	492.5	402.5
Ice cream	148.6	167.9	180.7	157.8	291.2	333.5	348.4	288.5
Flour	148.0	149.4	152.2	151.2	361.3	360.7	368.6	354.8
Feeds, prepared	169.0	169.8	170.8	167.7	403.2	412.7	405.0	358.6
Cereal preparations	158.0	157.6	165.6	153.6	341.6	326.0	349.5	304.4
Baking	135.5	133.0	131.8	128.9	286.6	282.6	273.5	252.2
Sugar refining, cane	140.8	157.4	159.1	153.3	285.9	348.2	369.5	331.7
Sugar, beet 2/	209.2	91.0	78.0	238.2	433.3	207.7	161.1	488.1
Confectionery 2/	157.4	143.9	126.3	149.8	377.3	347.3	296.2	341.0
Beverages, nonalcoholic	181.1	196.1	207.9	166.7	299.6	342.1	349.0	286.8
Malt liquors	201.7	213.7	217.0	202.2	374.0	420.4	419.6	376.9
Canning and preserving	194.1	295.7	217.0	176.4	544.3	835.0	525.4	483.6
TOBACCO MANUFACTURES 1/	95.9	93.9	92.5	95.1	224.3	214.8	218.3	214.5
Cigarettes	128.2	127.3	125.8	121.7	279.0	268.1	288.3	252.8
Cigars	83.2	80.5	78.9	84.2	197.2	187.4	180.9	196.4
Tobacco (chewing and smoking) and snuff	78.6	77.7	77.2	81.8	180.7	176.1	173.3	178.1

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
PAPER AND ALLIED PRODUCTS <u>1/</u>	151.0	149.8	148.6	147.8	357.4	355.0	352.1	320.5
Paper and pulp	149.5	150.0	150.0	145.3	359.1	362.9	363.6	322.6
Paper goods, other	168.4	166.1	163.9	166.9	381.2	372.3	365.1	344.4
Envelopes	146.9	145.2	141.4	140.6	305.3	298.3	290.0	279.8
Paper bags	158.2	159.9	159.2	160.7	388.2	390.2	392.7	350.0
Paper boxes	144.0	139.9	136.7	141.5	342.1	328.0	318.6	304.2
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	134.8	133.0	131.8	134.6	273.6	273.6	264.8	252.8
Newspapers and periodicals	127.0	125.9	124.4	121.8	252.2	253.6	240.6	221.6
Printing; book and job	147.9	145.3	143.5	148.3	305.4	304.8	297.6	285.8
Lithographing	119.7	118.5	118.9	124.2	235.5	233.1	231.8	226.2
Bookbinding	135.3	133.7	134.8	149.3	309.7	307.8	310.2	325.4
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	208.1	207.1	203.3	203.2	460.1	462.5	450.6	409.6
Paints, varnishes, and colors	173.6	173.5	175.7	168.5	340.7	341.6	345.1	304.2
Drugs, medicines, and insecticides	234.1	233.2	232.1	243.7	506.9	491.1	485.3	499.1
Perfumes and cosmetics	122.7	119.7	119.0	129.9	252.2	243.0	237.4	250.1
Soap	178.4	177.2	164.7	165.7	412.2	400.7	365.7	357.6
Rayon and allied products	132.3	131.8	134.3	130.1	296.7	297.5	302.7	257.8
Chemicals, not elsewhere classified	300.3	301.6	302.1	292.2	628.6	641.6	629.1	554.9
Explosives and safety fuses	379.3	379.2	380.7	331.1	763.8	796.0	798.3	612.0
Compressed and liquefied gases	247.9	247.0	253.1	243.5	488.5	513.9	512.0	445.6
Ammunition, small-arms	173.7	174.2	173.9	167.2	409.4	411.2	403.1	393.3
Fireworks	225.9	243.3	231.8	249.9	545.8	621.0	630.2	747.3
Cottonseed oil	174.6	153.3	93.8	157.2	541.9	459.3	261.7	443.1
Fertilizers	152.9	152.3	142.2	155.7	430.8	436.1	408.9	409.7
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	153.6	159.1	160.3	155.8	344.1	345.6	358.2	301.8
Petroleum refining	148.1	155.7	158.3	153.5	323.6	326.1	345.5	286.6
Coke and byproducts	148.2	149.2	149.3	136.5	349.6	353.2	350.8	288.1
Paving materials	118.1	120.5	113.5	137.4	277.2	286.1	264.3	295.9
Roofing materials	223.3	222.7	219.4	227.7	577.7	558.3	548.7	523.1

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
RUBBER PRODUCTS ^{1/}	163.5	162.8	160.9	171.7	346.3	344.9	347.2	354.4
Rubber tires and inner tubes	165.9	168.6	168.7	188.0	318.2	326.2	341.0	354.7
Rubber boots and shoes	154.5	151.2	148.3	146.1	371.9	355.9	344.1	331.7
Rubber goods, other	163.6	160.1	155.8	162.0	384.4	372.1	356.3	352.3
MISCELLANEOUS INDUSTRIES ^{1/}	187.8	184.2	180.1	187.5	422.5	411.8	397.4	394.1
Instruments (professional and scientific), and fire-control equipment	261.5	257.2	248.8	247.4	557.5	532.0	505.9	478.9
Photographic apparatus	224.6	224.6	224.5	218.8	456.2	456.6	444.1	405.1
Optical instruments and ophthalmic goods	210.7	208.7	208.8	231.6	427.7	419.9	415.2	443.5
Pianos, organs, and parts	177.3	173.6	170.4	223.8	381.3	369.1	361.7	475.6
Games, toys, and dolls	264.3	254.2	236.9	221.4	674.3	624.4	566.8	518.7
Buttons	117.0	116.1	116.2	107.7	275.4	271.9	275.3	245.8
Fire extinguishers	281.8	271.3	269.1	273.2	616.9	606.1	566.7	555.4

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

^{1/} See footnote 1, table 8.

^{2/} Pay-roll indexes for earlier months in 1948 have been revised as follows:

Metal doors, sash, frames, molding, and trim - July, 287.5.

Hats, fur-felt - July, 171.3.

Curtains, draperies, and bedspreads - June, 330.8.

Sugar, beet - June, 130.6; July, 138.6.

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
	Oct.	Sept.	Aug.	Oct.	Oct.	Sept.	Aug.	Oct.
MINING:								
Coal								
Anthracite	91.7	92.7	92.9	91.2	260.4	247.3	260.3	252.7
Bituminous coal	108.8	109.7	109.7	106.8	356.2	352.9	365.8	327.5
Metal								
Iron	99.3	96.5	95.5	95.8	224.9	211.2	210.4	192.7
Copper	155.4	158.2	159.6	153.3	371.6	361.0	355.8	315.5
Lead and zinc	107.9	107.7	106.0	103.1	255.6	247.6	254.8	222.9
Gold and silver	99.8	79.8	74.0	91.8	252.7	199.2	189.1	209.7
Miscellaneous	30.9	31.4	31.1	30.9	56.4	54.1	56.1	51.7
Quarrying and nonmetallic	188.6	188.9	190.0	181.6	405.0	406.7	387.5	338.1
Crude petroleum and natural gas production	126.5	128.3	128.2	127.6	345.2	342.4	348.5	319.2
	113.5	116.4	119.8	111.1	230.7	235.6	251.0	199.9
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railroads <u>1/</u>	136.2	136.7	137.3	137.4	<u>2/</u>	<u>2/</u>	<u>2/</u>	<u>2/</u>
Street railways and busses	126.9	127.9	128.1	128.8	242.0	239.7	240.7	223.2
Telephone	201.9	202.3	203.7	191.6	338.2	335.4	331.7	314.2
Telegraph	91.6	92.3	93.3	98.1	217.4	220.4	225.5	208.1
Electric light and power	115.2	116.2	117.1	109.4	204.5	204.3	204.9	182.8
TRADE: <u>3/</u>								
Wholesale	118.1	117.1	117.0	115.5	222.3	220.8	220.6	206.9
Retail	116.0	113.4	111.2	115.8	223.5	219.4	218.1	207.1
Food	113.8	112.0	112.3	115.0	227.4	226.0	229.0	213.8
General merchandise	135.3	127.2	120.8	131.5	252.7	238.3	231.8	225.2
Apparel	119.4	113.9	105.1	119.4	222.2	210.8	195.5	213.5
Furniture and housefurnishings	92.2	91.6	90.1	89.5	184.3	179.9	178.5	167.6
Automotive	110.0	110.1	111.1	105.6	215.6	217.0	219.6	193.8
Lumber and building materials	127.8	128.0	129.6	126.9	261.3	258.3	264.6	238.8
SERVICE:								
Hotels (year-round) <u>4/</u>	116.2	115.7	114.6	117.7	238.7	235.3	233.7	226.9
Power laundries	116.7	118.4	119.0	123.1	227.6	232.9	228.1	232.3
Cleaning and dyeing	153.9	152.5	154.3	164.4	299.9	296.8	287.2	303.8

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, data showing month-to-month changes in employment reflect the fluctuations shown by establishments reporting to the Bureau of Labor Statistics. 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. 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. II. 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.

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 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 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, 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) 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 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 are 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, 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.