

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
DECEMBER 1948**

**United States Department of Labor
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Prepared by
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EMPLOYMENT AND PAY ROLLS

Detailed Report

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

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

(In thousands)

Industry division	1948			1947	
	December	November	October	December	November
TOTAL	46,087	45,735	45,877	45,618	44,918
Manufacturing	16,278	16,455	16,597	16,354	16,256
Mining	939	938	941	925	923
Contract construction	2,078	2,162	2,206	1,978	2,046
Transportation and public utilities	4,067	4,066	4,091	4,071	4,077
Trade	10,380	10,036	9,889	10,288	9,886
Finance	1,723	1,720	1,723	1,676	1,673
Service	4,628	4,644	4,641	4,688	4,670
Government	5,994	5,714	5,789	5,638	5,387

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

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

(In thousands)

Major industry group	1948			1947	
	December	November	October	December	November
ALL MANUFACTURING	16,278	16,455	16,597	16,354	16,256
DURABLE GOODS	8,228	8,299	8,318	8,274	8,194
Iron and steel and their products	1,936	1,952	1,955	1,922	1,908
Electrical machinery	730	735	731	773	772
Machinery, except electrical	1,561	1,563	1,569	1,589	1,569
Transportation equipment, except automobiles	585	588	583	591	578
Automobiles	985	973	982	983	961
Nonferrous metals and their products	468	474	473	482	479
Lumber and timber basic products	875	908	918	829	828
Furniture and finished lumber products	549	562	562	578	573
Stone, clay, and glass products	539	544	545	527	526
NONDURABLE GOODS	8,050	8,156	8,279	8,080	8,062
Textile-mill products and other fiber manufactures	1,357	1,368	1,371	1,409	1,391
Apparel and other finished textile products	1,324	1,338	1,353	1,305	1,277
Leather and leather products	409	408	421	446	442
Food	1,787	1,840	1,931	1,735	1,769
Tobacco manufactures	100	103	103	102	104
Paper and allied products	491	493	491	484	479
Printing, publishing, and allied industries	738	734	735	732	726
Chemicals and allied products	788	790	789	778	777
Products of petroleum and coal	240	242	240	238	239
Rubber products	246	249	248	261	259
Miscellaneous industries	570	591	597	590	599

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

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

(In thousands)

Major industry group	1948			1947	
	December	November	October	December	November
MINING	939	938	941	925	923
Anthracite	82	82	82	81	81
Bituminous coal	423	421	422	421	417
Metal	101	99	103	100	100
Quarrying and nonmetallic	93	95	96	94	96
Crude petroleum and natural gas production <u>1/</u>	240	241	238	229	229
TRANSPORTATION AND PUBLIC UTILITIES	4,067	4,066	4,091	4,071	4,077
Transportation	2,810	2,809	2,836	2,858	2,872
Communication	740	740	740	719	713
Other public utilities	517	517	515	494	492
GOVERNMENT	5,994	5,714	5,789	5,638	5,387
Federal	2,156	1,856	1,875	1,985	1,751
State and local	3,838	3,858	3,914	3,653	3,636

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
	December	November	October	December	December	November	October	December
<u>All Areas</u>								
TOTAL FEDERAL	2,375.2	2,083.6	2,076.0	2,229.1	\$622,697	\$546,167	\$533,834	\$531,452
Executive	2,336.1	2,044.2	2,036.9	2,189.4	612,576	536,279	523,860	521,924
Defense agencies	937.5	939.5	931.9	894.8	231,358	231,426	225,675	214,051
Post Office Department	754.1	459.7	458.4	667.9	202,564	125,130	124,095	143,537
Other agencies	644.5	645.0	646.6	626.7	178,654	179,723	174,090	164,336
Legislative	7.3	7.4	7.4	7.0	2,722	2,683	2,656	2,462
Judicial	3.5	3.5	3.5	3.5	1,468	1,419	1,454	1,336
Government corporations	28.3	28.5	28.2	29.2	5,931	5,786	5,864	5,730
<u>Continental United States</u>								
TOTAL FEDERAL	2,176.3	1,876.5	1,868.9	2,005.6	582,475	506,385	491,289	491,727
Executive	2,144.0	1,843.9	1,836.3	1,973.1	572,998	497,155	482,046	482,884
Defense agencies	777.5	770.3	762.7	708.1	200,401	200,689	192,530	182,109
Post Office Department	751.2	458.0	456.7	665.7	201,796	124,667	123,633	143,057
Other agencies	615.3	615.6	616.9	599.3	170,801	171,799	165,883	157,718
Legislative	7.3	7.4	7.4	7.0	2,722	2,683	2,656	2,462
Judicial	3.4	3.5	3.4	3.4	1,428	1,379	1,413	1,301
Government corporations	21.6	21.7	21.8	22.1	5,327	5,168	5,174	5,080
<u>Washington, D. C.</u>								
TOTAL GOVERNMENT	241.4	236.5	234.6	224.4	74,374	73,135	70,755	64,111
D. C. government	18.8	19.1	18.6	18.4	4,742	4,526	4,450	4,570
Federal	222.6	217.4	216.0	206.0	69,632	68,609	66,305	59,541
Executive	214.7	209.4	208.0	198.4	66,666	65,695	63,421	56,861
Defense agencies	72.2	71.1	70.6	64.7	21,448	21,582	20,909	17,235
Post Office Department	10.8	7.7	7.6	10.2	3,850	2,749	2,684	3,135
Other agencies	131.7	130.6	129.8	123.5	41,368	41,364	39,828	36,491
Legislative	7.3	7.4	7.4	7.0	2,722	2,683	2,656	2,462
Judicial	.6	.6	.6	.6	244	231	228	218

See the glossary for definitions.

1/ Data for Central Intelligence Agency are excluded.

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

(In thousands)

Designation	1948			1947	
	December	November	October	December	November
PERSONNEL (as of first of month)					
Total	1,628	1,610	1,584	1,463	1,490
<u>By branch:</u>					
Army	662	647	636	^{2/} 911	^{2/} 920
Air Force	410	410	406	^{2/}	^{2/}
Navy	449	446	438	445	459
Marine Corps	85	85	84	87	92
Coast Guard	22	21	21	20	19
<u>By sex:</u>					
Men	1,613	1,596	1,571	1,446	1,473
Women	15	14	13	17	18
PAY (for entire month)					
Total	\$297,037	\$299,787	\$294,843	\$300,257	\$309,705
<u>By branch:</u>					
Army and Air Force	189,237	191,206	183,593	183,983	186,912
Navy	88,592	89,234	91,927	97,645	102,562
Marine Corps	14,317	14,555	14,667	14,427	16,046
Coast Guard	4,891	4,792	4,657	4,202	4,184
<u>By type of pay:</u>					
Pay rolls	262,975	264,953	259,175	246,532	252,112
Mustering-out pay	5,201	5,733	5,818	13,293	9,117
Family allowance	28,671	28,534	28,253	23,827	23,127
Leave payments	190	567	1,598	16,605	25,349
Cash	133	166	366	2,866	3,982
Bonds	56	401	1,231	13,739	21,367

See the glossary for definitions.

^{1/} Because of rounding, the individual figures may not add to group totals.^{2/} Separate figures for Army and Air Force not available, combined data shown under Army.

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

(In thousands)

State	1948			1947	
	November	October	September	November	October
Arizona	156	156	154	148	146
California	3,086	3,129	3,160	3,071	3,086
Connecticut	774	776	771	782	780
Georgia	747	750	745	742	735
Idaho	132	134	132	125	126
Illinois	3,231	3,228	3,218	3,180	3,166
Indiana	1,215	1,220	1,237	1,205	1,207
Maine	264	269	275	268	268
Maryland	723	719	720	689	681
Massachusetts	1,726	1,732	1,735	1,739	1,724
Minnesota	813	813	825	791	789
Missouri	1,150	1,159	1,149	1,143	1,140
Montana	142	143	143	137	138
Nevada 1/	48	48	49	48	48
New Jersey	1,584	1,594	1,604	1,580	1,573
New Mexico	128	129	129	119	118
New York	5,504	5,513	5,500	5,508	5,502
Oklahoma	470	470	473	444	441
Pennsylvania	3,669	3,668	3,660	3,619	3,604
Rhode Island	288	288	288	294	293
Tennessee	748	752	756	709	704
Texas	1,782	1,767	1,758	*1,686	1,675
Utah	186	191	195	*179	*181
Vermont 1/	94	95	95	95	96
Washington	676	685	688	667	673
Wisconsin	1,000	1,003	1,018	982	981

See explanatory notes, sections H and I.

1/ Does not include contract construction.

* Other months have been revised as follows:

Texas - December 1947 through June 1948 to 1,715, 1,677, 1,664, 1,670, 1,693, 1,702, and 1,725.

Utah - December 1947 through August 1948 to 181, 173, 171, 173, 171, 180, 184, 189, and 189.

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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	
	November	October	September	November	October
NEW ENGLAND:					
Maine 1/	111.2	113.7	117.9	117.4	116.9
New Hampshire	80.4	82.1	82.1	83.9	82.9
Vermont 1/	36.7	36.9	37.3	*39.5	39.3
Massachusetts	721.4	727.9	731.3	753.2	741.6
Rhode Island	142.1	142.8	144.7	154.3	152.9
Connecticut 1/	396.5	397.0	397.1	*415.7	414.8
MIDDLE ATLANTIC:					
New York	1,870.8	1,888.1	1,888.5	1,918.6	1,922.8
New Jersey	740.3	747.8	750.4	757.4	751.4
Pennsylvania	1,503.7	1,507.8	1,508.1	1,523.1	1,517.9
EAST NORTH CENTRAL:					
Ohio	1,223.9	1,226.5	1,231.8	1,247.3	1,244.7
Indiana	545.8	551.6	569.4	558.7	561.0
Illinois	1,242.7	1,243.3	1,243.8	1,266.3	1,257.0
Michigan	996.8	1,002.0	1,004.9	1,019.0	1,021.8
Wisconsin 1/	430.7	431.8	445.9	433.1	433.3
WEST NORTH CENTRAL:					
Minnesota 1/	200.8	201.9	210.2	201.3	200.2
Iowa 1/	153.8	153.8	153.9	153.9	151.3
Missouri 1/	347.2	349.8	347.3	352.7	351.9
North Dakota	6.9	7.0	6.8	6.8	6.7
South Dakota	12.2	11.9	11.6	11.5	11.4
Nebraska	44.1	43.6	42.4	45.9	45.1
Kansas 1/	87.8	83.3	87.5	82.7	82.6
SOUTH ATLANTIC:					
Delaware	45.3	46.3	48.9	45.8	45.8
Maryland	233.0	235.3	242.4	231.1	229.3
District of Columbia	17.0	16.9	17.0	17.4	17.5
Virginia	215.6	218.4	217.7	217.3	217.0
West Virginia	132.7	134.1	132.9	133.0	133.4
North Carolina	369.3	370.8	375.4	373.7	374.1
South Carolina	193.6	193.8	194.3	197.6	194.8
Georgia 1/	277.8	280.2	280.1	283.5	280.3
Florida 1/	97.3	90.7	89.9	95.0	90.4

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

(In thousands)

Region and State	1948			1947	
	November	October	September	November	October
EAST SOUTH CENTRAL:					
Kentucky	128.6	129.2	128.1	130.7	130.3
Tennessee <u>1/</u>	250.5	256.3	256.3	254.3	254.1
Alabama <u>1/</u>	228.7	229.1	227.1	230.8	227.9
Mississippi	87.0	87.2	87.4	95.5	94.1
WEST SOUTH CENTRAL:					
Arkansas <u>1/</u>	79.0	80.2	79.5	76.8	76.7
Louisiana <u>1/</u>	152.6	153.6	155.9	152.8	149.2
Oklahoma <u>1/</u>	67.4	67.9	67.2	64.9	64.3
Texas	357.4	352.8	351.4	347.7	339.8
MOUNTAIN:					
Montana	18.6	18.8	18.1	18.7	19.1
Idaho <u>1/</u>	23.4	26.0	24.8	21.2	22.4
Wyoming	7.2	7.4	6.8	7.2	7.1
Colorado	59.3	60.2	58.3	60.3	60.6
New Mexico <u>1/</u>	10.1	10.1	10.4	8.6	8.8
Arizona <u>1/</u>	15.5	15.2	14.0	14.6	14.0
Utah <u>1/</u>	30.7	31.6	32.8	27.2	29.4
Nevada <u>1/</u>	3.4	3.4	3.5	3.5	3.5
PACIFIC:					
Washington	186.0	191.6	190.5	178.2	183.9
Oregon	113.1	118.8	121.5	112.2	117.2
California	735.9	768.0	801.7	717.7	736.4

See explanatory notes, sections H and I.

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

* Other months have been revised as follows:

Connecticut - December 1947 to 417.8.

Vermont - December 1947 to 40.0.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1948			1947	
	December	November	October	December	November
ALL MANUFACTURING	13,055	13,233	13,375	13,263	13,176
DURABLE GOODS	6,735	6,807	6,822	6,816	6,746
NONDURABLE GOODS	6,320	6,426	6,553	6,447	6,430
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	1,638	1,654	1,657	1,633	1,619
Blast furnaces, steel works, and rolling mills	542.8	538.2	535.0	506.5	505.6
Gray-iron and semisteel castings	113.1	115.5	115.8	119.8	118.9
Malleable-iron castings	39.0	38.6	38.5	37.6	36.7
Steel castings	74.9	75.1	75.0	70.5	69.9
Cast-iron pipe and fittings	30.0	29.9	29.3	28.7	28.3
Tin cans and other tinware	46.4	47.0	48.7	47.8	47.1
Wire drawn from purchased rods	28.8	28.7	29.1	31.6	31.2
Wirework	42.2	42.1	42.1	42.4	40.5
Cutlery and edge tools	24.3	25.0	24.3	25.0	24.8
Tools (except edge tools, machine tools, files, and saws)	24.4	24.5	24.6	25.9	25.4
Hardware	54.2	54.1	53.8	55.3	53.8
Plumbers' supplies	42.4	42.6	42.4	40.0	39.6
Stoves, oil burners, and heating equipment, not elsewhere classified	76.4	87.6	93.3	95.6	96.2
Steam and hot-water heating apparatus and steam fittings	65.3	66.1	66.6	65.8	65.0
Stamped and enameled ware and galvanizing	113.5	117.6	116.5	123.2	122.5
Fabricated structural and ornamental metalwork	65.6	65.8	66.3	63.9	63.6
Metal doors, sash, frames, molding, and trim	10.9	11.3	11.2	10.9	10.7
Bolts, nuts, washers, and rivets	28.7	28.4	28.3	28.6	28.4
Forgings, iron and steel	38.4	38.2	37.4	37.4	36.8
Wrought pipe, welded and heavy-riveted	19.5	19.7	19.9	19.6	18.9
Screw-machine products and wood screws	35.3	35.5	35.5	35.8	35.5
Steel barrels, kegs, and drums	7.9	7.8	7.9	8.2	8.0
Firearms	22.4	22.4	22.1	19.7	19.3
ELECTRICAL MACHINERY <u>1/</u>	552	557	553	596	595
Electrical equipment	363.4	367.9	367.1	393.4	391.4
Radios and phonographs	97.2	95.9	93.1	104.8	106.3
Communication equipment	91.5	93.5	92.4	98.2	97.5

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

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

(In thousands)

Industry group and industry	1948			1947	
	December	November	October	December	November
MACHINERY, EXCEPT ELECTRICAL 1/	1,202	1,204	1,209	1,235	1,218
Machinery and machine-shop products	506.0	505.6	506.7	517.0	515.1
Engines and turbines	52.6	52.5	52.1	54.5	53.0
Tractors	61.6	60.9	59.8	60.3	58.6
Agricultural machinery, excluding tractors	77.1	76.2	75.9	71.0	68.0
Machine tools	47.3	47.5	47.6	51.3	51.1
Machine-tool accessories	54.4	54.5	54.7	56.3	55.8
Textile machinery	41.6	41.6	41.6	40.6	39.8
Pumps and pumping equipment	69.4	69.1	68.9	75.1	74.3
Typewriters	18.4	18.9	20.6	25.9	25.2
Cash registers; adding, and calculating machines	43.8	44.1	44.2	45.2	44.1
Washing machines, wringers, and driers, domestic	12.5	15.5	15.7	16.3	15.8
Sewing machines, domestic and industrial	15.0	14.9	14.8	13.3	13.0
Refrigerators and refrigeration equipment	79.3	79.5	81.0	81.5	80.1
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	451	453	449	463	452
Locomotives	26.5	26.5	26.6	26.3	26.0
Cars, electric- and steam-railroad	56.1	55.9	54.5	56.9	56.8
Aircraft and parts, excluding aircraft engines	150.5	149.8	145.3	133.2	133.4
Aircraft engines	28.5	28.0	27.5	25.9	25.9
Shipbuilding and boatbuilding	92.7	94.5	97.3	125.7	117.6
Motorcycles, bicycles, and parts	12.0	13.6	13.8	14.7	14.4
AUTOMOBILES	782	777	782	785	766
NONFERROUS METALS AND THEIR PRODUCTS 1/	398	404	403	413	410
Smelting and refining, primary, of nonferrous metals	41.2	41.4	41.2	40.0	39.7
Alloying; and rolling and drawing of nonferrous metals, except aluminum	54.7	54.5	54.6	53.4	52.9
Clocks and watches	27.0	28.2	28.8	28.6	28.4
Jewelry (precious metals) and jewelers' findings	26.8	27.5	27.5	27.7	28.1
Silverware and plated ware	27.7	28.3	28.1	27.1	26.5
Lighting equipment	30.9	31.8	31.9	34.1	34.3
Aluminum manufactures	40.6	40.9	40.1	44.8	43.6
Sheet-metal work, not elsewhere classified	36.6	37.1	37.3	40.9	40.6

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	1946			1947	
	December	November	October	December	November
LUMBER AND TIMBER BASIC PRODUCTS 1/	788	821	831	750	751
Sawmills and logging camps	635.2	667.2	678.2	610.7	612.8
Planing and plywood mills	152.9	154.1	152.8	139.4	137.7
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	462	470	470	487	483
Mattresses and bedsprings	33.4	35.7	37.1	38.4	38.2
Furniture	254.1	256.5	255.6	262.9	259.3
Wooden boxes, other than cigar	34.8	35.4	34.9	37.0	37.6
Caskets and other morticians' goods	18.8	19.5	19.2	21.1	20.9
Wood preserving	16.8	17.0	17.1	18.0	18.6
Wood, turned and shaped	33.4	33.9	34.5	34.9	34.5
STONE, CLAY, AND GLASS PRODUCTS 1/	462	467	468	454	452
Glass and glassware	118.8	121.8	123.2	123.5	123.4
Glass products made from purchased glass	14.7	14.7	14.4	14.6	14.6
Cement	37.0	37.2	36.9	35.5	35.5
Brick, tile, and terra cotta	83.1	83.5	83.5	77.9	77.2
Pottery and related products	61.6	61.5	61.0	58.9	58.3
Gypsum	7.5	7.8	7.9	7.6	7.6
Wallboard, plaster (except gypsum), and mineral wool	14.8	14.9	14.8	14.6	14.6
Lime	10.7	10.7	10.7	10.8	10.8
Marble, granite, slate, and other products	19.2	19.0	19.0	18.3	18.5
Abrasives	20.7	20.5	20.6	19.3	19.1
Asbestos products	25.1	25.6	25.7	24.9	24.7
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	1,236	1,245	1,249	1,290	1,271
Cotton manufactures, except smallwares	507.5	508.9	511.4	523.2	516.9
Cotton smallwares	13.1	13.3	13.4	14.3	13.9
Silk and rayon goods	120.8	122.0	122.4	116.2	114.8
Woolen and worsted manufactures, except dyeing and finishing	156.5	158.2	159.6	177.3	174.2
Hosiery	140.5	142.3	141.7	148.7	146.3
Knitted cloth	11.2	11.5	11.3	11.5	11.5
Knitted outerwear and knitted gloves	33.2	33.9	32.8	33.7	33.7
Knitted underwear	43.6	46.1	47.9	52.5	51.4
Dyeing and finishing textiles, including woolen and worsted	92.5	91.9	91.5	94.0	92.2
Carpets and rugs, wool	40.7	40.7	40.8	38.0	36.9
Hats, fur-felt	11.7	12.0	11.5	13.8	13.6
Jute goods, except felts	4.3	4.3	4.1	3.1	3.0
Cordage and twine	14.9	15.1	14.9	16.5	16.1

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

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

(In thousands)

Industry group and industry	1948			1947	
	December	November	October	December	November
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	1,145	1,159	1,175	1,143	1,117
Men's clothing, not elsewhere classified	303.2	307.8	319.2	310.5	309.2
Shirts, collars, and nightwear	73.7	77.7	78.1	82.4	81.1
Underwear and neckwear, men's	19.1	19.5	18.9	18.4	18.1
Work shirts	18.1	18.8	18.9	15.5	15.5
Women's clothing, not elsewhere classified	485.3	488.3	488.8	470.5	452.1
Corsets and allied garments	19.3	19.2	19.3	19.6	19.4
Millinery	23.8	22.1	25.8	23.5	21.6
Handkerchiefs	5.5	5.5	5.3	5.1	5.2
Curtains, draperies, and bedspreads	25.6	27.1	27.4	32.2	32.1
Housefurnishings, other than curtains, etc.	32.2	33.2	32.2	30.6	30.0
Textile bags	30.3	29.8	29.6	28.6	28.4
LEATHER AND LEATHER PRODUCTS <u>1/</u>	364	363	376	400	396
Leather	47.3	46.4	47.7	50.3	50.2
Boot and shoe cut stock and findings	17.0	17.0	17.6	19.8	19.8
Boots and shoes	232.7	229.5	238.5	255.4	251.1
Leather gloves and mittens	10.6	12.4	12.8	13.0	13.2
Trunks and suitcases	12.8	14.2	14.6	14.2	14.8
FOOD <u>1/</u>	1,253	1,306	1,400	1,255	1,288
Slaughtering and meat packing	218.2	205.3	197.7	217.1	203.9
Butter	35.0	34.6	35.5	32.9	33.9
Condensed and evaporated milk	18.7	19.5	20.3	18.6	19.5
Ice cream	23.9	24.3	26.2	24.9	26.3
Flour	41.5	41.7	40.1	41.9	42.1
Feeds, prepared	28.9	28.9	29.2	29.1	28.5
Cereal preparations	12.5	13.1	13.2	12.1	12.8
Baking	251.7	255.7	258.0	242.2	246.1
Sugar refining, cane	24.2	22.4	22.4	24.0	24.8
Sugar, beet	10.8	25.2	25.0	21.7	27.4
Confectionery	82.4	89.8	88.9	86.2	87.0
Beverages, nonalcoholic	39.5	40.4	43.0	37.3	38.2
Malt liquors	77.9	80.7	81.3	77.0	80.6
Canning and preserving	163.1	195.2	289.1	165.7	190.1
TOBACCO MANUFACTURES <u>1/</u>	87	90	90	88	90
Cigarettes	34.1	35.1	35.1	34.2	34.0
Cigars	45.2	47.2	46.5	45.6	47.8
Tobacco (chewing and smoking) and snuff	7.8	7.8	7.9	8.3	8.2

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

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

(In thousands)

Industry group and industry	1948			1947	
	December	November	October	December	November
PAPER AND ALLIED PRODUCTS <u>1/</u>	401	403	401	398	394
Paper and pulp	207.0	206.6	206.0	202.8	200.7
Paper goods, other	63.5	63.6	63.5	63.8	63.3
Envelopes	13.2	13.2	12.9	12.4	12.4
Paper bags	16.8	17.0	17.8	18.2	17.9
Paper boxes	99.9	101.5	99.8	99.6	99.0
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	443	442	442	445	444
Newspapers and periodicals	152.3	151.0	150.7	145.6	145.1
Printing; book and job	188.7	187.8	188.8	191.4	190.6
Lithographing	31.3	31.4	31.4	32.9	33.0
Bookbinding	34.5	35.1	34.9	38.3	38.7
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	597	599	600	592	589
Paints, varnishes, and colors	47.6	48.1	48.7	48.4	48.0
Drugs, medicines, and insecticides	64.4	64.8	64.4	65.9	66.4
Perfumes and cosmetics	12.3	12.9	12.8	12.9	13.9
Soap	26.5	26.5	27.2	25.5	25.8
Rayon and allied products	64.8	63.9	63.9	63.5	63.1
Chemicals, not elsewhere classified	211.2	210.7	210.0	207.0	205.5
Explosives and safety fuses	27.4	27.4	27.7	25.3	24.8
Compressed and liquefied gases	9.5	9.5	9.9	9.9	9.7
Ammunition, small-arms	7.2	7.4	7.4	7.4	7.2
Fireworks	2.4	2.6	2.6	2.8	2.9
Cottonseed oil	25.7	27.2	27.3	24.4	24.5
Fertilizers	28.7	28.7	28.8	30.7	29.2
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	165	167	162	165	165
Petroleum refining	113.3	113.7	107.6	112.5	112.3
Coke and byproducts	32.3	32.2	32.1	30.0	30.0
Paving materials	2.7	2.8	2.9	2.7	3.4
Roofing materials	15.2	17.2	18.1	18.3	18.5

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	
	December	November	October	December	November
RUBBER PRODUCTS 1/	196	199	198	212	210
Rubber tires and inner tubes	89.6	91.2	90.0	101.9	102.4
Rubber boots and shoes	23.5	23.2	22.9	22.5	22.0
Rubber goods, other	82.6	84.5	84.7	87.7	86.1
MISCELLANEOUS INDUSTRIES 1/	433	453	460	459	466
Instruments (professional and scientific), and fire-control equipment	29.9	30.0	29.5	28.1	27.8
Photographic apparatus	39.7	39.7	39.7	39.2	38.8
Optical instruments and ophthalmic goods	26.3	26.0	26.4	28.0	27.6
Pianos, organs, and parts	13.3	13.5	13.9	17.6	17.8
Games, toys, and dolls	37.8	46.5	49.4	38.5	43.4
Buttons	13.2	13.4	13.1	13.4	12.7
Fire extinguishers	2.8	2.9	2.9	2.7	2.7

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.

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

(In thousands)

Industry group and industry	1948			1947	
	December	November	October	December	November
MINING: ^{2/}					
Coal					
Anthracite	77.0	77.0	76.6	76.5	76.2
Bituminous coal	405	403	404	402	399
Metal	90.4	88.7	92.0	89.8	89.4
Iron	32.3	32.1	32.8	31.3	32.0
Copper	24.5	23.9	27.0	26.6	26.1
Lead and zinc	16.9	16.6	16.2	15.0	15.4
Gold and silver	8.6	8.2	8.1	8.5	8.1
Miscellaneous	8.2	7.9	7.9	7.9	7.8
Quarrying and nonmetallic	83.4	85.3	86.6	83.9	86.4
Crude petroleum and natural gas production ^{3/}	129.6	130.4	129.9	126.3	126.4
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railroads ^{4/}	1,307	1,329	1,345	1,331	1,340
Street railways and busses ^{5/}	244	245	246	249	249
Telephone	642	642	642	620	614
Telegraph ^{6/}	33.9	34.2	34.5	36.7	36.6
Electric light and power	282	282	281	269	268
SERVICE:					
Hotels (year-round)	370	372	375	381	378
Power laundries ^{2/}	224	225	229	237	238
Cleaning and dyeing ^{2/}	86.3	87.5	89.4	91.0	92.7

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

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948		1947		1948		1947	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
ALL MANUFACTURING	159.4	161.5	163.3	161.9	377.8	379.9	382.9	365.7
DURABLE GOODS	186.5	188.5	188.9	188.8	430.9	429.9	435.7	411.0
NONDURABLE GOODS	138.0	140.3	143.0	140.7	326.0	329.3	331.2	321.4
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS 1/	165.2	166.8	167.1	164.7	371.4	373.6	376.0	345.8
Blast furnaces, steel works, and rolling mills	139.7	138.5	137.7	130.4	306.1	304.7	305.0	257.8
Gray-iron and semisteel castings	181.7	185.6	186.1	192.5	424.1	429.4	436.1	442.7
Malleable-iron castings	203.1	200.8	200.3	195.5	520.8	505.7	512.2	479.8
Steel castings	233.6	234.2	234.1	219.8	525.2	528.0	523.2	466.5
Cast-iron pipe and fittings	170.3	169.9	166.3	163.4	471.2	470.9	445.7	404.0
Tin cans and other tinware	145.9	148.0	153.2	150.3	340.3	334.7	351.6	336.7
Wire drawn from purchased rods	131.0	130.6	132.5	143.7	274.0	271.3	276.2	280.3
Wirework	138.8	138.4	138.4	139.4	334.7	331.6	333.2	321.9
Cutlery and edge tools	157.8	162.1	157.7	162.2	394.3	405.8	392.1	386.3
Tools (except edge tools, machine tools, files, and saws)	159.3	160.3	150.8	169.5	372.5	373.8	376.3	381.0
Hardware	152.0	151.8	150.9	155.2	370.8	367.4	363.1	363.9
Plumbers' supplies	161.5	162.4	161.7	152.5	378.3	376.9	381.9	331.9
Stoves, oil burners, and heating equipment, not elsewhere classified	155.3	178.3	189.8	194.6	350.4	400.0	448.4	444.7
Steam and hot-water heating apparatus and steam fittings	202.3	204.7	206.4	203.8	454.6	466.5	474.3	453.4
Stamped and enameled ware and galvanizing	191.9	198.8	196.9	208.3	481.0	491.9	482.6	497.5
Fabricated structural and ornamental metalwork	184.7	185.3	186.7	179.9	406.8	406.2	409.4	378.9
Metal doors, sash, frames, molding, and trim	141.4	145.7	144.1	141.0	340.2	342.7	340.1	313.2
Bolts, nuts, washers, and rivets	188.4	186.3	185.6	187.4	445.1	433.6	428.0	406.0
Forgings, iron and steel	234.2	233.2	228.1	228.3	548.5	544.8	533.6	506.9
Wrought pipe, welded and heavy-riveted	219.2	220.7	223.6	219.7	497.2	515.8	505.1	472.7
Screw-machine products and wood screws	196.1	196.8	196.8	198.7	447.5	445.2	453.0	442.9
Steel barrels, kegs, and drums	121.7	120.3	122.1	126.4	348.1	328.8	329.8	334.0
Firearms	421.3	421.3	414.9	369.8	1005.6	1018.0	998.7	835.0
ELECTRICAL MACHINERY 1/	213.1	215.1	213.4	230.2	474.6	479.2	474.4	481.2
Electrical equipment	199.0	201.4	201.0	215.4	444.1	447.8	445.4	447.1
Radios and phonographs	221.0	218.1	211.7	238.2	551.4	539.7	509.1	542.9
Communication equipment	281.9	288.0	284.7	302.7	561.3	587.6	591.6	604.6

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

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

Industry group and industry	Employment indexes			Pay-roll indexes			
	1948			1947	1948		1947
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.
MACHINERY, EXCEPT ELECTRICAL 1/	227.5	227.9	228.7	233.8	491.6	486.9	491.7
Machinery and machine-shop products	243.7	243.5	244.0	249.0	532.6	527.3	531.5
Engines and turbines	281.9	281.2	279.1	292.4	639.3	620.1	622.1
Tractors	197.0	194.6	191.2	192.8	369.6	358.4	364.1
Agricultural machinery, excluding tractors	270.1	267.1	266.1	248.8	613.7	592.4	597.9
Machine tools	129.3	129.7	130.0	140.2	248.0	248.1	250.3
Machine-tool accessories	210.6	211.1	211.9	218.1	395.7	387.1	391.8
Textile machinery	190.0	189.7	190.1	185.3	461.4	452.0	453.2
Pumps and pumping equipment	278.9	277.6	276.8	302.1	632.9	625.5	620.1
Typewriters	113.2	116.6	126.8	159.5	265.7	271.1	255.0
Cash registers; adding, and calculating machines	222.5	224.1	224.8	229.4	494.2	487.9	481.3
Washing machines, wringers, and driers, domestic	167.3	207.3	210.6	218.1	316.6	470.0	484.2
Sewing machines, domestic and industrial	191.4	189.8	188.6	170.1	504.1	501.9	491.6
Refrigerators and refrigeration equipment	225.6	226.0	230.4	231.8	490.0	486.2	508.7
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	284.4	285.7	282.9	291.6	635.5	611.8	613.3
Locomotives	410.1	409.6	410.7	406.2	1024.4	942.5	909.4
Cars, electric- and steam-railroad	228.6	227.8	222.1	231.3	565.9	535.4	526.6
Aircraft and parts, excluding aircraft engines	379.3	377.4	366.2	335.8	839.0	830.7	794.9
Aircraft engines	320.9	315.0	309.0	291.0	618.9	601.3	599.7
Shipbuilding and boatbuilding	133.9	136.5	140.5	181.5	288.6	262.4	291.2
Motorcycles, bicycles, and parts	171.6	194.6	197.4	210.1	353.7	468.2	474.3
AUTOMOBILES	194.4	193.0	194.4	195.2	455.6	436.5	451.3
NONFERROUS METALS AND THEIR PRODUCTS 1/	173.6	176.1	176.0	180.3	390.2	391.9	394.2
Smelting and refining, primary, of nonferrous metals	149.1	150.0	149.1	144.6	342.1	340.0	344.6
Alloying; and rolling and drawing of nonferrous metals, except aluminum	141.0	140.4	140.7	137.5	309.8	298.2	308.0
Clocks and watches	133.1	139.0	141.9	140.8	331.6	348.1	353.0
Jewelry (precious metals) and jewelers' findings	185.3	190.3	190.6	191.6	402.3	407.3	397.0
Silverware and plated ware	228.3	233.5	231.5	223.5	545.2	572.0	565.0
Lighting equipment	151.0	155.2	155.6	166.6	335.4	343.1	340.0
Aluminum manufactures	172.5	173.6	170.5	190.1	357.5	360.2	355.7
Sheet-metal work, not elsewhere classified	195.2	197.9	199.0	218.3	455.1	452.3	467.4

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948		1947		1948		1947	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
LUMBER AND TIMBER BASIC PRODUCTS 1/	187.5	195.4	197.7	178.4	468.8	499.7	519.2	431.8
Sawmills and logging camps	202.5	212.7	216.2	194.7	505.7	549.7	575.3	473.4
Planing and plywood mills	193.3	194.9	193.2	176.2	488.7	486.4	491.9	421.1
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	140.7	143.1	143.3	148.3	345.4	349.2	354.9	355.7
Mattresses and bedsprings	162.9	173.9	180.9	187.3	351.3	371.2	414.3	420.8
Furniture	142.8	144.2	143.6	147.8	354.4	356.7	358.1	356.2
Wooden boxes, other than cigar	122.9	124.8	123.3	130.7	315.2	318.6	325.0	332.4
Caskets and other morticians' goods	135.0	140.1	138.4	151.5	282.4	287.8	284.9	319.1
Wood preserving	134.0	135.5	136.0	143.6	368.4	378.3	383.3	369.9
Wood, turned and shaped	136.1	138.0	140.4	142.1	331.1	328.3	338.7	325.2
STONE, CLAY, AND GLASS PRODUCTS 1/	157.4	158.9	159.4	154.7	366.9	366.9	372.1	335.7
Glass and glassware	166.5	170.6	172.6	173.1	385.3	384.0	395.8	367.6
Glass products made from purchased glass	147.0	147.3	143.8	146.0	350.7	344.6	329.0	329.7
Cement	152.1	153.0	151.5	145.7	312.2	315.2	316.1	282.0
Brick, tile, and terra cotta	143.1	143.9	143.9	134.2	355.5	356.5	362.4	308.5
Pottery and related products	182.0	181.7	180.4	174.1	404.1	407.5	399.8	362.2
Gypsum	151.5	157.6	160.7	154.6	378.5	387.7	397.1	333.3
Wallboard, plaster (except gypsum), and mineral wool	181.9	183.6	182.6	180.2	493.0	495.7	493.8	443.9
Lime	112.7	112.6	113.4	114.0	313.0	322.3	326.9	296.2
Marble, granite, slate, and other products	103.9	102.6	102.9	99.0	204.2	190.9	196.8	183.3
Abrasives	267.8	264.6	265.7	250.0	593.7	583.3	594.6	530.7
Asbestos products	157.9	161.0	161.7	156.6	390.6	398.4	414.5	366.1
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	108.0	108.9	109.2	112.7	291.9	291.9	291.2	302.0
Cotton manufactures, except smallwares	121.3	121.6	122.2	125.1	352.7	348.9	350.0	376.4
Cotton smallwares	93.2	94.2	95.1	101.8	224.2	222.1	222.5	234.1
Silk and rayon goods	95.4	96.4	96.7	91.8	293.4	299.1	299.4	266.5
Woolen and worsted manufactures, except dyeing and finishing	99.3	100.4	101.2	112.4	270.9	268.8	265.7	294.4
Hosiery	83.6	84.7	84.4	88.5	201.8	210.3	208.8	207.9
Knitted cloth	97.2	99.3	98.0	99.9	227.0	232.9	228.7	231.6
Knitted outerwear and knitted gloves	111.8	114.2	110.2	113.3	264.6	272.7	249.8	259.6
Knitted underwear	107.1	113.3	117.7	128.9	256.1	273.6	291.2	329.7
Dyeing and finishing, textiles, including woolen and worsted	130.9	130.1	129.5	133.1	327.7	316.8	311.6	320.3
Carpets and rugs, wool	150.7	150.7	150.9	140.6	389.8	393.5	393.2	334.8
Hats, fur-felt	75.8	78.4	74.6	89.7	175.3	163.1	162.9	202.1
Jute goods, except felts	113.5	114.3	107.1	80.6	283.6	285.9	266.8	175.4
Cordage and twine	116.7	117.8	116.8	128.8	288.6	291.5	284.7	320.0

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			
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	145.0	146.9	148.8	144.8	327.4	335.4	325.0
Men's clothing, not elsewhere classified	132.1	134.1	139.0	135.2	293.0	297.5	302.4
Shirts, collars, and nightwear	99.7	105.1	105.6	111.4	233.4	258.8	256.0
Underwear and neckwear, men's	112.4	114.8	111.3	108.8	322.2	335.6	309.9
Work shirts	128.4	133.2	133.5	109.8	319.6	339.5	352.4
Women's clothing, not elsewhere classified	169.5	170.6	170.8	164.4	369.8	379.8	351.0
Corsets and allied garments	102.7	102.5	103.0	104.4	231.9	235.8	233.1
Millinery	93.1	86.7	100.9	92.0	167.5	138.8	193.1
Handkerchiefs	107.8	108.2	104.4	101.1	295.1	303.2	289.3
Curtains, draperies, and bedspreads 2/	144.3	152.4	154.1	181.3	343.5	372.2	375.4
Housefurnishings, other than curtains, etc.	238.4	297.5	288.7	274.3	705.9	727.7	698.6
Textile bags	240.6	236.1	234.9	226.8	572.1	553.3	556.3
LEATHER AND LEATHER PRODUCTS 1/	104.3	104.5	108.3	115.3	234.3	223.3	236.8
Leather	94.6	92.8	95.4	100.4	210.9	202.0	206.3
Boot and shoe cut stock and findings	85.1	85.1	88.1	99.4	178.1	166.5	175.3
Boots and shoes	100.8	99.4	103.3	110.6	227.4	211.3	227.6
Leather gloves and mittens	106.0	124.1	128.2	130.1	209.9	259.4	266.8
Trunks and suitcases	153.5	170.8	175.2	170.1	339.8	410.5	401.4
FOOD 1/	146.6	152.9	163.8	146.9	333.5	340.7	358.2
Slaughtering and meat packing	161.5	152.0	146.4	160.8	365.6	336.2	305.4
Butter	174.0	172.1	176.2	163.6	382.6	379.0	384.7
Condensed and evaporated milk	172.1	179.6	186.3	170.6	407.4	424.4	435.6
Ice cream	135.7	137.8	148.6	141.4	270.4	273.9	291.2
Flour	149.4	150.2	144.5	151.1	346.6	351.9	355.2
Feeds, prepared	167.5	167.3	169.1	168.4	396.0	405.9	405.8
Cereal preparations	149.8	156.6	158.0	144.3	326.8	342.3	341.6
Baking	132.2	134.3	135.5	127.2	279.5	280.8	286.6
Sugar refining, cane	152.7	141.4	141.0	151.1	318.4	285.3	286.4
Sugar, beet	93.0	217.0	215.2	187.0	194.2	528.9	455.8
Confectionery	147.9	161.2	159.5	154.7	347.0	388.7	376.4
Beverages, nonalcoholic	165.7	169.7	180.5	156.4	284.7	287.1	298.6
Malt liquors	192.5	199.5	200.9	190.3	359.5	377.4	371.8
Canning and preserving	108.5	129.9	192.3	110.3	280.0	313.7	537.1
TOBACCO MANUFACTURES 1/	93.3	96.5	95.9	94.4	217.9	223.5	224.3
Cigarettes	124.2	127.9	128.2	124.5	269.2	264.4	279.0
Cigars	80.9	84.5	83.2	81.7	192.1	207.4	197.2
Tobacco (chewing and smoking) and snuff	78.0	77.2	78.6	82.1	178.5	173.1	180.7

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	
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
PAPER AND ALLIED PRODUCTS <u>1/</u>	151.1	151.7	151.0	149.9	356.5	362.2	357.4	334.0
Paper and pulp	150.2	150.0	149.5	147.2	357.9	364.7	359.1	332.5
Paper goods, other	168.2	168.6	168.4	169.1	394.7	392.8	381.2	362.4
Envelopes	151.0	151.2	148.0	142.6	315.6	318.4	307.0	284.1
Paper bags	151.0	152.8	160.1	163.9	362.5	362.4	391.4	370.2
Paper boxes	144.0	146.3	144.0	143.7	335.3	344.5	342.1	321.9
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	135.2	134.7	134.8	135.7	280.6	275.4	273.6	263.1
Newspapers and periodicals	128.3	127.2	127.0	122.7	258.9	253.3	252.2	230.0
Printing; book and job	147.8	147.1	147.9	150.0	316.0	307.9	305.4	297.8
Lithographing	119.3	119.7	119.7	125.3	233.3	234.5	235.5	237.1
Bookbinding	133.8	136.0	135.3	148.8	310.6	315.1	309.7	326.6
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	207.0	207.8	208.1	205.4	462.3	461.9	460.1	424.1
Paints, varnishes, and colors	168.2	170.2	172.1	171.3	325.5	329.9	338.4	315.8
Drugs, medicines, and insecticides	233.9	235.4	234.1	239.2	511.9	512.4	506.9	488.5
Perfumes and cosmetics	118.0	124.1	122.7	123.6	249.0	261.9	252.2	240.5
Soap	173.5	173.9	176.4	167.4	404.1	405.3	412.2	381.3
Rayon and allied products	134.0	132.3	132.3	131.4	305.3	300.1	296.7	265.9
Chemicals, not elsewhere classified	302.1	301.4	300.3	296.1	639.7	637.5	628.6	580.8
Explosives and safety fuses	375.2	375.4	379.3	346.7	746.9	749.1	763.8	651.5
Compressed and liquefied gases	239.6	239.2	247.9	248.8	483.8	491.0	488.5	459.6
Ammunition, small-arms	167.7	171.5	173.7	172.7	395.2	403.7	409.4	411.9
Fireworks	208.0	220.6	227.4	243.5	541.4	544.2	552.7	633.8
Cottonseed oil	168.3	178.0	179.0	159.5	539.9	555.4	539.8	448.4
Fertilizers	152.1	152.4	152.9	163.1	427.5	415.3	430.8	430.8
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	155.4	157.7	152.7	155.5	346.4	354.9	344.8	313.3
Petroleum refining	154.8	155.3	146.9	153.7	338.2	343.9	324.7	300.4
Coke and byproducts	148.7	148.2	147.8	138.3	353.3	346.7	349.5	294.8
Paving materials	108.8	113.6	117.2	109.4	259.6	253.3	276.3	224.8
Roofing materials	187.5	212.8	223.3	226.2	412.8	517.5	577.7	535.7

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
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
RUBBER PRODUCTS <u>1/</u>	161.8	164.5	163.5	175.3	332.7	341.9	345.5	373.6
Rubber tires and inner tubes	165.3	168.2	165.9	187.8	299.6	312.9	318.2	365.6
Rubber boots and shoes	158.0	156.2	154.0	151.4	388.2	377.2	369.0	367.1
Rubber goods, other	159.2	162.9	163.4	169.1	370.0	378.7	383.0	379.9
MISCELLANEOUS INDUSTRIES <u>1/</u>	177.0	184.9	187.8	187.5	405.0	420.8	422.6	405.1
Instruments (professional and scientific), and fire-control equipment	264.0	265.0	261.0	248.1	573.6	571.9	555.5	499.2
Photographic apparatus	224.3	224.6	224.5	221.8	456.4	456.7	450.2	421.1
Optical instruments and ophthalmic goods	221.5	218.7	221.8	235.4	455.7	447.8	451.9	458.5
Pianos, organs, and parts	170.8	173.7	178.2	226.3	381.2	389.5	387.6	513.4
Games, toys, and dolls	198.0	243.9	258.7	201.3	470.8	633.2	651.1	469.5
Buttons	117.8	116.6	117.0	119.1	285.9	273.6	275.4	280.8
Fire extinguishers	272.6	281.0	281.8	268.0	635.1	638.1	616.9	520.4

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

1/ See footnote 1, table 8.

2/ Curtains, draperies, and bedspreads - September 1948 pay roll revised to 379.9.

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
	Dec.	Nov.	Oct.	Dec.	Dec.	Nov.	Oct.	Dec.
MINING:								
Coal								
Anthracite	92.0	92.1	91.7	91.5	224.6	216.0	260.4	239.4
Bituminous coal	109.0	108.3	108.8	108.3	353.3	343.1	358.5	345.8
Metal	97.6	95.8	99.3	97.0	225.9	216.8	224.9	198.8
Iron	152.7	152.1	155.4	148.0	358.0	355.0	371.6	301.1
Copper	98.2	95.6	107.9	106.6	245.4	232.2	255.6	236.5
Lead and zinc	103.6	101.9	99.3	95.8	277.8	265.4	252.7	231.6
Gold and silver	33.1	31.6	30.9	32.5	61.1	56.6	56.4	56.5
Miscellaneous	194.7	188.4	188.6	187.2	438.1	401.4	405.0	349.2
Quarrying and nonmetallic	121.8	124.6	126.5	122.6	321.2	329.5	345.2	295.3
Crude petroleum and natural gas production	113.2	114.0	113.5	110.4	235.7	235.3	230.7	203.2
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railroads ^{1/}	132.3	134.6	136.2	134.8	^{2/}	^{2/}	^{2/}	^{2/}
Street railways and busses ^{3/}	125.9	126.2	126.9	128.6	233.4	231.2	235.7	226.7
Telephone	202.2	202.1	201.9	195.0	339.7	349.7	338.8	313.0
Telegraph	90.0	90.7	91.6	97.6	212.6	215.3	217.4	207.8
Electric light and power	115.6	115.5	115.1	110.3	206.4	205.8	204.5	185.7
TRADE: ^{4/}								
Wholesale	117.8	118.3	118.1	117.1	224.4	224.2	222.5	213.9
Retail	129.0	119.4	116.0	130.2	250.4	228.4	223.5	237.6
Food	114.6	113.8	113.8	117.4	234.8	229.6	227.4	221.5
General merchandise	177.1	146.4	135.3	175.5	334.8	270.3	252.7	314.0
Apparel	135.0	122.8	119.4	136.7	254.7	226.5	222.2	248.8
Furniture and housefurnishings	97.6	93.8	92.2	97.4	201.0	182.5	184.3	192.9
Automotive	113.7	111.7	110.0	109.9	224.7	219.0	215.6	204.2
Lumber and building materials	123.9	126.6	127.8	126.1	251.0	254.7	261.3	238.1
SERVICE:								
Hotels (year-round) ^{5/}	114.6	115.3	116.2	118.1	237.9	237.9	238.7	233.2
Power laundries	114.4	114.8	116.7	120.9	227.7	226.9	227.6	233.6
Cleaning and dyeing	148.4	150.5	153.7	156.5	291.3	289.3	300.0	292.8

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

^{1/} Source: Interstate Commerce Commission.^{2/} Not available.^{3/} August and September 1948 pay roll revised to 235.2 and 233.4.^{4/} Includes all nonsupervisory employees and working supervisors.^{5/} Money payments only; additional value of board, room, uniforms, and tips, not included.

EXPLANATORY NOTES

Sec. A. Scope of Employment Adjustments - 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. Adjustments 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 adjustments are completed, they are published in this report and indicated by appropriate footnotes. In the nonmanufacturing industries, the entire series of mining industries have been adjusted to 1946 bench-mark levels.

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

Sec. D. How Employment Estimates Are Made - Estimates of changes in the level of employment are based on reports from a sample group of establishments, inasmuch as full coverage is prohibitively costly and time-consuming. In using a sample, it is essential that an accurate base be established from which estimates may be carried forward. This base or "bench mark" is either a complete count or an estimate with a satisfactory degree of accuracy. When a new bench mark becomes available, estimates

prepared since the last bench mark are reviewed to determine if any adjustment of level is required. This is the basic principle of employment estimating used by the BLS. It yields a satisfactory compromise between a slow but highly accurate complete count on the one hand, and a rapid but less accurate sample count on the other.

Briefly, the Bureau of Labor Statistics computes employment estimates as follows: first, a bench mark or level of employment is determined; second, a sample of establishments is selected; and third, changes in employment indicated by this reporting sample are applied to the bench mark to determine the monthly estimates of employment between bench-mark periods. For example, if the latest complete data on employment for an industry were 40,200 in September 1945, and if the industry has a reporting sample of 13 establishments employing 23,200 workers in September and 23,800 in October, the October estimates would be prepared as follows:

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

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

Why Adjustments 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 adjustments correct for the downward bias that had accumulated in the non-manufacturing series beginning January 1945 and in the manufacturing series beginning January 1946. Adjustments in some industry divisions were made in order to incorporate greater refinements in methodology and new source materials that have become available.

Sec. E. Comparability With Other Types of Employment Data - The Bureau of Labor Statistics employment estimates are based upon reports submitted by cooperating establishments and therefore differ from employment information obtained by household interviews, such as the Monthly Report of the Labor Force. The BLS estimates of employment in nonagricultural establishments differ from the Monthly Report of the Labor Force total nonagricultural employment estimates in several important respects.

For example: (1) The BLS estimates cover all full- and part-time wage and salary workers in private nonagricultural establishments who worked or received pay during the pay period ending nearest the 15th of the month; in Federal establishments during the pay period ending just before the first of the month; and in State and local government during the pay period ending on or just before the last of the month. Persons who worked in more than one establishment during the reporting period would be counted more than once; (2) Proprietors, self-employed persons, domestic servants, and unpaid family workers are excluded.

Sec. F. Pay-Roll Indexes - Cooperating establishments are instructed to report pay rolls of production or nonsupervisory workers prior to deduction for old age and unemployment insurance, withholding taxes, bonds, and union dues. Pay for sick leave, holidays, and vacations taken is included. Respondents are instructed to exclude pay for vacations not taken as well as cash estimates of any payments in kind. Bonuses, unless earned and paid regularly each pay period, are also excluded.

The methodology for obtaining pay-roll estimates is similar to that for employment estimates. Sample changes showing monthly movements are used in projecting established bench marks to secure current pay-roll estimates. These pay-roll estimates are converted into indexes, using the 1939 average as a base.

Sec. G. Source of Data - Employment and pay-roll estimates are based on reports from cooperating establishments. The approximate number of establishments, and workers covered, for each industry division is as follows:

Approximate Coverage of BLS Employment and Pay-Roll Sample

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

Sec. H. Coverage of Employment Estimates - The employment estimates shown in tables 1, 2, 3, 6, and 7 cover all full- and part-time wage and salary workers who worked or received pay during the pay period ending nearest the 15th of the month. Proprietors, self-employed persons, domestic servants, and personnel of the armed forces are excluded. The estimates and indexes shown in tables 8 and 10 refer to production and related workers as defined in the glossary, page ix.

Sec. I. State Estimates - State estimates are prepared in cooperation with various State Agencies as indicated on page v. The estimates for manufacturing have been adjusted to recent data made available under the Federal Social Security program. Since some States have adjusted to more recent bench-mark data than others, and because varying methods of computation are used, the total of the State estimates differs from the national total (see tables 1 and 2). Because of these recent revisions the State estimates for manufacturing are not consistent with the unrevised data shown prior to June 1947 for total employment in non-agricultural establishments, by State. A number of States also make available more detailed industry data and information for earlier periods which may be secured directly upon request to the appropriate State Agency. Estimates of nonagricultural employment, by State, for those States which are now publishing such estimates are shown in table 6 and are consistent with the manufacturing estimates in table 7. As nonagricultural estimates for additional States become available, they will be shown in table 6.

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

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

COOPERATING STATE AGENCIES

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

PLS 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, Room 1000, 341 Ninth Avenue, New York 1, New York (Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania).
- Southern - Regional Director, U. S. Bureau of Labor Statistics, 1020 Grant Bldg., Forsyth & Walton Streets, Atlanta 3, Georgia (Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia).
- North Central - Regional Director, U. S. Bureau of Labor Statistics, Room 312, 226 W. Jackson Blvd., Chicago 6, Illinois (Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, West Virginia, Wisconsin).
- Pacific-Rocky Mountain - Regional Director, U. S. Bureau of Labor Statistics, 550 Federal Office Bldg., Fulton and Leavenworth Streets, San Francisco 2, California (Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming).

GLOSSARY

- Continental United States - Covers only the 48 States and the District of Columbia.
- Contract construction - Covers only firms engaged in the construction business on a contract basis for others. Force-account construction workers, i.e., hired directly by and on the pay rolls of Federal, State, and local government, public utilities, and private establishments, are excluded.
- Defense Agencies - Covers civilian employees of the National Military Establishment, Maritime Commission, National Advisory Committee for Aeronautics, The Panama Canal, Philippine Alien Property Administration, Philippine War Damage Commission, Selective Service System, War Assets Administration, Office of Defense Transportation, National Security Resources Board, National Security Council.
- Family Allowances - Represents the Government's contribution; the amount contributed by the personnel is included under pay rolls.
- Federal Government-Executive Branch - Includes U. S. Navy Yards, Federal arsenals, and force-account construction. Fourth-class postmasters are included under the executive branch in table 4, but are excluded from the government data shown in tables 1 and 3.

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

Finance - Covers establishments operating in the fields of finance, insurance, and real estate; excludes the Federal Reserve District Banks and the mixed ownership banks of the Farm Credit Administration.

Government - Covers Federal, State, and local governmental establishments performing legislative, executive, and judicial functions, as well as all government-owned and operated establishments and institutions (arsenals, navy yards, hospitals, etc.), government corporations, and government force-account construction. The data shown in tables 1 and 3 exclude fourth-class postmasters because they presumably have other major jobs.

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

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

Indexes of production-worker weekly pay rolls - Estimates of production-worker weekly pay rolls expressed as a percentage of the average weekly pay roll for 1939.

Leave payments - Payments were authorized by Public Law 704 of the 79th Congress and were continued by Public Law 254 of the 80th Congress to enlisted personnel who were discharged prior to September 1, 1946 for accrued and unused leave and to officers and enlisted personnel then on active duty for leave accrued in excess of 60 days. Value of bonds represents face value; interest is paid in addition when bonds are cashed. Lump-sum payments for terminal leave, which were authorized by Public Law 350 of the 80th Congress, and were started October 1947, are excluded here and included under pay rolls.

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

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

Military pay rolls - Represent estimated pay roll obligations based on an average monthly personnel count, plus lump-sum payments for terminal leave. Pay rolls for the Navy and Coast Guard include cash payments for clothing-allowance balances in January, April, July, and October.

Mining - Covers establishments engaged in the extraction from the earth of organic and inorganic minerals which occur in nature as solids, liquids, or gases; includes various contract services required in mining operations, such as removal of overburden, tunnelling and shafting, and the drilling or acidizing of oil wells; also includes ore dressing, beneficiating, and concentration.

Nonagricultural establishments - Governmental or private business establishments; (1) that are physically located within continental United States; and (2) whose principal activity can be classified under one of the following industry divisions - manufacturing, mining, contract construction, transportation and public utilities, trade, finance, service, or government.

Pay rolls - Private pay rolls represent weekly pay rolls of both full- and part-time production and related workers (or nonsupervisory employees and working supervisors) who worked or received pay for any part of the pay period ending nearest the 15th of the month, before deductions for old-age and unemployment insurance, group insurance, withholding tax, bonds, and union dues, but after deductions for damaged work. Includes pay for sick leave, holidays, and vacations taken. Excludes cash payments for vacations not taken, retroactive pay not earned during period reported, value of payments in kind, and bonuses, unless earned and paid regularly each pay period. In coal mining portal-to-portal pay is included.

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

Production and related workers - Includes working foremen and all nonsupervisory 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 sales 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.