

# **EMPLOYMENT and PAY ROLLS**

**DETAILED REPORT  
SEPTEMBER 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.

### Machinery, except electrical:

- Machinery and machine-shop products
- Pumps and pumping equipment

### Textile-mill products and other fiber manufactures:

- Silk and rayon goods
- Hosiery
- Knitted outerwear and knitted gloves
- Knitted underwear
- Dyeing and finishing textiles,  
including woolen and worsted
- Carpets and rugs, wool

### Food:

- Slaughtering and meat packing
- Flour
- Baking
- Sugar refining, cane
- Sugar, beet
- Confectionery
- Beverages, nonalcoholic
- Malt liquors
- Canning and preserving

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.

LS 49-1593

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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	1945			1947	
	September	August	July	September	August
TOTAL	45,898	45,480	45,098	44,513	44,125
Manufacturing	16,704	16,443	16,172	16,175	15,962
Mining	948	952	922	921	923
Contract construction	2,240	2,253	2,219	2,107	2,096
Transportation and public utilities	4,093	4,139	4,136	4,134	4,163
Trade	9,733	9,660	9,646	9,471	9,356
Finance	1,732	1,761	1,754	1,668	1,688
Service	4,647	4,622	4,645	4,634	4,619
Government	5,801	5,650	5,604	5,403	5,318

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	
	Sept.	Aug.	July	Sept.	Aug.
ALL MANUFACTURING	16,704	16,443	16,172	16,175	15,962
DURABLE GOODS	8,292	8,187	8,165	8,070	7,987
Iron and steel and their products	1,947	1,928	1,897	1,892	1,884
Electrical machinery	726	716	714	752	745
Machinery, except electrical	1,570	1,564	1,571	1,560	1,552
Transportation equipment, except automobiles	574	542	561	540	530
Automobiles	977	952	984	960	926
Nonferrous metals and their products	469	465	457	468	463
Lumber and timber basic products	930	930	912	821	821
Furniture and finished lumber products	558	552	542	557	549
Stone, clay, and glass products	541	538	527	520	517
NONDURABLE GOODS	8,412	8,256	8,007	8,105	7,975
Textile-mill products and other fiber manufactures	1,384	1,397	1,364	1,341	1,320
Apparel and other finished textile products	1,354	1,332	1,235	1,251	1,222
Leather and leather products	424	429	421	435	429
Food	2,076	1,957	1,903	1,964	1,922
Tobacco manufactures	101	99	96	100	99
Paper and allied products	484	479	476	470	469
Printing, publishing, and allied industries	725	720	716	713	710
Chemicals and allied products	784	775	751	763	750
Products of petroleum and coal	244	246	247	238	238
Rubber products	247	245	240	252	252
Miscellaneous industries	589	577	558	578	564

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	
	September	August	July	September	August
<b>MINING</b>	948	952	922	921	923
Anthracite	82	83	81	81	82
Bituminous coal	426	426	395	412	408
Metal	100	99	103	100	102
Quarrying and nonmetallic	98	98	97	98	99
Crude petroleum and natural gas production <u>1/</u>	242	246	246	230	232
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	4,093	4,139	4,136	4,134	4,163
Transportation	2,833	2,869	2,873	2,929	2,946
Communication	741	747	745	713	722
Other public utilities	519	523	518	492	495
<b>GOVERNMENT</b>	5,801	5,650	5,604	5,403	5,318
Federal	1,873	1,855	1,837	1,761	1,795
State and local	3,928	3,795	3,767	3,642	3,523

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. <sup>1/</sup>

(In thousands)

Area and branch	Employment (as of first of month)				Pay rolls (total for month)			
	1948		1947		1948			1947
	Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.
<u>All Areas</u>								
<b>TOTAL FEDERAL</b>	2,108.3	2,094.6	2,084.0	2,020.9	\$546,993	\$546,551	\$528,437	\$470,515
Executive	2,068.7	2,055.4	2,044.4	1,980.1	537,165	536,653	518,639	461,157
Defense agencies	933.2	924.6	919.8	907.0	231,840	230,147	223,968	201,582
Post Office Dept.	481.6	476.4	471.2	425.5	123,040	122,320	121,677	96,485
Other agencies	653.9	654.4	653.4	647.6	182,285	184,186	172,994	163,090
Legislative	7.4	7.3	7.3	7.2	2,662	2,695	2,600	2,448
Judicial	3.5	3.5	3.5	3.4	1,453	1,390	1,301	1,284
Government corporations	28.7	28.4	28.8	30.2	5,713	5,813	5,897	5,626
<u>Continental United States</u>								
<b>TOTAL FEDERAL</b>	1,893.3	1,875.1	1,857.8	1,781.7	504,399	504,040	487,057	430,555
Executive	1,860.7	1,842.5	1,825.2	1,748.5	495,228	494,839	478,016	421,857
Defense agencies	756.5	742.9	732.2	704.6	198,642	197,058	191,686	169,441
Post Office Dept.	480.0	474.8	469.6	424.0	122,606	121,906	121,263	96,138
Other agencies	624.2	624.8	623.4	619.9	173,980	175,875	165,067	156,278
Legislative	7.4	7.3	7.3	7.2	2,662	2,695	2,600	2,448
Judicial	3.4	3.4	3.4	3.3	1,414	1,351	1,263	1,248
Government corporations	21.8	21.9	21.9	22.7	5,095	5,155	5,178	5,002
<u>Washington, D. C.</u>								
<b>TOTAL GOVERNMENT</b>	234.8	234.3	233.3	221.9	72,307	71,359	67,208	59,911
D. C. government	18.5	18.9	19.3	18.1	4,576	3,480	3,461	4,382
Federal	216.3	215.4	214.0	203.8	67,731	67,879	63,747	55,529
Executive	208.3	207.5	206.1	196.0	64,840	64,956	60,931	52,876
Defense agencies	70.8	70.2	69.0	64.6	21,070	21,114	20,235	16,651
Post Office Dept.	7.6	7.5	7.5	7.1	2,709	2,695	2,651	2,239
Other agencies	129.9	129.8	129.6	124.3	41,061	41,147	38,045	33,986
Legislative	7.4	7.3	7.3	7.2	2,662	2,695	2,600	2,448
Judicial	.6	.6	.6	.6	229	228	216	205

See the glossary for definitions.

<sup>1/</sup> Data for Central Intelligence Agency are excluded starting August 1947 for employment and July 1947 for pay rolls.

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

(In thousands)

Personnel and pay	1948			1947	
	September	August	July	September	August
PERSONNEL, TOTAL.....	1,548	1,514	1,463	1,557	1,575
Army.....	608	579	552	<sup>2/</sup> 955	<sup>2/</sup> 972
Air Force.....	401	400	388	<sup>2/</sup>	<sup>2/</sup>
Navy.....	432	430	420	491	492
Marine Corps.....	86	86	84	92	92
Coast Guard.....	21	21	20	19	19
Men.....	1,535	1,501	1,449	1,539	1,556
Women.....	13	14	14	18	19
PAY, TOTAL.....	\$292,490	\$278,234	\$276,590	\$332,804	\$334,129
<u>By branch:</u>					
Army and Air Force.....	184,162	171,556	167,870	194,535	192,505
Navy.....	88,933	87,715	90,203	116,810	117,518
Marine Corps.....	14,682	14,404	13,819	16,218	17,884
Coast Guard.....	4,713	4,560	4,699	5,240	6,222
<u>By type of pay:</u>					
Pay rolls.....	251,747	244,547	246,422	248,928	248,670
Mustering-out pay.....	9,365	3,955	2,516	9,632	10,498
Family allowances.....	28,143	27,756	26,353	24,210	24,502
Leave payments.....	3,235	1,976	1,299	50,034	50,459
Cash.....	620	416	301	6,054	4,831
Bonus.....	2,615	1,560	998	43,980	45,628

See the glossary for definitions.

<sup>1/</sup> Because of rounding, the individual figures do not necessarily add to group totals.<sup>2/</sup> 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	
	Aug.	July	June	Aug.	July
Arizona	154	154	155	143	144
Connecticut	760	761	765	765	764
Georgia	743	731	736	734	718
Illinois	3,195	3,185	3,174	3,122	3,112
Indiana	1,211	1,206	1,209	1,187	1,184
Maine	280	276	270	273	265
Maryland	717	708	707	671	658
Massachusetts	1,726	1,714	1,731	1,688	1,674
Minnesota	823	813	803	788	783
Montana	142	141	138	136	137
Nevada <sup>1/</sup>	49	50	49	49	50
New Jersey	1,601	1,591	1,593	1,562	1,543
New Mexico <sup>2/ 3/</sup>	129	127	125	119	117
New York <sup>3/</sup>	5,461	5,405	5,416	5,405	5,338
Pennsylvania <sup>3/</sup>	3,626	3,586	3,509	3,538	3,509
Rhode Island	285	286	287	278	278
Tennessee	754	743	743	698	689
Texas	1,749	1,740	1,724	1,657	1,652
Utah	177	179	176	175	176
Vermont <sup>1/</sup>	96	95	96	96	94
Washington	677	674	655	668	657
Wisconsin	1,006	1,016	993	987	1,001

See explanatory notes, sections H and I.

<sup>1/</sup> Does not include contract construction.

<sup>2/</sup> Includes contract construction; not comparable with data published in previous report.

<sup>3/</sup> Interim months have been revised as follows:

New Mexico - September 1947 through May 1948 to 120, 118, 119, 121, 118, 117, 119, 120, and 123.

New York - September 1947 through May 1948 to 5,461, 5,502, 5,508, 5,575, 5,397, 5,375, 5,400, 5,380, and 5,385.

Pennsylvania - September 1947 through May 1948 to 3,573, 3,604, 3,619, 3,662, 3,566, 3,546, 3,584, 3,522, and 3,579.

Additional revisions for earlier months are available upon request.

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

(In thousands)

Region and State	1948			1947	
	August	July	June	August	July
<b>NEW ENGLAND:</b>					
Maine <u>1/</u>	120.2	116.5	115.2	119.4	112.9
New Hampshire	83.6	82.1	82.7	80.7	77.6
Vermont <u>1/</u>	37.8	37.0	37.8	39.1	37.2
Massachusetts	725.5	710.0	726.1	720.4	707.2
Rhode Island	144.1	144.8	146.5	143.0	141.4
Connecticut <u>1/</u>	392.1	393.3	396.5	406.0	403.3
<b>MIDDLE ATLANTIC:</b>					
New York	1,869.6	1,816.5	1,831.7	1,870.8	1,801.9
New Jersey	743.9	732.8	741.8	735.9	719.6
Pennsylvania, <u>2/</u>	1,498.0	1,481.2	1,495.4	1,490.7	1,471.1
<b>EAST NORTH CENTRAL:</b>					
Ohio	1,224.6	1,216.4	1,228.2	1,238.1	1,232.0
Indiana	548.6	544.1	546.4	552.3	550.0
Illinois	1,231.0	1,227.4	1,228.7	1,237.8	1,228.6
Michigan	987.5	996.8	962.7	1,004.6	997.0
Wisconsin <u>1/</u>	434.4	447.9	429.7	446.6	461.5
<b>WEST NORTH CENTRAL:</b>					
Minnesota <u>1/</u>	210.0	206.6	203.3	206.8	205.6
Iowa <u>1/</u>	153.0	152.1	149.8	151.3	149.8
Missouri <u>1/</u>	349.1	345.7	343.9	348.9	343.5
North Dakota <u>2/</u>	6.8	7.0	7.1	6.9	6.8
South Dakota	11.7	11.8	11.9	11.5	11.8
Nebraska	43.1	43.6	43.0	43.2	43.4
Kansas	84.5	83.9	84.5	80.0	80.7
<b>SOUTH ATLANTIC:</b>					
Delaware	47.9	46.6	46.6	48.4	45.2
Maryland	239.2	232.8	229.4	228.2	217.4
District of Columbia	16.7	17.2	17.1	17.3	17.4
Virginia	214.7	211.5	211.1	211.5	208.2
West Virginia	133.7	133.3	133.9	132.5	131.0
North Carolina <u>2/</u>	378.9	362.9	381.7	366.6	365.2
South Carolina	197.0	195.8	200.5	192.0	191.5
Georgia <u>1/</u>	280.9	274.3	275.7	278.3	262.5
Florida <u>1/</u>	88.2	88.0	90.0	86.8	85.7

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

(In thousands)

Region and State	1948			1947	
	August	July	June	August	July
<b>EAST SOUTH CENTRAL:</b>					
Kentucky	127.4	126.8	127.0	125.8	122.4
Tennessee <u>1/</u>	258.9	255.6	255.7	252.0	245.6
Alabama <u>1/</u> <u>2/</u>	228.3	228.9	227.4	220.3	218.5
Mississippi	90.6	91.3	89.5	95.3	91.4
<b>WEST SOUTH CENTRAL:</b>					
Arkansas <u>1/</u> <u>2/</u>	76.8	75.6	76.6	82.9	75.6
Louisiana <u>1/</u>	153.6	148.2	149.4	150.3	143.3
Oklahoma <u>1/</u>	66.9	66.7	68.9	64.0	62.9
Texas	354.1	352.9	354.8	341.3	335.1
<b>MOUNTAIN:</b>					
Montana	18.0	18.1	17.7	18.2	18.4
Idaho <u>1/</u>	20.1	20.6	18.8	23.8	22.9
Wyoming	6.8	6.8	6.8	6.8	6.7
Colorado	56.9	56.5	56.3	56.6	55.9
New Mexico <u>1/</u> <u>2/</u>	10.5	10.4	10.0	9.3	9.1
Arizona <u>1/</u>	15.7	15.8	16.0	13.4	14.0
Utah	27.4	28.7	26.0	26.3	29.1
Nevada <u>1/</u>	3.4	3.4	3.4	3.4	3.4
<b>PACIFIC:</b>					
Washington	183.1	179.9	163.4	185.0	176.5
Oregon	121.2	117.3	112.8	122.4	116.6
California <u>2/</u>	770.9	741.3	713.0	760.2	704.0

See explanatory notes, sections H and I.

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

2/ Interim months have been revised as follows:

Alabama - September 1947 through May 1948 to 225.4, 227.9, 230.8, 230.9, 232.7, 230.2, 230.9, 226.5, and 227.2.

Arkansas - October and November 1947 to 76.7 and 76.8.

California - September 1947 through February 1948 to 744.8, 736.4, 717.7, 715.1, 705.0 and 703.5.

New Mexico - September 1947 through April 1948 to 9.1, 8.8, 8.6, 8.6, 8.3, 8.2, 8.2, and 8.8.

North Carolina - September 1947 through January 1948 to 368.1, 374.1, 378.7, 380.8 and 382.7.

North Dakota - September through November 1947 to 6.7, 6.7 and 6.8.

Pennsylvania - September 1947 through May 1948 to 1,504.5, 1,517.9, 1,523.1, 1,527.3, 1,515.6, 1,513.1, 1,514.3, 1,497.5 and 1,489.4.

Additional revisions for earlier months are available upon request.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries  
(In thousands)

Industry group and industry	1948			1947	
	Sept.	Aug.	July	Sept.	Aug.
ALL MANUFACTURING	13,478	13,245	12,987	13,125	12,928
DURABLE GOODS	6,793	6,709	6,681	6,630	6,555
NONDURABLE GOODS	6,685	6,536	6,306	6,495	6,373
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS	1,649	1,631	1,601	1,604	1,597
Blast furnaces, steel works, and rolling mills	534.0	534.9	526.5	505.1	508.6
Gray-iron and semisteel castings	109.8	106.4	104.7	112.4	113.6
Malleable-iron castings	38.5	37.3	36.1	35.6	35.4
Steel castings	70.9	69.4	68.2	66.2	65.5
Cast-iron pipe and fittings	29.3	29.5	28.9	27.8	27.5
Tin cans and other tinware	50.0	49.0	47.3	48.4	47.6
Wire drawn from purchased rods	28.6	28.3	28.0	30.5	30.8
Wirework	42.7	42.3	41.8	41.1	40.3
Cutlery and edge tools	23.8	22.5	21.8	23.9	23.3
Tools (except edge tools, machine tools, files, and saws)	24.7	24.5	24.6	24.6	24.4
Hardware	50.8	50.1	49.3	49.3	48.3
Plumbers' supplies	41.2	40.3	38.8	38.4	38.5
Stoves, oil burners, and heating equipment, not elsewhere classified	87.3	84.0	77.6	90.3	86.4
Steam and hot-water heating apparatus and steam fittings	61.7	60.4	57.0	61.2	61.3
Stamped and enameled ware and galvanizing	108.4	109.0	110.1	114.7	111.9
Fabricated structural and ornamental metalwork	61.7	60.9	59.3	60.3	60.3
Metal doors, sash, frames, molding, and trim	10.9	10.8	10.4	10.3	10.1
Bolts, nuts, washers, and rivets	28.1	27.9	28.1	28.3	28.4
Forgings, iron and steel	36.8	35.2	35.1	36.3	36.2
Wrought pipe, welded and heavy-riveted	19.7	19.7	19.8	17.8	17.7
Screw-machine products and wood screws	34.8	34.8	35.2	35.3	35.4
Steel barrels, kegs, and drums	8.0	8.1	7.9	8.2	8.3
Firearms	21.6	21.3	21.5	18.5	18.3
ELECTRICAL MACHINERY 1/	548	538	535	578	569
Electrical equipment	368.7	363.9	362.3	384.7	379.0
Radios and phonographs	89.7	86.9	85.9	99.6	96.8
Communication equipment	89.7	87.9	87.0	93.6	93.3

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	
	Sept.	Aug.	July	Sept.	Aug.
<b>MACHINERY, EXCEPT ELECTRICAL <sup>1/</sup></b>	1,208	1,202	1,209	1,209	1,198
Machinery and machine-shop products	509.0	502.2	505.9	516.5	512.6
Engines and turbines	50.5	51.5	52.4	53.5	53.5
Tractors	59.2	60.0	61.1	57.1	55.7
Agricultural machinery, excluding tractors	72.8	72.6	74.9	67.6	66.4
Machine tools	48.0	47.8	46.8	52.3	52.5
Machine-tool accessories	55.5	55.1	51.8	56.0	56.4
Textile machinery	42.1	42.2	41.4	37.3	36.4
Pumps and pumping equipment	69.1	67.9	68.5	75.7	74.9
Typewriters	21.0	22.1	22.9	24.2	23.6
Cash registers; adding, and calculating machines	44.9	44.6	45.2	42.1	41.0
Washing machines, wringers, and driers, domestic	15.7	15.6	15.7	14.9	15.1
Sewing machines, domestic and industrial	14.6	14.3	14.0	12.1	12.1
Refrigerators and refrigeration equipment	81.8	82.3	84.3	79.1	78.6
<b>TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES</b>	439	414	430	414	405
Locomotives	26.8	17.2	26.4	25.1	24.4
Cars, electric- and steam-railroad	54.7	54.6	54.5	55.4	54.6
Aircraft and parts, excluding aircraft engines	138.5	133.5	130.3	129.7	130.7
Aircraft engines	26.7	21.6	25.6	26.6	26.7
Shipbuilding and boatbuilding	97.5	99.5	103.4	93.0	87.1
Motorcycles, bicycles, and parts	13.3	11.6	10.8	13.9	13.6
<b>AUTOMOBILES</b>	777	763	787	767	741
<b>NONFERROUS METALS AND THEIR PRODUCTS <sup>1/</sup></b>	399	395	388	400	396
Smelting and refining, primary, of nonferrous metals	40.2	41.4	41.9	39.8	39.9
Alloying; and rolling and drawing of nonferrous metals, except aluminum	54.3	52.9	51.9	53.2	53.4
Clocks and watches	28.6	27.5	25.9	27.8	27.2
Jewelry (precious metals) and jewelers' findings	27.1	26.3	25.8	26.4	25.6
Silverware and plated ware	27.9	27.7	26.5	25.5	25.0
Lighting equipment	32.2	31.6	30.2	35.2	35.3
Aluminum manufactures	38.5	39.5	39.3	42.4	41.0
Sheet-metal work, not elsewhere classified	37.0	37.3	36.8	38.7	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	
	Sept.	Aug.	July	Sept.	Aug.
<b>LUMBER AND TIMBER BASIC PRODUCTS 1/</b>	843	844	829	745	745
Sawmills and logging camps	591.4	692.1	681.1	613.3	614.6
Planing and plywood mills	151.9	152.5	148.3	132.0	130.8
<b>FURNITURE AND FINISHED LUMBER PRODUCTS 1/</b>	466	461	452	466	460
Mattresses and bedsprings	36.8	35.2	33.2	35.4	33.4
Furniture	252.5	249.7	244.4	247.7	244.4
Wooden boxes, other than cigar	34.7	35.0	35.6	38.0	37.8
Caskets and other morticians' goods	19.4	19.3	18.9	20.8	20.5
Wood preserving	17.3	17.6	17.2	19.4	20.1
Wood, turned and shaped	34.2	34.6	33.6	33.4	33.4
<b>STONE, CLAY, AND GLASS PRODUCTS</b>	464	461	450	447	444
Glass and glassware	118.6	115.6	111.0	118.9	118.2
Glass products made from purchased glass	12.1	12.0	12.4	12.0	12.0
Cement	37.2	38.0	38.1	37.0	36.8
Brick, tile, and terra cotta	81.5	81.3	79.8	75.4	75.1
Pottery and related products	58.8	58.4	55.6	55.9	56.1
Gypsum	6.7	6.7	6.7	6.1	6.1
Wallboard, plaster (except gypsum), and mineral wool	12.7	12.7	12.7	12.1	11.8
Lime	9.3	9.4	9.4	9.2	9.2
Marble, granite, slate, and other products	18.8	18.8	18.7	18.5	18.4
Abrasives	17.7	17.9	18.3	16.9	16.2
Asbestos products	22.0	21.7	20.9	21.0	20.6
<u>Nondurable goods</u>					
<b>TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/</b>	1,261	1,274	1,243	1,223	1,202
Cotton manufactures, except smallwares	516.9	521.5	509.9	498.9	494.1
Cotton smallwares	13.4	13.5	13.4	13.4	13.1
Silk and rayon goods	122.1	121.5	116.5	110.8	108.8
Woolen and worsted manufactures, except dyeing and finishing	165.8	169.8	167.5	168.7	162.9
Hosiery	141.8	143.7	135.3	139.6	137.5
Knitted cloth	11.0	11.2	11.1	11.0	10.9
Knitted outerwear and knitted gloves	31.7	31.7	30.3	31.7	29.9
Knitted underwear	49.1	50.1	50.2	48.9	48.2
Dyeing and finishing textiles, including woolen and worsted	91.1	91.7	91.0	89.1	87.0
Carpets and rugs, wool	40.7	40.0	40.0	35.3	34.7
Hats, fur-felt	12.6	13.3	12.3	13.2	13.3
Jute goods, except felts	4.0	4.3	4.3	2.9	3.0
Cordage and twine	15.3	15.4	15.8	14.7	14.9

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	
	Sept.	Aug.	July	Sept.	Aug.
<b>APPAREL AND OTHER FINISHED TEXTILE PRODUCTS</b>	1,176	1,160	1,070	1,096	1,071
Men's clothing, not elsewhere classified	319.3	318.2	296.5	299.4	294.7
Shirts, collars, and nightwear	79.5	78.6	75.8	77.2	75.1
Underwear and neckwear, men's	18.1	17.8	16.7	17.1	16.6
Work shirts	18.0	18.6	10.5	15.9	15.6
Women's clothing, not elsewhere classified	492.3	480.7	437.0	452.1	440.4
Corsets and allied garments	19.0	18.5	17.3	18.1	17.7
Millinery	25.0	25.1	22.2	23.8	23.6
Handkerchiefs	4.9	4.8	4.0	5.0	4.6
Curtains, draperies, and bedspreads	28.4	29.2	25.1	28.7	27.3
Housefurnishings, other than curtains, etc.	31.1	30.2	28.1	30.6	29.4
Textile bags	29.2	28.9	28.1	27.8	27.3
<b>LEATHER AND LEATHER PRODUCTS 1/</b>	379	383	375	390	385
Leather	48.0	47.7	47.2	49.8	49.1
Boot and shoe cut stock and findings	17.9	18.1	17.7	19.3	19.2
Boots and shoes	241.0	244.8	239.5	247.6	245.7
Leather gloves and mittens	13.0	13.2	12.8	12.8	12.7
Trunks and suitcases	14.3	13.8	13.3	13.5	12.7
<b>FOOD 1/</b>	1,537	1,418	1,364	1,483	1,442
Slaughtering and meat packing	195.2	196.8	201.3	192.7	193.3
Butter	36.6	38.2	39.6	35.8	37.8
Condensed and evaporated milk	21.1	21.9	22.6	21.2	22.7
Ice cream	29.6	31.8	32.8	31.1	32.8
Flour	41.5	42.3	42.7	40.9	41.1
Feeds, prepared	29.3	29.5	29.3	29.6	29.9
Cereal preparations	13.2	13.8	13.9	14.0	14.2
Baking	253.2	251.0	250.0	239.9	237.5
Sugar refining, cane	24.9	25.3	25.8	24.7	24.6
Sugar, beet	10.3	8.9	7.5	12.6	11.1
Confectionery	80.2	70.4	61.8	74.5	68.4
Beverages, nonalcoholic	46.7	49.6	50.3	43.3	43.5
Malt liquors	86.5	87.8	88.2	83.1	82.6
Canning and preserving	443.9	326.2	274.3	424.1	385.6
<b>TOBACCO MANUFACTURES 1/</b>	88	86	83	86	85
Cigarettes	34.9	34.5	33.6	32.6	32.9
Cigars	44.9	44.1	41.7	45.5	44.5
Tobacco (chewing and smoking) and snuff	7.8	7.8	7.6	8.0	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	
	Sept.	Aug.	July	Sept.	Aug.
<b>PAPER AND ALLIED PRODUCTS <u>1/</u></b>	395	391	388	388	387
Paper and pulp	206.7	206.7	205.8	200.0	199.8
Paper goods, other	59.5	58.7	60.5	61.4	60.6
Envelopes	12.7	12.4	12.3	12.0	11.8
Paper bags	17.9	17.7	17.4	17.7	18.0
Paper boxes	97.0	94.8	90.9	96.0	95.6
<b>PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u></b>	436	432	430	437	434
Newspapers and periodicals	149.4	147.7	146.8	144.4	143.0
Printing; book and job	185.4	183.1	183.0	185.9	184.3
Lithographing	31.1	31.2	31.2	32.4	32.6
Bookbinding	34.4	34.8	33.3	38.2	38.3
<b>CHEMICALS AND ALLIED PRODUCTS <u>1/</u></b>	597	586	567	576	563
Paints, varnishes, and colors	49.1	49.7	49.1	47.3	46.7
Drugs, medicines, and insecticides	64.2	63.9	63.4	67.1	66.2
Perfumes and cosmetics	12.3	12.3	10.8	12.6	12.1
Soap	27.1	25.2	24.0	24.7	23.9
Rayon and allied products	63.7	64.9	64.4	62.1	61.1
Chemicals, not elsewhere classified	210.9	211.2	202.0	204.3	205.7
Explosives and safety fuses	27.6	27.8	27.4	23.7	23.3
Compressed and liquefied gases	9.8	10.1	10.0	9.9	10.1
Ammunition, small-arms	7.5	7.5	7.7	7.0	4.4
Fireworks	2.9	2.8	2.2	2.5	2.1
Cottonseed oil	23.4	14.3	12.5	18.3	13.1
Fertilizers	28.9	26.9	25.5	29.3	27.5
<b>PRODUCTS OF PETROLEUM AND COAL <u>1/</u></b>	168	170	170	166	166
Petroleum refining	114.0	115.9	117.0	113.4	114.5
Coke and byproducts	32.4	32.4	31.8	29.3	29.2
Paving materials	3.0	2.8	2.7	3.4	3.3
Roofing materials	18.0	17.8	17.4	18.4	18.2

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

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

(In thousands)

Industry group and industry	1948			1947	
	Sept.	Aug.	July	Sept.	Aug.
RUBBER PRODUCTS <u>1/</u>	197	195	191	203	203
Rubber tires and inner tubes	91.4	91.5	90.9	100.5	104.7
Rubber boots and shoes	22.5	22.0	20.7	21.0	18.9
Rubber goods, other,	83.0	80.8	79.2	81.9	79.6
MISCELLANEOUS INDUSTRIES <u>1/</u>	451	441	425	447	435
Instruments (professional and scientific), and fire-control equipment	29.1	28.1	28.0	27.7	27.5
Photographic apparatus	39.7	39.7	39.0	38.2	38.3
Optical instruments and ophthalmic goods	24.8	24.8	23.9	27.5	27.6
Pianos, organs, and parts	13.5	13.3	12.3	16.5	14.6
Games, toys, and dolls	48.6	45.3	42.4	40.9	38.2
Buttons	13.0	13.0	12.5	11.6	11.4
Fire extinguishers	2.8	2.7	2.8	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
Electrical machinery	October 1948	November 1948
Nonferrous metals and their products	October 1948	November 1948
Furniture and finished lumber products	October 1948	November 1948
Chemicals and allied products	October 1948	November 1948
Miscellaneous industries	October 1948	November 1948
Machinery, except electrical	November 1948	December 1948
Textile-mill products and other fiber manufactures	November 1948	December 1948
Food	November 1948	December 1948

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

(In thousands)

Industry group and industry	1948			1947	
	Sept.	Aug.	July	Sept.	Aug.
<b>MINING: 2/</b>					
Coal:					
Anthracite	77.5	77.7	76.2	76.0	76.7
Bituminous coal	408	408	378	394	390
Metal:					
Iron	89.7	88.4	91.7	89.6	91.0
Copper	33.6	33.7	33.7	32.4	32.7
Lead and zinc	27.0	26.6	26.6	25.7	25.7
Gold and silver	13.0	12.0	15.0	15.5	16.5
Miscellaneous	8.2	8.1	8.4	8.2	8.3
Quarrying and nonmetallic	7.9	8.0	8.0	7.7	7.9
Crude petroleum and natural gas production 3/	87.8	87.8	87.1	88.1	88.9
	133.2	137.1	136.6	128.7	131.0
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>					
Class I steam railroads 4/	1,350	1,356	1,361	1,364	1,381
Street railways and busses 5/	247	247	246	251	253
Telephone	642	647	644	613	616
Telegraph 6/	34.7	35.1	36.0	37.6	37.8
Electric light and power	284	286	283	268	269
<b>SERVICE:</b>					
Hotels (year-round)	373	369	375	379	379
Power laundries 2/	232	233	239	243	245
Cleaning and dyeing 2/	88.7	89.7	92.6	94.3	93.1

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			
	1947		1947		1948		1947	
	Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.
ALL MANUFACTURING	164.5	161.7	158.5	160.2	381.7	374.8	360.0	345.3
DURABLE GOODS	188.1	185.8	185.0	183.6	422.6	418.9	403.0	382.2
NONDURABLE GOODS	145.9	142.7	137.7	141.8	341.7	331.6	318.0	309.2
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS	166.3	164.5	161.4	161.7	366.1	361.1	336.9	327.7
Blast furnaces, steel works, and rolling mills	137.5	137.7	135.5	130.0	299.7	295.3	269.9	254.5
Gray-iron and semisteel castings	176.5	171.0	168.3	180.6	414.8	394.3	377.8	403.0
Malleable-iron castings	200.4	194.3	188.0	185.1	492.2	478.0	448.8	425.9
Steel castings	221.1	216.4	212.6	206.7	478.5	473.0	440.5	414.2
Cast-iron pipe and fittings	166.7	167.5	164.5	157.8	436.2	432.0	414.3	366.6
Tin cans and other tinware	157.4	154.1	148.8	152.3	390.9	364.3	353.2	349.2
Wire drawn from purchased rods	130.0	128.9	127.5	138.8	263.3	262.1	242.8	259.5
Wirework	140.5	139.3	137.6	135.3	321.9	326.0	315.1	290.1
Cutlery and edge tools	154.6	145.8	141.2	154.7	374.2	358.7	335.7	359.1
Tools (except edge tools, machine tools, files, and saws)	161.3	160.3	160.8	160.9	365.6	372.8	358.7	347.9
Hardware	142.5	140.5	138.3	138.4	334.0	326.0	303.8	308.4
Plumbers' supplies	156.9	153.7	147.8	146.2	338.0	338.1	316.7	291.6
Stoves, oil burners, and heating equipment, not elsewhere classified	177.7	170.8	157.9	183.7	406.6	395.5	352.0	399.3
Steam and hot-water heating apparatus and steam fittings	191.1	187.1	176.4	189.7	433.9	423.2	397.2	394.1
Stamped and enameled ware and galvanizing	183.2	184.2	186.1	193.9	430.3	443.9	428.9	437.1
Fabricated structural and ornamental metalwork	173.6	171.6	167.1	169.7	352.7	364.8	329.0	339.4
Metal doors, sash, frames, molding, and trim	140.4	139.5	134.2	132.8	336.4	324.7	292.9	280.3
Bolts, nuts, washers, and rivets	184.3	182.8	184.5	185.6	414.7	423.9	401.0	369.4
Forgings, iron and steel	224.9	215.2	214.5	221.6	504.7	475.0	449.6	456.3
Wrought pipe, welded and heavy-riveted	220.8	220.7	222.1	200.0	490.0	494.6	473.0	396.6
Screw-machine products and wood screws	192.8	193.0	195.3	195.9	430.5	427.0	426.8	413.4
Steel barrels, kegs, and drums	123.9	125.6	122.4	127.3	306.3	337.4	301.4	325.6
Firearms	405.6	400.3	403.0	347.6	961.2	926.1	952.7	766.9
ELECTRICAL MACHINERY <sup>1/</sup>	211.5	207.7	206.6	223.0	466.9	454.8	436.3	450.5
Electrical equipment	201.8	199.2	198.3	210.6	444.4	434.7	418.3	423.1
Radios and phonographs	203.8	197.6	195.3	226.3	489.4	468.9	456.9	501.9
Communication equipment	276.2	269.5	268.1	288.3	567.3	550.6	513.4	551.1

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	
	Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.
<b>MACHINERY, EXCEPT ELECTRICAL 1/</b>	228.7	227.4	228.8	228.8	484.0	482.3	473.6	451.4
Machinery and machine-shop products	245.1	241.9	243.7	248.7	523.2	520.0	507.9	494.9
Engines and turbines	270.8	276.3	281.0	286.6	586.5	599.2	585.4	591.3
Tractors	189.4	192.0	195.2	182.5	360.5	369.1	369.2	322.2
Agricultural machinery, excluding tractors	255.2	254.5	262.6	236.9	577.1	559.3	574.2	494.1
Machine tools	131.2	130.5	127.9	142.9	248.3	246.8	239.0	257.4
Machine-tool accessories	214.8	213.5	200.7	216.8	394.0	400.8	361.6	380.5
Textile machinery	192.2	192.5	188.9	170.5	460.7	456.1	438.6	366.0
Pumps and pumping equipment	278.0	273.1	275.5	304.5	615.0	605.0	605.0	642.2
Typewriters	129.8	136.5	141.0	149.4	286.8	298.0	319.2	321.6
Cash registers; adding, and calculating machines	228.1	226.7	229.8	213.9	492.3	489.2	507.0	441.9
Washing machines, wringers, and driers, domestic	210.3	208.7	209.9	200.1	460.6	469.3	439.2	400.0
Sewing machines, domestic and industrial 2/	186.6	182.4	178.8	154.6	486.0	460.4	432.3	348.2
Refrigerators and refrigeration equipment	232.5	234.1	239.9	225.0	491.6	491.4	486.0	426.6
<b>TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES</b>	276.3	260.8	270.6	260.7	581.8	547.7	552.4	509.8
Locomotives	413.5	265.6	407.4	388.1	957.0	599.4	907.3	875.3
Cars, electric- and steam-railroad	223.2	222.8	222.3	225.7	481.3	516.9	467.9	468.8
Aircraft and parts, excluding aircraft engines	349.2	336.4	328.5	327.0	746.1	698.4	661.1	623.3
Aircraft engines	300.1	243.2	287.4	299.2	570.0	453.7	533.1	501.3
Shipbuilding and boatbuilding	140.8	143.7	149.3	134.3	283.1	290.6	304.5	262.0
Motorcycles, bicycles, and parts	190.3	165.8	154.4	200.0	424.5	374.2	301.8	404.9
<b>AUTOMOBILES</b>	193.0	189.6	195.5	190.5	415.4	417.1	423.3	380.6
<b>NONFERROUS METALS AND THEIR PRODUCTS 1/</b>	173.9	172.4	169.2	174.7	386.3	379.3	360.6	349.5
Smelting and refining, primary, of nonferrous metals	145.5	150.0	151.7	144.0	342.4	345.7	338.6	302.5
Alloying; and rolling and drawing of nonferrous metals, except aluminum	140.0	136.2	133.7	136.9	307.0	298.5	284.3	257.6
Clocks and watches	141.1	135.3	127.8	137.0	348.6	334.9	304.5	311.7
Jewelry (precious metals) and jewelers' findings	187.7	182.3	178.4	182.9	383.8	365.9	345.7	360.2
Silverware and plated ware	230.3	228.0	218.3	210.2	564.4	528.2	481.8	480.6
Lighting equipment	157.3	154.1	147.6	171.7	345.6	328.2	317.0	325.9
Aluminum manufactures	163.5	167.9	166.7	179.9	325.8	332.9	316.8	325.5
Sheet-metal work, not elsewhere classified	197.2	198.7	196.1	206.3	443.9	454.5	434.1	431.5

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.
<b>LUMBER AND TIMBER BASIC PRODUCTS 1/</b>	200.6	200.8	197.3	177.3	523.3	538.8	502.9	427.4
Sawmills and logging camps	220.4	220.7	217.2	195.5	584.4	604.6	563.3	480.4
Planing and plywood mills	192.1	192.8	187.5	166.9	480.6	485.4	455.3	379.5
<b>FURNITURE AND FINISHED LUMBER PRODUCTS 1/</b>	142.0	140.5	137.8	141.9	344.5	339.7	320.4	324.3
Mattresses and bedsprings	179.5	171.7	161.9	172.5	411.5	385.5	354.1	378.3
Furniture	141.9	140.3	137.4	139.2	344.2	334.8	317.5	316.6
Wooden boxes, other than cigar	122.5	123.6	125.6	134.2	322.0	334.1	318.6	324.1
Caskets and other morticians' goods	139.5	139.0	135.6	149.5	290.2	287.8	273.4	301.2
Wood preserving	137.3	140.1	137.1	154.2	381.4	381.5	378.0	418.4
Wood, turned and shaped	139.3	140.9	136.7	136.0	322.2	332.1	313.9	298.9
<b>STONE, CLAY, AND GLASS PRODUCTS</b>	158.1	157.0	153.2	152.3	361.4	359.4	334.2	320.2
Glass and glassware	166.3	162.1	155.6	166.7	369.9	356.6	316.8	342.8
Glass products made from purchased glass	120.9	120.1	124.0	120.1	270.4	268.2	254.5	251.5
Cement	152.7	156.1	156.4	152.1	319.3	331.9	328.7	298.3
Brick, tile, and terra cotta	140.4	140.1	137.5	129.8	345.7	349.5	327.4	294.1
Pottery and related products	173.7	172.8	164.4	165.2	364.3	373.6	336.6	326.5
Gypsum	136.1	136.3	136.6	124.2	333.7	329.6	306.4	258.3
Wallboard, plaster (except gypsum), and mineral wool	157.1	156.8	156.7	149.4	439.4	420.3	426.5	357.8
Lime	98.7	99.1	99.4	97.0	279.6	281.3	268.9	245.5
Marble, granite, slate, and other products	101.5	101.7	101.0	99.9	190.6	192.0	184.9	180.9
Abrasives	229.3	231.9	236.5	217.9	510.0	499.7	495.9	418.2
Asbestos products	138.2	136.9	131.6	132.0	346.5	343.0	327.5	299.2
Nondurable goods								
<b>TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/</b>	110.3	111.4	108.7	106.9	295.5	298.2	285.4	262.9
Cotton manufactures, except smallwares	123.6	124.7	121.9	119.3	354.9	357.4	342.0	317.4
Cotton smallwares	95.4	96.2	95.3	95.2	228.7	227.3	226.5	210.6
Silk and rayon goods	96.5	95.9	92.0	87.6	301.3	295.2	276.9	236.2
Woolen and worsted manufactures, except dyeing and finishing	105.2	107.7	106.3	107.0	286.1	297.8	295.5	268.5
Hosiery	84.4	85.5	80.5	83.1	202.4	202.8	184.2	178.5
Knitted cloth	95.6	97.2	96.7	95.2	220.3	229.6	224.4	207.8
Knitted outerwear and knitted gloves	106.7	106.6	101.8	106.7	249.3	244.1	228.2	230.9
Knitted underwear	120.6	123.0	123.2	120.0	297.3	313.2	305.2	294.2
Dyeing and finishing textiles, including woolen and worsted	129.0	129.8	128.8	126.1	310.7	309.2	299.8	289.1
Carpets and rugs, wool	150.6	148.1	148.0	130.5	387.5	381.5	368.4	296.6
Hats, fur-felt	82.3	86.6	80.1	85.8	182.8	200.3	174.7	177.2
Jute goods, except felts	104.5	114.3	112.6	76.6	248.4	282.2	273.0	163.7
Cordage and twine	119.5	120.7	124.0	115.3	283.7	286.4	288.2	258.6

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
	Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	149.0	146.9	135.6	138.9	349.4	343.4	303.6	303.8
Men's clothing, not elsewhere classified	139.1	138.6	129.1	130.4	324.4	323.5	294.1	284.9
Shirts, collars, and nightwear	107.5	106.3	102.5	104.4	262.4	256.2	246.6	243.2
Underwear and neckwear, men's	106.6	105.1	98.5	101.1	300.9	293.8	269.6	261.3
Work shirts	127.6	131.4	131.3	112.4	337.2	334.8	326.4	266.9
Women's clothing, not elsewhere classified	172.0	167.9	152.7	158.0	391.6	381.7	326.6	334.7
Corsets and allied garments	101.3	98.8	92.4	96.5	225.7	216.6	201.1	205.4
Millinery	98.0	98.3	87.0	93.4	204.0	199.5	165.3	173.1
Handkerchiefs	96.2	93.6	77.7	98.3	254.2	236.2	181.3	239.4
Curtains, draperies, and bedspreads	159.6	164.4	141.6	161.4	356.3	392.0	317.6	371.9
Housefurnishings, other than curtains, etc.	278.1	270.9	251.4	274.0	632.8	632.3	573.0	604.6
Textile bags	231.7	229.2	222.9	220.1	549.5	521.9	498.3	458.8
LEATHER AND LEATHER PRODUCTS <u>1/</u>	109.3	110.4	108.1	112.2	246.9	248.3	236.5	248.1
Leather	96.0	95.3	94.3	99.6	206.5	207.3	203.6	212.0
Boot and shoe cut stock and findings	89.8	90.7	88.6	96.9	185.2	189.5	178.6	191.4
Boots and shoes	104.4	106.0	103.7	107.2	241.4	242.9	230.6	243.7
Leather gloves and mittens	129.7	132.1	127.8	128.1	272.1	285.4	267.4	253.5
Trunks and suitcases	171.8	166.0	159.6	162.6	393.3	376.2	339.5	335.9
FOOD <u>1/</u>	179.9	166.0	159.7	173.6	389.8	351.3	352.2	356.1
Slaughtering and meat packing	144.5	145.7	149.1	142.7	303.5	296.0	318.8	288.0
Butter	181.7	189.8	196.8	178.0	397.8	418.5	432.6	364.8
Condensed and evaporated milk	194.3	201.4	207.4	194.5	473.7	492.5	509.9	419.8
Ice cream	167.9	180.7	186.3	176.8	333.5	348.4	365.8	326.2
Flour	149.4	152.2	153.7	147.5	360.7	368.6	368.3	351.5
Feeds, prepared	169.8	170.8	169.7	171.2	412.7	405.0	400.0	382.9
Cereal preparations	157.6	165.6	165.7	168.0	326.0	349.5	377.5	337.5
Baking	133.0	131.8	131.3	126.0	282.6	273.5	273.5	243.6
Sugar refining, cane	157.1	159.1	162.4	155.4	347.3	369.5	378.5	329.9
Sugar, beet	89.1	77.0	65.0	108.8	200.3	154.2	134.2	226.6
Confectionery	143.9	126.3	110.9	133.7	347.3	296.2	252.7	295.8
Beverages, nonalcoholic	196.1	207.9	210.9	181.9	342.1	349.0	387.1	326.0
Malt liquors	213.7	217.0	218.0	205.5	420.4	419.6	435.7	403.9
Canning and preserving	295.3	217.0	182.5	202.2	833.4	525.4	469.2	754.6
TOBACCO MANUFACTURES <u>1/</u>	93.9	92.5	88.8	92.3	214.8	218.3	205.5	205.3
Cigarettes	127.3	125.8	122.4	118.7	268.1	288.3	270.0	243.7
Cigars	80.5	78.9	74.7	81.5	187.4	180.9	171.1	185.4
Tobacco (chewing and smoking) and snuff	77.7	77.2	75.6	79.8	176.1	173.3	164.1	177.0

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
	Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.
<b>PAPER AND ALLIED PRODUCTS <u>1/</u></b>	148.7	147.4	146.1	146.2	352.5	349.6	341.7	315.5
Paper and pulp	150.0	150.0	149.4	145.2	362.9	363.6	357.7	322.0
Paper goods, other	157.6	155.5	160.2	162.9	354.2	347.4	355.3	334.2
Envelopes	145.8	141.9	140.9	137.4	296.0	288.2	272.9	273.7
Paper bags	160.8	159.2	156.3	159.2	391.0	392.7	380.0	333.9
Paper boxes	139.9	136.7	131.0	138.5	328.0	318.6	294.9	291.5
<b>PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u></b>	133.0	131.8	131.1	133.2	273.6	264.8	260.1	249.7
Newspapers and periodicals	125.9	124.4	123.7	121.7	253.6	240.6	235.5	221.6
Printing; book and job	145.3	143.5	143.4	145.7	304.8	297.6	296.0	279.3
Lithographing	118.4	118.9	118.9	123.4	232.4	231.8	223.5	225.9
Bookbinding	133.7	134.8	129.1	148.1	307.8	310.2	291.8	322.1
<b>CHEMICALS AND ALLIED PRODUCTS <u>1/</u></b>	207.1	203.3	196.6	199.9	462.5	450.6	432.7	403.1
Paints, varnishes, and colors	173.5	175.7	173.6	167.2	341.6	345.1	343.0	300.3
Drugs, medicines, and insecticides	233.2	232.1	230.2	243.6	491.1	485.3	480.6	484.7
Perfumes and cosmetics	118.5	118.1	104.1	121.3	240.4	237.4	204.3	228.2
Soap	177.8	165.3	157.6	161.7	403.7	368.5	344.3	351.6
Rayon and allied products	131.8	134.3	133.2	128.4	297.5	302.7	289.6	259.9
Chemicals, not elsewhere classified	301.6	302.1	288.9	292.3	641.6	629.1	600.4	552.3
Explosives and safety fuses	379.2	380.7	376.1	324.8	796.0	798.3	760.2	608.2
Compressed and liquefied gases	247.0	253.1	252.1	249.0	513.9	512.0	518.2	455.3
Ammunition, small-arms	174.2	173.9	180.2	163.5	411.2	403.1	420.8	381.4
Fireworks	249.8	238.0	190.2	214.0	630.8	640.1	507.0	577.7
Cottonseed oil	153.3	93.8	82.0	119.8	459.3	261.7	230.1	215.8
Fertilizers	153.6	142.7	135.6	155.5	441.5	410.1	396.7	428.1
<b>PRODUCTS OF PETROLEUM AND COAL <u>1/</u></b>	159.1	160.3	160.7	156.4	345.6	358.2	353.4	307.5
Petroleum refining	155.7	158.3	159.8	154.9	326.1	345.5	344.9	294.4
Coke and byproducts	149.2	149.3	146.7	135.1	353.2	350.8	329.5	280.0
Paving materials	120.5	113.5	108.8	140.0	286.1	264.3	248.1	297.9
Roofing materials	222.7	219.4	215.5	226.8	558.3	548.7	531.9	510.5

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	1945			1947
	Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.
RUBBER PRODUCTS <sup>1/</sup>	162.8	160.9	157.7	168.1	344.9	347.2	329.7	348.3
Rubber tires and inner tubes	168.6	168.7	167.6	185.2	326.2	341.0	329.8	355.3
Rubber boots and shoes	151.2	148.3	139.4	141.6	355.9	344.1	321.7	314.4
Rubber goods, other	160.1	155.8	152.7	157.8	372.1	356.3	331.9	338.3
MISCELLANEOUS INDUSTRIES <sup>1/</sup>	184.2	180.1	173.9	182.8	411.8	397.4	375.0	378.2
Instruments (professional and scientific), and fire-control equipment	257.2	248.8	247.4	245.0	532.0	505.9	487.2	469.3
Photographic apparatus	224.6	224.5	220.9	216.1	456.6	444.1	443.8	394.3
Optical instruments and ophthalmic goods	208.7	208.8	201.0	231.6	419.9	415.2	393.1	442.3
Pianos, organs, and parts	173.6	170.4	157.3	211.4	369.1	361.7	327.9	460.2
Games, toys, and dolls	254.2	236.9	221.8	213.9	624.4	566.8	521.2	482.3
Buttons	116.1	115.2	111.2	103.4	271.9	275.3	254.0	230.2
Fire extinguishers	271.3	269.1	271.8	277.6	606.1	566.7	573.0	558.9

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

<sup>1/</sup> See footnote 1, table 8.

<sup>2/</sup> Sewing machines, domestic and industrial -- April and June 1948 pay roll revised to 399.9 and 439.5, respectively.

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
	Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.
<b>MINING:</b>								
Coal:								
Anthracite	92.7	92.9	91.1	91.0	247.3	260.3	193.3	237.9
Bituminous coal	109.7	109.7	101.8	106.0	352.9	365.8	293.0	321.6
Metal	96.9	95.5	99.1	96.8	212.6	210.4	202.2	193.6
Iron	159.2	159.6	159.5	153.6	366.8	355.8	331.5	311.0
Copper	108.2	106.5	106.6	103.0	248.1	255.3	242.4	225.3
Lead and zinc	79.8	74.0	92.2	95.5	199.2	189.1	193.2	216.0
Gold and silver	31.4	31.1	32.2	31.5	54.1	56.1	57.1	52.1
Miscellaneous	188.9	190.0	191.3	184.6	406.7	387.5	383.0	339.6
Quarrying and nonmetallic <u>1/</u>	128.3	128.2	127.3	128.7	342.4	348.5	329.7	315.9
Crude petroleum and natural gas production	116.4	119.8	119.4	112.5	235.6	251.0	240.8	206.5
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>								
Class I steam railroads <u>2/</u>	136.7	137.3	137.9	138.1	<u>3/</u>	<u>3/</u>	<u>3/</u>	<u>3/</u>
Street railways and busses	127.3	127.5	127.2	129.6	233.4	235.2	232.2	224.1
Telephone	202.2	203.7	202.8	192.9	335.3	331.7	336.1	312.3
Telegraph	92.3	93.3	95.7	99.8	220.4	225.5	233.2	211.8
Electric light and power	116.3	117.1	115.8	109.9	205.1	204.9	202.8	183.1
<b>TRADE: <u>4/</u></b>								
Wholesale	117.1	117.0	116.2	113.3	220.8	220.6	215.3	203.3
Retail	113.4	111.2	112.0	112.4	219.4	218.1	218.6	202.5
Food	112.0	112.3	113.8	112.6	226.0	229.0	232.9	209.2
General merchandise	127.2	120.8	121.3	122.8	238.3	231.8	233.6	220.4
Apparel	113.9	105.1	108.0	113.5	210.8	195.5	202.1	203.5
Furniture and housefurnishings	91.6	90.1	90.5	87.5	179.9	178.5	176.7	159.8
Automotive	110.1	111.1	109.8	104.8	217.0	219.6	213.4	188.5
Lumber and building materials	128.0	129.6	128.2	124.5	258.3	264.6	257.3	231.8
<b>SERVICE:</b>								
Hotels (year-round) <u>5/</u>	115.7	114.6	116.2	117.4	235.0	233.7	234.4	222.4
Power laundries	118.4	119.0	122.1	124.3	232.9	228.1	240.6	236.2
Cleaning and dyeing	152.5	154.2	159.2	162.1	296.8	286.9	308.0	301.7

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

1/ June 1948 pay roll revised to 329.1.2/ Source: Interstate Commerce Commission3/ Not available.4/ Data include 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 Revisions - The employment estimates shown in this report for the industry divisions (e.g., manufacturing, mining, etc.) and industry groups (e.g., iron and steel, electrical machinery, etc.) have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Sec. B. Sources of Bench-Mark Data - In preparing estimates for private employment prior to 1939, the various industrial censuses taken by the Bureau of the Census were used as sources of bench-mark data. Data obtained from the Federal Security Agency are the main bases for 1946 bench marks. Bench marks for State and local government are based on data compiled by the Bureau of the Census, while most of the data on Federal Government employment is made available by the U. S. Civil Service Commission. The Interstate Commerce Commission is the source for railroads, and the U. S. Maritime Commission for water transportation.

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

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

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

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

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

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

In general, data showing month-to-month changes in employment reflect the fluctuations shown by establishments reporting to the Bureau of Labor Statistics. However, the usual estimating method is inadequate in the finance and service industries, which have a preponderance of small establishments. A special sampling procedure has been introduced, involving the scientific selection of a sample of cities and of a representative list of blocks in these cities. Data obtained from the establishments in these blocks yield substantially better estimates of month-to-month changes in employment in the finance and service industries than would be obtained by the use of the sampling procedure employed for other industries. For railroads and the Federal Government, complete reports of employment are available.

Why Revisions Are Necessary - Because reports are not immediately available from new firms, they are frequently introduced into the BLS sample after they have been in operation for some time. This lapse of time produces a rather consistent understatement which becomes larger from year to year. It is important, therefore, that estimates not be allowed to go uncorrected for too long a period. The most recent revisions correct for the downward bias that had accumulated in the nonmanufacturing series beginning January 1945 and in the manufacturing series beginning January 1946. Revisions in some industry divisions were made in order to incorporate greater refinements in methodology and new source materials that have become available.

Sec. E. Comparability With Other Types of Employment Data - The Bureau of Labor Statistics employment estimates are based upon reports submitted by cooperating establishments and therefore differ from employment information obtained by household interviews, such as the Monthly Report of the Labor Force. The BLS estimates of employment in nonagricultural establishments differ from the Monthly Report of the Labor Force total nonagricultural employment estimates in several important respects. For example: (1) The BLS estimates cover all full- and part-time wage and salary workers in private nonagricultural establishments who worked or received pay during the pay period ending nearest the 15th of the month; in Federal establishments during the pay period ending just before the first of the month; and in State and local government during the pay period ending on or just before the last of the month. Persons who worked in more than one establishment during the reporting period would be counted more than once; (2) Proprietors, self-employed persons, domestic servants, and unpaid family workers are excluded.

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

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

Sec. G. Source of Data - Employment and pay-roll estimates are based on reports from cooperating establishments. Excluding about 9,000 block-sample returns, the approximate number of establishments, and workers covered, for each of the industry divisions are as follows:

Approximate Coverage of BLS Employment and Pay-Roll Sample

Industry division:	: Number	: Employees or production	
	: of estab-	: workers	
	: lishments	: Number	: Percent of total
Manufacturing	34,200	7,503,000	59
Mining	2,800	361,000	53
Contract construction	14,000	492,000	25
Public utilities	7,200	912,000	77
Trade:			
Wholesale	12,400	343,000	19
Retail	35,000	935,000	22
Service:			
Hotels (year-round)	1,200	133,000	35
Power laundries and cleaning and dyeing	1,600	68,000	21

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

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

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

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

## COOPERATING STATE AGENCIES

- Alabama - Dept. of Industrial Relations, Montgomery 5.
- Arizona - Unemployment Compensation Div., Employment Security Commission, Phoenix.
- Arkansas - Employment Security Div., Dept. of Labor, Little Rock.
- California - Div. of Labor Statistics and Research, Dept. of Industrial Relations, San Francisco 3.
- Connecticut - Employment Security Div., Dept. of Labor and Factory Inspection, Hartford 15.
- Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1, Pa.
- Florida - Unemployment Compensation Div., Industrial Commission, Tallahassee.
- Georgia - Employment Security Agency, Dept. of Labor, Atlanta 3.
- Idaho - Employment Security Agency, Industrial Accident Board, Boise.
- Illinois - Dept. of Labor, Chicago 1.
- Indiana - Employment Security Div., Indianapolis 4.
- Iowa - Employment Security Commission, Des Moines 8.
- Kansas - State Labor Dept., Topeka.
- 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 Jersey - Dept. of Labor, Trenton 8.
- New Mexico - Employment Security Commission, Albuquerque.
- New York - Div. of Placement and Unemployment Insurance, Dept. of Labor, New York 17.
- North Carolina - Dept. of Labor, Raleigh.
- Oklahoma - Employment Security Commission, Oklahoma City 2.
- Pennsylvania - Federal Reserve Bank of Philadelphia, Philadelphia 1 (Manufacturing); Bureau of Research and Information, Dept. of Labor and Industry, Harrisburg (Nonmanufacturing).
- Rhode Island - Div. of Census and Information, Dept. of Labor, Providence 2.
- Tennessee - Dept. of Employment Security, Nashville 3.
- Texas - Bureau of Business Research, University of Texas, Austin 12.
- Utah - Dept. of Employment Security, Industrial Commission, Salt Lake City 13.
- Vermont - Unemployment Compensation Commission, Montpelier.
- Virginia - Div. of Research and Statistics, Dept. of Labor and Industry, Richmond 21.
- Washington - Employment Security Dept., Olympia.
- Wisconsin - Statistical Dept., Industrial Commission, Madison 3.
- Wyoming - Employment Security Commission, Casper.

## BLS REGIONAL OFFICES

New England - Regional Director, U. S. Bureau of Labor Statistics, Old South Bldg., 294 Washington St., Boston 33, Massachusetts (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont).

North Atlantic - Regional Director, U. S. Bureau of Labor Statistics, 1000 Parcel Post Bldg., 341 Ninth Avenue, New York 1, New York (Delaware, Pennsylvania, New Jersey, New York).

North Central - Regional Director, U. S. Bureau of Labor Statistics, 312 National War Agencies Bldg., 226 W. Jackson Blvd., Chicago 6, Illinois (Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota, Wisconsin).

Southern - Regional Director, U. S. Bureau of Labor Statistics, 6th Floor Silvey Bldg., 114 Marietta Street, N. W., Atlanta 3, Georgia (Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas).

Pacific-Rocky Mountain - Regional Director, U. S. Bureau of Labor Statistics, 546 Federal Office Bldg., San Francisco 2, California (Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming).

Technical advice and assistance on employment statistics in the states of Virginia, West Virginia, Maryland, and the District of Columbia will be given by the Bureau's Washington Office.

## GLOSSARY

Continental United States - Covers only the 48 States and the District of Columbia.

Contract construction - Covers only firms engaged in the construction business on a contract basis for others. Force-account construction workers, i.e., hired directly by and on the pay rolls of Federal, State, and local government, public utilities, and private establishments, are excluded.

Defense Agencies - Covers civilian employees of the National Military Establishment, Maritime Commission, National Advisory Committee for Aeronautics, The Panama Canal, Philippine Alien Property Administration, Philippine War Damage Commission, Office of Selective Service Records, War Assets Administration, Office of Defense Transportation, Office of Scientific Research and Development, National Security Resources Board.

Family Allowances - Represents the Government's contribution; the amount contributed by the personnel is included under pay rolls.

Federal Government-Executive Branch - Includes U. S. Navy Yards, Federal arsenals, and force-account construction. Fourth-class postmasters are included under the executive branch in table 4, but are excluded from the government data shown in tables 1 and 3.

Employment shown here for the executive branch differs from data published by the U. S. Civil Service Commission in the following respects: (1) Employment collected and published by the Civil Service Commission as of the last day of the month, is here presented as of the first day of the next month; (2) substitute rural mail carriers are excluded; (3) employment in December of each year includes the additional postal employees necessitated by the Christmas season, excluded from published Civil Service Commission figures starting 1942; (4) 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.