

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
FEBRUARY 1949**

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

Detailed Report

February 1949

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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	1949		December	1948		1948 Average
	February	January		February	January	
TOTAL	43,997	44,340	46,088	44,279	44,603	45,131
Manufacturing	15,756	15,890	16,283	16,183	16,267	16,277
Mining	922	924	939	914	922	925
Contract construction	1,824	1,906	2,079	1,731	1,871	2,060
Transportation and public utilities	3,957	3,977	4,066	4,019	4,020	4,065
Trade	9,513	9,625	10,381	9,520	9,622	9,746
Finance	1,706	1,711	1,722	1,690	1,680	1,719
Service	4,560	4,546	4,624	4,730	4,723	4,681
Government	5,759	5,761	5,994	5,492	5,498	5,658

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	1949			1948		1948
	February	January	December	February	January	Average
ALL MANUFACTURING	15,756	15,890	16,283	16,183	16,267	16,277
DURABLE GOODS	7,891	8,005	8,222	8,167	8,256	8,214
Iron and steel and their products	1,867	1,892	1,935	1,920	1,925	1,923
Electrical machinery	700	715	730	763	767	736
Machinery, except electrical	1,515	1,536	1,560	1,591	1,583	1,572
Transportation equipment, except automobiles	578	580	588	589	598	577
Automobiles	949	972	980	914	989	968
Nonferrous metals and their products	448	455	468	478	478	471
Lumber and timber basic products	790	800	870	813	816	874
Furniture and finished lumber products	526	529	552	581	580	560
Stone, clay, and glass products	518	526	539	518	520	533
NONDURABLE GOODS	7,865	7,885	8,061	8,016	8,011	8,063
Textile-mill products and other fiber manufactures	1,313	1,323	1,358	1,428	1,413	1,398
Apparel and other finished textile products	1,358	1,310	1,327	1,333	1,311	1,307
Leather and leather products	412	410	409	448	445	424
Food	1,687	1,723	1,792	1,658	1,688	1,788
Tobacco manufactures	96	96	100	101	101	100
Paper and allied products	476	481	491	479	482	482
Printing, publishing, and allied industries	726	729	738	724	726	725
Chemicals and allied products	778	784	788	773	774	774
Products of petroleum and coal	237	238	240	237	238	242
Rubber products	235	240	246	257	259	248
Miscellaneous industries	547	551	572	578	574	576

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

4.

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

(In thousands)

Major industry group	1949			1948		1948
	February	January	December	February	January	Average
MINING	922	924	939	914	922	925
Anthracite	81	82	82	81	81	82
Bituminous coal	417	419	423	415	422	411
Metal	104	100	101	101	100	101
Quarrying and nonmetallic	85	86	93	87	89	94
Crude petroleum and natural gas production ^{1/}	235	237	240	230	230	238
TRANSPORTATION AND PUBLIC UTILITIES	3,957	3,977	4,066	4,019	4,020	4,065
Transportation	2,704	2,728	2,809	2,802	2,809	2,822
Communication	736	734	740	723	719	735
Other public utilities	517	515	517	494	492	509
GOVERNMENT	5,759	5,761	5,994	5,492	5,498	5,658
Federal	1,877	1,876	2,156	1,746	1,743	1,839
State and local	3,882	3,885	3,838	3,746	3,755	3,820

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)			
	1949		1948		1949		1948	
	February	January	February	Average	February	January	February	Average
<u>All Areas</u>								
TOTAL FEDERAL	2,089.1	2,089.6	1,987.0	2,066.6	\$517,921	\$537,835	\$445,134	\$517,728
Executive	2,049.8	2,050.4	1,947.3	2,027.1	508,053	527,836	435,894	508,020
Defense agencies	935.2	933.7	895.8	916.4	218,909	230,653	191,372	220,838
Post Office Department	475.0	475.8	427.5	471.4	121,768	121,598	98,054	116,589
Other agencies	639.6	640.9	624.0	639.3	167,376	175,585	146,468	170,593
Legislative	7.4	7.4	7.1	7.3	2,650	2,657	2,414	2,574
Judicial	3.6	3.5	3.5	3.5	1,306	1,352	1,199	1,348
Government corporations	28.3	28.3	29.1	28.7	5,912	5,990	5,627	5,786
<u>Continental United States</u>								
TOTAL FEDERAL	1,897.7	1,896.1	1,760.9	1,847.3	480,317	498,545	408,614	476,790
Executive	1,865.2	1,863.6	1,728.5	1,814.7	471,184	489,331	399,975	467,765
Defense agencies	782.0	777.7	705.8	734.5	189,644	200,204	161,996	188,533
Post Office Department	473.3	474.1	426.0	469.7	121,325	121,154	97,703	116,170
Other agencies	609.9	611.8	596.7	610.5	160,215	167,973	140,276	163,062
Legislative	7.4	7.4	7.1	7.3	2,650	2,657	2,414	2,574
Judicial	3.5	3.5	3.4	3.4	1,268	1,314	1,165	1,311
Government corporations	21.6	21.6	21.9	21.9	5,215	5,243	5,060	5,140
<u>Washington, D. C.</u>								
TOTAL GOVERNMENT	238.8	237.5	224.5	231.3	68,287	71,401	57,991	67,883
D. C. government	19.0	18.9	18.6	18.8	4,414	4,646	4,281	4,337
Federal	219.8	218.6	205.9	212.5	63,873	66,755	53,710	63,546
Executive	211.8	210.6	198.2	204.6	61,005	63,872	51,099	60,753
Defense agencies	71.7	71.2	65.6	68.5	19,692	20,687	15,910	19,389
Post Office Department	7.6	7.6	7.2	7.8	2,135	2,132	2,165	2,608
Other agencies	132.5	131.8	125.4	128.3	39,178	41,053	33,024	38,756
Legislative	7.4	7.4	7.1	7.3	2,650	2,657	2,414	2,574
Judicial	.6	.6	.6	.6	218	226	197	219

See the glossary for definitions.

1/ Data for Central Intelligence Agency are excluded.

6.

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

(In thousands)

Designation.	1949			1948		1948
	February	January	December	February	January	Average
PERSONNEL (as of first of month)						
Total	1,687	1,644	1,628	1,419	1,422	1,491
By branch:						
Army	712	677	662	552	2/ 898	2/ 964
Air Force	416	412	410	353	2/	2/
Navy	450	447	449	414	421	424
Marine Corps	87	86	85	80	83	83
Coast Guard	22	22	22	20	20	20
By sex:						
Men	1,671	1,629	1,613	1,402	1,405	1,475
Women	16	15	15	17	17	15
PAY (for entire month)						
Total	\$289,960	\$299,593	\$294,061	\$281,423	\$300,241	\$286,912
By branch:						
Army and Air Force	187,813	195,048	189,237	170,209	179,389	178,032
Navy	84,201	85,638	85,598	91,172	100,639	89,808
Marine Corps	13,509	14,123	14,336	15,582	15,506	14,446
Coast Guard	4,437	4,785	4,891	4,460	4,707	4,626
By type of pay:						
Pay rolls	257,503	265,618	260,046	240,493	250,953	249,427
Mustering-out pay	4,210	5,023	5,221	11,838	13,465	7,953
Family allowance	28,163	28,709	28,605	23,566	23,454	26,438
Leave payments	85	243	190	5,526	12,369	3,094
Cash	30	123	133	1,182	2,204	659
Bonds	55	120	56	4,344	10,164	2,435

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	1949	1948			1947	1948
	January	December	November	January	December	Average
Arizona	155	159	156	155	156	155
Arkansas*	295	311	306	282	295	296
California	2,991	3,115	3,085	3,037	3,122	3,081
Connecticut	751	778	775	* 771	792	770
Georgia	729	753	751	737	752	743
Idaho	124	131	132	* 117	125	122
Illinois	3,157	3,256	3,230	3,172	3,225	3,182
Indiana	1,176	1,226	1,215	1,186	1,221	1,204
Kansas	433	454	447	419	435	435
Maine	251	262	263	264	270	266
Maryland	700	723	723	682	698	703
Massachusetts	1,680	1,754	1,727	*1,720	1,773	1,723
Minnesota	775	809	813	773	795	796
Missouri	1,112	1,158	1,144	1,125	1,156	1,135
Montana	137	142	142	134	138	139
Nevada ^{1/}	46	48	48	48	49	48
New Jersey	1,537	1,586	1,585	1,561	1,604	1,581
New Mexico	126	130	129	* 121	121	127
New York	5,483	5,699	5,649	*5,517	*5,713	5,583
Oklahoma*	462	486	472	439	452	461
Pennsylvania	3,581	3,701	3,671	3,566	3,662	3,610
Rhode Island	275	287	288	289	298	288
Tennessee	720	749	748	720	722	741
Texas	1,760	1,808	1,777	1,677	1,715	1,727
Utah	168	184	186	173	181	182
Vermont ^{1/}	92	95	94	* 94	97	95
Washington	646	688	692	* 647	* 675	675
Wisconsin	971	1,006	1,000	971	996	992
Wyoming	74	78	79	70	73	78

See explanatory notes, sections H and I.

^{1/} Does not include contract construction.

* Revised: Data for other months revised as follows:

Arkansas - October 1948 to 308.Connecticut - February 1948 to 770.Idaho - February through October 1948 to 115, 115, 115, 116, 118, 121, 121, 132, and 133.New Mexico - February through September 1948 to 120, 122, 124, 128, 130, 131, 132 and 133.New York - February through October 1948 to 5,508, 5,538, 5,508, 5,521, 5,570, 5,559, 5,618, 5,653, and 5,661.Oklahoma - September and October 1948 to 475 and 472.Vermont - February 1948 to 94.Washington - February through October 1948 to 642, 654, 665, 648, 671, 687, 693, 707, and 704.

3.
TABLE 7: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State

(In thousands)

Region and State	1949	1948			1947	1948
	January	December	November	January	December	Average
NEW ENGLAND:						
Maine 1/	107.8	109.3	111.2	116.9	118.5	114.0
New Hampshire	77.7	79.2	80.4	85.8	85.3	82.7
Vermont 1/	35.2	36.2	36.6	39.1	40.0	37.7
Massachusetts	696.7	715.5	722.8	747.3	757.2	729.3
Rhode Island	136.1	139.5	142.1	153.5	154.6	146.9
Connecticut 1/	387.6	395.1	396.5	* 417.4	417.8	402.0
MIDDLE ATLANTIC:						
New York	1,807.8	1,853.1	1,884.7	1,902.0	1,931.7	1,872.6
New Jersey	707.6	724.7	740.9	757.3	764.0	744.8
Pennsylvania	1,461.4	1,498.9	1,504.0	1,515.6	1,527.3	1,502.0
EAST NORTH CENTRAL:						
Ohio	1,189.9	1,210.4	1,224.6	1,246.0	1,250.9	1,229.0
Indiana	533.5	542.9	545.8	556.3	559.0	548.9
Illinois	1,211.5	1,234.5	1,242.7	1,271.0	1,273.6	1,237.0
Michigan	972.9	988.5	993.4	1,019.6	1,024.2	994.9
Wisconsin 1/	415.5	426.5	430.7	433.9	436.1	432.8
WEST NORTH CENTRAL:						
Minnesota 1/	191.7	197.5	200.8	200.0	202.0	200.6
Iowa 1/	153.9	155.9	153.8	155.5	156.2	150.4
Missouri 1/	342.0	345.5	347.2	350.3	351.7	346.1
North Dakota	6.6	6.6	6.9	6.6	6.7	6.7
South Dakota	11.7	12.0	12.2	11.2	11.3	11.6
Nebraska	42.6	42.9	44.1	43.8	46.3	41.9
Kansas 1/	86.6	87.8	87.8	81.6	83.1	84.3
SOUTH ATLANTIC:						
Delaware	44.5	44.8	45.2	45.7	46.1	42.5
Maryland	219.1	227.7	233.0	226.9	229.6	231.7
District of Columbia	16.7	17.1	17.0	17.3	17.5	17.1
Virginia	206.3	211.3	215.5	213.6	215.1	213.7
West Virginia	129.6	132.3	132.7	132.4	132.5	132.6
North Carolina	360.1	367.2	369.3	382.7	380.8	376.6
South Carolina	188.8	193.0	193.6	198.3	198.9	196.8
Georgia 1/*	266.6	271.7	277.6	281.3	280.0	277.7
Florida 1/	99.3	99.7	97.3	100.3	97.8	94.4

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

(In thousands)

Region and State	1949	1948		1947		1948
	January	December	November	January	December	Average
EAST SOUTH CENTRAL:						
Kentucky	122.7	126.8	128.6	129.5	130.4	128.0
Tennessee <u>1</u> / [*]	235.4	245.3	250.8	255.4	254.7	255.6
Alabama <u>1</u> / ₁	223.3	224.8	228.7	232.7	230.9	228.5
Mississippi	83.5	86.6	87.0	95.5	95.7	89.4
WEST SOUTH CENTRAL:						
Arkansas <u>1</u> / ₁	74.7	77.1	79.0	71.9	76.1	76.7
Louisiana <u>1</u> / ₁	148.6	150.9	152.6	150.4	150.9	150.2
Oklahoma <u>1</u> / ₁	64.3	66.7	67.4	64.0	64.7	66.0
Texas	345.2	353.3	358.0	342.7	346.6	348.1
MOUNTAIN:						
Montana	16.9	18.1	18.6	17.7	18.5	17.8
Idaho <u>1</u> / ₁	19.0	20.9	23.4	18.2	19.5	20.2
Wyoming <u>1</u> / ₁	6.1	6.4	7.1	6.0	6.7	6.5
Colorado	53.5	55.9	59.2	57.2	61.0	56.5
New Mexico <u>1</u> / ₁ / [*]	9.5	9.9	10.1	8.3	8.6	9.4
Arizona <u>1</u> / ₁	14.3	15.2	15.1	14.7	14.7	15.0
Utah <u>1</u> / ₁	25.5	27.7	30.9	25.1	26.9	27.5
Nevada <u>1</u> / ₁	3.2	3.3	3.4	3.3	3.3	3.4
PACIFIC:						
Washington <u>1</u> / ₁	163.5	174.5	184.8	169.4	172.2	175.5
Oregon	102.9	109.9	113.3	109.8	111.4	113.7
California	702.8	727.1	737.1	705.0	715.1	730.1

See explanatory notes, sections H and I.

1/₁ Series based on Standard Industrial Classification. Data for New York, Washington and Wyoming may not be strictly comparable with those published prior to the current report.

* Revised: Data for other months revised as follows:

Connecticut - February 1948 to 418.8

Georgia - April through October 1948 to 276.5; 275.0; 276.3; 273.6; 280.1; 279.4; and 279.9.

New Mexico - April through September 1948 to 9.0; 9.4; 9.5; 9.8; 9.8; and 9.8.

Tennessee - August through October 1948 to 259.1; 256.6; and 256.6.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1949			1948	
	February	January	December	February	January
ALL MANUFACTURING	12, 552	12,670	13,059	13,066	13,150
DURABLE GOODS	6,416	6,522	6,736	6,711	6,795
NONDURABLE GOODS	6,136	6,148	6,323	6,355	6,355
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	1,574	1,597	1,638	1,628	1,634
Blast furnaces, steel works, and rolling mills	546.2	543.0	543.0	508.5	508.8
Gray-iron and semisteel castings	105.8	109.0	113.1	120.5	120.4
Malleable-iron castings	34.8	36.6	39.0	37.8	37.9
Steel castings	72.3	73.8	74.9	72.3	71.3
Cast-iron pipe and fittings	28.6	29.8	30.0	28.0	28.7
Tin cans and other tinware	43.1	44.8	46.4	45.7	47.4
Wire drawn from purchased rods	27.8	28.5	28.7	30.9	31.4
Wirework	41.1	41.6	42.2	42.5	43.5
Cutlery and edge tools	22.7	23.2	24.3	24.6	24.7
Tools (except edge tools, machine tools, files, and saws)	23.3	24.0	24.4	25.8	25.9
Hardware	50.9	52.0	54.2	56.9	56.0
Plumbers' supplies	39.6	41.4	42.4	40.0	40.0
Stoves, oil burners, and heating equipment, not elsewhere classified	61.8	64.0	76.4	91.0	93.1
Steam and hot-water heating apparatus and steam fittings	60.0	63.3	65.3	66.5	65.9
Stamped and enameled ware and galvanizing	105.7	106.4	113.5	121.2	121.6
Fabricated structural and ornamental metalwork	64.1	65.0	65.6	63.4	63.7
Metal doors, sash, frames, molding, and trim	9.9	10.3	11.0	10.2	10.8
Bolts, nuts, washers, and rivets	28.2	28.5	28.7	28.7	28.7
Forgings, iron and steel	37.6	38.1	38.4	37.6	37.8
Wrought pipe, welded and heavy-riveted	19.7	19.6	19.5	19.1	19.8
Screw-machine products and wood screws	33.8	35.1	35.7	36.6	36.1
Steel barrels, kegs, and drums	7.3	7.6	7.8	8.1	8.4
Firearms	22.4	22.6	22.4	20.4	20.0
ELECTRICAL MACHINERY <u>1/</u>	521	536	552	584	588
Electrical equipment	347.4	354.5	363.4	387.7	389.7
Radios and phonographs	88.6	93.6	97.2	99.2	100.3
Communication equipment	85.3	88.4	91.8	97.2	98.2

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	1949		1948		
	February	January	December	February	January
MACHINERY, EXCEPT ELECTRICAL <u>1/</u>	1,158	1,179	1,202	1,237	1,231
Machinery and machine-shop products	489.9	499.1	506.0	521.3	518.5
Engines and turbines	51.5	52.3	52.6	54.4	54.6
Tractors	61.4	61.8	61.6	61.9	61.4
Agricultural machinery, excluding tractors	76.0	76.5	77.1	74.6	72.3
Machine tools	43.3	44.1	47.3	50.4	50.4
Machine-tool accessories	52.0	53.5	54.4	56.3	56.4
Textile machinery	41.0	41.2	41.6	40.8	40.7
Pumps and pumping equipment	67.7	68.6	69.4	75.4	75.5
Typewriters	16.1	16.8	18.4	25.1	25.8
Cash registers; adding, and calculating machines	41.5	42.4	43.8	45.9	45.3
Washing machines, wringers, and driers, domestic	9.6	10.2	12.5	16.5	16.2
Sewing machines, domestic and industrial	15.1	15.1	15.0	13.5	13.4
Refrigerators and refrigeration equipment	73.8	76.3	79.3	81.6	82.6
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	442	444	453	464	472
Locomotives	25.2	25.3	26.5	26.5	26.3
Cars, electric and steam-railroad	56.7	56.2	56.1	54.0	55.9
Aircraft and parts, excluding aircraft engines	151.1	151.4	151.6	135.3	134.7
Aircraft engines	28.5	28.7	28.5	24.9	25.3
Shipbuilding and boatbuilding	86.8	88.9	92.7	127.7	132.9
Motorcycles, bicycles, and parts	8.9	9.5	12.0	14.6	14.5
AUTOMOBILES	758	776	784	720	789
NONFERROUS METALS AND THEIR PRODUCTS <u>1/</u>	378	385	398	409	409
Smelting and refining, primary, of nonferrous metals	40.6	40.7	41.2	40.2	39.9
Alloying; and rolling and drawing of nonferrous metals, except aluminum	52.6	54.4	54.7	53.1	53.6
Clocks and watches	23.1	24.2	27.0	28.6	28.6
Jewelry (precious metals) and jewelers' findings	26.1	26.1	26.8	27.5	27.3
Silverware and plated ware	26.7	27.0	28.0	27.1	26.8
Lighting equipment	30.5	29.9	30.9	33.9	33.6
Aluminum manufactures	38.7	39.7	40.6	45.2	45.3
Sheet-metal work, not elsewhere classified	32.9	34.3	36.4	38.4	38.8

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

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

(In thousands)

Industry group and industry	1949			1948	
	February	January	December	February	January
LUMBER AND TIMBER BASIC PRODUCTS <u>1/</u>	708	717	785	736	738
Sawmills and logging camps	567.2	571.8	632.4	594.1	597.7
Planing and plywood mills	140.5	145.4	152.4	141.1	140.8
FURNITURE AND FINISHED LUMBER PRODUCTS <u>1/</u>	437	440	462	490	489
Mattresses and bedsprings	31.8	31.4	33.4	38.6	38.7
Furniture	240.5	242.1	254.1	266.2	265.1
Wooden boxes, other than cigar	31.4	32.4	35.1	37.6	37.8
Caskets and other morticians' goods	18.0	18.7	18.8	20.7	21.0
Wood preserving	16.4	16.5	17.0	16.7	17.6
Wood, turned and shaped	32.2	32.4	33.4	35.1	34.3
STONE, CLAY, AND GLASS PRODUCTS <u>1/</u>	440	448	462	443	445
Glass and glassware	111.2	113.6	118.8	118.8	121.0
Glass products made from purchased glass	14.0	14.4	14.7	14.3	14.4
Cement	36.4	36.5	37.0	35.2	35.2
Brick, tile, and terra cotta	78.5	79.9	83.1	75.3	78.0
Pottery and related products	60.4	60.2	61.6	57.8	57.4
Gypsum	7.3	7.4	7.5	7.6	7.5
Wallboard, plaster (except gypsum), and mineral wool	13.2	14.3	14.8	14.4	14.5
Lime	10.4	10.4	10.7	10.7	10.7
Marble, granite, slate, and other products	18.9	18.4	19.2	17.9	18.0
Abrasives	20.1	20.6	20.6	19.7	15.8
Asbestos products	23.2	24.1	25.3	25.1	25.1
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES <u>1/</u>	1,190	1,200	1,236	1,306	1,292
Cotton manufactures, except smallwares	490.6	494.9	507.5	525.3	523.6
Cotton smallwares	12.6	12.8	13.1	14.9	14.6
Silk and rayon goods	114.9	118.0	120.8	119.2	115.5
Woolen and worsted manufactures, except dyeing and finishing	144.2	149.1	157.4	179.5	177.4
Hosiery	139.0	137.7	140.5	150.8	149.5
Knitted cloth	10.9	10.9	11.2	11.7	11.6
Knitted outerwear and knitted gloves	32.0	31.4	33.2	33.9	32.9
Knitted underwear	40.7	40.4	43.6	53.5	52.8
Dyeing and finishing textiles, including woolen and worsted	91.1	90.2	92.5	95.5	94.4
Carpets and rugs, wool	39.7	40.0	40.7	39.0	38.4
Hats, fur-felt	11.6	11.7	11.7	13.7	13.7
Jute goods, except felts	4.2	4.3	4.3	4.2	4.0
Cordage and twine	14.6	14.7	14.9	17.2	16.8

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

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

(In thousands)

Industry group and industry	1949		1948		
	February	January	December	February	January
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 1/	1,177	1,129	1,147	1,166	1,147
Men's clothing, not elsewhere classified	290.7	279.8	281.3	288.2	285.3
Shirts, collars, and nightwear	66.7	62.9	66.8	74.1	73.8
Underwear and neckwear, men's	18.8	17.4	19.0	18.7	18.1
Work shirts	15.7	13.8	16.0	14.8	13.9
Women's clothing, not elsewhere classified	501.6	483.3	486.5	485.3	476.2
Corsets and allied garments	18.5	18.8	19.4	20.1	19.7
Millinery	23.7	21.7	20.9	24.5	23.1
Handkerchiefs	5.2	5.4	5.5	5.0	4.9
Curtains, draperies, and bedspreads	20.1	17.6	19.5	25.6	24.1
Housefurnishings, other than curtains, etc.	24.9	24.0	25.6	23.1	23.7
Textile bags	24.0	23.8	24.1	22.0	22.3
LEATHER AND LEATHER PRODUCTS 1/	367	365	364	402	399
Leather	46.0	46.5	47.3	50.3	50.2
Boot and shoe cut stock and findings	17.4	17.1	17.0	19.5	19.7
Boots and shoes	239.3	237.2	232.1	257.8	256.2
Leather gloves and mittens	9.7	9.4	10.6	12.5	12.2
Trunks and suitcases	11.1	11.0	13.1	14.0	13.3
FOOD 1/	1,153	1,182	1,253	1,159	1,191
Slaughtering and meat packing	205.1	213.1	218.2	199.9	209.7
Butter	33.1	33.3	34.9	32.0	32.6
Condensed and evaporated milk	19.2	19.0	18.7	18.8	18.4
Ice cream	24.4	23.5	23.9	23.6	23.6
Flour	40.5	41.3	41.5	40.7	41.8
Feeds, prepared	28.9	28.7	28.9	27.4	29.3
Cereal preparations	13.1	12.8	12.5	12.4	12.1
Baking	243.7	244.1	251.7	238.7	236.4
Sugar refining, cane	24.7	24.6	24.2	24.2	22.2
Sugar, beet	4.8	5.3	10.8	6.8	11.1
Confectionery	71.1	74.1	82.4	77.3	82.0
Beverages, nonalcoholic	37.8	38.7	39.5	36.1	37.4
Malt liquors	73.1	74.5	77.9	74.1	75.2
Canning and preserving	120.8	131.8	163.1	136.8	142.2
TOBACCO MANUFACTURES 1/	83	83	87	88	87
Cigarettes	32.8	33.5	34.1	33.5	33.6
Cigars	42.3	42.1	45.2	46.2	45.8
Tobacco (chewing and smoking) and snuff	7.5	7.8	7.8	7.9	7.9

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	1949			1948	
	February	January	December	February	January
PAPER AND ALLIED PRODUCTS <u>1/</u>	386	391	401	392	395
Paper and pulp	202.4	204.5	207.0	203.0	203.0
Paper goods, other	61.5	62.2	63.5	61.9	62.6
Envelopes	12.7	12.8	13.1	12.5	12.4
Paper bags	16.4	16.5	16.7	18.0	18.1
Paper boxes	91.9	94.5	99.9	96.5	97.7
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	433	436	443	438	439
Newspapers and periodicals	150.4	149.7	152.3	144.1	143.6
Printing; book and job	184.2	186.5	188.7	187.7	189.7
Lithographing	29.5	30.1	31.3	31.8	32.0
Bookbinding	33.4	33.9	34.5	37.4	37.6
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	588	594	597	588	588
Paints, varnishes, and colors	46.0	47.1	47.6	49.3	48.6
Drugs, medicines, and insecticides	65.7	65.6	64.4	65.6	65.7
Perfumes and cosmetics	11.0	11.2	12.2	12.1	12.0
Soap	26.3	26.4	26.5	25.4	25.5
Rayon and allied products	65.2	65.1	64.8	63.7	63.2
Chemicals, not elsewhere classified	204.7	209.4	211.2	205.5	206.7
Explosives and safety fuses	26.7	27.1	27.4	25.5	25.3
Compressed and liquefied gases	9.1	9.3	9.5	9.8	9.9
Ammunition, small-arms	7.0	7.1	7.2	7.8	7.7
Fireworks	2.6	2.6	2.4	2.6	2.5
Cottonseed oil	21.6	24.0	25.7	19.5	21.7
Fertilizers	33.9	30.4	28.7	35.4	33.3
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	162	162	164	163	164
Petroleum refining	113.1	112.9	113.3	112.1	112.4
Coke and byproducts	32.0	32.3	32.1	30.3	30.5
Paving materials	2.2	2.2	2.6	1.8	2.0
Roofing materials	13.5	13.4	15.1	17.6	18.0

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	1949		1948	
	February	January	December	January
RUBBER PRODUCTS <u>1/</u>	186	191	196	208
Rubber tires and inner tubes	86.5	88.4	89.6	98.9
Rubber boots and shoes	20.6	22.4	23.5	22.8
Rubber goods, other	79.3	80.1	82.6	86.5
MISCELLANEOUS INDUSTRIES <u>1/</u>	411	415	435	445
Instruments, (professional and scientific), and fire-control equipment	30.8	30.6	30.2	27.7
Photographic apparatus	37.6	38.4	39.6	39.0
Optical instruments and ophthalmic goods	26.3	26.1	26.3	27.4
Pianos, organs, and parts	12.2	12.6	13.3	15.7
Games, toys, and dolls	33.8	32.3	39.5	36.3
Buttons	12.6	12.5	13.0	13.4
Fire extinguishers	2.3	2.6	2.8	2.5

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	1949			1948	
	February	January	December	February	January
MINING: <u>2/</u>					
Coal					
Anthracite	76.2	77.2	77.0	76.6	76.2
Bituminous coal	399	401	405	397	404
Metal	92.8	89.8	90.1	90.2	89.7
Iron	32.0	32.0	32.3	31.0	30.9
Copper	26.7	24.2	24.4	27.0	26.9
Lead and zinc	16.9	16.9	16.9	16.3	15.7
Gold and silver	9.2	8.9	8.7	8.7	8.6
Miscellaneous	8.0	7.9	7.9	7.8	7.7
Quarrying and nonmetallic	76.6	77.5	83.4	76.8	79.9
Crude petroleum and natural gas production <u>3/</u>	129.6	129.5	129.6	127.1	126.4
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I railroads <u>4/</u>	1,232	1,256	1,306	1,311	1,318
Street railways and busses <u>5/</u>	242	243	244	249	250
Telephone	640	638	642	623	620
Telegraph <u>6/</u>	32.8	33.3	33.9	36.8	36.6
Electric light and power	282	281	282	269	268
SERVICE:					
Hotels (year-round)	364	366	370	377	378
Power laundries <u>2/</u>	217	221	224	230	235
Cleaning and dyeing <u>2/</u>	83.3	84.5	86.3	86.8	88.9

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 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			
	1949		1948		1949		1948	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
ALL MANUFACTURING	153.2	154.7	159.4	159.5	357.9	363.0	377.6	354.1
DURABLE GOODS	177.7	180.6	186.5	185.8	403.2	412.6	430.1	393.1
NONDURABLE GOODS	133.9	134.2	138.0	138.7	313.6	314.5	326.3	316.0
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	158.8	161.1	165.2	164.2	348.4	356.7	371.4	337.6
Blast furnaces, steel works, and rolling mills	140.6	139.8	139.8	130.9	302.8	304.6	305.1	257.5
Gray-iron and semisteel castings	170.0	175.1	181.7	193.7	376.2	395.8	424.1	436.7
Malleable-iron castings	180.9	190.3	203.1	196.7	424.9	468.6	520.8	467.6
Steel castings	225.6	230.3	233.6	225.5	496.7	506.0	525.2	465.6
Cast-iron pipe and fittings	162.3	169.3	170.3	159.1	460.8	475.5	471.2	392.5
Tin cans and other tinware	135.8	140.9	145.9	143.8	306.5	317.7	340.3	302.4
Wire drawn from purchased rods	126.7	129.6	130.8	140.5	257.9	268.3	271.4	268.7
Wirework	135.3	136.9	138.8	139.9	323.0	332.0	334.7	309.0
Cutlery and edge tools	147.5	150.3	157.8	159.4	353.8	371.2	394.3	377.2
Tools (except edge tools, machine tools, files, and saws)	152.5	157.1	159.3	168.8	348.5	361.3	372.5	379.0
Hardware	142.9	146.0	152.0	159.7	339.3	350.0	370.8	372.1
Plumbers' supplies	151.0	157.9	161.5	152.6	321.8	343.3	378.3	320.3
Stoves, oil burners, and heating equipment, not elsewhere classified	125.7	130.3	155.3	185.2	261.7	277.2	350.4	407.6
Steam and hot-water heating apparatus and steam fittings	185.8	196.1	202.3	206.1	400.6	418.1	454.6	447.5
Stamped and enameled ware and galvanizing	178.7	179.8	191.9	204.9	429.3	440.0	481.0	471.0
Fabricated structural and ornamental metalwork	180.6	182.9	184.7	178.4	394.8	398.5	406.8	353.0
Metal doors, sash, frames, molding, and trim	128.4	133.0	141.7	131.2	297.4	311.7	341.8	276.9
Bolts, nuts, washers, and rivets	185.0	186.9	188.4	188.2	410.4	420.5	445.1	406.0
Forgings, iron and steel	229.4	232.6	234.2	229.5	529.4	540.5	548.5	496.2
Wrought pipe, welded and heavy-riveted	220.5	219.3	219.2	214.6	504.6	499.1	497.2	443.2
Screw-machine products and wood screws	187.6	194.5	197.8	203.2	421.3	441.3	453.5	452.1
Steel barrels, kegs, and drums	113.2	118.1	120.6	125.5	301.9	321.0	349.4	300.5
Firearms	421.3	424.9	421.3	383.9	1011.1	1007.6	1005.6	872.2
ELECTRICAL MACHINERY <u>1/</u>	201.2	206.9	213.1	225.4	442.2	454.3	474.6	465.1
Electrical equipment	190.2	194.1	199.0	212.3	420.3	427.0	444.1	436.7
Radios and phonographs	201.3	212.8	221.0	225.5	478.3	507.3	551.4	495.6
Communication equipment	262.8	272.4	282.9	299.3	524.1	547.2	564.3	593.7

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			
	1949		1948		1949		1948	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
MACHINERY, EXCEPT ELECTRICAL <u>1/</u>	219.1	223.1	227.5	234.0	463.0	473.7	491.6	471.9
Machinery and machine-shop products	236.0	240.4	243.7	251.1	501.9	517.7	532.6	513.7
Engines and turbines	275.9	280.4	281.9	291.6	601.9	609.9	639.3	622.1
Tractors	196.3	197.8	197.0	197.9	366.8	374.6	369.6	351.9
Agricultural machinery, excluding tractors	266.5	268.3	270.1	261.6	607.6	599.0	613.7	550.5
Machine tools	118.2	120.5	129.3	137.6	218.6	224.2	249.3	254.4
Machine-tool accessories	201.2	207.3	210.6	218.0	367.4	384.0	395.7	398.0
Textile machinery	187.0	188.2	190.0	186.2	429.2	437.8	461.4	420.9
Pumps and pumping equipment	272.3	275.9	278.9	303.1	619.9	609.7	632.9	647.5
Typewriters	99.6	103.4	113.2	154.9	220.4	229.5	265.7	357.6
Cash registers; adding, and calculating machines	210.9	215.5	222.5	233.4	461.8	474.2	494.2	489.0
Washing machines, wringers, and driers, domestic	128.8	136.4	167.3	221.1	261.4	274.5	316.6	470.4
Sewing machines, domestic and industrial	193.0	192.1	191.4	172.5	481.7	490.1	504.1	404.0
Refrigerators and refrigeration equipment	210.0	216.9	225.6	232.2	449.8	460.8	490.0	433.7
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	278.3	280.0	285.3	292.6	607.9	608.5	635.5	593.3
Locomotives	388.9	390.4	410.1	409.1	894.0	917.9	1024.4	869.2
Cars, electric- and steam-railroad	231.2	229.3	228.6	220.2	563.4	557.1	565.9	479.5
Aircraft and parts, excluding aircraft engines	380.8	381.6	382.1	341.1	828.0	808.0	838.5	667.3
Aircraft engines	321.1	323.2	320.9	280.1	604.9	617.2	618.9	469.4
Shipbuilding and boatbuilding	125.4	128.3	133.9	184.4	263.2	274.4	288.6	385.4
Motorcycles, bicycles, and parts	128.0	136.4	171.6	209.4	260.4	274.4	353.7	420.6
AUTOMOBILES	188.5	193.0	194.8	178.9	444.7	455.3	451.2	357.6
NONFERROUS METALS AND THEIR PRODUCTS <u>1/</u>	164.9	168.0	173.6	178.5	363.6	372.2	391.2	372.9
Smelting and refining, primary, of nonferrous metals	147.1	147.3	149.1	145.4	339.2	344.2	342.1	303.7
Alloying; and rolling and drawing of nonferrous metals, except aluminum	135.6	140.1	141.0	136.9	276.5	296.9	309.8	273.2
Clocks and watches	113.9	119.3	133.3	141.1	282.8	295.9	335.9	333.4
Jewelry (precious metals) and jewelers' findings	180.9	180.8	185.3	190.4	377.0	371.5	402.3	396.2
Silverware and plated ware	219.8	223.0	230.8	223.1	506.4	512.7	554.3	525.6
Lighting equipment	148.8	146.1	151.0	165.4	348.2	319.8	335.4	333.7
Aluminum manufactures	164.2	168.6	172.5	192.0	341.0	349.8	357.5	366.8
Sheet-metal work, not elsewhere classified	175.4	182.7	194.4	204.9	397.9	422.8	453.3	447.1

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			
	1949		1948		1949		1948	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
LUMBER AND TIMBER BASIC PRODUCTS 1/	168.4	170.6	186.7	175.0	395.7	418.2	465.6	417.2
Sawmills and logging camps	180.9	182.3	201.6	189.4	422.9	450.0	503.5	452.4
Planing and plywood mills	177.7	183.8	192.6	178.4	425.6	439.9	481.5	422.2
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	133.2	134.1	140.7	149.2	315.7	317.9	345.4	350.2
Mattresses and bedsprings	155.0	152.9	162.9	188.5	343.5	326.8	351.3	410.9
Furniture	135.2	136.1	142.8	149.6	320.5	323.0	354.4	356.0
Wooden boxes, other than cigar	110.9	114.4	124.1	132.6	270.5	280.9	313.9	311.8
Caskets and other morticians' goods	129.2	134.4	135.0	148.9	269.6	282.6	282.4	310.5
Wood preserving	130.7	130.9	135.4	133.1	347.6	354.4	372.4	311.6
Wood, turned and shaped	131.1	132.0	136.1	142.7	312.6	314.8	331.1	327.9
STONE, CLAY, AND GLASS PRODUCTS 1/	150.0	152.5	157.4	150.9	344.5	349.5	366.9	321.4
Glass and glassware	155.8	159.2	166.5	166.5	366.8	371.9	385.3	350.9
Glass products made from purchased glass	140.0	143.6	147.0	142.4	313.9	322.9	350.7	307.0
Cement	149.5	149.8	152.1	144.6	303.6	308.1	312.2	273.9
Brick, tile, and terra cotta	135.2	137.7	143.1	129.8	329.0	330.8	355.5	285.4
Pottery and related products	178.5	177.9	182.0	170.7	392.1	386.8	404.1	345.2
Gypsum	148.8	150.4	151.5	153.8	342.3	343.9	378.5	320.1
Wallboard, plaster (except gypsum), and mineral wool	162.3	176.3	181.9	177.2	380.6	454.9	493.0	431.7
Lime	110.2	110.3	112.7	112.7	296.8	304.3	313.0	280.3
Marble, granite, slate, and other products	102.2	99.6	103.9	96.5	197.1	190.6	204.2	169.5
Abrasives	260.2	265.7	266.9	254.1	562.7	574.9	580.7	526.0
Asbestos products	146.1	151.8	159.4	158.0	351.9	362.2	398.9	370.6
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	104.0	104.9	108.0	114.2	274.8	276.7	291.9	310.6
Cotton manufactures, except smallwares	117.3	118.3	121.3	125.6	332.9	331.9	352.7	377.0
Cotton smallwares	89.9	90.7	93.2	105.8	214.4	213.8	224.2	249.3
Silk and rayon goods	90.8	93.2	95.4	94.1	267.3	276.2	293.4	282.2
Woolen and worsted manufactures, except dyeing and finishing	91.5	94.6	99.8	113.9	245.6	258.5	275.0	321.1
Hosiery	82.8	82.0	83.6	89.7	193.6	192.2	201.8	204.8
Knitted cloth	94.9	94.8	97.2	101.8	225.4	226.3	227.0	242.6
Knitted outerwear and knitted gloves	107.7	105.7	111.8	114.0	260.7	258.1	264.6	269.1
Knitted underwear	99.9	99.3	107.1	131.4	235.9	231.0	256.1	334.4
Dyeing and finishing textiles, including woolen and worsted	129.0	127.7	130.9	135.3	321.3	309.0	327.7	334.6
Carpets and rugs, wool	146.8	148.0	150.7	144.1	370.0	382.1	389.8	346.0
Hats, fur-felt	75.3	76.0	75.8	89.0	175.6	177.8	176.8	202.2
Jute goods, except felts	111.5	112.2	113.5	110.3	269.5	271.1	283.6	265.7
Cordage and twine	114.4	115.1	116.7	134.7	276.1	278.9	288.6	337.6

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			
	1949		1948		1949		1948	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>1/</u>	149.1	143.0	145.3	147.7	345.8	327.2	329.2	345.2
Men's clothing, not elsewhere classified	126.6	121.8	122.5	125.5	286.0	269.6	271.9	293.0
Shirts, collars, and nightwear	90.2	85.0	90.3	100.2	211.9	192.9	211.5	246.0
Underwear and neckwear, men's	111.1	102.7	111.9	110.3	314.3	282.4	320.3	300.0
Work shirts	110.9	97.7	112.9	104.8	282.0	238.4	271.0	250.6
Women's clothing, not elsewhere classified	175.2	168.9	170.0	169.5	391.6	376.9	370.7	387.1
Corsets and allied garments	98.6	100.4	103.4	107.0	226.8	223.8	233.3	237.7
Millinery	93.0	84.9	82.0	96.1	205.6	162.9	148.4	206.4
Handkerchiefs	103.0	106.0	107.6	97.9	286.0	279.7	295.8	243.4
Curtains, draperies, and bedspreads	112.9	99.2	109.9	143.9	289.3	240.4	265.2	329.8
Housefurnishings, other than curtains, etc.	222.6	214.5	228.8	206.7	517.2	483.9	560.4	452.9
Textile bags	190.5	188.5	190.9	174.3	432.7	438.9	455.7	365.4
LEATHER AND LEATHER PRODUCTS <u>1/</u>	105.8	105.0	104.8	115.8	239.4	235.0	234.3	262.5
Leather	91.9	92.9	94.6	100.4	202.2	204.6	210.9	216.4
Boot and shoe cut stock and findings	87.1	85.9	85.1	97.8	184.4	177.4	178.1	198.6
Boots and shoes	103.6	102.7	100.5	111.7	239.6	234.4	227.5	261.0
Leather gloves and mittens	97.0	93.6	106.0	124.9	201.1	194.2	209.9	252.2
Trunks and suitcases	133.7	132.3	157.3	168.6	277.6	256.3	343.2	366.9
FOOD <u>1/</u>	134.9	138.3	146.6	135.6	302.9	312.1	333.5	288.5
Slaughtering and meat packing	151.9	157.8	161.5	148.0	307.8	343.8	365.6	280.6
Butter	164.5	165.4	173.4	158.8	367.6	369.3	380.9	332.7
Condensed and evaporated milk	176.7	174.9	172.1	172.5	428.0	416.1	407.4	388.1
Ice cream	138.4	133.4	135.7	133.8	280.0	265.7	270.4	250.9
Flour	145.9	148.8	149.4	146.7	332.1	362.5	346.6	318.2
Feeds, prepared	167.4	166.1	167.5	158.7	385.0	391.9	396.0	314.7
Cereal preparations	156.8	152.8	149.8	147.8	356.0	338.1	326.8	322.2
Baking	128.0	128.2	132.2	125.4	271.7	264.6	279.5	257.2
Sugar refining, cane	155.7	154.7	152.8	152.7	348.1	343.0	316.9	278.8
Sugar, beet	41.7	45.2	93.0	58.7	98.5	110.6	194.2	132.2
Confectionery	127.6	133.0	147.9	138.8	290.9	304.6	347.0	302.6
Beverages, nonalcoholic	158.5	162.2	165.7	151.3	277.0	276.1	284.7	254.3
Malt liquors	180.6	184.0	192.5	183.1	332.3	331.8	359.5	320.7
Canning and preserving	80.3	87.7	108.5	91.0	215.8	226.8	280.0	239.9
TOBACCO MANUFACTURES <u>1/</u>	88.6	89.3	93.3	93.9	193.5	200.5	217.9	195.7
Cigarettes	119.8	122.0	124.2	122.1	239.8	249.9	269.2	219.3
Cigars	75.8	75.5	80.9	82.8	169.2	174.8	192.1	189.4
Tobacco (chewing and smoking) and snuff	74.7	77.1	78.0	78.3	161.4	166.3	178.5	162.2

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1949		1948		1949		1948	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
PAPER AND ALLIED PRODUCTS <u>1/</u>	145.4	147.5	151.1	147.8	335.3	341.9	356.5	328.9
Paper and pulp	146.9	148.4	150.2	147.3	341.0	348.6	357.9	333.8
Paper goods, other	163.0	164.9	168.2	164.1	380.5	381.2	394.7	352.9
Envelopes	145.9	147.2	150.4	143.9	297.8	302.8	317.5	282.8
Paper bags	147.5	148.5	150.5	162.0	357.0	355.4	364.5	357.8
Paper boxes	132.5	136.3	144.0	139.1	296.5	305.6	335.3	307.1
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	132.1	132.9	135.2	133.5	269.7	268.8	280.6	254.7
Newspapers and periodicals	126.8	126.1	128.3	121.4	247.8	242.7	258.9	224.6
Printing; book and job	144.3	146.2	147.8	147.1	307.0	309.4	316.0	290.9
Lithographing	112.3	114.5	119.3	121.2	216.3	218.6	233.3	219.0
Bookbinding	129.5	131.5	133.8	145.1	296.4	305.4	310.6	307.7
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	203.9	206.1	207.0	204.2	454.2	459.1	462.3	425.6
Paints, varnishes, and colors	162.7	166.7	168.2	174.5	315.5	317.2	325.5	324.4
Drugs, medicines, and insecticides	238.5	238.2	233.9	238.3	535.8	534.6	514.4	489.2
Perfumes and cosmetics	105.5	107.1	116.8	116.2	223.2	230.3	247.4	231.2
Soap	172.3	173.3	173.5	166.3	385.5	385.0	404.1	376.4
Rayon and allied products	134.9	134.6	134.0	131.8	304.0	304.5	305.3	270.2
Chemicals, not elsewhere classified	292.7	299.5	302.1	293.9	621.6	639.3	639.7	584.8
Explosives and safety fuses	366.6	371.7	375.2	349.9	729.7	707.6	746.9	678.2
Compressed and liquefied gases	229.0	232.8	239.6	246.2	493.1	487.7	483.8	475.5
Ammunition, small-arms	164.0	165.7	167.7	182.2	385.3	380.6	395.2	388.7
Fireworks	227.3	227.2	208.0	221.8	559.9	587.4	541.4	610.2
Cottonseed oil	141.3	157.1	168.3	127.7	414.6	475.6	539.9	338.0
Fertilizers	180.1	161.5	152.1	188.1	503.0	449.8	427.5	482.2
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	152.8	153.0	155.0	153.9	339.2	349.6	345.5	315.4
Petroleum refining	154.4	154.2	154.8	153.1	334.2	346.4	338.2	302.1
Coke and byproducts	147.4	148.9	147.8	139.6	351.0	358.4	350.7	312.3
Paving materials <u>2/</u>	87.8	91.4	105.0	73.2	191.3	185.8	239.5	160.6
Roofing materials	167.2	165.8	186.7	217.5	373.1	368.5	413.2	500.7

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1949		1948		1949		1948	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
RUBBER PRODUCTS <u>1/</u>	154.1	157.3	161.8	172.0	309.8	320.6	332.7	337.2
Rubber tires and inner tubes	159.5	163.0	165.3	182.4	288.8	294.5	299.6	315.4
Rubber boots and shoes	138.8	151.1	158.0	153.8	301.5	351.1	388.2	345.0
Rubber goods, other	152.8	154.4	159.2	166.9	346.8	353.9	370.0	366.2
MISCELLANEOUS INDUSTRIES <u>1/</u>	167.9	169.4	177.7	181.9	381.4	384.2	406.8	393.9
Instruments (professional and scientific), and fire-control equipment	272.2	270.4	267.1	245.2	596.3	568.1	578.6	487.1
Photographic apparatus	212.8	217.1	223.9	220.9	432.1	440.7	455.1	424.2
Optical instruments and ophthalmic goods	221.5	219.6	221.5	230.0	452.5	452.9	455.7	446.3
Pianos, organs, and parts	156.3	161.8	170.8	201.5	329.1	341.3	381.2	421.1
Games, toys, and dolls	177.1	168.8	206.9	189.9	429.4	410.2	501.4	450.1
Buttons	112.0	111.1	116.2	119.4	263.0	267.4	281.7	285.5
Fire extinguishers	221.7	252.4	272.6	249.3	515.5	601.7	635.1	523.2

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

1/ See footnote 1, table 8.

2/ Paving materials - November 1949 pay roll revised to 240.2.

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			
	1949		1948		1949		1948	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
MINING:								
Coal:								
Anthracite	91.1	92.3	92.0	91.6	168.3	238.6	224.6	232.8
Bituminous coal	107.3	107.9	109.0	106.8	350.1	355.3	355.0	320.0
Metal	100.2	97.0	97.3	97.4	228.6	225.1	224.4	201.7
Iron	151.7	151.4	152.7	146.8	364.7	363.1	358.0	310.3
Copper	106.8	96.7	97.7	108.2	252.9	241.2	244.4	241.7
Lead and zinc	103.7	103.5	103.6	99.9	272.2	278.0	277.8	235.0
Gold and silver	35.2	34.3	33.6	33.4	66.6	61.9	62.4	58.4
Miscellaneous	191.7	188.0	189.4	187.0	398.1	412.3	408.2	347.4
Quarrying and nonmetallic	111.9	113.2	121.8	112.2	281.2	288.1	321.2	262.0
Crude petroleum and natural gas production	113.2	113.2	113.2	111.1	236.7	245.1	235.7	219.9
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I railroads ^{1/}	124.7	127.2	132.2	132.7	^{1/}	^{1/}	^{1/}	^{1/}
Street railways and busses	125.1	125.4	125.9	128.6	230.6	231.3	233.4	234.7
Telephone	201.6	200.8	202.2	196.2	346.2	337.2	339.7	316.3
Telegraph	87.1	88.6	90.0	97.8	208.6	210.9	212.6	212.6
Electric light and power	115.6	115.1	115.6	110.3	206.2	206.7	206.4	188.2
TRADE: ^{2/}								
Wholesale	114.9	115.9	117.8	116.1	219.3	222.7	224.0	214.9
Retail	109.1	111.7	129.0	111.8	214.4	222.6	251.4	208.4
Food	111.8	111.6	114.6	113.9	232.4	231.9	234.8	221.5
General merchandise	118.7	126.0	177.1	122.9	225.0	248.3	340.8	221.4
Apparel	106.3	110.9	135.0	108.2	198.7	211.9	254.7	194.3
Furniture and housefurnishings	90.1	91.1	97.5	91.0	180.3	186.8	201.1	177.8
Automotive	107.3	108.9	113.7	105.7	210.4	216.5	224.7	196.8
Lumber and building materials	115.0	117.6	123.9	118.8	234.4	239.8	251.0	227.6
SERVICE:								
Hotels (year-round) ^{3/}	112.9	113.4	114.6	116.8	235.9	236.3	238.6	233.2
Power laundries	110.8	113.1	114.2	117.6	219.8	228.5	227.6	225.4
Cleaning and dyeing	143.3	145.3	148.4	149.3	271.1	284.3	291.3	271.9

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

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

TABLE 12: Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/
Annual Averages, 1947 and 1948

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
	1948	1947	Employment		Pay roll	
			1948	1947	1948	1947
ALL MANUFACTURING	13,102	12,890	159.9	157.3	365.1	332.1
DURABLE GOODS	6,737	6,637	186.6	183.8	410.4	371.9
NONDURABLE GOODS	6,365	6,253	138.9	136.5	320.7	293.1
<u>Durable goods</u>						
IRON AND STEEL AND THEIR PRODUCTS 2/	1,628	1,597	164.2	161.0	350.7	314.9
Blast furnaces, steel works, and rolling mills	524.9	497.4	135.1	128.0	278.8	237.7
Gray-iron and semisteel castings	115.6	120.2	185.7	193.2	424.0	422.2
Malleable-iron castings	37.8	35.1	196.9	182.8	479.9	414.5
Steel castings	73.2	69.4	228.5	216.5	492.2	422.6
Cast-iron pipe and fittings	28.9	27.4	164.3	155.9	420.8	372.3
Tin cans and other tinware	46.3	44.5	145.8	140.0	326.7	288.8
Wire drawn from purchased rods	29.4	30.4	133.8	138.5	262.2	253.4
Wirework	42.2	40.8	138.7	134.1	317.1	278.9
Cutlery and edge tools	23.7	25.3	153.6	163.9	371.5	374.1
Tools (except edge tools, machine tools, files, and saws)	25.1	25.6	163.7	167.1	372.4	352.6
Hardware	54.5	52.8	152.9	148.1	357.2	324.2
Plumbers' supplies	40.6	39.7	154.7	151.2	339.8	298.7
Stoves, oil burners, and heating equipment, not elsewhere classified	86.7	90.9	176.3	185.0	395.0	388.9
Steam and hot-water heating apparatus and steam fittings	64.7	67.9	200.4	210.2	439.9	424.1
Stamped and enameled ware and galvanizing	117.3	119.4	198.3	201.7	470.1	442.6
Fabricated structural and ornamental metalwork	64.2	62.4	180.7	175.6	373.7	341.2
Metal doors, sash, frames, molding, and trim	10.6	10.1	137.6	130.2	310.8	268.7
Bolts, nuts, washers, and rivets	28.5	28.5	187.0	187.1	417.3	372.3
Forgings, iron and steel	36.7	36.4	224.3	222.6	493.1	452.3
Wrought pipe, welded and heavy- riveted	10.5	18.1	219.0	203.2	473.1	394.7
Screw-machine products and wood screws	35.9	37.1	199.2	206.0	444.6	432.2
Steel barrels, kegs, and drums	7.9	8.2	122.7	127.5	317.0	311.5
Firearms	21.4	19.0	401.1	356.9	938.6	764.5
ELECTRICAL MACHINERY 2/	558	587	215.2	226.7	458.0	440.4
Electrical equipment	372.1	386.5	203.7	211.6	432.9	409.8
Radios and phonographs	93.2	103.7	211.8	235.7	490.4	497.5
Communication equipment	92.3	97.2	284.4	299.3	562.5	551.5

TABLE 12: Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/
Annual Averages, 1947 and 1948 - Continued

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay roll	
	1946	1947	1948	1947	1948	1947
MACHINERY, EXCEPT ELECTRICAL 2/	1,213	1,208	229.6	228.7	478.5	439.9
Machinery and machine-shop products	510.7	517.2	245.9	249.1	518.7	482.7
Engines and turbines	52.9	54.3	283.6	290.8	612.8	586.0
Tractors	59.1	56.6	189.1	181.1	345.1	307.9
Agricultural machinery, excluding tractors	75.0	65.5	262.9	229.5	576.3	453.8
Machine tools	48.1	54.5	131.4	148.8	246.6	263.9
Machine-tool accessories	55.1	59.5	213.2	230.5	390.0	394.6
Textile machinery	41.4	38.1	189.2	173.9	445.5	364.5
Pumps and pumping equipment	70.9	76.6	285.2	307.9	625.7	628.3
Typewriters	22.6	22.8	139.4	140.4	312.8	298.6
Cash registers; adding, and calculating machines	45.2	40.8	229.5	207.3	494.4	418.4
Washing machines, wringers, and driers, domestic	15.7	14.6	210.2	196.1	452.4	395.4
Sewing machines, domestic and industrial	14.2	11.8	180.6	150.3	446.1	324.8
Refrigerators and refrigeration equipment	81.7	75.8	232.4	215.7	479.6	405.0
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	448	453	282.1	285.6	589.7	551.6
Locomotives	25.7	25.4	397.0	391.9	895.9	805.5
Cars, electric- and steam-railroad	54.8	54.9	223.3	223.7	501.3	466.5
Aircraft and parts, excluding aircraft engines	137.1	135.9	345.5	342.6	712.4	648.9
Aircraft engines	25.7	27.2	289.0	305.6	524.6	493.6
Shipbuilding and boatbuilding	109.9	121.6	158.7	175.7	328.9	340.1
Motorcycles, bicycles, and parts	13.2	13.3	189.3	191.4	399.4	382.4
AUTOMOBILES	771	757	191.7	188.2	408.9	363.5
NONFERROUS METALS AND THEIR PRODUCTS 2/	402	415	175.2	181.2	377.1	356.6
Smelting and refining, primary, of nonferrous metals	41.1	40.3	148.6	145.9	327.7	291.2
Alloying; and rolling and drawing of nonferrous metals, except aluminum	53.6	57.5	138.1	148.0	287.9	278.5
Clocks and watches	28.1	27.8	138.5	137.0	335.0	305.0
Jewelry (precious metals) and jewelers' findings	26.9	26.6	186.5	183.9	382.2	354.6
Silverware and plated ware	27.5	24.9	226.3	205.2	534.7	458.1
Lighting equipment	31.8	36.4	155.3	177.9	326.4	334.8
Aluminum manufactures	42.0	45.6	178.3	193.6	349.3	349.8
Sheet-metal work, not elsewhere classified	37.3	39.5	199.1	210.7	446.7	432.9

TABLE 12: Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/,
Annual Averages, 1947 and 1948 - Continued

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
	1948	1947	Employment		Pay roll	
			1948	1947	1948	1947
LUMBER AND TIMBER BASIC PRODUCTS 2/	792	711	188.4	169.2	474.2	389.0
Sawmills and logging camps	644.5	579.6	205.5	184.8	521.8	430.8
Planing and plywood mills	147.4	131.6	186.3	166.3	456.5	367.8
FURNITURE AND FINISHED LUMBER PRODUCTS 2/	469	464	143.0	141.3	340.7	316.9
Mattresses and bedsprings	35.6	33.9	173.7	165.5	379.0	343.7
Furniture	255.1	247.3	143.4	139.0	343.3	312.3
Wooden boxes, other than cigar	35.8	37.8	126.2	133.5	317.5	317.8
Caskets and other morticians' goods	19.8	20.8	142.2	149.3	293.4	295.7
Wood preserving	17.0	19.1	135.2	151.9	359.5	394.3
Wood, turned and shaped	34.5	34.1	140.5	138.6	327.7	303.2
STONE, CLAY, AND GLASS PRODUCTS 2/	456	444	155.4	151.4	347.5	310.1
Glass and glassware	120.5	120.5	168.9	168.9	367.7	337.6
Glass products made from purchased glass	14.3	15.2	142.8	151.5	314.8	312.8
Cement	36.2	33.4	148.8	137.2	302.6	251.9
Brick, tile, and terra cotta	80.8	73.4	139.1	126.5	332.9	276.7
Pottery and related products	59.3	56.0	175.1	165.7	370.6	324.3
Gypsum	7.7	7.3	155.3	148.0	358.6	303.1
Wallboard, plaster (except gypsum), and mineral wool	14.6	13.8	180.0	170.0	472.5	399.6
Lime	10.8	11.0	114.0	115.9	310.8	284.6
Marble, granite, slate, and other products	18.6	17.6	100.3	95.3	186.4	167.8
Abrasives	20.0	21.7	258.9	280.8	557.4	513.3
Asbestos products	25.1	25.1	158.2	157.9	388.1	363.7
<u>Nondurable goods</u>						
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 2/	1,276	1,244	111.5	108.8	299.9	265.0
Cotton manufactures, except smallwares	519.4	509.9	124.2	121.9	363.1	327.0
Cotton smallwares	14.0	14.4	99.2	102.2	234.4	222.3
Silk and rayon goods	120.1	112.1	94.9	88.6	289.7	234.7
Woolen and worsted manufactures, except dyeing and finishing	169.6	170.3	107.6	108.0	296.0	264.9
Hosiery	145.0	142.2	86.3	84.6	202.5	178.5
Knitted cloth	11.4	11.2	98.9	97.4	230.6	211.0
Knitted outerwear and knitted gloves	32.9	33.1	110.7	111.2	257.3	244.1
Knitted underwear	50.4	47.9	123.9	117.6	312.1	281.2
Dyeing and finishing textiles, including woolen and worsted	93.1	90.4	131.8	128.0	320.0	285.1
Carpets and rugs, wool	39.9	34.5	147.6	127.8	369.3	276.6
Hats, fur-felt	12.8	13.3	83.2	86.5	184.2	182.1
Jute goods, except felts	4.2	3.7	110.8	98.2	270.5	221.9
Cordage and twine	16.0	15.8	125.2	123.8	303.6	279.6

TABLE 12: Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/,
Annual Averages, 1947 and 1948, Continued

Industry group and industry	Estimated production workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay roll	
	1948	1947	1948	1947	1948	1947
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>2/</u>	1,137	1,061	144.0	134.3	326.5	291.9
Men's clothing, not elsewhere classified	288.4	267.4	125.6	116.5	288.2	257.3
Shirts, collars, and nightwear	71.5	71.5	96.7	96.7	235.2	226.6
Underwear and neckwear, men's	18.4	17.5	108.6	103.2	301.4	265.5
Work shirts	15.9	14.6	112.3	103.4	280.0	243.5
Women's clothing, not elsewhere classified	468.1	430.6	163.5	150.4	354.6	314.6
Corsets and allied garments	19.0	17.9	101.5	95.3	226.2	202.6
Millinery	21.1	20.4	82.8	80.0	156.9	141.4
Handkerchiefs	5.0	4.8	98.5	94.8	251.5	225.2
Curtains, draperies, and bedspreads	21.4	20.2	120.7	113.5	281.9	249.8
Housefurnishings, other than curtains, etc.	23.9	23.1	213.6	206.7	492.6	442.5
Textile bags	22.4	22.2	178.0	176.0	398.0	360.0
LEATHER AND LEATHER PRODUCTS <u>2/</u>	378	365	109.0	110.8	239.5	238.4
Leather	48.1	49.3	96.1	98.4	206.5	202.5
Boot and shoe cut stock and findings	18.0	19.4	90.3	97.3	182.0	186.7
Boots and shoes	240.9	244.1	104.4	105.7	233.0	234.1
Leather gloves and mittens	12.5	12.6	124.6	126.5	257.1	243.1
Trunks and suitcases	13.7	13.3	164.8	160.3	362.5	328.2
FOOD <u>2/</u>	1,264	1,254	148.0	146.7	322.8	300.4
Slaughtering and meat packing	187.1	191.2	138.6	141.6	297.8	286.3
Butter	36.2	35.5	180.0	176.2	385.2	352.7
Condensed and evaporated milk	20.5	21.1	188.2	193.7	445.1	409.3
Ice cream	27.3	28.4	155.2	161.2	298.6	289.2
Flour	41.2	40.4	148.2	145.3	337.2	324.9
Feeds, prepared	28.4	28.7	164.7	166.0	379.0	350.0
Cereal preparations	12.9	12.9	153.8	153.9	332.7	308.1
Baking	247.2	234.8	129.8	123.3	267.3	233.9
Sugar refining, cane	23.3	23.0	146.6	144.7	305.7	292.2
Sugar, beet	11.0	12.9	94.4	110.9	205.5	226.7
Confectionery	75.2	72.5	135.0	130.1	306.8	277.6
Beverages, nonalcoholic	42.6	35.4	178.8	148.6	306.8	248.8
Malt liquors	80.0	75.2	197.8	185.9	368.3	333.1
Canning and preserving	215.6	219.9	143.5	146.3	373.6	368.6
TOBACCO MANUFACTURES <u>2/</u>	87	86	92.9	92.5	210.7	201.8
Cigarettes	33.9	33.3	123.7	121.3	261.3	241.7
Cigars	45.0	45.0	80.6	80.6	186.2	184.0
Tobacco (chewing and smoking) and snuff	7.8	8.0	77.3	79.3	168.2	160.2

TABLE 12: Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/
Annual Averages, 1947 and 1948 - Continued.

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay roll	
	1948	1947	1948	1947	1948	1947
PAPER AND ALLIED PRODUCTS <u>2/</u>	394	391	148.6	147.2	342.3	306.8
Paper and pulp	205.1	198.5	148.9	144.1	349.2	306.5
Paper goods, other	62.2	61.7	164.9	163.5	365.6	328.4
Envelopes	12.7	12.0	145.3	138.0	291.4	266.0
Paper bags	17.7	18.6	158.9	167.3	372.4	347.7
Paper boxes	95.8	98.9	138.2	142.6	314.4	293.1
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>2/</u>	436	434	133.1	132.2	265.3	241.3
Newspapers and periodicals	147.4	141.6	124.2	119.3	239.7	209.6
Printing; book and job	185.9	186.0	145.7	145.7	299.5	273.3
Lithographing	31.4	32.6	119.4	124.0	228.1	220.8
Bookbinding	35.4	37.6	137.5	146.0	308.2	314.7
CHEMICALS AND ALLIED PRODUCTS <u>2/</u>	586	577	203.4	200.0	440.6	393.6
Paints, varnishes, and colors	48.7	47.2	172.1	166.8	330.4	296.0
Drugs, medicines, and insecticides	64.4	67.9	234.0	246.6	492.4	470.3
Perfumes and cosmetics	11.9	12.8	113.9	123.2	230.7	230.4
Soap	24.9	24.2	163.5	158.7	369.6	323.1
Rayon and allied products	64.0	61.0	132.3	126.2	286.0	248.2
Chemicals, not elsewhere classified	207.8	205.5	297.2	293.9	610.6	548.8
Explosives and safety fuses	26.6	22.8	365.5	312.9	725.6	558.5
Compressed and liquefied gases	9.9	9.6	248.6	242.3	491.9	429.7
Ammunition, small-arms	7.6	6.7	177.5	157.4	402.0	350.1
Fireworks	2.5	2.7	216.9	234.2	580.3	639.3
Cottonseed oil	19.2	17.9	125.9	117.0	366.9	310.0
Fertilizers	30.9	30.9	163.8	164.0	452.3	424.7
PRODUCTS OF PETROLEUM AND COAL <u>2/</u>	166	162	156.9	152.9	337.6	288.4
Petroleum refining	113.7	111.4	155.3	152.2	325.3	277.2
Coke and byproducts	31.4	28.8	144.7	132.8	329.6	271.1
Paving materials	2.5	2.8	100.4	115.1	226.1	226.3
Roofing materials	17.4	17.8	215.1	219.3	514.7	480.3

TABLE 12: Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/,
Annual Averages, 1947 and 1948 - Continued

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay roll	
	1948	1947	1948	1947	1948	1947
RUBBER PRODUCTS <u>2/</u>	199	213	164.3	176.1	334.7	353.6
Rubber tires and inner tubes	93.0	106.7	171.5	196.7	316.2	361.5
Rubber boots and shoes	22.4	22.0	150.6	148.5	348.6	320.7
Rubber goods, other	83.4	84.3	160.9	162.5	359.2	342.6
MISCELLANEOUS INDUSTRIES <u>2/</u>	442	448	180.4	183.0	397.0	374.2
Instruments (professional and scientific), and fire-control equipment	28.4	27.9	251.3	247.1	516.3	463.1
Photographic apparatus	39.1	37.4	220.9	211.5	437.5	385.5
Optical instruments and ophthalmic goods	26.4	26.8	221.7	241.9	438.5	451.4
Pianos, organs, and parts	14.0	15.8	179.2	202.2	381.5	434.8
Games, toys, and dolls	41.8	36.3	218.5	189.7	524.1	419.1
Buttons	13.1	12.5	116.6	111.1	274.0	247.5
Fire extinguishers	2.7	2.9	267.3	286.1	581.8	563.0

1/ Estimates and indexes are based on reports from cooperating establishments covering both full- and part-time production and related workers who worked or received pay during any part of the pay period ending nearest the 15th of the month. Major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946.

2/ Estimates and indexes for the individual industries comprising the major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

TABLE 13: Estimated Number of Employees and Indexes of Employment and Weekly Pay Rolls in Selected Nonmanufacturing Industries 1/, Annual Averages, 1947 and 1948

Industry group and industry	Estimated number of employees (thousands)		Indexes (1939 = 100)			
			Employment		Pay roll	
	1948	1947	1948	1947	1948	1947
MINING: <u>2/</u> <u>3/</u>						
Coal:						
Anthracite	76.9	76.5	92.0	91.5	235.1	222.8
Bituminous coal	393	390	105.8	105.0	328.2	298.6
Metal:	90.7	90.1	97.9	97.3	209.1	186.8
Iron	32.5	31.4	154.0	148.4	338.2	290.6
Copper	26.3	25.7	105.4	103.0	240.8	212.8
Lead and zinc	15.6	17.0	95.7	104.2	232.2	228.0
Gold and silver	8.4	8.2	32.2	31.7	56.6	51.3
Miscellaneous	7.8	7.8	187.1	185.6	363.8	323.6
Quarrying and nonmetallic	84.2	85.8	123.0	125.4	313.4	292.6
Crude petroleum and natural gas production <u>4/</u>	130.6	126.7	114.1	110.7	228.1	196.7
TRANSPORTATION AND PUBLIC UTILITIES:						
Class I railroads <u>5/</u>	1,327	1,352	134.4	136.9	6/	6/
Street railways and busses <u>7/</u>	248	252	127.8	130.2	232.1	221.7
Telephone	635	582	200.0	183.1	329.1	275.4
Telegraph <u>8/</u>	35.7	38.0	94.8	101.0	220.3	211.4
Electric light and power	278	262	113.7	107.2	197.2	174.7
TRADE: <u>9/</u>						
Wholesale	6/	6/	116.4	112.7	216.6	198.7
Retail:	6/	6/	115.0	113.7	219.2	201.4
Food	6/	6/	114.4	113.6	227.6	208.2
General merchandise	6/	6/	131.4	128.2	244.9	224.6
Apparel	6/	6/	115.5	114.9	212.5	203.3
Furniture and housefurnishings	6/	6/	92.2	87.2	180.4	158.4
Automotive	6/	6/	108.9	102.5	209.8	184.2
Lumber and building materials	6/	6/	124.7	120.4	246.8	218.0
SERVICE:						
Hotels (year-round) <u>10/</u>	375	380	116.2	117.8	234.7	222.5
Power laundries <u>2/</u>	232	243	118.3	124.2	231.0	230.9
Cleaning and dyeing <u>2/</u>	90.1	94.6	154.8	162.6	297.2	298.3

1/ Unless otherwise noted, data include all employees.

2/ Includes production and related workers only.

3/ Estimates and indexes have been adjusted to levels indicated by Federal Security Agency data through 1946.

4/ Does not include well drilling or rig building.

5/ Includes all employees at middle of month. Excludes employees of switching and terminal companies. Class I railroads include those with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.

6/ Not available.

7/ Includes private and municipal street-railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.

8/ Includes all land-line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.

9/ Includes all nonsupervisory workers and working supervisors.

10/ 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, 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 : Employees or production		Percent of total
	: of estab- : workers	: Number : Percent of total	
	:lishments:		
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 - Employment Security Div., 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 Employment Security, Dept. of Labor, Lincoln 1.
Nevada - Employment Security Dept., Carson City.
New Hampshire - Unemployment Compensation Div., Bureau of Labor, Concord.
New Jersey - Dept. of Labor, Trenton 8.
New Mexico - Employment Security Commission, Albuquerque.
New York - Div. of Placement and Unemployment Insurance, Dept. of Labor, New York 17.
North Carolina - Dept. of Labor, Raleigh.
Oklahoma - Employment Security Commission, Oklahoma City 2.
Pennsylvania - Federal Reserve Bank of Philadelphia, Philadelphia 1 (mfg.); Bureau of Research and Information, Dept. of Labor and Industry, Harrisburg (nonmfg.).
Rhode Island - Div. of Census and Information, Dept. of Labor, Providence 2.
Tennessee - Dept. of Employment Security, Nashville 3.
Texas - Bureau of Business Research, University of Texas, Austin 12.
Utah - Dept. of Employment Security, Industrial Commission, Salt Lake City 13.
Vermont - Unemployment Compensation Commission, Montpelier.
Virginia - Div. of Research and Statistics, Dept. of Labor and Industry, Richmond 21.
Washington - Employment Security Dept., Olympia.
Wisconsin - Statistical Dept., Industrial Commission, Madison 3.
Wyoming - Employment Security Commission, Casper.

BLS REGIONAL OFFICES

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

North Atlantic: Regional Director, U. S. Bureau of Labor Statistics, 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 and 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 Arsenal, 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; n 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.