

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
FEBRUARY 1948**

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

ESTIMATES OF EMPLOYMENT - NEW SERIES

In this detailed report the Bureau presents a new series of production-worker estimates for the individual industries in manufacturing and nonmanufacturing as shown below. The new estimates, adjusted to bench-mark data through 1945 from the Bureau of Employment Security of the Federal Security Agency, correct the downward bias which has accumulated since 1939 and are, therefore, more representative of the true levels of employment.

MANUFACTURING - Industries in the Iron and Steel and Their Products Group - Of the industries in this group which required adjustment, the largest changes were in the following: gray-iron castings; steel castings; stoves, oil burners, and heating equipment, not elsewhere classified; steam and hot-water heating apparatus and steam fittings; stamped and enameled ware and galvanizing. Listed below are the industries in which, though no general adjustment was necessary, minor revisions were incorporated.

Blast furnaces, steel works, and
rolling mills
Tin cans and other tinware
Wire drawn from purchased rods
Wirework
Cutlery and edge tools

Tools (except edge tools, machine
tools, files, and saws)
Hardware
Fabricated structural and ornamental
metalwork
Metal doors, sash, frames, molding,
and trim

NONMANUFACTURING - Mining Industries - The estimates and indexes for all industries in these series have been adjusted. Despite the lapse of several years without any adjustment to levels other than the 1939 Census of Mineral Industries, the changes are relatively small.

This report shows the new production-worker employment estimates and indexes of employment and pay roll for the months currently presented. A set of summary sheets presenting comparable data from January 1939 to date for these industries will be provided upon request.

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U. S. Department of Labor
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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 - vii.

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

Table 1. - Estimated Number of Wage and Salary Workers in
Nonagricultural Establishments, by Industry Division

(In thousands)

Industry division	1948			1947		1947
	Feb.	Jan.	Dec.	Feb.	Jan.	Average
TOTAL	42,683	43,015	44,078	41,849	41,803	42,541
Manufacturing	15,775	15,878	15,964	15,475	15,372	15,554
Mining	889	896	899	880	883	885
Contract construction	1,565	1,691	1,788	1,502	1,527	1,734
Transportation and public utilities:	3,994	3,994	4,042	4,011	4,014	4,043
Transportation	2,777	2,783	2,829	2,853	2,863	2,880
Communication	723	719	719	697	692	683
Other public utilities	494	492	494	461	459	481
Trade	8,738	8,821	9,453	8,507	8,552	8,713
Finance	1,605	1,595	1,591	1,546	1,544	1,572
Service	4,730	4,723	4,688	4,561	4,527	4,622
Government:	5,387	5,417	5,653	5,367	5,384	5,417
Federal	1,746	1,743	1,985	1,952	1,963	1,870
State and local	3,641	3,674	3,668	3,415	3,421	3,547

See explanatory notes, sections A - H.

Table 2. - Estimated Number of Wage and Salary Workers
in Manufacturing Industries, by Major Industry Group

(In thousands)

Major industry group	1948			1947		1947
	Feb.	Jan.	Dec.	Feb.	Jan.	Average
ALL MANUFACTURING	15,775	15,878	15,964	15,475	15,372	15,554
<u>Durable goods</u>	7,937	8,041	8,056	7,857	7,781	7,866
Iron and steel and their products	1,879	1,885	1,882	1,832	1,823	1,847
Electrical machinery	748	752	759	777	773	749
Machinery, except electrical	1,569	1,564	1,557	1,512	1,504	1,526
Transportation equipment, except automobiles	577	586	579	599	603	569
Automobiles	925	1,012	1,011	965	924	970
Nonferrous metals and their products	470	470	474	498	494	475
Lumber and timber basic products	731	735	749	660	654	716
Furniture and finished lumber products	545	544	542	523	514	521
Stone, clay, and glass products	493	493	503	491	492	494
<u>Nondurable goods</u>	7,838	7,837	7,908	7,618	7,591	7,688
Textile-mill products and other fiber manufactures	1,390	1,376	1,372	1,362	1,354	1,328
Apparel and other finished textile products	1,398	1,375	1,369	1,274	1,244	1,271
Leather and leather products	416	414	416	405	403	401
Food	1,531	1,562	1,611	1,485	1,513	1,609
Tobacco manufactures	102	101	102	103	104	100
Paper and allied products	470	473	474	467	465	465
Printing, publishing, and allied industries	710	712	717	687	683	696
Chemicals and allied products	755	757	761	747	741	745
Products of petroleum and coal	233	234	234	222	222	230
Rubber products	273	275	277	295	294	279
Miscellaneous industries	560	558	575	571	568	565

See explanatory notes, sections A - H.

Table 3. - Federal Employment and Pay Rolls in All Areas and in Continental United States, and Total Government Employment and Pay Rolls in Washington, D. C.

(In thousands)

Area and branch	Employment (as of first of month)			Pay rolls (total for month)		
	1948		1947	1948		1947
	Feb. 1/	Jan. 1/	Feb.	Feb. 1/	Jan. 1/	Feb.
<u>Total (including areas outside United States)</u>						
Total Federal	1,992.3	1,986.0	2,256.8	\$451,770	\$482,987	\$491,355
Executive	1,952.6	1,946.2	2,214.6	442,465	473,466	482,099
Defense agencies	895.9	890.7	1,104.1	192,843	211,495	228,314
Post Office Dept.	432.7	433.1	425.8	101,803	100,395	94,525
Other agencies	624.0	622.4	684.7	147,819	161,576	159,260
Legislative	7.1	7.1	7.1	2,404	2,451	2,308
Judicial	3.5	3.5	3.1	1,195	1,292	1,090
Government corps.	29.1	29.2	32.0	5,706	5,778	5,858
<u>Continental United States</u>						
Total Federal	1,766.2	1,763.5	1,971.6	\$415,629	\$443,175	\$449,318
Executive	1,733.7	1,731.1	1,937.2	406,973	434,366	440,749
Defense agencies	705.8	704.3	854.9	163,905	179,395	192,880
Post Office Dept.	431.2	431.6	424.3	101,438	100,052	94,212
Other agencies	596.7	595.2	658.0	141,630	154,919	153,657
Legislative	7.1	7.0	7.1	2,404	2,451	2,308
Judicial	3.4	3.4	3.0	1,160	1,255	1,055
Government corps.	22.0	22.0	24.3	5,092	5,103	5,206
<u>Washington, D. C.</u>						
Total government	224.2	221.8	245.8	\$ 58,586	\$ 63,304	\$ 62,960
District of Columbia government	18.3	18.4	17.9	4,256	4,499	4,066
Federal	205.9	203.4	227.9	54,330	58,805	58,894
Executive	198.2	195.7	220.2	51,729	56,141	56,396
Defense agencies	65.6	65.1	75.3	15,259	16,656	19,062
Post Office Dept.	7.2	7.2	7.6	2,846	2,776	2,247
Other agencies	125.4	123.4	137.3	33,624	36,709	35,087
Legislative	7.1	7.1	7.1	2,404	2,451	2,308
Judicial	.6	.6	.6	197	213	190

1/ Data for Central Intelligence Agency are excluded.

Table 4. - Personnel and Pay of the Military Branch of the Federal Government

(In thousands)

Personnel and pay	1948		1947	Average monthly personnel and total annual pay	
	February	January	February	1943	1939
Personnel, total as of first of month, including those on active duty and those on terminal leave.....	1,407	1,410	1,900	8,944	345
Army and Air Force.....	1/ 905	898	1,254	6,733	192
Navy.....	402	409	519	1,744	124
Marine Corps.....	80	83	106	311	19
Coast Guard.....	20	20	21	156	10
Men.....	1,390	1,393	1,880	8,833	2/
Women.....	17	17	25	111	2/
Pay, total 3/.....	\$281,423	\$300,241	\$664,053	\$11,173,186	\$331,523
Army and Air Force 3/....	170,209	179,389	447,021	8,143,833	155,482
Navy.....	91,172	100,639	175,560	2,408,736	143,238
Marine Corps.....	15,582	15,506	27,330	392,140	16,877
Coast Guard.....	4,460	4,707	14,142	228,477	15,926
Pay rolls.....	240,493	250,953	309,929	10,140,852	331,523
Mustering-out pay.....	11,838	13,465	18,722	-	-
Family allowances.....	23,566	23,454	28,004	1,032,334	-
Leave payments.....	5,526	12,369	307,398	-	-
Cash.....	1,182	2,205	21,638	-	-
Bonds.....	4,344	10,164	285,760	-	-

1/ Includes 353,000 in Air Force.

2/ Not available.

3/ January and February 1948 figures include estimated lump-sum terminal leave payments authorized by P.L. - 350 of the 80th Congress. Figures for October, November, and December 1947 have been revised to include similar payments and are listed below. Figures for earlier months were not affected.

Item	October 1947	November 1947	December 1947
	(in thousands)		
Pay, total	\$355,961	\$309,705	\$300,257
Army and Air Force	214,578	186,912	183,983
Pay rolls	271,041	252,112	246,532

Table 5. - Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State*

(In thousands)

Region and State	1948		1947		1946	
	Jan.	Dec.	Nov.	Jan.	Dec.	Dec.
New England:						
Maine	112.2	113.5	112.5	117.9	117.8	
New Hampshire	85.7	85.3	83.9	82.4	83.0	
Vermont <u>1/</u>	39.1	40.6	40.0	42.9	<u>2/</u>	
Massachusetts	747.3	757.2	753.2	761.6	766.9	
Rhode Island	153.5	154.6	154.3	153.6	154.4	
Connecticut <u>1/</u>	413.2	415.5	412.2	424.2	<u>2/</u>	
Middle Atlantic:						
New York	1,905.8	1,924.6	1,918.6	1,922.9	1,930.3	
New Jersey	757.3	764.0	757.4	770.3	768.0	
Pennsylvania	1,515.7	1,528.3	1,524.1	1,518.9	1,515.1	
East North Central:						
Ohio	1,245.6	1,250.9	1,247.3	1,242.7	1,231.1	
Indiana	554.4	559.0	558.7	549.6	544.2	
Illinois	1,271.0	1,273.6	1,266.3	1,244.4	1,236.0	
Michigan	1,019.6	1,024.2	1,019.0	1,027.8	1,032.8	
Wisconsin <u>1/</u>	433.9	436.1	433.1	419.1	420.2	
West North Central:						
Minnesota	199.3	200.3	199.9	* 199.0	200.1	
Iowa	150.8	151.8	149.8	148.8	146.9	
Missouri	364.5	367.6	366.8	355.3	357.9	
North Dakota	6.6	6.7	6.8	6.4	6.6	
South Dakota	11.2	11.3	11.5	11.4	11.5	
Nebraska	43.8	46.3	45.9	44.1	44.5	
Kansas	80.5	81.9	79.9	* 78.9	79.6	
South Atlantic:						
Delaware	44.9	44.9	45.2	45.3	45.2	
Maryland	226.9	229.6	231.1	237.9	241.3	
District of Columbia	17.3	17.5	17.4	16.9	17.3	
Virginia	213.3	215.3	217.4	211.4	213.3	
West Virginia	132.4	132.5	133.0	131.9	131.9	
North Carolina	382.2	380.3	378.2	* 373.9	371.5	
South Carolina	198.3	198.9	197.6	188.5	188.0	
Georgia	259.4	257.4	256.7	257.9	260.2	
Florida	87.2	86.0	82.7	90.6	90.4	
East South Central:						
Kentucky	129.5	130.4	130.7	129.1	129.1	
Tennessee	252.1	252.4	253.0	250.0	247.7	
Alabama	233.6	232.0	230.0	224.7	222.9	
Mississippi	95.5	95.7	95.5	92.7	91.5	
West South Central:						
Arkansas	75.7	76.0	76.3	67.4	70.0	
Louisiana	140.2	142.2	141.2	132.7	133.4	
Oklahoma	56.4	57.0	56.5	54.6	55.2	
Texas	342.9	346.8	347.6	324.8	330.0	

Table 5. - Estimated Number of Wage and Salary Workers in Manufacturing Industries by State* - Continued 7.
(In thousands)

Region and State	1948		1947		1946	
	Jan.	Dec.	Nov..	Jan.	Dec.	
Mountain:						
Montana	17.7	18.5	18.7	16.6	17.9	
Idaho	18.5	19.2	20.1	17.9	20.1	
Wyoming	6.1	7.0	7.2	5.8	6.7	
Colorado	57.2	61.0	60.3	56.0	56.2	
New Mexico	9.9	10.2	10.3	10.0	10.2	
Arizona	12.9	12.9	13.0	13.3	13.9	
Utah	25.1	26.8	27.3	23.0	24.5	
Nevada	3.6	3.6	3.7	3.6	3.5	
Pacific:						
Washington	173.0	174.6	178.2	162.3	166.0	
Oregon	109.2	111.4	112.2	116.1	118.0	
California	704.3	714.8	717.4	697.1	705.9	

Table 5a. - Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States*
(In thousands)

State	1948		1947		1946	
	Jan.	Dec.	Nov.	Jan.	Dec.	
Illinois	3,172	3,225	3,180	3,078	3,124	
Indiana	1,185	1,223	1,209	1,160	1,183	
Maryland	682	699	689	660	677	
Massachusetts	3/	1,768	1,738	1,696	1,753	
Minnesota	773	794	789	748	770	
Montana	134	138	136	130	134	
New Jersey	1,561	1,604	1,580	1,562	1,596	
New York	5,397	5,559	5,488	5,363	*5,526	
Pennsylvania	3,567	3,663	3,620	3,496	3,572	
Rhode Island	289	299	295	288	294	
Texas	1,671	1,708	1,690	1,603	1,655	
Utah	171	177	175	164	171	
Washington	648	665	664	630	648	
Wisconsin	971	996	982	937	963	

See explanatory notes, Sections H and I.

* Revised data in last two columns are identified by an asterisk for the first month of publication of such data.

1/ New series of estimates based on 1945 Standard Industrial Classification; not strictly comparable with employment figures previously published.

2/ Comparable data not available.

3/ Not available.

8. Table 6. - Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1948			1947	
	Feb.	Jan.	Dec.	Feb.	Jan.
ALL MANUFACTURING	12,748	12,847	12,959	12,593	12,511
Durable goods	6,520	6,618	6,639	6,502	6,429
Nondurable goods	6,228	6,229	6,320	6,091	6,082
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	1,594	1,600	1,599	1,562	1,552
Blast furnaces, steel works, and rolling mills	508.9	509.2	506.5	484.7	480.4
Gray-iron and semisteel castings	114.5	114.4	113.8	116.4	115.0
Malleable-iron castings	37.8	37.9	37.6	34.0	33.5
Steel castings	68.7	67.7	67.0	66.5	67.3
Cast-iron pipe and fittings	27.8	28.4	28.7	26.8	26.4
Tin cans and other tinware	45.7	47.4	47.8	41.4	41.7
Wire drawn from purchased rods	30.9	31.4	31.6	30.4	30.5
Wirework	42.5	43.5	42.4	39.8	41.9
Cutlery and edge tools	24.6	24.7	25.0	27.9	27.9
Tools (except edge tools, machine tools, files, and saws)	25.7	25.9	25.9	26.8	26.7
Hardware	54.0	53.2	52.6	50.7	50.0
Plumbers' supplies	40.0	40.0	40.0	41.1	40.2
Stoves, oil burners, and heating equipment not elsewhere classified	86.5	88.5	90.9	84.9	83.8
Steam and hot-water heating apparatus and steam fittings	63.2	62.6	62.5	70.2	70.2
Stamped and enameled ware and galvanizing	115.1	115.5	117.1	114.3	113.4
Fabricated structural and ornamental metalwork	59.9	60.3	60.7	58.0	57.6
Metal doors, sash, frames, molding, and trim	10.2	10.8	10.9	10.1	10.2
Bolts, nuts, washers, and rivets	28.7	28.7	28.6	29.0	28.8
Forgings, iron and steel	37.6	37.5	37.4	36.5	35.9
Wrought pipe, welded and heavy-riveted	19.1	19.8	19.6	18.5	18.1
Screw-machine products and wood screws	36.6	36.1	35.8	39.5	39.3
Steel barrels, kegs, and drums	8.1	8.4	8.2	8.1	8.3
Firearms	20.4	20.0	19.7	19.1	18.7
ELECTRICAL MACHINERY <u>1/</u>	573	577	585	601	598
Electrical equipment	376.5	378.4	382.2	380.5	377.1
Radios and phonographs	99.2	100.3	104.8	110.6	110.7
Communication equipment	97.2	98.2	98.2	110.2	110.3

See explanatory notes, sections A, C, and G.

Table 6. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1948			1947	
	Feb.	Jan.	Dec.	Feb.	Jan.
MACHINERY, EXCEPT ELECTRICAL	1,220	1,216	1,210	1,181	1,173
Machinery and machine-shop products	378.7	377.3	376.8	385.1	381.9
Engines and turbines	43.7	43.9	43.9	45.5	45.4
Tractors	60.7	60.3	59.3	55.0	54.8
Agricultural machinery, excluding tractors	56.2	54.7	53.7	46.8	46.1
Machine tools	49.4	49.4	50.5	59.0	59.8
Machine-tool accessories	42.3	42.5	42.5	50.1	51.3
Textile machinery	40.0	40.0	39.9	37.1	36.4
Pumps and pumping equipment	55.0	55.1	55.0	59.4	58.8
Typewriters	24.6	25.3	25.4	23.0	22.7
Cash registers, adding, and calculating machines	45.1	44.5	44.4	38.7	37.6
Washing machines, wringers, and driers, domestic	16.2	15.9	16.0	13.3	12.7
Sewing machines, domestic and industrial	13.3	13.2	13.1	11.1	10.9
Refrigerators and refrigeration equipment	80.1	81.1	80.2	67.1	68.2
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	455	462	454	472	474
Locomotives	26.5	26.3	26.3	26.9	26.6
Cars, electric- and steam-railroad	54.0	55.9	56.9	53.5	51.2
Aircraft and parts, excluding aircraft engines	135.0	134.4	133.2	141.9	143.9
Aircraft engines	24.9	25.3	25.9	28.6	29.5
Shipbuilding and boatbuilding	127.8	132.9	125.7	140.7	142.4
Motorcycles, bicycles, and parts	14.6	14.5	14.7	12.5	12.2
AUTOMOBILES	734	815	817	791	755
NONFERROUS METALS AND THEIR PRODUCTS 1/	402	402	406	432	428
Smelting and refining, primary, of nonferrous metals	40.2	39.9	40.0	41.1	40.2
Alloying; and rolling and drawing of nonferrous metals, except aluminum	53.1	53.6	53.4	63.8	63.1
Clocks and watches	28.2	28.1	28.6	28.6	28.3
Jewelry (precious metals) and jewelers' findings	27.5	27.3	27.7	27.2	27.3
Silverware and plated ware	27.1	26.8	27.1	24.0	23.8
Lighting equipment	33.8	33.5	34.1	38.4	37.6
Aluminum manufactures	45.0	45.3	44.8	50.9	51.2
Sheet-metal work, not elsewhere classified	37.1	37.5	39.4	39.5	39.3

See explanatory notes, sections A, C, and G.

Table 6. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1948			1947	
	Feb.	Jan.	Dec.	Feb.	Jan.
LUMBER AND TIMBER BASIC PRODUCTS <u>1/</u>	661	665	678	598	592
Sawmills and logging camps	526.7	531.3	544.4	477.0	471.1
Planing and plywood mills	134.5	134.6	133.6	121.1	120.7
FURNITURE AND FINISHED LUMBER PRODUCTS <u>1/</u>	459	459	457	441	432
Mattresses and bedsprings	36.2	36.3	36.0	31.4	31.2
Furniture	249.4	248.6	246.8	235.1	230.1
Wooden boxes, other than cigar	35.2	35.5	34.8	35.2	35.1
Caskets and other morticians' goods	19.4	19.7	19.8	19.9	19.9
Wood preserving	15.6	16.5	16.9	17.6	17.3
Wood, turned and shaped	32.9	32.2	32.8	34.4	32.7
STONE, CLAY, AND GLASS PRODUCTS <u>1/</u>	422	422	433	424	425
Glass and glassware	115.0	117.2	119.7	119.7	122.7
Glass products made from purchased glass	12.4	12.5	12.7	13.4	13.2
Cement	36.6	36.3	36.7	35.0	35.0
Brick, tile, and terra cotta	73.7	76.3	76.3	70.5	70.4
Pottery and related products	56.4	56.0	57.6	56.2	55.3
Gypsum	6.6	6.6	6.6	6.1	6.1
Wallboard, plaster (except gypsum), and mineral wool	12.5	12.6	12.7	11.1	11.1
Lime	9.2	9.2	9.3	9.0	8.9
Marble, granite, slate, and other products	17.9	18.0	18.3	17.4	16.9
Abrasives	16.8	11.5	16.8	20.1	20.3
Asbestos products	21.9	21.9	21.7	21.4	21.6
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES <u>1/</u>	1,271	1,258	1,256	1,247	1,242
Cotton manufactures, except smallwares	525.3	523.6	523.2	520.2	518.3
Cotton smallwares	14.9	14.6	14.3	15.9	16.1
Silk and rayon goods	110.8	107.4	108.2	106.8	107.1
Woolen and worsted manufactures, except dyeing and finishing	179.5	177.4	177.3	179.4	180.2
Hosiery	140.2	139.1	138.4	138.0	136.8
Knitted cloth	11.7	11.6	11.5	12.0	12.0
Knitted outerwear and knitted gloves	31.4	30.6	31.3	34.6	34.9
Knitted underwear	49.8	49.1	48.8	42.8	42.0
Dyeing and finishing textiles, including woolen and worsted	88.9	87.9	87.5	86.2	85.7
Carpets and rugs, wool	36.2	35.7	35.4	30.5	29.9
Hats, fur-felt	13.7	13.7	13.8	13.9	13.9
Jute goods, except felts	4.2	4.0	3.1	4.3	4.2
Cordage and twine	17.2	16.8	16.5	16.8	16.8

See explanatory notes, sections A, C, and G.

Table 6. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1948			1947	
	Feb.	Jan.	Dec.	Feb.	Jan.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>1/</u>	1,223	1,203	1,199	1,119	1,090
Men's clothing, not elsewhere classified	311.3	308.1	310.5	287.8	284.6
Shirts, collars, and nightwear	81.4	81.6	82.4	73.7	71.4
Underwear and neckwear, men's	18.7	18.1	18.4	18.5	18.3
Work shirts	16.8	15.8	15.5	16.8	16.3
Women's clothing, not elsewhere classified	485.6	476.2	470.5	439.4	421.8
Corsets and allied garments	20.0	19.6	19.6	17.0	16.8
Millinery	27.9	26.4	23.5	26.0	24.2
Handkerchiefs	5.0	4.9	5.1	4.8	4.7
Curtains, draperies, and bedspreads	33.8	31.6	32.2	24.8	25.7
Housefurnishings, other than curtains, etc.	29.1	29.7	30.6	28.8	29.1
Textile bags	27.8	28.2	28.6	29.7	29.3
LEATHER AND LEATHER PRODUCTS <u>1/</u>	373	371	373	364	362
Leather	46.8	46.8	46.9	46.3	45.8
Boot and shoe cut stock and findings	19.5	19.7	19.8	20.1	20.3
Boots and shoes	232.7	231.8	231.3	224.2	222.6
Leather gloves and mittens	12.5	12.2	13.0	12.8	13.1
Trunks and suitcases	14.0	13.2	14.2	13.7	13.9
FOOD <u>1/</u>	1,071	1,102	1,165	1,059	1,098
Slaughtering and meat packing	187.0	196.7	203.7	178.2	184.4
Butter	32.0	32.6	32.9	33.3	32.8
Condensed and evaporated milk	18.8	18.4	18.6	19.9	19.3
Ice cream	23.6	23.6	24.9	24.4	23.9
Flour	38.2	39.2	39.4	38.7	38.9
Feeds, prepared	27.4	29.3	29.1	27.5	27.8
Cereal preparations	12.4	12.1	12.1	12.5	13.0
Baking	216.9	215.4	220.8	208.5	212.3
Sugar refining, cane	20.2	18.4	20.0	16.3	18.0
Sugar, beet	5.7	10.3	20.9	6.0	11.0
Confectionery	70.3	74.7	78.7	62.5	64.0
Beverages, nonalcoholic	32.1	33.4	33.3	26.8	26.9
Malt liquors	66.9	68.0	69.7	62.7	62.8
Canning and preserving	121.6	126.6	148.9	137.9	158.4
TOBACCO MANUFACTURES	88	87	88	89	90
Cigarettes	33.5	33.6	34.2	33.4	34.1
Cigars	40.8	40.4	40.2	42.1	41.8
Tobacco (chewing and smoking) and snuff	6.9	7.0	7.3	7.2	7.5

See explanatory notes, sections A, C, and G.

Table 6. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1948			1947	
	Feb.	Jan.	Dec.	Feb.	Jan.
PAPER AND ALLIED PRODUCTS <u>1/</u>	384	387	390	387	386
Paper and pulp	199.7	199.8	199.6	193.4	192.4
Paper goods, other	57.3	57.9	59.1	57.9	57.7
Envelopes	12.0	12.4	12.4	12.0	11.9
Paper bags	18.0	18.1	18.2	19.8	20.0
Paper boxes	96.5	97.7	99.6	102.7	103.0
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	429	431	436	420	417
Newspapers and periodicals	144.1	143.6	145.6	137.3	135.3
Printing; book and job	179.7	181.7	183.4	177.9	178.0
Lithographing	31.8	32.0	32.9	32.8	32.5
Bookbinding	37.4	37.6	38.3	36.7	36.5
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	575	575	579	568	564
Paints, varnishes, and colors	51.5	50.7	50.6	49.2	48.5
Drugs, medicines, and insecticides	65.6	65.7	65.9	69.4	69.6
Perfumes and cosmetics	12.2	12.1	12.9	13.7	13.9
Soap	25.4	25.5	25.5	23.3	22.4
Rayon and allied products	63.7	63.2	63.5	61.4	61.1
Chemicals, not elsewhere classified	196.5	197.7	198.1	193.4	193.0
Explosives and safety fuses	22.1	22.0	21.9	20.7	20.3
Compressed and liquefied gases	9.8	9.9	9.9	9.3	9.1
Ammunition, small-arms	6.4	6.2	7.4	6.7	6.7
Fireworks	2.6	2.5	2.8	2.7	3.0
Cottonseed oil	19.4	21.7	24.4	19.5	20.5
Fertilizers	32.3	30.4	28.0	32.3	29.6
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	160	161	162	155	154
Petroleum refining	109.4	109.7	109.9	106.5	106.2
Coke and byproducts	30.3	30.5	30.0	28.1	27.5
Paving materials	1.8	2.0	2.7	2.3	2.3
Roofing materials	17.6	18.0	18.3	17.0	17.2

See explanatory notes, sections A, C, and G.

Table 6. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1948			1947	
	Feb.	Jan.	Dec.	Feb.	Jan.
RUBBER PRODUCTS <u>1/</u>	221	223	225	240	240
Rubber tires and inner tubes	111.6	113.5	114.8	126.6	127.7
Rubber boots and shoes	22.8	22.5	22.5	23.8	23.2
Rubber goods, other	86.5	86.8	87.7	89.5	89.6
MISCELLANEOUS INDUSTRIES <u>1/</u>	433	431	447	443	439
Instruments (professional and scientific), and fire-control equipment	27.7	27.7	28.1	28.3	28.2
Photographic apparatus <u>2/</u>	39.0	33.9	39.2	35.6	35.5
Optical instruments and ophthalmic goods	27.4	27.8	28.0	30.5	30.6
Pianos, organs, and parts	15.6	15.8	17.6	14.9	14.6
Games, toys, and dolls	36.3	33.5	38.5	30.9	29.9
Buttons	13.4	13.3	13.4	13.5	14.1
Fire extinguishers	2.5	2.6	2.7	3.2	3.0

See explanatory notes, sections A, C, and G.

1/ Estimates for the individual industries comprising the major industry group have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable series from January 1939 are available upon request. More recently adjusted data for the individual industries comprising the major industry group indicated below supersede data shown in publications dated prior to:

Major industry group	Mimeographed release	Monthly Labor Review
Electrical machinery	February 1948	March 1948
Chemicals and allied products	February 1948	March 1948
Nonferrous metals and their products	March 1948	April 1948
Iron and steel and their products	April 1948	May 1948

2/ Revisions have been made as follows in the data for earlier months:

Photographic apparatus - November 1947 to 38.8.

Table 7. - Estimated Number of Employees in
Selected Nonmanufacturing Industries ^{1/}
(In thousands)

Industry group and industry	1948			1947	
	Feb.	Jan.	Dec.	Feb.	Jan.
MINING: ^{2/}					
Coal:					
Anthracite	76.6	76.2	76.5	78.2	78.7
Bituminous coal	373	380	378	372	373
Metal:					
Iron	90.2	89.7	89.8	89.1	88.5
Copper	31.0	30.9	31.3	29.0	28.9
Lead and zinc	27.0	26.9	26.6	25.6	25.4
Gold and silver	15.7	15.7	15.6	18.5	18.4
Miscellaneous	8.7	8.6	8.5	8.3	8.2
Quarrying and nonmetallic	7.8	7.7	7.9	7.6	7.6
Crude petroleum and natural gas production ^{3/}	77.8	79.9	83.9	81.3	81.1
	127.1	126.4	126.3	123.5	124.0
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railways ^{4/}	1,312	1,318	1,331	1,324	1,332
Street railways and busses ^{5/}	249	250	249	254	254
Telephone	623	620	620	594	588
Telegraph ^{6/}	* -	36.6	36.7	38.3	39.4
Electric light and power	269	268	269	252	250
SERVICE:					
Hotels (year-round)	377	378	381	380	378
Power laundries ^{2/}	230	235	237	243	246
Cleaning and dyeing ^{2/}	86.8	88.9	91.0	91.4	92.2

See explanatory notes, section G.

^{1/} Includes all employees unless otherwise noted.

^{2/} Estimates, which include production and related workers only, have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable data from January 1939 are available upon request. The figures presented here supersede data shown in publications dated prior to:

Industry	Mimeographed release	Monthly Labor Review
Mining industries	April 1948	May 1948
Power laundries	February 1948	March 1948
Cleaning and dyeing	February 1948	March 1948

^{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 railways 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.

* Not available.

Table 8. - Indexes of Production-Worker Employment and Weekly Pay Rolls
in Manufacturing Industries
(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948		1947		1948		1947	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
ALL MANUFACTURING	155.6	156.8	158.2	153.7	344.9	349.7	356.3	310.6
Durable goods	180.6	183.3	183.9	180.1	381.1	391.6	398.7	344.6
Nondurable goods	136.0	136.0	138.0	133.0	309.5	308.7	314.8	277.4
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS 1/	160.8	161.4	161.3	157.5	331.7	336.2	338.7	287.9
Blast furnaces, steel works, and rolling mills	131.0	131.1	130.4	124.8	259.3	263.4	257.8	209.9
Gray-iron and semisteel castings	184.0	183.9	183.0	187.1	414.9	416.4	420.7	397.8
Malleable-iron castings	196.7	197.2	195.5	176.9	467.6	480.1	479.8	385.5
Steel castings	214.2	211.3	208.9	207.6	436.2	446.5	443.3	368.2
Cast-iron pipe and fittings	157.8	161.5	163.4	152.6	382.1	401.4	404.0	354.7
Tin cans and other tinware	143.8	149.1	150.3	130.4	302.4	320.0	336.7	239.4
Wire drawn from purchased rods	140.5	142.7	143.7	138.5	268.7	271.6	280.3	242.9
Wirework	139.9	143.0	139.4	131.0	309.0	320.5	321.9	255.6
Cutlery and edge tools	159.4	160.3	162.2	181.2	377.2	381.9	386.3	408.1
Tools (except edge tools, machine tools, files, and saws)	167.9	169.2	169.5	175.0	378.4	381.0	381.0	356.6
Hardware	151.6	149.4	147.5	142.3	349.9	352.5	345.9	299.4
Plumbers' supplies	152.6	152.5	152.5	156.5	320.3	321.8	331.9	288.0
Stoves, oil burners, and heating equipment not elsewhere classified	175.9	180.0	184.9	172.6	387.2	395.8	422.7	343.5
Steam and hot-water heating apparatus and steam fittings	195.7	194.0	193.7	217.3	425.1	403.7	430.9	416.2
Stamped and enameled ware and galvanizing	194.6	195.2	198.0	193.2	447.4	456.0	472.8	394.0
Fabricated structural and ornamental metalwork	168.6	169.7	171.0	163.3	339.4	344.1	360.1	294.0
Metal doors, sash, frames, molding, and trim	131.2	139.3	141.0	131.1	275.1	294.7	313.2	254.2
Bolts, nuts, washers, and rivets	188.2	188.4	187.4	190.0	406.0	393.1	406.0	360.1
Forgings, iron and steel	229.5	229.0	228.3	223.0	496.2	499.1	506.9	441.2
Wrought pipe, welded and heavy-riveted	214.6	222.5	219.7	207.3	449.7	465.8	472.7	368.3
Screw-machine products and wood screws	203.2	200.1	198.7	219.0	452.1	446.1	442.9	445.4
Steel barrels, kogs, and drums	125.0	130.3	126.4	125.0	297.9	333.7	334.0	296.7
Firearms	383.9	375.4	369.8	357.7	872.2	846.7	835.0	732.6
ELECTRICAL MACHINERY 1/	221.1	222.7	225.8	232.0	456.2	462.0	472.1	422.9
Electrical equipment	206.1	207.2	209.2	208.3	424.0	430.6	434.3	373.1
Radios and phonographs	225.6	228.0	238.2	251.3	493.1	507.3	542.9	492.2
Communication equipment	299.3	302.4	302.7	339.6	593.7	586.4	604.6	625.0

See explanatory notes, sections A, C, F, and G.

Table 8. - 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	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
MACHINERY, EXCEPT ELECTRICAL	230.8	230.0	229.0	223.5	467.6	469.6	470.2	409.6
Machinery and machine-shop products	187.2	186.5	186.3	190.3	383.6	383.6	388.7	352.0
Engines and turbines	234.2	235.4	235.4	243.8	528.6	532.3	514.6	493.1
Tractors	194.1	192.9	189.6	175.9	345.1	347.9	341.3	273.6
Agricultural machinery, excluding tractors	202.1	196.7	193.0	168.4	428.5	417.3	405.5	308.3
Machine tools	134.8	135.0	137.9	161.1	246.6	245.3	257.9	273.9
Machine-tool accessories	168.3	168.9	169.0	199.2	307.9	307.9	307.8	332.5
Textile machinery	182.4	182.5	182.2	169.5	414.7	410.4	405.4	347.3
Pumps and pumping equipment	226.8	227.4	226.8	245.1	484.6	481.4	486.8	485.3
Typewriters	151.9	156.0	156.9	142.0	350.7	359.6	363.5	282.6
Cash registers, adding, and calculating machines	228.9	226.1	225.6	196.8	479.6	483.1	482.6	388.5
Washing machines, wringers, and driers, domestic	216.8	212.5	214.5	178.4	460.7	452.0	476.2	323.5
Sewing machines, domestic and industrial	169.1	167.8	167.3	142.1	394.6	394.8	392.2	287.6
Refrigerators and refrigeration equipment	227.7	230.7	228.0	190.8	425.4	470.6	458.2	325.0
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	286.6	291.2	285.8	297.6	577.9	596.7	588.1	558.2
Locomotives	409.1	406.7	406.2	416.3	869.2	883.0	900.3	827.2
Cars, electric- and steam-railroad	220.2	228.0	231.8	218.2	479.5	500.6	522.4	440.2
Aircraft and parts, excluding aircraft engines	340.3	338.7	335.8	357.6	663.4	653.6	668.7	667.8
Aircraft engines	280.1	284.0	291.0	321.8	469.4	482.9	503.5	506.8
Shipbuilding and boatbuilding	184.5	191.9	181.5	203.3	381.6	416.7	378.9	377.9
Motorcycles, bicycles, and parts	209.4	207.6	210.1	179.4	420.6	414.5	448.2	327.6
AUTOMOBILES	182.4	202.6	203.1	196.6	344.7	398.7	419.5	337.3
NONFERROUS METALS AND THEIR PRODUCTS ^{1/}	175.3	175.3	177.2	188.5	366.2	366.1	371.2	360.0
Smelting and refining, primary, of nonferrous metals	145.4	144.5	144.6	148.9	303.7	303.1	299.9	279.7
Alloying; and rolling and drawing of nonferrous metals, except aluminum	136.9	138.2	137.5	164.5	273.2	273.4	271.9	307.9
Clocks and watches	138.9	138.6	140.8	141.1	332.0	324.8	333.3	307.0
Jewelry (precious metals) and jewelers' findings	190.4	189.3	191.6	188.4	396.2	383.4	415.6	356.9
Silverware and plated ware	223.1	221.0	223.5	198.1	525.6	520.5	535.5	426.4
Lighting equipment	165.2	163.8	166.6	187.6	335.3	339.6	343.0	346.5
Aluminum manufactures	191.2	192.2	190.1	216.2	363.8	369.8	364.7	376.1
Sheet-metal work, not elsewhere classified	198.1	200.0	209.9	210.6	431.5	438.5	459.8	410.6

See explanatory notes, sections A, C, F, and G.

Table 8. - 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	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
LUMBER AND TIMBER BASIC PRODUCTS 1/	157.3	158.3	161.3	142.3	375.1	372.7	390.2	310.7
Sawmills and logging camps	167.9	169.4	173.6	152.1	401.1	400.3	422.0	333.4
Planing and plywood mills	170.1	170.2	168.8	153.1	402.5	398.7	403.6	318.9
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	139.8	139.8	139.2	134.5	328.1	330.3	333.9	292.0
Mattresses and bedsprings	176.7	177.1	175.8	153.2	385.0	388.3	395.0	306.8
Furniture	140.2	139.8	138.7	132.1	333.6	333.4	334.3	289.1
Wooden boxes, other than cigar	124.3	125.3	122.7	124.1	292.2	304.2	312.1	281.0
Caskets and other morticians' goods	139.6	141.4	142.2	143.0	291.0	294.9	299.6	276.6
Wood preserving	124.4	131.1	134.8	140.4	292.2	330.4	347.2	347.7
Wood, turned and shaped	133.7	131.1	133.4	140.0	307.3	298.3	305.3	299.5
STONE, CLAY, AND GLASS PRODUCTS 1/	143.9	143.7	147.6	144.5	305.6	305.0	320.4	278.4
Glass and glassware	161.2	164.3	167.8	167.8	339.4	339.4	356.5	313.2
Glass products made from purchased glass	123.8	125.0	127.1	133.4	267.0	271.6	287.1	269.3
Cement	150.3	149.1	150.5	143.6	286.1	284.7	291.3	238.3
Brick, tile, and terra cotta	126.9	131.4	131.4	121.4	279.0	296.9	301.9	247.2
Pottery and related products	166.6	165.7	170.3	166.2	335.9	336.3	354.4	304.4
Gypsum	133.8	132.7	134.6	123.0	278.4	283.0	290.2	239.3
Wallboard, plaster (except gypsum), and mineral wool	154.1	155.3	156.9	136.4	375.5	375.8	386.5	308.3
Lime	97.1	97.2	98.6	95.3	243.2	248.5	256.9	217.6
Marble, granite, slate, and other products	96.5	97.5	99.0	94.2	169.5	173.5	183.3	158.3
Abrasives	216.7	148.6	217.6	260.3	444.8	308.0	462.1	450.9
Asbestos products	138.1	137.8	136.3	135.0	323.9	325.0	318.7	307.6
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	111.2	110.0	109.8	109.1	302.3	295.0	294.1	262.0
Cotton manufactures, except smallwares	125.6	125.2	125.1	124.4	377.0	378.7	376.4	322.8
Cotton smallwares	105.8	103.8	101.8	113.2	249.3	243.8	234.1	247.8
Silk and rayon goods	87.6	84.9	85.5	84.4	262.4	252.6	248.1	219.3
Woolen and worsted manufactures, except dyeing and finishing	113.9	112.5	112.4	113.8	321.1	292.0	294.4	288.1
Hosiery	83.5	82.8	82.3	82.2	190.5	188.8	193.5	172.0
Knitted cloth	101.8	100.4	99.9	103.7	242.6	236.5	231.6	225.3
Knitted outerwear and knitted gloves	105.7	102.9	105.5	116.5	249.8	234.3	241.6	258.5
Knitted underwear	122.2	120.6	120.0	105.1	311.0	306.6	306.9	242.5
Dyeing and finishing textiles, including woolen and worsted	125.8	124.4	123.8	122.1	310.0	304.1	298.1	267.1
Carpets and rugs, wool	134.0	132.2	130.9	112.6	321.8	316.8	311.6	227.3
Hats, fur-felt	89.0	89.1	89.7	90.3	202.2	195.8	202.1	195.5
Jute goods, except felts	110.3	105.1	80.6	114.0	265.7	250.1	175.4	271.1
Cordage and twine	134.7	131.6	128.8	131.1	337.6	330.6	320.0	290.0

See explanatory notes, sections A, C, F, and G.

Table 8. - 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	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>1/</u>	154.9	152.4	151.9	141.7	362.0	353.4	343.3	314.1
Men's clothing, not elsewhere classified	135.5	134.2	135.2	125.3	316.4	313.4	309.5	280.8
Shirts, collars, and nightwear	110.0	110.4	111.4	99.6	270.2	273.0	281.3	234.0
Underwear and neckwear, men's	110.3	106.6	108.8	108.8	300.0	292.0	304.0	274.1
Work shirts	119.0	112.0	109.8	118.7	284.6	247.5	248.2	283.9
Women's clothing, not elsewhere classified	169.7	166.4	164.4	153.5	388.0	374.8	355.9	344.8
Corsets and allied garments	106.4	104.7	104.4	90.5	239.3	236.2	230.5	191.2
Millinery	109.2	103.4	92.0	101.9	238.5	204.4	157.4	201.9
Handkerchiefs	97.9	95.7	101.1	95.2	243.4	222.5	251.2	221.4
Curtains, draperies, and bedspreads	190.5	178.0	181.3	139.5	431.4	414.9	424.7	298.7
Housefurnishings, other than curtains, etc.	260.2	265.9	274.3	258.0	569.2	591.6	653.1	518.2
Textile bags	220.2	223.7	226.8	235.4	461.7	481.1	492.9	467.8
LEATHER AND LEATHER PRODUCTS <u>1/</u>	107.6	106.9	107.4	104.9	243.4	240.7	241.8	223.0
Leather	93.6	93.5	93.8	92.6	201.6	200.3	203.0	185.8
Boot and shoe cut stock and findings	97.8	98.8	99.4	100.8	198.6	201.4	202.6	189.1
Boots and shoes	100.8	100.4	100.2	97.1	235.1	233.8	231.9	214.2
Leather gloves and mittens	125.4	121.9	130.1	128.3	252.6	245.3	262.4	230.2
Trunks and suitcases	168.5	158.5	170.1	164.7	367.2	319.8	369.3	327.6
FOOD <u>1/</u>	125.4	129.0	136.4	123.9	267.2	273.9	298.9	242.5
Slaughtering and meat packing	138.5	145.7	150.8	131.9	263.3	304.2	338.9	254.0
Butter	158.8	162.0	163.6	165.4	332.7	330.3	342.2	314.7
Condensed and evaporated milk	172.5	169.3	170.6	182.6	388.1	369.8	364.0	369.0
Ice cream	133.8	133.7	141.4	138.4	250.9	248.0	258.5	243.0
Flour	137.5	141.3	141.9	139.5	298.3	305.9	319.4	293.5
Feeds, prepared	158.7	169.4	168.4	159.5	314.7	379.0	381.4	317.0
Cereal preparations	147.8	145.0	144.3	150.0	322.2	307.8	306.3	288.6
Baking	113.9	113.1	116.0	109.5	240.7	221.5	229.2	201.7
Sugar refining, cane	127.2	116.2	126.2	102.6	232.3	216.9	248.9	177.8
Sugar, beet	49.4	88.9	179.7	52.0	111.7	169.5	392.8	100.0
Confectionery	126.2	134.0	141.2	112.2	271.2	289.5	326.6	229.0
Beverages, nonalcoholic	134.9	140.1	139.7	112.4	226.7	237.1	236.3	174.1
Malt liquors	165.5	168.2	172.4	154.9	289.9	289.4	307.7	249.2
Canning and preserving	80.9	84.2	99.1	91.8	214.2	213.9	250.2	207.2
TOBACCO MANUFACTURES	94.0	93.7	94.4	95.4	196.7	210.8	219.8	201.0
Cigarettes	122.1	122.6	124.5	121.9	219.2	239.6	267.9	233.6
Cigars	80.1	79.4	79.0	82.8	184.3	181.7	190.0	186.2
Tobacco (chewing and smoking) and snuff	75.7	76.3	79.4	78.4	156.5	155.7	169.8	144.0

See explanatory notes, sections A, C, F, and G.

Table 8. - 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	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
PAPER AND ALLIED PRODUCTS <u>1/</u>	144.8	145.7	146.9	145.9	322.3	321.5	327.5	288.1
Paper and pulp	144.9	145.0	144.8	140.4	328.3	325.0	327.3	279.8
Paper goods, other	151.9	153.6	156.6	153.5	326.6	328.8	335.7	297.9
Envelopes	137.5	142.0	142.6	137.7	267.3	279.9	284.1	258.6
Paper bags	162.0	163.2	163.9	177.7	357.8	368.1	370.2	353.8
Paper boxes	139.1	140.8	143.7	148.1	307.1	309.1	321.9	289.4
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	130.8	131.3	133.0	128.1	249.6	250.2	258.0	221.8
Newspapers and periodicals	121.4	121.0	122.7	115.7	224.6	218.9	230.0	191.2
Printing; book and job	140.8	142.3	143.7	139.4	278.6	283.4	285.3	248.4
Lithographing	121.2	121.7	125.3	124.9	219.0	224.0	237.1	212.6
Bookbinding	145.1	145.9	148.8	142.6	307.7	315.3	326.6	298.7
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	199.6	199.6	201.0	197.1	416.2	417.3	414.9	372.6
Paints, varnishes, and colors	182.1	179.3	178.9	173.9	338.5	332.6	329.8	295.5
Drugs, medicines, and insecticides	238.3	238.5	239.2	252.1	489.2	490.7	488.5	464.2
Perfumes and cosmetics	117.3	115.9	123.6	131.3	232.9	231.7	240.5	239.4
Soap	166.3	167.0	167.4	153.1	376.4	379.3	381.3	286.8
Rayon and allied products	131.8	130.8	131.4	127.1	270.2	268.6	265.9	245.0
Chemicals, not elsewhere classified	281.0	282.8	283.3	276.7	559.2	561.3	555.8	500.8
Explosives and safety fuses	303.3	301.3	300.7	283.9	587.8	580.2	565.0	464.8
Compressed and liquefied gases	246.5	249.9	248.8	233.8	478.1	465.0	459.6	399.6
Ammunition, small-arms	148.7	144.1	172.7	155.3	342.0	333.7	411.9	333.8
Fireworks	221.8	213.4	243.5	231.2	610.2	591.6	633.8	624.5
Cottonseed oil	127.0	142.1	159.5	127.9	335.7	397.4	448.4	331.3
Fertilizers	171.5	161.3	148.7	171.3	439.6	433.4	393.0	414.8
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	151.3	152.4	152.9	146.0	310.2	312.8	308.2	256.8
Petroleum refining	149.5	149.9	150.1	145.4	295.0	296.8	293.4	245.8
Coke and byproducts	139.6	140.6	138.3	129.5	316.0	319.8	294.8	248.4
Paving materials <u>2/</u>	73.2	83.2	109.4	94.0	151.9	168.2	224.8	157.6
Roofing materials	217.5	222.7	226.2	210.5	500.7	508.3	535.7	432.1

See explanatory notes, sections A, C, F, and G.

Table 8. - 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	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
RUBBER PRODUCTS <u>1/</u>	182.7	184.2	186.1	198.2	358.3	376.8	396.5	385.0
Rubber tires and inner tubes	205.8	209.2	211.7	233.3	355.9	388.4	412.1	413.3
Rubber boots and shoes	153.8	151.5	151.4	160.2	345.0	342.8	367.1	328.5
Rubber goods, other	166.9	167.4	169.1	172.6	366.2	368.3	379.9	354.4
MISCELLANEOUS INDUSTRIES <u>1/</u>	177.0	176.1	182.7	180.9	383.2	377.9	394.7	360.0
Instruments (professional and scientific), and fire-control equipment	245.2	245.3	248.1	250.0	487.1	507.5	499.2	448.8
Photographic apparatus <u>2/</u>	220.9	220.4	221.8	201.3	424.2	418.1	421.1	343.0
Optical instruments and ophthalmic goods	230.0	233.6	235.4	256.1	446.3	452.3	458.5	459.7
Pianos, organs, and parts	199.7	215.2	226.3	191.4	416.6	455.5	513.4	416.1
Games, toys, and dolls	189.9	175.0	201.3	161.4	450.1	399.7	469.5	339.0
Buttons	119.0	118.7	119.1	120.3	285.4	275.7	280.8	270.8
Fire extinguishers	249.3	253.5	268.0	312.7	523.2	546.8	520.4	562.9

See explanatory notes, sections A, C, F, and G.

1/ Indexes for the individual industries comprising the major industry group have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable series from January 1939 are available upon request. More recently adjusted data for the individual industries comprising the major industry group indicated below supersede data shown in publications dated prior to:

Major industry group	Mimeographed release	Monthly Labor Review
Electrical machinery	February 1948	March 1948
Chemicals and allied products	February 1948	March 1948
Nonferrous metals and their products	March 1948	April 1948
Iron and steel and their products	April 1948	May 1948

2/ Revisions have been made as follows in the indexes for earlier months:

Paving materials - September and October pay roll to 297.9 and 295.9.

Photographic apparatus - November 1947 employment to 219.5; pay roll to 416.8.

Table 9. - 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	
	Feb.	Jan.	Dec.	Feb.	Feb.	Jan.	Dec.	Feb.
MINING: 1/								
Coal:								
Anthracite	91.6	91.1	91.5	93.5	232.8	242.4	239.4	208.5
Bituminous coal	100.4	102.1	101.7	100.0	300.7	329.4	324.9	275.4
Metal:								
Iron	146.8	146.5	148.0	137.1	310.3	302.7	301.1	250.2
Copper	108.2	107.5	106.6	102.6	241.7	238.0	236.5	199.9
Lead and zinc	96.2	96.2	95.8	113.9	225.1	228.1	231.6	240.0
Gold and silver	33.4	33.1	32.5	32.0	58.4	56.4	56.5	51.5
Miscellaneous	187.0	183.0	187.2	181.2	347.4	348.4	349.2	284.0
Quarrying and nonmetallic	113.7	116.7	122.6	118.8	262.0	270.0	295.3	251.6
Crude petroleum and natural gas production	111.1	110.5	110.4	107.9	219.9	215.5	203.2	180.1
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railways 2/	132.8	133.4	134.8	134.0	3/	3/	3/	3/
Street railways and busses	128.6	129.2	128.6	131.1	234.6	230.1	226.7	219.5
Telephone	196.2	195.0	195.0	186.9	316.3	315.8	313.0	269.4
Telegraph	3/	97.2	97.6	101.8	3/	209.5	207.8	201.5
Electric light and power	110.3	109.8	110.3	103.2	188.2	187.9	185.7	163.7
TRADE: 4/								
Wholesale	116.1	116.3	117.1	111.9	214.9	211.7	213.9	190.4
Retail:								
Food	113.9	114.4	117.4	111.2	221.5	219.4	221.5	197.1
General merchandise	122.9	129.4	175.5	119.5	221.4	233.0	314.0	201.4
Apparel	108.2	111.5	136.7	107.9	194.3	198.8	248.8	184.1
Furniture and housefurnishings	91.0	93.6	97.4	84.3	177.8	174.5	192.9	143.8
Automotive	105.9	106.5	109.9	98.2	196.5	193.9	204.2	172.7
Lumber and building materials	118.8	122.5	126.1	113.9	227.6	228.0	238.1	197.7
SERVICE:								
Hotels (year-round) 5/	116.8	117.2	118.1	117.7	233.2	230.4	233.2	216.6
Power laundries 1/	117.6	120.1	120.9	124.0	225.4	232.9	233.6	222.2
Cleaning and dyeing 1/	149.3	152.8	156.5	157.2	271.9	285.6	292.8	275.2

See footnotes, table 7, and explanatory notes, sections F and G.

1/ See footnote 2, table 7.

2/ Source: Interstate Commerce Commission.

3/ Not available.

4/ Includes nonsupervisory workers and working supervisors.

5/ Money payments only; additional value of board, room, uniforms, and tips, not included.

Table 10. - Estimated Number of Production Workers and Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/, 1946 and 1947

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay roll	
	1947	1946	1947	1946	1947	1946
ALL MANUFACTURING	12,620	11,630	154.1	142.0	324.3	266.4
Durable goods	6,485	5,805	179.6	160.8	362.2	289.3
Nondurable goods	6,135	5,825	133.9	127.2	287.3	244.1
<u>Durable goods</u>						
IRON AND STEEL AND THEIR PRODUCTS 2/	1,570	1,394	158.3	140.6	310.9	242.8
Blast furnaces, steel works, and rolling mills	497.4	440.7	128.0	113.5	237.7	180.7
Gray-iron and semisteel castings	114.5	104.5	184.1	168.0	402.4	335.6
Malleable-iron castings	35.1	30.5	182.8	158.6	414.5	321.3
Steel castings	66.1	63.1	206.4	196.8	402.7	340.8
Cast-iron pipe and fittings	27.4	22.9	155.9	130.4	372.3	267.8
Tin cans and other tinware	44.5	39.7	140.0	125.1	288.8	225.1
Wire drawn from purchased rods	30.4	27.6	138.5	125.4	253.4	204.0
Wirework	40.8	36.6	134.1	120.3	278.9	229.0
Cutlery and edge tools	25.3	24.9	163.9	161.8	374.1	344.7
Tools (except edge tools, machine tools, files, and saws)	25.6	24.8	167.1	162.3	352.6	315.0
Hardware	50.3	44.6	141.1	125.0	309.0	244.3
Plumbers' supplies	39.7	33.5	151.2	127.7	298.7	221.5
Stoves, oil burners, and heating equipment not elsewhere classified	86.7	71.4	176.3	145.2	370.6	269.9
Steam and hot-water heating apparatus and steam fittings	64.7	60.3	200.4	186.9	404.2	341.7
Stamped and enameled ware and galvanizing	113.7	98.7	192.3	166.9	421.8	323.3
Fabricated structural and ornamental metalwork	59.4	50.5	167.3	142.1	325.1	240.7
Metal doors, sash, frames, molding and trim	10.1	8.6	130.2	111.7	268.7	202.0
Bolts, nuts, washers, and rivets	28.5	25.3	187.1	166.1	372.3	282.1
Forgings, iron and steel	36.4	34.0	222.6	207.7	452.3	363.0
Wrought pipe, welded and heavy- riveted	18.1	16.1	203.2	181.1	394.7	307.2
Screw-machine products and wood screws	37.1	36.3	206.0	201.6	432.2	387.1
Steel barrels, kegs, and drums	8.2	7.4	127.5	114.5	311.5	237.9
Firearms	19.0	17.2	356.9	322.7	764.5	621.6
ELECTRICAL MACHINERY 2/	577	509	222.6	196.6	432.5	342.4
Electrical equipment	375.8	319.0	205.7	174.6	398.5	296.9
Radios and phonographs	103.7	92.7	235.7	210.7	497.5	404.0
Communication equipment	97.2	97.7	299.3	301.0	551.5	526.6

Table 10. - Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/,
1946 and 1947 - Continued

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay roll	
	1947	1946	1947	1946	1947	1946
MACHINERY, EXCEPT ELECTRICAL	1,185	1,044	224.3	197.6	431.4	341.7
Machinery and machine-shop products	380.2	348.2	187.9	172.1	364.2	299.4
Engines and turbines	44.0	39.2	235.9	210.3	501.3	399.2
Tractors	56.2	47.9	179.6	153.2	305.0	227.4
Agricultural machinery, excluding tractors	49.8	38.7	179.2	139.1	355.0	236.6
Machine tools	54.0	59.7	147.5	163.1	261.6	272.2
Machine-tool accessories	45.3	48.2	179.9	191.5	307.9	310.2
Textile machinery	37.7	31.3	172.3	143.1	360.8	269.2
Pumps and pumping equipment	57.3	54.3	236.4	224.2	482.2	413.9
Typewriters	22.6	18.6	139.1	115.0	295.8	221.3
Cash registers, adding, and calculating machines	40.4	33.0	205.4	167.9	414.4	303.9
Washing machines, wringers, and driers, domestic	14.5	10.9	194.3	145.4	391.6	245.7
Sewing machines, domestic and industrial	11.7	9.5	148.9	121.0	321.7	228.6
Refrigerators and refrigeration equipment	75.1	55.8	213.6	158.6	401.2	254.9
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	445	480	280.3	302.7	541.2	549.1
Locomotives	25.4	22.8	391.9	353.0	805.5	715.2
Cars, electric- and steam-railroad	54.9	45.9	223.7	187.2	466.5	345.1
Aircraft and parts, excluding aircraft engines	135.9	129.9	342.6	327.5	648.9	601.6
Aircraft engines	27.2	26.0	305.6	292.2	493.6	460.8
Shipbuilding and boatbuilding	121.6	180.5	175.7	260.7	340.1	462.1
Motorcycles, bicycles, and parts	13.3	10.2	191.4	146.0	382.4	257.5
AUTOMOBILES	788	661	195.8	164.3	356.9	262.7
NONFERROUS METALS AND THEIR PRODUCTS: 2/	409	377	178.2	164.5	350.7	299.8
Smelting and refining, primary, of nonferrous metals	40.3	34.1	145.9	123.5	291.2	219.6
Alloying; and rolling and drawing of nonferrous metals, except aluminum	57.5	55.9	148.0	144.0	278.5	258.4
Clocks and watches	27.8	26.6	137.0	130.8	305.0	267.3
Jewelry (precious metals) and jewelers' findings	26.6	24.9	183.9	172.4	354.6	323.3
Silverware and plated ware	24.9	20.3	205.2	167.2	458.1	338.2
Lighting equipment	36.4	30.7	177.9	149.8	334.8	254.4
Aluminum manufactures	45.6	45.7	193.6	194.2	349.8	325.6
Sheet-metal work, not elsewhere classified	38.7	35.9	206.2	191.4	423.6	360.1

Table 10. - Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/
1946 and 1947 - Continued

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay rolls	
	1947	1946	1947	1946	1947	1946
LUMBER AND TIMBER BASIC PRODUCTS 2/	650	549	154.6	130.6	355.4	253.9
Sawmills and logging camps	522.7	441.1	166.6	140.7	388.4	273.8
Planing and plywood mills	126.8	107.9	160.3	136.4	354.5	256.3
FURNITURE AND FINISHED LUMBER PRODUCTS 2/	437	393	133.2	119.9	298.6	237.9
Mattresses and bedsprings	32.0	26.9	156.0	131.4	323.9	244.7
Furniture	233.1	210.6	131.0	118.4	294.3	234.2
Wooden boxes, other than cigar	35.6	32.7	125.8	115.4	299.5	245.1
Caskets and other morticians' goods	19.6	17.5	140.7	125.9	278.7	224.3
Wood preserving	18.0	15.9	143.2	126.4	371.6	283.3
Wood, turned and shaped	32.1	29.7	130.6	121.1	285.7	243.1
STONE, CLAY, AND GLASS PRODUCTS 2/	425	397	144.9	135.2	296.8	243.5
Glass and glassware	120.0	119.2	168.1	167.1	335.9	288.6
Glass products made from purchased glass	12.7	11.9	126.9	119.0	262.4	220.1
Cement	35.4	31.9	145.5	131.1	266.8	215.6
Brick, tile, and terra cotta	73.4	65.8	126.5	113.3	276.5	215.1
Pottery and related products	56.1	50.9	165.7	150.4	324.2	257.3
Gypsum	6.1	5.5	124.2	110.6	254.5	203.5
Wallboard, plaster (except gypsum), and mineral wool	11.6	10.3	142.7	127.1	335.7	255.0
Lime	9.2	8.7	97.1	91.6	238.9	200.7
Marble, granite, slate, and other products	17.6	16.3	95.3	88.0	167.8	142.4
Abrasives	18.2	18.6	235.0	240.7	430.1	390.5
Asbestos products	21.0	18.5	132.4	116.8	305.0	243.6
<u>Nondurable goods</u>						
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 2/	1,214	1,187	106.1	103.8	258.4	222.3
Cotton manufactures, except smallwares	509.9	493.0	121.9	117.8	327.0	269.4
Cotton smallwares	14.4	15.5	102.2	110.4	222.3	221.4
Silk and rayon goods	104.7	102.0	82.7	80.6	219.2	182.6
Woolen and worsted manufactures, except dyeing and finishing	170.3	174.2	108.0	110.5	264.9	245.7
Hosiery	132.8	129.3	79.0	77.0	166.7	147.9
Knitted cloth	11.2	12.6	97.4	109.5	211.0	225.2
Knitted outerwear and knitted gloves	30.9	34.9	103.9	117.4	228.0	248.0
Knitted underwear	44.7	39.9	109.8	97.9	262.5	206.0
Dyeing and finishing textiles, including woolen and worsted	64.5	31.1	119.6	114.9	266.3	224.8
Carpets and rugs, wool	32.3	26.4	119.3	97.6	258.2	181.1
Hats, fur-felt	13.3	12.5	86.5	81.7	182.1	180.4
Jute goods, except felts	3.7	4.2	98.2	110.7	221.9	236.0
Cordage and twine	15.8	16.6	123.8	129.6	279.6	258.0

Table 10. - Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/
1946 and 1947 - Continued

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay rolls	
	1947	1946	1947	1946	1947	1946
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 2/	1,111	1,016	140.8	128.7	304.8	262.2
Men's clothing, not elsewhere classified	292.3	259.5	127.3	113.0	281.2	229.2
Shirts, collars, and nightwear	75.6	64.0	102.2	86.5	239.4	184.3
Underwear and neckwear, men's	17.5	17.0	103.2	100.3	265.5	236.0
Work shirts	15.6	14.9	110.5	105.5	260.1	226.1
Women's clothing, not elsewhere classified	430.6	398.9	150.4	139.4	314.6	288.2
Corsets and allied garments	17.9	15.9	95.3	84.9	202.6	165.7
Millinery	23.1	23.4	90.5	91.7	160.0	157.5
Handkerchiefs	4.8	4.2	94.8	83.2	225.2	178.2
Curtains, draperies, and bedspreads	26.3	26.4	148.0	148.8	325.7	313.5
Housefurnishings, other than curtains, etc.	29.4	28.1	262.9	251.7	562.5	494.9
Textile bags	28.2	27.1	223.8	214.6	457.6	384.6
LEATHER AND LEATHER PRODUCTS 2/	360	356	103.7	102.6	223.1	201.9
Leather	46.2	45.4	92.4	90.6	190.0	162.7
Boot and shoe cut stock and findings	19.4	20.3	97.3	101.6	186.7	183.2
Boots and shoes	222.4	217.0	96.3	94.0	213.3	192.5
Leather gloves and mittens	12.6	14.0	126.5	140.3	243.1	266.6
Trunks and suitcases	13.3	14.2	160.3	170.4	328.2	316.5
FOOD 2/	1,170	1,094	136.9	128.0	280.3	229.0
Slaughtering and meat packing	181.5	156.6	134.4	115.9	271.6	194.1
Butter	35.5	35.1	176.2	174.6	352.7	309.8
Condensed and evaporated milk	21.1	20.2	193.7	185.7	409.3	342.9
Ice cream	28.4	25.7	161.2	146.1	289.2	239.3
Flour	38.9	37.5	140.0	135.2	312.8	258.5
Feeds, prepared	28.7	27.8	166.0	160.7	350.0	293.7
Cereal preparations	12.9	13.3	153.9	158.5	308.1	280.7
Baking	216.0	208.4	113.4	109.5	215.2	190.2
Sugar refining, cane	19.6	16.2	123.4	102.3	248.9	164.0
Sugar, beet	12.1	10.5	104.4	90.4	213.8	164.8
Confectionery	66.7	58.3	119.7	104.6	255.4	196.0
Beverages, nonalcoholic	32.5	28.4	136.2	119.1	227.8	174.5
Malt liquors	69.6	62.8	172.1	155.3	308.0	239.1
Canning and preserving	199.5	218.8	132.7	145.6	334.4	338.0
TOBACCO MANUFACTURES	86	86	92.5	92.0	201.8	187.1
Cigarettes	33.3	33.3	121.3	121.6	241.7	219.5
Cigars	39.8	39.1	78.1	76.7	178.6	170.5
Tobacco (chewing and smoking) and snuff	7.0	7.6	76.9	82.8	155.3	143.5

Table 10. - Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/,
1946 and 1947 - Continued

Industry group and industry	Estimated pro- duction workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay rolls	
	1947	1946	1947	1946	1947	1946
PAPER AND ALLIED PRODUCTS <u>2/</u>	384	367	144.5	138.1	301.2	250.5
Paper and pulp	195.1	183.8	141.6	133.4	301.2	243.9
Paper goods, other	57.9	55.6	153.4	147.4	308.0	262.9
Envelopes	12.0	11.2	138.0	128.7	266.0	222.5
Paper bags	18.6	17.9	167.3	160.7	347.7	297.1
Paper boxes	98.9	97.1	142.6	140.0	293.1	254.5
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>2/</u>	425	396	129.7	120.7	236.9	194.8
Newspapers and periodicals	141.6	130.0	119.3	109.6	209.6	165.5
Printing; book and job	177.9	167.9	139.4	131.5	261.5	220.5
Lithographing	32.6	30.9	124.0	117.5	220.8	188.5
Bookbinding	37.6	34.0	146.0	132.1	314.7	263.5
CHEMICALS AND ALLIED PRODUCTS <u>2/</u>	563	534	195.4	185.3	385.3	323.6
Paints, varnishes, and colors	49.7	46.5	175.7	164.5	311.6	260.6
Drugs, medicines, and insecticides	67.9	65.7	246.6	238.6	470.3	395.3
Perfumes and cosmetics	12.8	15.5	123.2	148.9	230.4	243.3
Soap	24.2	21.1	158.7	138.6	323.1	231.5
Rayon and allied products	61.0	60.5	126.2	125.2	248.2	211.0
Chemicals, not elsewhere classified	195.9	177.5	280.1	253.9	523.2	431.4
Explosives and safety fuses	21.1	21.7	288.8	298.0	514.4	470.1
Compressed and liquefied gases	9.6	8.5	242.3	213.3	429.7	351.3
Ammunition, small-arms	6.7	7.5	157.4	173.9	350.1	335.2
Fireworks	2.7	3.0	234.2	254.8	639.3	649.1
Cottonseed oil	17.9	16.0	117.0	104.6	310.0	240.5
Fertilizers	28.2	28.1	149.9	149.4	388.0	349.9
PRODUCTS OF PETROLEUM AND COAL <u>2/</u>	159	152	150.4	143.7	283.8	243.7
Petroleum refining	109.0	106.2	148.8	145.0	271.0	240.1
Coke and byproducts	28.8	26.2	132.8	120.6	271.1	214.0
Paving materials	2.8	2.6	115.1	105.2	226.3	203.0
Roofing materials	17.8	15.9	219.3	196.8	480.3	370.9

Table 10. - Estimated Number of Production Workers and Indexes of
Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries 1/,
1946 and 1947 - Continued

Industry group and industry	Estimated production workers (thousands)		Indexes (1939 = 100)			
			Employment		Pay rolls	
	1947	1946	1947	1946	1947	1946
RUBBER PRODUCTS <u>2/</u>	225	223	186.3	184.1	374.4	333.2
Rubber tires and inner tubes	119.0	120.3	219.5	221.9	403.1	362.9
Rubber boots and shoes	22.0	20.7	148.5	139.5	320.7	269.4
Rubber goods, other	84.3	81.6	162.5	157.3	342.6	303.4
MISCELLANEOUS INDUSTRIES <u>2/</u>	438	416	178.8	170.1	365.8	318.7
Instruments (professional and scientific), and fire-control equipment	27.9	29.2	247.1	258.1	463.1	442.1
Photographic apparatus	37.4	33.2	211.5	188.0	385.5	308.1
Optical instruments and ophthalmic goods	28.8	28.9	241.9	243.3	451.4	423.5
Pianos, organs, and parts	15.8	12.0	202.2	154.2	434.8	285.9
Games, toys, and dolls	36.3	29.4	189.7	153.7	419.1	314.3
Buttons	12.5	14.0	111.1	124.7	247.5	266.4
Fire extinguishers	2.9	2.9	286.1	284.3	563.0	571.3

- 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 data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. The Bureau has not prepared estimates for certain industries, and with the exception of the industries in the major industry groups indicated by note 2, estimates for individual industries have been adjusted only to levels indicated by the 1939 Census of Manufactures but not to Federal Security Agency data. Comparable data from January 1939 are available upon request.
- 2/ Estimates and indexes for the individual industries comprising the major industry groups have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency.

Table 11. - Estimated Number of Employees and Indexes of Employment and Weekly Pay Rolls in Selected Nonmanufacturing Industries 1/, 1946 and 1947

Industry group and industry	Estimated number of employees (thousands)		Indexes (1939 = 100)			
			Employment		Pay rolls	
	1947	1946	1947	1946	1947	1946
MINING: 2/						
Coal:						
Anthracite	76.5	76.9	91.5	92.0	222.8	204.4
Bituminous coal	365	339	98.3	91.3	279.4	224.9
Metal:						
Iron	90.1	78.1	97.3	84.4	186.8	139.4
Copper	31.4	25.9	148.4	122.7	290.6	203.5
Lead and zinc	25.7	20.5	103.0	82.1	212.8	143.6
Gold and silver	17.0	16.1	104.2	99.1	228.0	191.3
Miscellaneous	8.2	7.6	31.7	29.1	51.3	41.9
Quarrying and nonmetallic	7.8	8.0	185.6	198.0	323.6	308.6
Crude petroleum and natural gas production <u>3/</u>	85.8	80.4	125.4	117.4	292.6	245.4
	127	125	110.7	109.2	196.7	173.0
TRANSPORTATION AND PUBLIC UTILITIES:						
Class I steam railways <u>4/</u>	1,352	1,359	136.9	137.6	<u>5/</u>	<u>5/</u>
Street railways and busses <u>6/</u>	252	248	130.2	128.2	221.7	200.4
Telephone	582	543	183.1	170.9	275.4	253.4
Telegraph <u>7/</u>	38.0	42.9	101.0	114.0	211.4	180.0
Electric light and power	262	243	107.2	99.4	174.7	148.2
TRADE: 8/						
Wholesale	<u>5/</u>	<u>5/</u>	112.7	108.4	198.7	176.0
Retail:	<u>5/</u>	<u>5/</u>	113.7	109.7	201.4	174.4
Food	<u>5/</u>	<u>5/</u>	113.6	105.6	208.2	172.0
General merchandise	<u>5/</u>	<u>5/</u>	128.2	127.3	224.6	195.1
Apparel	<u>5/</u>	<u>5/</u>	114.9	115.0	203.3	187.4
Furniture and housefurnishings	<u>5/</u>	<u>5/</u>	87.2	78.8	158.4	129.6
Automotive	<u>5/</u>	<u>5/</u>	102.5	92.5	184.2	155.5
Lumber and building materials	<u>5/</u>	<u>5/</u>	120.4	109.7	218.0	179.0
SERVICE:						
Hotels (year-round) <u>9/</u>	380	385	117.8	119.3	222.5	207.0
Power laundries <u>2/</u>	243	245	124.2	125.0	230.9	212.2
Cleaning and dyeing <u>2/</u>	94.6	96.1	162.6	165.2	298.3	290.1

1/ Includes all employees unless otherwise noted.

2/ Estimates and indexes, which include production and related workers only, have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable data from January 1939 are available upon request.

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 railways include those with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.

5/ Not available.

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

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

8/ Includes nonsupervisory workers and working supervisors.

9/ Money payments only; additional value of board, room, uniforms, and tips, not included.

Source: U. S. Bureau of Labor Statistics

EXPLANATORY NOTES

Sec. A. Revisions of Employment Estimates - 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 bench-mark data through 1945 and supersede data shown in mimeographed releases dated prior to April 1947 and in the Monthly Labor Review dated prior to May 1947.

Sec. B. Sources of Bench-Mark Data - The chief purpose of recent revisions published in the February 1947 DETAILED REPORT, was to adjust the levels of employment estimates to bench-mark data through 1945. 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 unemployment compensation agencies and the Bureau of Old Age and Survivors Insurance are the main bases for 1945 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. Scope of Employment Revisions - Recent revisions also include a new type of estimate for employment in construction based upon establishment reports. This estimate is more consistent with the estimating procedure used for other industry divisions. In addition, federal force-account construction employment has been transferred from the construction segment to government.

Each of the industry divisions was affected by the recent revisions. Adjustments have also been made in each of the 20 major groups comprising the manufacturing industry division. To be consistent with the estimates for these major industry groups, and more representative of the true level of employment, estimates for the individual manufacturing industries, formerly based on the 1939 Census of Manufactures, are now being revised. As these revisions are completed, they are published in this report and indicated by appropriate footnotes. Since the revised employment estimates shown in this report cover only the current months, a set of summary sheets presenting comparable figures from January 1939 to date, by month, for each industry will be provided upon request.

Sec. D. How Employment Estimates Are Made - Estimates of changes in the level of employment are based on reports from a sample group of establishments, inasmuch as full coverage is prohibitively costly and time-consuming. In using a sample, it is essential that an accurate base be established from which estimates may be carried forward. This base or "bench mark" is either a complete count or an estimate with a satisfactory degree of accuracy. When a new bench mark becomes available, estimates prepared since the last bench mark are reviewed to determine if any adjustment of level is required. This is the basic principle of employment estimating used by the BLS. It yields a satisfactory compromise between a slow but highly accurate complete count on the one hand, and a rapid but less accurate sample count on the other.

Briefly, the Bureau of Labor Statistics computes employment estimates as follows: first, a bench mark or level of employment is determined; second, a sample of establishments is selected; and third, changes in employment indicated by this reporting sample are applied to the bench mark to determine the monthly estimates of

employment between bench-mark periods. For example, if the latest complete data on employment for an industry were 40,200 in September 1945, and if the industry has a reporting sample of 13 establishments employing 23,200 workers in September and 23,800 in October, the October 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 Bureau of Labor Statistics 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. During the war period adjustment of many of the nonmanufacturing industry divisions was unavoidably postponed for several years. Consequently, the most recent revision corrects for the downward bias that had accumulated in the nonmanufacturing series since 1941. Revisions in some industry divisions have been carried back to 1939 in order to incorporate greater refinements in methodology and new source materials that have become available. For example, improved data on the small firm component of the trade and service industries, supplied by the Bureau of Old Age and Survivors Insurance, made possible refinements in these series back to 1939.

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 Bureau of Labor Statistics 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 Bureau of Labor Statistics estimates cover all full- and part-time wage and salary workers in private non-agricultural 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 shown below.

Approximate Coverage of BLS Employment
and Pay-Roll Sample

Industry division	Number of establishments	Employees or production workers	
		Number	Percent of total
Manufacturing	33,200	7,438,000	58
Mining	2,700	396,000	61
Contract construction	12,500	335,000	18
Public utilities	7,200	877,000	76
Trade:			
Wholesale	11,800	333,000	20
Retail	38,600	1,069,000	25
Service:			
Hotels (year-round)	1,200	142,000	37
Power laundries and cleaning and dyeing	1,600	71,000	20

Sec. H. Coverage of Employment Estimates - The employment estimates shown in tables 1, 2, and 5 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 6 and 8 refer to production and related workers as defined in the Glossary, page vi.

Sec. I. State Estimates - State estimates are prepared in cooperation with various State Agencies as indicated below. The estimates for manufacturing have been adjusted to recent data made available under the Federal Social Security program. Since some states have adjusted to more recent bench mark data than others, and because varying methods of computation are used, the total of the state estimates differs from the national total (see tables 1 and 2). Because of these recent revisions the state estimates for manufacturing are not consistent with the unrevised data shown prior to June 1947 for total employment in nonagricultural establishments, by state. Comparable series of manufacturing estimates for each state, January 1943 to date, and also for nonagricultural employment for selected states, through December 1946, are available upon request to the cooperating State agency or the appropriate Bureau of Labor Statistics regional office. Estimates of nonagricultural employment, by state, for those States which are now publishing such estimates are shown in table 5a. These totals are consistent with the manufacturing estimates in table 5. As estimates for additional States become available, they will be shown in table 5a.

Cooperating State Agencies

Arizona - Employment Security Commission, Phoenix.
Arkansas - Employment Security Div., Dept. of Labor, Little Rock.
California - Div. of Labor Statistics and Research, San Francisco 2.
Connecticut - Employment Security Div., Hartford 15.
Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1, Pa.
Florida - Industrial Commission, Tallahassee.
Georgia - Employment Security Administration, Atlanta 3.
Illinois - Dept. of Labor, Div. of Unemployment Compensation, Chicago 54.
Indiana - Employment Security Div., Indianapolis 12.
Iowa - Employment Security Commission, Des Moines 8.
Kansas - State Labor Dept., Topeka.
Louisiana - Louisiana State University, Bureau of Business Research, Baton Rouge 3.
Maine - Unemployment Compensation Commission, Augusta.
Maryland - Dept. of Labor and Industry, Baltimore 2.
Massachusetts - Dept. of Labor and Industries, Boston 33.
Michigan - Dept. of Labor and Industry, Lansing 13.
Minnesota - Div. of Employment and Security, St. Paul 1.
Missouri - Div. of Employment Security, Jefferson City.
Montana - Unemployment Compensation Commission of Montana, Helena.
Nevada - Employment Security Dept., Carson City.
New Jersey - Dept. of Labor, Trenton 8.
New Mexico - Research and Statistics, Employment Security Commission, Albuquerque.
New York - Dept. of Labor, Div. of Placement and Unemployment Insurance, 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);
Dept. of Labor and Industry, Harrisburg (Nonmanufacturing).
Rhode Island - Dept. of Labor, Div. of Census and Statistics, Providence 2.
Tennessee - Dept. of Employment Security, Nashville 3.
Texas - University of Texas, Bureau of Business Research, Austin 12.
Utah - Dept. of Employment Security, Salt Lake City 13.
Vermont - Unemployment Compensation Commission, Montpelier.
Virginia - Dept. of Labor and Industry, Div. of Research and Statistics, Richmond 21.
Washington - Office of Unemployment Compensation and Placement, Olympia.
Wisconsin - Industrial Commission of Wisconsin, Madison 3.

BLS Regional Offices

New England - Regional Director, U. S. Bureau of Labor Statistics, Old South Bldg.,
294 Washington St., Boston 8, 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 3, but are excluded from the government data shown in table 1. Employment shown here for the executive branch differs from data published by the U. S. Civil Service Commission in the following respects: (1) Substitute rural mail carriers are excluded; (2) seamen and trainees who are hired and paid by private steamship companies having contracts with the Maritime Commission are excluded; (3) the Panama Railroad Company is shown here under Government corporations but is included under the executive branch by the Civil Service Commission; (4) 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.

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, Federal Reserve banks, etc.) and government force-account construction. The data shown in table 1 exclude fourth-class postmasters because they presumably have other major jobs.

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

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

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

Leave payments - Payments were authorized by P. L. 704 of the 79th Congress and P. L. 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 will be paid in addition to the face value at the time the bonds are cashed. Terminal leave payments to persons discharged after September 1, 1946 are excluded from leave payments shown but are included in pay rolls.

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

Military pay rolls - Covers personnel on active duty or on terminal leave. Coast Guard pay rolls and Army pay rolls for 1943 represent actual expenditures. Other data represent estimated obligations based on an average monthly personnel count. Pay rolls for the Navy proper and Coast Guard include cash payments for clothing-allowance balances in January, April, July, and October. Starting October 1946 pay rolls include lump sum payments for terminal leave authorized by P. L. 350 of the 80th Congress.

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 of 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, wholesale and retail trade, finance, service, or government.

Pay rolls - Private pay rolls represent pay rolls of production and related workers (or nonsupervisory employees and working supervisors) 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 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 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 services. 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.