# EMPLOYMENT and PAY ROLLS

DETAILED REPORT JULY 1947

United States Department of Labor Bureau of Labor Statistics

## ESTIMATES OF MANUFACTURING EMPLOYMENT - NEW SERIES Industries in the Paper and Rubber Groups

In this detailed report the Bureau presents a new series of production-worker estimates for the individual industries comprising the paper and rubber groups. The new estimates, adjusted to 1945 bench-mark data from the Bureau of Employment Security of the Social Security Administration, correct the downward bias which has accumulated since 1939 and are, therefore, more representative of the true levels of employment.

The estimates and indexes for all industries within these two groups have been adjusted. Because of the lapse of several years without any adjustment to levels other than the 1939 Census of Manufactures, some of the changes are rather large.

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

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U. S. Department of Labor

Bureau of Labor Statistics

Employment and Occupational Outlook Branch

Employment Statistics Division

#### EMPLOYMENT AND PAY ROLLS

#### Detailed Report

#### July 1947

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

Industry division	T	1947	1946		
industry division	July	June,	May	July	June
TOTAL	42,139	42,361	41,919	40,877	40,680
Manufacturing	15,170	<b>15,3</b> 27	15,237	14,526	14,371
Mining	864	893	884	873	864
Contract construction	1,853	1,768	1,685	1,627	1,532
Transportation and public utilities	4,139	4,115	3,970	4,051	3,996
Trade	8,556	8,581	8,545	8,337	8,342
Finance	1,590	1,567	1,561	1,549	1,531
Service	4,686	4,711	4,590	4,426	4,430
Federal, State, and local government	5,281	5,399	5,447	5,488	5,614

See explanatory notes, sections A - H

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

		1947	1946		
Major industry group	July	June	May	July	June
ALL MANUFACTURING	15,170	15,327	15,237	14,526	14,371
Durable goods	7,655	7,863	7,781	7,307	7,172
Iron and steel and their					
products	1,822	1,839	1,829	1,701+	1,663
Electrical machinery	73.9	746	718	695	688
Machinery, except		· .			(-
electrical	1,437	1,528	1,532	1,385	1,362
Transportation equipment,	}		0	6-0	(0)
except automobiles	512	583	587	618	624
Automobiles	963	967	926	894	853
Nonferrous metals and their		i	1.=0	1.00	1.1.0
products	450	467	479	457	440 612
Lumber and timber basic products	721	730	715	620	012
Furniture and finished lumber	-	530	507	469	467
products	502	510	507 488	465	463
Stone, clay, and glass products	479	493	400	405	403
Nondurable goods	7,515	7,464	7,456	7,219	7,199
Textile-mill products and other					
fiber manufactures	1,271	1,293	1,310	1,281	1,296
Apparel and other finished textile					
products	1,195	1,195	1,192	1,121	1,152
Leather and leather products	390	387	385	396	399
Food	1,646	1,557	1,516	1,512	1,435
Tobacco manufactures	98	9 <b>7</b>	96	98	99
Paper and allied products	453	462	461	442	445
Printing, publishing, and allied	1				
industries	692	692	69 <b>0</b>	656	650
Chemicals and allied products	731	<b>7</b> 26	744	685	689
Products of petroleum and coal	235	231	228	221	218
Rubber products	264	271	276	264	272
Miscellaneous industries	540	553	558	543	544

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.

,		Employmen first of		Pay rolls (total for month)			
	19		July	19	1947		
	July	June	1946	July	June	July 1946	
Total (including							
areas outside U.S.)	1		•				
Total Federal	2.102.1	2,168.9	2,689.9	\$513,423	\$519,555	\$561,423	
Executive		2,127.7	2,646.7	503,917	510,332	552,335	
Defense agencies	: -	996.2	1,547.9	231,175	243,430	282,855	
Post Office Department	•	437.3	420.7	95,092	93,506	95,601	
Other agencies		694.2	678.1	177,650	173,396	173,879	
Legislative		7.2	6.7	2,462	2,425	2,169	
Judicial	1	3.1	3.1	1,329	1,149	1,041	
Government corporations	30.6	30.9	33.4	5,715	5,649	5,878	
Continental United States							
Total Federal	1,847.4	1,905.1	2,266.8	466,153	472,168	523,580	
Executive	1,814.1	1,871,9	2,231.0	457,325	463,608	515,212	
Defense agencies	717.4	769.3	1,159.1	192,129	203,594	252,237	
Post Office Departmen	t 438.1	435.8	419.3	94,766	93,185	95,298	
Other agencies	658.6	666.8	652.6	170,430	166,829	167,677	
Legislative	7.3	7.2	6.7	2,462	2,425	2,169	
Judicial	3.0	5.0	3.0	1,292	1,114	1,005	
Gavernment corporations	23.0	23.0	26.1	5,074	5,021	5,194	
Washington, D.C.	!						
Total government	230.3	237.9	259.8	63,837	63,389	68,063	
District of Columbia							
Government		18.5	17.4	3,326	4,204	3,136	
Federal	212.7	219.4	242.4	60,511	59,185	64,927	
Executive	204.8	211.6	235.1	57,839	56 <b>,5</b> 64	62,567	
Defense agencies		71.2	87.4	17,818	17,837	21,077	
Post Office Dept	i	7.3	7,5	2,276	2,179	2,289	
Other agencies	i	133.1	140.2	37,745	36,548	39,201	
¿ Legislative		7.2	6.7	2,462	2,425	2,168	
Judicial	6	.6	.6	210	196	192	

See Glossary for definitions.

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

Demonstrate and now	1947		July	Average wonthly personnel and total annual pay		
Personnel and pay	July	June	1946	1943	1939	
Personnel, total as of first of month including those on active duty and those on terminal leave Army Navy Marine Corps Coast Guard	1,592 990 491 93 18	1,631 1,021 495 94 21	3,050 1,890 977 156 27	8,944 6,733 1,744 311 156	345 192 124 19	
Men	1,571 21	1,608 23	2,991 59	8,833 111	<u>1</u> / <u>1</u> /	
Fay, total  Army Navy Marine Corps Coast Guard  Pay rolls 2/ Mustering-out pay Family allowances Leave payments Cash Bonds	203,290 113,967 16,332 6,506 261,696 12,227 23,922 42,250 3,718	\$335,261 203,764 109,117 17,072 5,308 262,504 12,265 24,529 35,963 3,697 32,266	\$618,256 332,006 244,320 33,543 8,387 459,891 115,689 42,676	\$11,173,186 8,143,833 2,408,736 392,140 228,477 10,140,852 1,032,334	\$31,523 155,482 143,258 16,877 15,926 331,523	

Sec Glossary for definitions.

 $<sup>\</sup>frac{1}{2}$  Data not available.  $\frac{2}{2}$  Includes cash payments for clothing-allowance balances to Mavy proper and Coast Guard personnel in July.

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

		1947	1946		
Region and State	June	May	April	June	May
New England	1,513	1,525	1,553	1,512	1,491
Maine	108	108	109	114	111
New Hampshire	79.3	78.7	81.1	79,3	78.9
Vermont	39.4	39 <b>.</b> 4	42.0	40.5	40.1
Massachusetts	725	734	750		738
Rhode Island	147	148	151	145	144
Connecticut	414	417	420	392	379
Middle Atlantic	4, <b>2</b> 49	4,057	4,117	3,974	3,877
New York	1,819	1,835	1,871	1,814	1,803
New Jersey	743	727	738	736	728
Pennsylvania	1,487	1,495	1,508	1,424	1,346
East North Central	4,476	4,427	4,522	4,164	4,094
Ohio	1,244	1,239	1,255	1,161	1,148
Indiana	551	550	554	512	495
Illinois	1,238	1,232	1,248	1,160	1,131
Michigan	1,013	980	1,035	94 <b>3</b>	939
Wisconsin	430	426	430	388	381
West North Central	838	829	837	<b>78</b> 2	781
Minnesota	<b>1</b> 94	<b>1</b> 93	195	<b>1</b> 83	185
Iowa	146	145	147	136	135
Missouri	355	351	356		326
North Dakota	6.9	6.8	6.5	5.8	6.1
South Dakota	11.5	11.3	11.5	10.3	10.2
Nebraska	43.1	42.5	41.9	42.0	42.4
Kansas	81.0	79.5	79.3	74.8	76.2
South Atlantic	1,504	1,513	1,530	1,484	1,462
Delaware	45.2	45.4	44.9		43.3
Maryland	224	229	228	234	224
District of Columbia	1 <b>7.</b> 2	17.1	17.2	16 <b>.1</b>	16.2
Virginia	208	209	209	197	193
West Virginia	132	131	133	128	129
North Carolina	365	366	372	362	358
South Carolina	189	189	190	180	178
Georgia	246	25 <b>0</b>	254	245	243
Florida	77.1	76 <b>.</b> 6	81.9	76.8	77.9

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

Region and State		1947	1946		
region and state	June	May	April	June	May
East South Central	684	682	693	643	635
Kentucky	124	124	130	123	121
Tennessee	245	246	249	235	232
Alabama	224	223	224	202	201
Mississippi	90.9	88.5	90.4	83.4	81.4
West South Central	603	585	588	556	551
Arkansas	71.5	71.4	72.7	65.5	66.0
Louisiana	139	137	135	133	133
Oklahoma	53.5	53.0	54.1	52.8	51.8
Texas	339	324	326	305	300
Mountain  Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	150	147	145	135	132
	17.8	17.1	16.6	15.7	15.4
	20.1	19.2	18.4	20.8	19.5
	6.3	6.1	5.9	5.7	5.3
	54.6	53.8	54.1	50.0	49.2
	9.9	10.0	9.9	10.1	9.9
	13.2	13.1	13.6	11.1	11.1
	24.7	23.6	22.7	19.0	* 18.1
	3.8	3.6	3.7	3.0	3.0
Pacific Washington Oregon California'	977	978	978	954	93 <b>0</b>
	170	168	164	171	163
	119	117	115	118	112
	688	693	699	665	655

#### \* Revised

See explanatory notes, section I.

Industry many and deductor		1947		1946			
Industry group and industry	July	June	May	July	June		
ALL MANUFACTURING	12,276	12,404	12,341	11,767	11,623		
Durable goods Nondurable goods	6,309 5,967	6,488 5,916	6,426 5,915	5,984 5,783	5,865 5 <b>,7</b> 58		
Durable Goods IRON AND STEEL AND THEIR PRODUCTS	1,547	1,562	1,555	1,445	1,403		
Blast furnaces, steel works, and rolling mills Gray-iron and semisteel castings Malleable-iron castings Steel castings Cast-iron pipe and fittings 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 Plumbers' supplies Stoves, oil burners, and heating equipment not elsewhere classified Steam and hot-water heating apparatus and steam fittings Stamped and enameled ware and galvanizing Fabricated structural and ornamental metalwork Metal doors, sash, frames, molding, and trim Bolts, nuts, washers, and rivets Forgings, iron and steel Wrought pipe, welded and heavy-riveted	1,547 499.7 83.7 25.1 47.6 20.2 43.9 30.3 39.6 21.3 23.7 48.2 28.5 61.6 45.0 81.0 58.5 9.3 20.7 26.6 12.4	497.0 85.3 26.5 48.7 20.4 42.4 30.7 39.6 23.3 25.2 49.5 29.0 62.6 47.6 82.7 58.7	491.1 85.7 25.8 49.5 20.5 41.8 26.3 39.2 25.6 24.7 50.0 63.0 48.5 83.8 59.0 9.1 21.5 26.8	469.5 80.7 23.6 50.2 18.3 43.4 28.7 36.5	453.1 78.2 23.7 50.8 16.2 41.9 28.6 34.3 25.6 51.9 46.2 73.0 50.9 7.7 17.4 25.9 11.2		
Screw-machine products and wood screws Steel barrels, kegs, and drums Firearms	26.7 6.2 14.3	27.7 6.1 14.2	28 <b>.</b> 0'	26.8	27.2 5.5 12.6		
ELECTRICAL MACHINERY	55 <b>7</b>	574	554	526	521		
Electrical equipment Radios and phonographs Communication equipment	306.5 78.3 77.8	314.7 81.8 80.9	85.7		276 <b>.</b> 9 76 <b>.</b> 8 85 <b>.</b> 7		

See explanatory notes, section A, C, and  $\ensuremath{\text{G}}_{\ensuremath{\bullet}}$ 

Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Cont'd (In thousands)

Industry group and industry		1947		1946		
Titate of a group and industry	July	June	May	July	June	
MACHINERY, EXCEPT ELECTRICAL	1,152	1,185	1,194	1,066	1,049	
Machinery and machine-shop products	373.3	381.8	<b>3</b> 83 <b>.</b> 6	351.5	347.6	
Engines and turbines	43.0	43.1	44.4	43.5	40.8	
Tractors	56.8	56.9	55.5	52.4	49.3	
Agricultural machinery, excluding						
tractors	49.0	51.4	50.2	40.8	40.6	
Machine tools	50.1	53.4	55.1	59.2	59.3	
Machine-tool accessories	42.0	44.9	46.2	47.5	47.4	
Textile machinery	36.1	38.7	38.4	31.7	32.1	
Pumps and pumping equipment	56.4	58.6	59.0	54.6	54° <b>7</b>	
Typewriters	16.2	18.1	23.8	18.2	18.4	
Cash registers, adding and						
calculating machines	37.2	37.7	40.7	33.5	33.0	
Washing machines, wringers and	)	31.1		33.7	33.13	
driers, domestic	14.5	14.8	14.5	10.3	10.7	
Sewing machines, domestic and	44.0	2.7,0	1	10.5	2011	
industrial	11.9	10.7	10.5	9.8	9.5	
Refrigerators and refrigeration	11.9		ر.ند	9.0	3.7	
equipment	76.4	78.3	74.3	59.2	5 <b>7.</b> 4	
	10.4	10.0	14.0	77.6	21 • T	
TRANSPORTATION EQUIPMENT, EXCEPT		• • •				
AUTOMOBILES	395	463	466	476	<b>47</b> 9	
T	00.5	ol. o	02.0	06.0	06.5	
Locomotives	23.7	24.3	23.8	26.2	26.5	
Cars, electric- and steam-railroad	55.1	54.9	55.2	45.5	42.8	
Aircraft and parts, excluding						
aircraft engines	129.3	133.9	138.2	128.6	125.5	
Aircraft engines	26.8	26,9	27.0	26.5	26 <b>.</b> 0	
Shipbuilding and boatbuilding	87.8	140.9	140.3	173.9	183.2	
Motorcycles, bicycles, and parts	13.0	13.3	12.3	10.4	10.3	
AUTOMOBILES	785	<b>78</b> 9	751	725	693	
		, ,				
NONFERROUS METALS AND THEIR PRODUCTS	385	401	4 <b>1</b> 2	392	378	
Smelting and refining, primary, of					• •	
nonferrous metals	40.4	40.1	39.6	35.4	29.7	
Alloying and rolling and drawing	,					
of nonferrous metals except			•			
aluminum	53.8	57.1	59.8	59•5	5 <b>7.</b> 2	
Clocks and watches	24.5	27.3	27.6	26.1	26 <b>.7</b>	
Jewelry (precious metals) and		, - 0			•	
jewelers' findings	16.0	16.5	16.7	16.7	17.1	
Silverware and plated ware	15.5	15.9	15.8	13.7	13.9	
Lighting equipment	30.5	31.1	31.7	29.1	28.1	
Aluminum manufactures	1 7	42 <b>.</b> 8	46.2	48.6	47.6	
Sheet-metal work, not elsewhere	39.7	4c.U	40.6	40.0	4/•0	
	25.0	25.4	25.4	25.9	24.8	
classified						

10.
Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry		1947		1946		
Industry group and industry	July	June	May	July	June	
LUMBER AND TIMBER BASIC PRODUCTS $\underline{1}/$	658	665	651	561	553	
Sawmills and logging camps Planing and plywood mills	531.1 127.0	534•7 128.6	523,8 126,1	454.1 107.1	447.2 106.2	
FURNITURE AND FINISHED LUMBER PRODUCTS $\underline{1}$	419	426	425	392	391	
Mattresses and bedsprings Furniture Wooden boxes, other than cigar Caskets and other morticians' goods Wood, preserving Wood, turned and shaped	28.5 223.9 35.1 18.9 18.8 30.2	29.9 227.0 36.2 19.2 18.6 30.2	29.8 225.9 36.3 19.3 18.2 30.5	27.1 211.1 32.5 17.2 16.0 28.8	26.4 209.8 32.3 17.5 15.4 29.9	
STONE, CLAY, AND GLASS PRODUCTS 1/	411	<b>42</b> 3	418	401	398	
Glass and glassware	113.1	120.3	122.1	118.2	119.3	
Glass products made from purchased glass Cement Brick, tile, and terra cotta Pottery and related products Gypsum	12.2 35.7 73.3 54.2 6.2	12.4 35.3 73.0 55.5 6.1	12.8 29.7 72.1 56.0 5.7	11.5 33.8 69.6 50.9 5.5	11.9 32.7 65.5 50.5 5.1	
Wallboard, plaster (except gypsum), and mineral wool Lime Marble, granite, slate, and other	11.4 9.2	11.2 9•3	11.0 9.4	8.8 8.8	10.5 8.7	
products Abrasives Asbestos products	16.8 17.1 19.6	16.5 18.7 21.1	16.6 19.4 20.9	16.9 18.8 19.3	16.6 18.6 19.2	
Nondurable Goods TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	1,158	1,179	1,197	1,175	1,191	
Cotton manufactures, except smallwares Cotton smallwares Silk and rayon goods Woolen and worsted manufactures,	444.7 11.8 89.1	453.3 12.4 90.8		1		
except dyeing and finishing Hosiery Knitted cloth Knitted outerwear and knitted gloves Knitted underwear	142.3 109.2 9.0 23.5 37.9	108.0	111,9 9,3 25,7	155.0 113.3 11.1 30.0 34.9	114.3 11.2 31.3	
Dyeing and finishing textiles, including woolen and worsted Carpets and rugs, wool Hats, fur-felt Jute goods, except felts Cordage and twine	61.4 28.4 10.7 3.6 13.2	28.5 11.2 3.8	28.3 11.0 3.8	63.0 23.7 10.7 3.8 14.4	24.0 11.0 3.9	

	1947	1	1946		
July	June	Мау	July	June	
1,040	1,040	1,037	983	1,013	
26.6	22.5 28.6	22.2 29.3	257.7 64.8 15.9 15.0 371.1 15.4 21.1 4.0 27.4 27.8 28.3	16.6 15.2 399.1 16.2 19.8 4.1 27.0	
349	346	345	357	360	
45.4 18.8 216.8 11.9 11.6	45.5 18.0 214.4 12.1 12.2	45.9 18.3 212.6 12.0 12.1	44.0 20.1 219.4 14.2 14.4	20.5 220.4 14.3	
1,203	1,114	1,077	1,119	1,033	
149.7 25.7 15.7 22.3 30.8 23.1 10.2 250.8 16.6 6.7 50.3 29.6 61.3 145.5	145.9 25.6 15.7 22.1 29.5 22.5 9.5 247.4 16.3 53.0 26.8 58.6 91.3	143.3 25.0 15.0 20.1 28.8 21.4 9.3 245.8 15.8 5.4 54.6 25.0	123.4 26.4 15.7 20.9 28.3 21.7 9.5 234.0 14.2 4.5 46.0 25.7 52.0 183.9	19.8 26.9 20.8 9.9 234.2 14.2	
		:		86	
32.9 37.9	33.3 38.0	32 <b>.</b> 9 37 <b>.</b> 0	33.6 37.6	33.6 39.2	
	278.2 71.4 15.3 14.0 401.8 16.8 20.5 23.6 26.6 26.8 349 45.4 18.8 216.8	July June  1,040  1,040  1,040  278.2  284.5  71.4  74.3  15.3  16.8  14.0  14.4  401.8  389.1  16.8  20.5  20.2  4.2  24.6  23.6  22.5  26.6  26.8  27.1  349  346  45.4  45.5  18.8  18.0  216.8  214.4  11.9  12.1  11.6  12.2  1,203  1,114  149.7  25.7  22.3  22.1  30.8  29.5  23.1  29.5  250.8  247.4  16.6  16.3  6.7  5.9  50.3  53.0  29.6  26.8  61.3  591.3  84  84  32.9  33.3	July         June         May           1,040         1,040         1,037           278.2         284.5         280.5           71.4         74.3         17.4           15.3         16.8         17.4           15.3         14.0         14.4         15.3           401.8         389.1         389.3           16.8         17.6         20.2         20.3           4.2         4.6         27.2         20.3           4.2         4.6         29.3         27.8           349         346         345           45.4         45.5         45.9           18.8         18.0         212.2           26.6         28.6         29.3           27.8         345         45.9           45.4         45.5         45.9           18.8         18.0         212.2           26.8         214.4         212.6           11.9         11.6         12.2           12.1         1,077         149.7         145.9         143.3           25.7         25.6         25.0         15.0           22.3         22.1         20.1         20.1	July         June         May         July           1,040         1,040         1,037         983           278.2         284.5         280.5         257.7           71.4         74.3         73.2         64.8           15.3         16.8         17.4         15.9           14.0         14.4         15.3         15.0           401.8         389.1         389.3         371.1           16.8         17.6         17.7         15.4           20.5         20.2         20.3         21.1           4.2         4.6         4.7         4.0           23.6         22.5         22.2         27.4           26.6         28.6         29.3         27.8           26.8         27.1         27.8         28.3           349         346         345         357           45.4         45.5         45.9         44.0           26.8         27.1         27.8         28.3           349         346         345         357           45.4         45.5         45.9         44.0           18.8         18.0         18.3         20.1	

12.
Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Content (In thousands)

Industry many and industry		1947	1946		
Industry group and industry	July	June	May	July	June
PAPER AND ALLIED PRODUCTS 1/	373	381	381	365	368
Paper and pulp Paper goods, other Envelopes Paper bags Paper boxes	194.2 56.5 11.5 17.8 92.6	194.7 57.9 11.9 18.2 97.0	193.2 57.9 12.0 18.7 98.2	184.6 54.6 11.0 17.5 96.0	185.9 55.7 11.3 17.6 96.9
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES 1/	422	423	422	397	393
Newspapers and periodicals Printing, book and job Lithographing Bookbinding	142.2 176.3 31.5 37.0	142.0 1 <b>7</b> 5.8 32.4 <b>3</b> 7.5	141.2 175.1 32.7 37.4	130.1 169.2 30.8 33.7	129.9 166.0 30.6 33.9
CHEMICALS AND ALLIED PRODUCTS	54 <b>7</b>	543	561	516	522
Paints, varnishes, and colors Drugs, medicines, and insecticides Perfumes and cosmetics Soap Rayon and allied products Chemicals, not elsewhere	35.9 51.3 9.0 15.4 58.0	37.0 52.3 9.3 15.6 50.0	37.4 53.3 9.3 15.2 58.5	35.6 51.4 12.6 14.0 57.0	35.3 51.4 12.1 14.1 58.4
classified Explosives and safety fuses Compressed and liquefied gases Ammunition, small-arms Fireworks Cottonseed oil Fertilizers	125.8 12.8 6.2 6.8 2.5 9.7 20.4	126.7 13.8 6.3 7.0 2.9 9.9 21.5	125.4 13.9 6.2 6.9 2.9 11.0 25.6	117.2 12.3 5.8 7.6 2.8 8.4 19.3	117.5 12.2 5.8 7.6 3.3 9.0 20.1
PRODUCTS OF PETROLEUM AND COAL	163	160	158	155	153
Petroleum refining Coke and byproducts Paving materials Roofing materials	103.0 27.1 1.9 13.1	101.4 26.7 1.8 12.7	100.4 26.3 1.9 12.5	100.1 25.6 2.1 12.0	99.1 24.7 2.1 11.8

Industry grown and industry		1947		194	.6
Industry group and industry	July	June	May	July	June
RUBBER PRODUCTS 1/	<b>21</b> 2	219	223	2114	557
Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	115.1 20.0 76.8	117.7 21.4 79.5	119.3 22.8 81.0	113.5 20.3 80.2	121.2 20.9 <b>7</b> 9.2
MISCELLANEOUS INDUSTRIES	416	427	431	417	418
Instruments (professional and scientific), and fire-control					
equipment	19.1	19.6	19.4	21.2	21.7
Photographic apparatus	26.7	26.1	25.8	25.2	24.5
Optical instruments and ophthalmic goods	19.4	20.2	20.6	21.1	21,3
Pianos, organs, and parts	10.4	10.6	10.6	9.1	9.0
Games, toys, and dolls	25 <b>.1</b>	24.3	23.8	20.8	20.9
Buttons	7.4	8.2	8.6	10.1	10.3
Fire extinguishers	2.1	2.1	2.0	2.0	2.0

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

Estimates for the individual industries comprising the major industry group have been adjusted to levels indicated by final 1945 data 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		
Lumber and timber basic products Leather and leather products	July 1947 July 1947	August 19 <sup>1</sup> 47 August 1947		
Stone, clay, and glass products Printing, publishing, and allied	August 1947	Sept. 1947		
industries	August 1947	Sept. 1947		
Paper and allied products Rubber products	Sept. 1947 Sept. 1947	Oct. 1947 Oct. 1947		

#### Table 7. - Estimated Employment in

#### Selected Nonmanufacturing Industries

#### (In thousands)

Industry group and industry 1/		1947		1946		
Industry group and industry 1/	July	June	May	July	June	
MINING: 2/						
Coal: Anthracite Bituminous coal Metal Iron Copper Lead and zinc Gold and silver Miscellaneous	65.2 303 78.6 29.8 24.3 14.6 7.7 2.3		326 78.9 29.0 23.9 16.0 7.8	20.4	332 65.6 26.8 14.7 14.7 7.1	
TRANSPORTATION AND PUBLIC UTILITIES:  Class I steam railways 3/ Street railways and busses 4/ Telephone Telegraph 5/ Electric light and power	1,383 254 614 38.2	253 605 38•5	38.7	250 565 42.3	545	
SERVICE:	267	263	258	247	244	
Hotels (year-round) Power laundries 2/ Cleaning and dyeing 2/	382 6/ <u>6</u> /	385 <u>6/</u> <u>6</u> /	382 6/ <u>6</u> /	384 6/ <u>6</u> /	387 <u>6</u> / <u>6</u> /	

See explanatory notes, section G.

- 1/ Includes all employees unless otherwise noted.
- 2/ Includes production and related workers only.
- 3/ 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.
- 4/ Includes private and municipal street railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.
- 5/ Includes all land line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.
- 6/ The change in definition from "wage earner" to "production worker" in the power laundries and cleaning and dyeing industries results in the omission of driver-salesmen. This causes a significant difference in the data. New series are being prepared.

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

	Emp		t inde:	xes	Pay-roll indexes			
Industry group and industry		1947		1946		1947		1946
	July	June	May	July	July	June	May	July
ALL MANUFACTURING	149.9	151.4	150.6	143.6	313.9	319.6	312.2	267.1
Durable goods	174.7	179.7	178.0	165.7	350.6	365.9	353.8	296.3
Nondurable goods			129.1		277.9	274.2	271.5	238.5
Durable Goods IRON AND STEEL AND THEIR PRODUCTS	156.1	157.5	156.8	145.7	304.4	316.1	306.7	247.5
Blast furnaces, steel works,								
and rolling mills	128.6	128.0	126.4	120.9	234.2	247.0	236.2	191.8
Gray-iron and semisteel castings			146.7				325.8	
Malleable-iron castings			143.2				324.7	
Steel castings			164.4				316.6	
Cast-iron pipe and fittings			124.2				309.7	
Tin cans and other tinware			131.7				250.4	
Wire drawn from purchased rods			119.6				219.3	
Wirework			129.0				255.5	
Cutlery and edge tools			165.8				370.4	
Tools (except edge tools, machine					3		5,000	3,44
tools, files, and saws)	154.5	164.6	161.6	158.6	315.0	347.7	340.0	303.6
Hardware			140.5				306.3	
Plumbers' supplies	115.5	117.8	121.8	104.8			230.1	
Stoves, oil burners, and	1111					-31		-1/0.
heating equipment not			:	:				
elsewhere classified	133.5	136:2	136.6	117.0	275.5	283.1	279.4	210.7
Steam and hot-water heating	133.7		1,50,0		-17.7		-12•	,
apparatus and steam fittings	11.8 5	157 2	159.9	157 2	205 1	201 0	312.7	270 7
Stamped and enameled ware	140.7	171.6	エノタ・タ	エント・コ	29J•4	321.0	215.1	C17•1
and galvanizing	1150	1),8 0	150.9	125 8	216 6	205 B	329.1	252 5
Fabricated structural and	エ4ノ・タ	140.9	170.9	137.0	210.0	327.0	323.1	ر•درے
ornamental metalwork	161 8	165 2	166.1	1108	217 0	205 5	315.2	250.8
Metal doors, sash, frames,	104.0	107.3	100.1	149.0	271.0	3~)•)	317.6	٥.0رے
molding, and trim	120.7	120 2	117.1	יורד.	265.2	2100	247.9	207 1
Bolts, nuts, washers, and rivets								190.5
Forgings, iron and steel			174.0				346.2	
Wrought pipe, welded and	±12•2	T10.1	174.0	107.9	221.0	329.9	340.4	212.1
heavy-riveted	1),8 1	151 5	160.3	127 0	297.7	200 5	200 7	218 6
Screw-machine products and	T40•T	エノエ・ノ	100.3	T21.0	<b>491.1</b>	300.5	302.1	210.0
wood screws	157 6	162 7	165.6	158 5	20 <b>7</b> 8	2),5 5	21.6 1	200 5
Steel barrels, kegs, and drums							346.1	
Firearms	286. 7	100.1	104.1 282.8	266.0	251.6	616 0	60h =	TO( • <
	200.7	203.3	202.0		615.2			
ELECTRICAL MACHINERY	215.0	221.5	213.8	203.2	422.3	432.6	407.1	351.0
Electrical equipment.	169.6	174-1	170.3	156.3	333.0	343.8	327.8	264.3
Radios and phonographs	180.1				389.3			
Communication equipment	242.1			265.9	436.0	<u>1</u> 45 0	370 3	150 2
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	177.0	J-7•J	¬

Table 8. - Indexes of Production-Worker Employment and Pay Rolls in Manufacturing Industries - Continued

· ·	Emp.		inde		Pa		index	
Industry group and industry		1947		1946	<u> </u>	1947		1946
	July	June	May	July	July	June	May	July
MACHINERY, EXCEPT ELECTRICAL	217.9	224.2	225.9	201.8	420.7	434.6	429.5	346.2
Machinery and machine-shop						-/	262.6	000 1
products		188.7			356.1	367.9	362.6	299.4
Engines and turbines	230.7	231.3	238.3	233.1	493.6	502.7	502.2	440.0
Tractors	181.7	181.9	177.6	167.5	315.9	310.5	302.8	240.4
Agricultural machinery,	3776 3	<b>301</b> . O	190 6	11.6 0	267 5	2771 ()	344.3	207 5
excluding tractors Machine tools				146.8 161.5	201.0	362 6	263.6	262 3
Machine-tool accessories	156.8	178 1	182 1	188.7			311.6	
Textile machinery				144.7			363.7	
Pumps and pumping equipment		242.0					490.7	
Typewriters				112.2			309.1	
Cash registers, adding and	200,2					-5500	30,10	
calculating machines	188.8	191.6	206.9	170.0	386.5	394.2	417.3	314.2
Washing machines, wringers								
and driers, domestic	193.6	198.6	193.9	137.8	391.7	404.2	392.7	234.6
Sewing machines, domestic							`	
and industrial	151.4	136.1	134.4	124.8	327.8	297.4	280.2	229.6
Refrigerators and refrigeration								
equipment	217.4	222.6	211.4	168.4	422.1	427.5	394.5	272.2
TRANSPORTATION EQUIPMENT,								
EXCEPT AUTOMOBILES	21.8.9	291.8	293.7	299.9	479.6	560.3	561.3	558.7
	!	:	:	;	}		:	
Locomotives	300.0	376.0	307.4	405.1	151.5	774•7	757.0	030.0
Cars, electric- and steam- railroad	001, 8	002.0	201 0	185.7	1,80 1	ו רכים	465.2	21.7 5
Aircraft and parts, excluding	224.0	223.9	224.9	107.1	402.1	417.7	407.2	341.7
aircraft engines	326.0	337.4	378.7	324.2	607.7	621.5	639.2	605.6
Aircraft engines				298.3			477.0	
Shipbuilding and boatbuilding				251.2			395.6	
Motorcycles, bicycles, and parts	185.8	190.5	183.6	148.6			363.1	
AUTOMOBILES	105.0	196.2	186 5	180 2			329.0	
	197.0	190.2	100.7	100.2	341.0	371.017	329.0	292.0
NONFERROUS METALS AND THEIR	-60.0	1 <i>0</i> 5 1	370 (		200	21.6:0	21.0	202 0
PRODUCTS	168.2	T/2.T	179.0	171.2	320.0	346.2	349.0	303.9
Smelting and refining, primary,					-			
of nonferrous metals	146.3	145.0	143.2	128.2	296.5	296.3	285.4	227.8
Alloying and rolling and								
drawing of nonferrous								
metals except aluminum				153.2			283.4	
Clocks and watches	120.5	134.6	135.9	128.5	260.0	299.5	296.A	251.4
Jewelry (precious metals)			0		], _		,	
and jewelers' findings				115.5			215.4	
Silverware and plated ware				112.6			287.4	
Lighting equipment				142.1			295.5	
Aluminum manufactures	100.0	TOT.0	TA0.T	206.4	299.0	321.€	348.1	340.4
Sheet-metal work, not elsewhere classified	133 3	125 5	125 5	133.1	276 2	282 🗚	278.7	21.6 7
OTCODITION	123.4	エンノ・フ	ニンノ・フ	T.CCT	1210.2	202.(1	210.1	Z4U.1

Table 8. - Indexes of Production-Worker Employment and Pay Rolls in Manufacturing Industries - Continued

	Emp.	loymen	tinde	ĸes	Pay-roll indexes			
Industry group and industry		1947		1946		1947		1946
	July	June	May	July	July	June	Мау	July
LUMBER AND TIMBER BASIC PRODUCTS 1/	156.5	158.2	154.8	133.5	358.4	374-9	351.4	252.1
Sawmills and logging camps Planing and plywood mills			167.0 159.4	144.8 135.3			384 <b>.</b> 7 350 <b>.</b> 5	
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	127.8	129.8	129.5	119.6	į		285.1	
Mattresses and bedsprings		•	145.2		-		282.0	
Furniture Wooden boxes, other than cigar 2/ Caskets and other morticians'	125.9	127.6	127.0 128.3	118.7	274.4	284.7	2 <b>7</b> 8,9 304.0	228.0
	149.4	147.9		127.2	392.7	391.2	278 <b>.0</b> 38 <b>7.</b> 6	287.3
_	123.0	•	:	:	1		274.9	
STONE, CLAY, AND GLASS PRODUCTS 1	140.2	144.0	142.6	136.6	294.6	298,2	286.9	242.2
Glass and glassware Glass products made from	158.5	168.6	171.1	165.7			333.0	
purchased glass Cement			127.6				259.4	
Brick, tile, and terra cotta			121.8 124.3				202.5	
Pottery and related products	160.2	164.1	165.6	150.5	307.5	322.4	323.8	250.0
Gypsum	126.4	<b>123.</b> 6	115.2	111.4	262.5	244.8	228.4	197.6
Wallboard, plaster (except gypsum), and mineral wool 2/	1000	127 6	135.9	108 6	225 6	207 6	315.6	215 7
Lime			99.3		230.4	237.8	232.5	201.0
Marble, granite, slate, and								
other products	90.5	88.9	89.5	91.2			158.7	
Ahrasives			250.4				440.6	
Asbestos products	123.5	132.7	131.3	121.3	299.2	314.2	299.8	253.4
Nondurable Goods								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	101.2	103.1	104.6	102.8	237.5	242.5	248.3	213.3
Cotton manufactures, except					-00 -			-1.6
smallwares	_		•	112.4			303.2	•
Cotton smallwares				103.0			212.6	
Silk and rayon goods Woolen and worsted manufactures,	74.4	75.0	76.7	<b>7</b> 5.9	191.3	194.3	200,4	166.3
except dyeing and finishing	95.L	98.3	99.2	103.9	231.1	2h0.2	240.5	228-6
Hosiery					135.3			
Knitted cloth				101,2			180.4	
Knitted outerwear and knitted								
gloves				106.8				
Knitted underwear	98.2	98.5	97.4	90.6	229.7	232,4	232,1	189.7
Dyeing and finishing textiles,	67. 6	05.5	o( =	, ol. o	7.05	0-11		0 0
including woolen and worsted Carpets and rugs, wool				94.2				
Hats, fur-felt				92.7 73.7	239.3		231.3 153.3	
Jute goods, except felts				104.9	218 1	ひ下下 .4 マ∩フ•フ	256.0	217 2
Cordage and twine				118.8				
See explanatory notes, sections A.								- <del></del> /+3

Table 8. - Indexes of Production-Worker Employment and Pay Rolls in Manufacturing Industries - Continued

Triduction amount and delication	mp.	Loymen	Pay-roll indexes					
Industry group and industry		1947		1946		1947		1946
	July	June	May	July	July	June	May	July
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 1/	131.7	131.7	131.4	124.5	278.9	274.9	272.1	240.3
Men's clothing, not elsewhere classified	121.1	123.9	122.2	112.2	260.0	273.0	270.5	215.
Shirts, collars, and nightwear				87.7	216.2	229.0	228.8	178.2
Underwear and neckwear, men's	90.2	99.2	102.4	93.8		248.3		
Work shirts Women's clothing, not elsewhere				106.2	241.4	237.5	253.6	219.0
classified	140.4	135.9	136.0	129.6	284.6	264,1	260.3	254.
Corsets and allied garments	89.4	93.5	94.2	82.2	186.3	199,2	198.0	154.
Millinery	80.4	79.3	79.3	82.9		128.4		
Handkerchiefs Curtains, draperies, and	83.1	90.3	93.1	78.0	196.6	205.9	221.7	157.6
bedspreads Housefurnishings, other than	132.8	126.9	124.7	154.3	290.1	253.9	257.4	319.6
curtains, etc.	238.5	256.2	262.0	248.9	494.1	553.4	560.8	492.3
Textile bags	212.5	214.6	220.6	224.6	437.8	422.4		
LEATHER AND LEATHER PRODUCTS 1/	1			103.0	ì	211.5		
Leather Boot and shoe cut stock and				87.9		185.2		
findings				100.9		172.9		
Boots and shoes				95.0		201.7		
Leather gloves and mittens	118.9	121.0	120.4	141.7		226 <b>.</b> 9		
Trunks and suitcases				173.0				
FOOD	140.0	130.3	120.0	131.0	290.8	201.0	272.0	437•
Slaughtering and meat packing				102.4		241.2		
Butter				146.9		293.1		
Condensed and evaporated milk Ice cream				162.1		354.7		
Flour			127.9			250.2		
				114.3		264.2		
Feeds, prepared Cereal preparations				140.6	316.5			
Baking				127.4	287.4			
Sugar refining, cane				101.4		203.9		
Sugar, beet				100.0	244.7			
Confectionery				43.6		109.2	91.9	(3.0
	TOT.1	100.5	109.9	92.5	209.3			
Beverages, nonalcoholic	139.0	120.1	11(.4		239.6			
Malt liquors				144.0	324.7			
Canning and preserving	i			136.8		163.8		
TOBACCO MANUFACTURES	1			90.7	1 :			
Cigarettes				122.5				
Cigars  The control of the control o	74.5	74.7	72.7	73.9	163.4	168.0	163.9	160.1
Tobacco (chewing and smoking) and snuff	74.9	74.1	73.2	83.1	164.6	147.7	125.7	<u>ገ</u> ዟດ∵።

Table 8. - Indexes of Production-Worker Employment and Pay Rolls in Manufacturing Industries - Continued

	Emp		t inde		Pa		index	es
Industry group and industry		1947		1946		1947		1946
	July	June	May	July	July	June	May	July
PAPER AND ALLIED PRODUCTS 1/	140.7	143.4	143.5	137.4	298.7	298.0	291.1	246,4
Paper and pulp	140.9	141.3	140.3	134.0			289.4	
Paper goods, other	149.7	153.6	153.4	144.8	296.0	301.8	<b>306.</b> 8	253.9
Envelopes			137.6		249.8	265.2	262,9	214.4
Paper bags			168.1				338.4	
Paper boxes			141.6		273.6	283,8	282.9	248.8
PRINTING, PUBLISHING, AND ALLIED								:
INDUSTRIES 1/	128.8	129.1	128.6	121.1	233.6	235.9	234,2	193.3
Newspapers and periodicals	119.8	119.7	119.0	109.6	208.9	210.0	209.3	163. <b>7</b>
Printing, book and job			137.2		259.8	258.1	255.4	220,2
Lithographing	119.8	123.3	124.6	117.1	207.4	216,6	216.1	183.1
Bookbinding			145.3		299.2	324.7	320.2	259.9
CHEMICALS AND ALLIED PRODUCTS	189.8	188.5	194.8	178.9	378.7	373•3	381.5	315.5
Paints, varnishes, and colors	127.7	131.6	132.9	126.6	229.1	2 <b>3</b> 3.9	234.1	199.5
Drugs, medicines, and	į				İ		:	
insecticides	187.2	190.9	194.4	187.5			358.7	
Perfumes and cosmetics	87.1	89.9	89.3	121.4	159.3	168.9	166.1	1.91.4
Soap	113.1	114.7	112.2	103.2	223.3	233.2	217.2	1,70.2
Rayon and allied products	120.1	103.6	121.3	118.0	238.2	205.3	239.0	197.6
Chemicals, not elsewhere	100 0	300 3	: :100 1	760 1	101.7 0	226 0	221. 0	200 0
classified			180.3				334.9	
Explosives and safety fuses			191.8				333.8	
Compressed and liquefied gases			155.4				269.5	
Ammunition, small-arms			161.7				351.7	
Fireworks Cottonseed oil			253.5				686.6	
Fertilizers			72.3				184.7	
rertilizers	100.0	<b>4</b> 4.4	136.3	102.7	200.0	301.0	365.0	240.4
PRODUCTS OF PETROLEUM AND COAL	153.7	150.8	149.3	146.7	295.6	286.2	2 <b>7</b> 5•7	251.0
Petroleum refining	141.4	139.2	137.9	137.4	265.4			
Coke and byproducts			121.4				248.0	
Paving materials	79.2	73.8	77.1	86.7	169.5			
Roofing materials			155.3		357.7			
	i -	!	,		1			

Table 8. - Indexes of Production-Worker Employment and Pay Rolls in Manufacturing Industries - Continued

	Emp.	Loymen	tinder	es.	Pay	r-roll	indexe	
Industry group and industry		1947		1946		1947		1946
	July	June	May	July	July	June	May	July
RUBBER PRODUCTS 1/	175.2	180.7	184.5	177.0	352.7	361.9	367.2	321.4
Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	134.4	143.9	220.0 153.6 156.3	136.8	289.1	317.1	399•3 331•2 325•5	261.9
MISCELLANEOUS INDUSTRIES	170.2	174.4	176.3	170.5	341.5	355.4	356.6	314.2
Instruments (professional and scientific), and fire-control equipment	170 6	177 6	175.6	101.6	210 2	225 ]	317.0	227 0
Photographic apparatus Optical instruments and			149.2				275.2	
ophthalmic goods			177.6				331.2	
Pianos, organs, and parts Games, toys, and dolls Buttons	134.5	130.4	139.1 127.5	111.3	295.9	282.9	300.2 277.6 168.6	222.1
Fire extinguishers			78.4 203.6				396.9	

Indexes for the individual industries comprising the major industry group have been adjusted to levels indicated by final 1945 data 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 Revi		
Lumber and timber basic products	July 1947	August 1947		
Leather and leather products	July 1947	August 1947		
Stone, clay, and glass. products	August 1947	September 1947		
Printing, publishing, and allied				
industries	August 1947	September 1947		
Paper and allied products	September 1947	October 1947		
Rubber products	September 1947	October 1947		

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

Wallboard, plaster (except gypsum), and mineral wool - April 1947 pay roll to
305.9.

### Table 9. - Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries

#### (1939 Average = 100)

	Emp	loymen	t inde				index	
Industry group and industry	l L	1947		1946		1947		1946
	July	June	May	July	July	June	May	July
MINING:								
Coal:	1		: :				; <b>;</b>	<u>:</u>
Anthracite	78 7	£0.3	ו וא	31.4	! 171 8	101 6	186.3	: 156 5
Bituminous coal				89.5			244.6	
Metal				78.0			172.1	
Iron				135.6			284.7	
Copper				85.6				
Lead and zinc	03.8	102.0	100.2	74.2	108.0	274.7	201.0	100 (
Gold and silver	37.0	30.5	21 1	28.5	190.0	10 5		20.
Miscellaneous				62.5				
Quarrying and nonmetallic	106.0	10.0	10): 2	101.2	779.1	061 0	シン・ウ	90.7
Crude petroleum production 1/				95.4			163.4	
	771.6	برورو	75.3	97.4	i <b>-</b> 13•У	112.3	103.4	101.0
TRANSFORTATION AND PUBLIC UTILITIES:	i i							:
Class I steam railways 2/	מענו	139.2	138 2	126 6	<u>3</u> /	2/	2/	: : <u>3</u> /
Street railways and busses		130.4			5/	3/	220 <b>.</b> 0	206.7
Telephone		190.4					202.9	
Telegraph		102.3			215 0	218 8	226.9	170 (
Electric light and power		107.5					168.2	
	109.5	101.0	107.1	. 101.4	110.4	±11.7	. 100.2	, <b>1</b> )( • 6
TRADE: <u>)</u> -/	! !	<u>;</u>	•	:		:		
Wholesale	: :111_1	110.5	106.7	107.5	166 5	: :198.0	: :191.4	17) m
Retail		:111.4			108 6	201 2	195.3	179 6
Food		113.7			213 8	212 1	206.0	171 5
General merchandise		120.6					212.3	
Apparel		114.9					200.9	
Furniture and housefurnishings		35.1					151.9	
Automotive	104.2	100.6	99.4	93.4			177.7	
Lumber and building materials	121.4	119.5	117.5	111.1	218.8	219.7	209.9	180.1
SERVICE:		<b>:</b>		:				:
Hotels (year-round) 5/	110 1	110 6	770 b	110 7	000.0	006		
Power laundries	110.3	:119.4 ;	110.4	119.1				
Cleaning and dyeing		112.2			210.3	:211.1	203.8	193.3
OPPORTUGE COLOR OF COLOR	1123.4	TC(.(	1:25.7	130.0	1227.6	241.9	231.5	231.3

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

1/ Does not include well drilling or rig building.

2/ Source: Interstate Commerce Commission.

3/ Not available.

Includes nonsupervisory workers and working supervisors only.

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

#### EXPLANATORY NOTES

- Sec. A. Revisions of Employment Estimates The employment estimates shown in this report for the industry divisions (e.g., mining, manufacturing, etc.) and industry groups (e.g., iron and steel, electrical machinery, etc.) have been adjusted to levels indicated by final 1945 benchmark data 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 Benchmark Data The chief purpose of recent revisions, published in the February 1947 DETAILED REPORT. is to adjust the levels of employment estimates to 1945 benchmark data. In preparing estimates for employment prior to 1939, the various industrial censuses taken by the Bureau of the Census were used as sources of benchmark data. Data obtained from unemployment compensation agencies and the Bureau of Old Age and Survivors Insurance are the main bases for 1945 benchmarks, although there are some important exceptions. Benchmarks for State and local government, for example, are based on data compiled by the Bureau of the Census, while data on Federal Government employment are 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 report 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 "benchmark" is either a complete count or an estimate with a satisfactory degree of accuracy. When a new benchmark becomes available, estimates prepared since the last benchmark 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 slew 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 benchmark 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 benchmark to determine the monthly estimates c

employment between benchmark 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 service and finance industries. For railroads, 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 Statistic 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 Eureau 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 Eureau of Labor Statistics estimates cover all full- and part-time wage and salary workers in non-agricultural establishments who worked or received pay during the pay period ending nearest the 15th 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 benchmarks 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 of the industry divisions are shown below.

Approximate Coverage of BLS Employment and Pay Rolls Sample

Industry Division :	Number of	Employees or production workers						
;	Establishments	:	Number	: Percent of Total				
Manufacturing	33,000	7,	,500,000	60				
Mining	2,700	·	354,000	40				
Public Utilities	7.000		832,000	75				
Wholesale Trade	11,400		326,000	20				
Retail Trade	45,000	1,	. EOO , CCO	25				
Hotels (year-round)	1,300		137,000	35				
Power laundries and			•					
cleaning and dyeing	1,700		74,000	20				

Sec. H. Coverage of Employment Estimates - The employment estimates shown in Tables 1: 2, 3, 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. Production worker estimates as shown in Tables 6 and 8 are limited to working foremen and all nonsupervisory workers except administrative, office, and sales personnel.

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 benchmark data than others and because varying methods of computation are used, the total of the state estimates differs from the national total (see Table 1). Because of these recent revisions the state estimates for manufacturing are not consistent with the unrevised data shown 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 by state, through December 1946, are available upon request to the cooperating state agency or the appropriate Eureau of Labor Statistics regional office.

#### Cooperating State Agencies

Arizona - Employment Security Commission, P. O. Box 111, Phoenix.

California - Division of Labor Statistics and Research, San Francisco 2.

Connecticut - Employment Security Division, Hartford 15.

Delaware - Federal Reserve Bank of Philadelphia, 925 Chestnut Street, Philadelphia 1.

Florida - Florida Industrial Commission, Tallahassee.

Georgia - Employment Security Administration, Atlanta 3.

Illinois - Dept. of Labor, Division of Statistics and Research, Chicago 6.

Indiana - Employment Security Division, Indianapolis 12.

Kansas - Kansas State Labor Department, Topeka.

Louisiana - Bureau of Business Research, College of Commerce, Louisiana State University, Baton Rouge 3.

Maryland - Dept. of Labor and Industry, Baltimore 2.

Massachusetts - Dept. of Labor and Industries, State House, Boston 33.

Michigan - Dept. of Labor and Industry, Lansing 13.

Minnesota - Division of Employment and Security, St. Paul 1.

Montana - Unemployment Compensation Commission of Montana, Helena.

Nevada - Employment Security Department, Carson City.

New Jersey - Dept. of Labor, Trenton 8.

New York - Dept. of Placement and Unemployment Insurance, 342 Madison Avenue, New York 17.

North Carolina - North Carolina Dept. of Labor, Raleigh.

Oklahoma - Oklahoma Employment Security Commission, American National Bldg., Oklahoma City 2.

Pennsylvania - Federal Reserve Bank of Philadelphia, 925 Chestnut Street, Philadelphia 1. (Manufacturing)

Dept. of Labor and Industry, Harrisburg. (Nonmanufacturing)
Rhode Island - Dept. of Labor, Division of Census and Statistics, Providence 2.

Texas - Bureau of Business Research, University of Texas, Austin 12.

Utah - Dept. of Employment Security, Salt Lake City 13.

Virginia - Division of Research and Statistics, State Dept. of Labor and Industry, Richmond 21.

Washington - Office of Unemployment Compensation and Placement, P.O. Box 367, 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)

Techincal 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.
- Centract 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 governments, public utilities, and private establishments, are excluded.
- <u>Defense Amencies</u> Covers the National military establishment, Maritime Commission,
  National Advisory Committee for Aeronautics, The Panama Canal, Office of
  Temporary Controls, Philippine Alien Property Administration, Philippine
  War Damage Commission, Price Decontrol Board, Office of Selective Service
  Records, War Assets Administration, Office of Defense Transportation, Office
  of Scientific Research and Development.
- 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. 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 here; (2) Seamen and trainees who are hired and paid by private steamship companies having contracts with the Maritime Commission are excluded here; (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 lst day of the next menth.
- 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, administrative, and judicial functions, as well as all government owned and operated establishments and institutions (arsenals, navy yards, hospitals, Federal Reserve District Banks, etc.) and government force-account construction.
- 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 Esimtates of production worker employment expressed as a percentage of the average employment in 1939.
- Indexes of production worker pay rolls Estimates of production worker pay rolls expressed as a percentage of the average pay roll for 1939.

- Leave payments Payments authorized by Public Law 704 of the 79th Congress to enlisted personnel who were discharged prior to September 1946 for accrued and unused leave and to present officers and enlisted personnel 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. The payment of present personnel while on terminal leave is included in the pay rolls.
- Manufacturing Covers only privately owned establishments; governmental manufacturing operations such as arsenals and navy yards are excluded.
- Military pay rolls For the Navy and Marine Corps and for the current months for the Army, pay rolls are computed on the basis of the average personnel count for the month, including enlisted persons on terminal leave beginning September 1946, and excluding the retired and the inactive reserves. Pay rolls for the Coast Guard and for earlier years for the Army represent actual expenditures,
- 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--mining, contract construction, manufacturing, transportation and public utilities, wholesale and retail trade, finance, service, or government.
- Pay rolls Represent pay rolls of production and related workers (nonsupervisory) before deductions for old-age and unemployment insurance, group insurance, with-holding 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 carned and paid regularly each pay period.
- Production workers Includes working foremen and all nonsupervisory workers

  (including lead men and trainers) engaged in fabricating, processing,
  assembling, inspection, receiving, storage, handling, packing, warehousing,
  shipping, maintenance, repair, janitorial, watchman services, product
  development, auxilliary 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.

- <u>Service</u> 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 ewned 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 ewned and operated establishments are excluded.
- 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, salesdelivery, 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.

<u>Washington</u>, 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 Eureau of the Census.