EMPLOYMENT and PAY ROLLS

DETAILED REPORT SEPT. 1947

United States Department of Labor Bureau af Labor Statistics

ESTIMATES OF MANUFACTURING EMPLOYMENT - NEW SERIES Industries in the Food and Miscellaneous Industries Groups

In this detailed report the Bureau presents a new series of production-worker estimates for the individual industries comprising the food and miscellaneous industries 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.

Food Group - The estimates and indexes for all industries in this group 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, the largest occurring in the canning and preserving industry. The series for the baking industry has been adjusted to new levels based on the Social Security Board industry definition. This differs from the former series based on the Bureau of Census definition in that it excludes many small establishments which under the Social Security Board definition are classified in retail trade.

Miscellaneous Industries Group - The estimates and indexes for all industries in this group have been adjusted. The changes in the industries, however, are relatively small.

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 for the industries in the food and miscellaneous industries groups from January 1939 to date will be provided upon request.

LS 48-1332

November 20, 1947 Soltar - 351

U. S. Department of Labor

Bureau of Labor Statistics

Employment and Occupational Outlook Branch

Employment Statistics Division

EMPLOYMENT AND PAY ROLLS

Detailed Report

September 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.

CONTENTS	PAGE
Estimated Number of Wage and Salary Workers in Nonagricultural Establishments, by Industry Division	2
Estimated Number of Wage and Salary Workers in Manufacturing Industries, by Major Industry Group	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	4
Personnel and Pay of the Military Branch of the Federal Government	5
Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State	6
Estimated Number of Production Workers in Manufacturing Industries	8
Estimated Employment in Selected Nonmanufacturing Industries	14
Indexes of Production-Worker Employment and Pay Rolls in Manufacturing Industries	15
Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries	21
Explanatory Notes	i
Glossary	v
	Estimated Number of Wage and Salary Workers in Nonagricultural Establishments, by Industry Division. Estimated Number of Wage and Salary Workers in Manufacturing Industries, by Major Industry Group. Federal Employment and Pay Rolls in All Areas and in Continental United States, and Total Government Employment and Pay Rolls in Washington, D. C. Personnel and Pay of the Military Branch of the Federal Government. Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State. Estimated Number of Production Workers in Manufacturing Industries. Estimated Employment in Selected Nonmanufacturing Industries. Indexes of Production-Worker Employment and Pay Rolls in Manufacturing Industries. Indexes of Employment and Pay Rolls in Selected Nonmanufacturing Industries.

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		1947	1946		
Tudds cr. A. d. 1.4.1910ti	Sept.	Aug.	July	Sept.	Aug.
TOTAL	43,033	42,600	42,201	41,848	41,466
Manufacturing	15,797	15,593	15,233	15,035	14,876
Mining	895	896	866	884	886
Contract construction	1,900	1,894	1,847	1,747	1,713
Transportation and public utilities	4,115	4,145	4,140	4,064	4,103
Trade	8,684	8,563	8,558	8,523	.8,402
Finance	1,583	1,602	1,590	1,534	1,554
Service	4,634	4,619	4,686	4,456	4 ,\$ 30
Federal, State, and local government	5,425	5,288	5,281	5 ,6 05	5,502

See explanatory notes, sections A - H.

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

(In thousands)

Ma day daday haran maaya		1947		1946		
Major industry group	Sept.	Aug.	July	Sept.	Aug.	
ALL MANUFACTURING	15,797	15,593	15,233	15,035	14,876	
Durable goods	7,880	7,792	7,691	7,590	7,486	
Iron and steel and their products Electrical machinery Machinery, except electrical Transportation equipment, except automobiles	1,865 741 1,531 531	1,854 731 1,518	1,826 729 1,491 517	1,776 734 1,434 590	1,751 713 1,411 607	
Automobiles	982	953	970	969	925	
Nonferrous metals and their products Lumber and timber basic products Furniture and finished lumber products Stone, clay, and glass products	462 748 524 496	457 748 517 494	452 724 503 479	477 642 482 486	471 643 482 483	
Nondurable goods	7,917	7,801	7,542	7,445	7,390	
Textile-mill products and other fiber manufactures Apparel and other finished textile products	1,306	1,287 1,282	1,273 1,196	1,310	1,296 1,170	
Leather and leather products Food Tobacco manufactures Paper and allied products	406. 1,821 100 462	401 1,791 99 461	390 1,665 97 454	397 1,564 100 450	395 1,579 99 447	
Printing, publishing, and allied industries Chemicals and allied products Products of petroleum and coal Rubber products Miscellaneous industries	702 749 233 269 560	697 730 234 268 551	693 733 235 265 541	662 704 224 281 560	660 692 223 274 555	

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)

Anna and brough	(as o	Employm f first o		(to	Pay rolls (total for month)			
Area and branch	19		Sept.		1947	Sept.		
	Sept.	August	1946	Sept.	August	19146		
Total (including areas outside United States					,			
Total Federal Executive Defense agencies Post Office Department Other agencies Legislative Judicial Government corporations Continental United States	2,020.9 1,980.1 907.0 425.5 647.6 '7.2 3.4 30.2	3.4	2,475.0 1,358.4 424.8 691.8 6.8 3.1	\$501,172 491,654 228,688 96,051 166,915 2,448 1,402 5,668		161,366 2,139 1,106		
Tetal Federal Executive Defense agencies Post Office Department Other agencies Legislative Judicial Government corporations Washington, D. C.	1,781.8 1,748.6 704.6 424.0 620.0 7.2 3.3 22.7	632.9 7.2 3.3	2,163.3 1,074.4 423.3 665.6 6.8 3.0	458,028 449;241 193,855 95,705 159,681 2,448 1,353 4,986	444,567 435,901 185,563 95,819 154,519 2,421 1,223 5,022	515,735 507,581 258,164 94,031 155,386 2,139 1,072 4,943		
Total government District of Columbia government Federal Executive Defense agencies Post Office Dept. Other agencies Legislative Judicial	221.7 17.9 203.8 196.0 64.6 7.1 124.3 7.2 .6	223.7 17.8 205.9 198.1 65.1 7.3 125.7 7.2	17.5 240.0 232.6 86.3 7.5 138.8 6.8	63,576 4,270 59,306 56,653 18,031 2,367 36,255 2,448 205	60,612 3,188 57,424 54,804 17,560 2,283 34,961 2,421 198	65,619 4,011 61,608 59,277 21,118 2,214 35,945 2,139 192		

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

(In thousands)

Pursonnel and pay		1947	September	Average monthly personnel and total annual pay		
	September	August	1946	1943	1939	
Forsonnel, total as of first of month including those on active duty and those on terminal leave Army Marine Corps Coast Guard Men Women		1,575 972 492 92 19 1,556	1,731 608 113 22	8,944 6,733 1,744 311 156 8,833	345 192 124 19 10	
Pay, total Army Navy Marine Corps Coast Guard Pay rolls Mustering-out pay Family allowances Leave payments Cash Bonds	\$333,409 196,994 114,957 16,218 5,240 250,157 9,632 23,586 50,034 6,054 43,930	335,048 193,910 117,032 17,884 6,222 250,075 10,498 24,016 50,459 4,831 45,628	297,131 170,990 27,090 5,351 370,413 90,570 37,572	8,143,833 2,408,736 392,140 228,477	\$331,523 155,482 143,238 16,877 15,926 331,523	

^{1/} Data not available.

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

Dogton and Ctata		1947	1946		
Region and State	Aug.	July	June	Aug.	July
New England Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	1,506	1,481	1,513	1,523	1,495
	114	111	108	119	116
	80.7	77.6	79.3	79.2	77.2
	40.2	39.2	39.4	41.4	40.6
	720	707	725	741	728
	143	141	147	145	142
	408	405	414	397	391
Middle Atlantic	4,099	3,994	4,074	4,121	4,033
New York *	1,871	1,802	1,842	1,911	1,855
New Jersey	736	720	745	743	733
Pennsylvania	1,492	1,472	1,487	1,467	1,445
East North Central Ohio Indiana Illinois Michigan Wisconsin	4,475	4,460	4,478	4,343	4,255
	1,238	1,232	1,244	1,205	1,172
	553	550	553	531	511
	1,238	1,229	1,238	1,186	1,166
	1,004	997	1,013	1,010	982
	442	452	430	411	424
West North Central Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	850 202 149 357 7.2 11.5 43.2 80.0	848 205 147 353 7.0 11.8 43.4 80.7	838 194 146 355 7.0 11.5 43.1 81.0	817 195 143 341 6.2 9.9 43.3 78.1	797 194 136 334 5.9 9.8 41.5
South Atlantic Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	1,520	1,491	1,506	1,527	1,493
	48.4	45.2	45.4	47.9	45.4
	228	217	224	249	238
	17.3	17.4	17.2	16.4	16.1
	211	208	208	205	200
	133	131	133	132	128
	366	365	366	361	360
	192	191	189	184	180
	247	240	246	257	252
	76.8	76.0	77.1	74.3	73.9

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

Danier and Chake		1947	1946		
Region and State	Aug.	July	June	Aug.	July
East South Central Kentucky Temmessee Alabama Mississippi	692 126 251 220	680 122 246 221	684 124 245 224	669 127 245 210	657 125 240 208
West South Central Arkansas Louisiana Oklahoma	95.3 613 74.0 143	91.4 601 71.0 141	90,9 603 71.5 139	87.1 567 67.8 128	558 65.6 132
Toxas	55.2 341	53.8 33 5	53.5 339	54.7 316	52.5 308
Mountain Montana Idaho Wyoming Colorado New Mexico Arizona Utah * Nevada	154 18.2 19.5 6.8 56.5 10.2 12.5 26.4 3.7	157 18.4 20.8 6.7 55.9 10.1 12.7 29.1 3.6	150 17.8 20.1 6.3 54.6 9.9 13.2 24.9 3.5	151 16.7 23.0 6.1 54.5 10.6 12.2 24.8 3.4	149 16.5 22.2 6.0 52.6 10.5 12.3 25.9 3.2
Pacific Washington Oregon California	1,066 185 122 759	997 176 117 704	987 179 119 689	1,043 176 126 741	998 176 121 701

See explanatory notes, section I.

^{*} Estimates for manufacturing are revised because of adjustment to more recent benchmark data made available under the Federal Security Agency program. Not comparable with data previously shown.

8.
Table 6. - Estimated Number of Production Workers in Manufacturing Industries
(In thousands)

Industry group and industry		1947	1946		
	Sopt.	Aug.	July	Sept.	Aug.
ALL MANUFACTURING	12,833	12,638	12,294	12,244	12,101
Durable goods Nondurable goods	6,481 6,352	6,398 6,240	6,307 5,98 7	6,249 5,995	6,160 5,941
Durable Goods					
IRON AND STEEL AND THEIR PRODUCTS	1,580	1,572	1,547	1,514	1,490,
Blast furnaces, steel works, and					
rolling mills	500.0	502.9	498.1	480.1	480.0
Gray-iron and semisteel castings	83.2	84.1			81.6
Malloable-iron castings	26.5	26.4	25.1		24.1
Steel: castings	49.1	48.6	47.6		50.2
Ceat-iron pipo and fittings	20.6	20.5	20.2		16.9
Tin cans and other tinware	47.7	47.1	43.9		44.4
Wire drawn from purchased reds	30.1	30.5	30.3		29.1
Wirework	40.9	39.9	39.6		39.5
Cutlery and edge tools	23.5	23.1	21.3		25.7
Tools (except edge tools, machine	-3.7	20.1		2).9	27.1
tools, filos, and saws)	24.3	24.1	23.7	26.4	25.6
Hardwaro	48.7	47.8		1 .	45.9
Plumbors' supplies	28.4	28.6			27.1
Stoves, oil burners, and heating	20.4	20.0	20.5	7 20.1	21.07
equipment not elsewhere classified	67.2	64.4	61.7	59.4	56.8
Steam and hot-water heating	1 01.2	04.4	01.7	79.4	50.0
apparatus and steam fittings), =),).E =		1,00	48.0
Stamped and enameled ware and	45.4	45.5	44.8	48.9	40.0
galvanizing	0= 0	92.0	03 1	9.5	50.0
Fabricated structural and	85.2	83.2	81.4	81.5	79.0
		(-0 -		
ornamental motalwork	59.3	59.6	58.5	56.1	55.5
Motal doors, sash, frames, molding,		• • •			
and trin	10.4	10.3	9.5		9.8
Bolts, nuts, washers, and rivets	21.0	21.1	20.7		18.7
Forgings, iron and steel	26.9	26.9	26.6	26.2	26.3
Wrought pipe, weldod and heavy-					
riveted	12.7	12.6	12.4	13.4	12.8
Scrow-machino products and wood					
screws	26.1	26.2			27.7
Stool barrels, kegs, and druns	6.1	6.2			6.4
Firearns	13.7	13.6	14.3	14.2	14.0
ELECTRICAL MACHINERY	567	559	557	563	545
Electrical equipment	200 0	205 7	206 5	300 -	000 7
Radios and phonographs	309.8	305.7			
Communication equipment	82.5	80.3			82.8
commerce atom of artimom	77.5	77.3	78.0	oi 89.0	86.4

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

(In thousands)

		1947		1946		
Industry group and industry	Sept.	Aug.	July	Sept.	Aug.	
MACHINERY, EXCEPT ELECTRICAL	1,185	1,171	1,149	1,112	1,092	
Machinery and machine-shop products	378.3	376.0	373.3		356.6	
Engines and turbines	43.2	43.3	43.0		44.9	
Tractors	56.4	55.1	56.3	52.0	52.8	
Agricultural machinery, excluding						
tractors	51.3	50.5	49.0	1 -	40.7	
Machine tools	51.7	51.9	50.1		61.3	
Machine-tool accessories	42.1	42.5	42.1		49.1	
Textile machinery	36.9	35.9	36.1		32.7	
Pumps and pumping equipment	56.1	55.7	56.4		56.9	
Typewriters	23.9	23.4	14.3	20.5	19.4	
Cash registers, adding and						
calculating machines Washing machines, wringers and	41.6	40.5	37.5	34.6	33.2	
driers, donestic						
Sewing machines, domestic and	14.3	14.7	14.5	11.9	11.5	
industrial						
Refrigerators and refrigeration	11.9	9.4	11.9	10.1	9.7	
equipment	~0.3		PC 1.	60.0	6ö.5	
odartmone	78.1	77.8	76.4	60.2	00.5	
TRANSPORTATION EQUIPMENT, EXCEPT				_		
AUTOMOBILES	409	397	395	455	468	
Locomotives	24.8	24.3	23.8	27.1	26.8	
Cars, electric- and steam-railread	55.4	54.6	55.1		46.6	
Aircraft and parts, excluding	77.4	74.0	77.1	41.9	40.0	
aircraft engines	130.6	130.7	129.3	139.5	134.2	
Aircraft engines	26.5	26.7	26.8		27.5	
Shipbuilding and boatbuilding	95.0	86.9	87.7	•	158.3	
Motorcycles, bicycles, and parts	13.9	13.6	13.0		10.6	
		:				
AUTOMOBILES	801	772	785	788	755	
NONFERROUS METALS AND THEIR PRODUCTS	395	391	386	411	406	
Smelting and refining, primary, of				ļ.	;	
nonferrous metals	39.3	39.4	40.4	37.5	36.9	
Alloying and rolling and drawing	37.3	370,1	,,,,,,	,,,,,		
of nonferrous metals except					•	
aluminum	52.5	52.8	53.8	61.7	61.1	
Clocks and watches	27.5	26.9	24.6		27.5	
Jewelry (precious metals) and						
jewelers' findings	17.1	16.6	16.1	17.9	17.4	
Silverware and plated ware	16.6	:	15.5	1 7 7		
Lighting equipment 1/	30.0	7	31.0			
Aluminum manufactures 1/	41.8		39.6	1 7	49.4	
Sheet-metal work, not elsewhere				1		
classified	25.5	25.7	25.0	26.1	26.2	
	1	-/	1	1		

10.
Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Continuous (In thousands)

Industry group and industry		1947		1946		
	Sept.	Aug.	July	Sept.	Aug.	
LUMBER AND TIMBER BASIC PRODUCTS 2/	679	679	658	583	584	
Sawmills and logging carps Planing and plywood mills	549.7 129.7	551.5 127.6	531.3 126.5	468.5 114.3	472.5 111.6	
FURNITURE AND FINISHED LUMBER PRODUCTS 2/	438	43 3	419	405	405	
Mattresses and bedsprings Furniture Wooden boxes, other than cigar Caskets and other morticians' goods Wood preserving Wood, turned and shaped	33.3 233.1 35.6 19.6 18.3 31.4	31.5 230.3 35.5 19.4 18.9 31.5	28.5 223.9 35.1 19.1 18.8 30.2	216.5 33.3 17.4 16.6	28.7 217.3 33.4 17.2 16.4 30.3	
STONE, CLAY, AND GLASS PRODUCTS 2/	427	424	411	418	415	
Glass and glasswere Glass products made from	118.6	118.2	113.1	123.0	122.3	
purchased glass Cement Brick, tile, and terra cotta Pottery and related products Gypsum Vallboard plaster (except sympum)	12.0 37.0 75.3 55.9 6.1	12.0 36.8 75.1 56.1 6.1	12.4 35.7 73.3 54.3 6.1	34.9 70.7 53.5	12.0 34.9 70.7 52.6 5.8	
Wallboard, plaster (except gypsum), and mineral wool Line Marble, granite, slate, and other	12.2 9.2	11.8 9.2	11.5 9.3	8.9	10.9 8.9	
products Abrasives Asbestos products	18.5 17.3 21.0	18.4 16.2 20.7	16.8 17.0 19.5	19.3	17.3 19.1 20.1	
Nondurable Goods						
TEXTILE-MILL PRODUCTS AND OTHER FIRER MANUFACTURES	1,191	1,172	1,158	1,204	1,189	
Cotton manufactures, except smallward Cotton smallwares Silk and rayon goods	91.8	445.7 11.8 90.3	444.7 11.8 88.9	14.3	452.3 14.1 92.6	
Woolen and worsted manufactures, except dyeing and finishing Hosiery Knitted cloth	151.6 112.8 9.5	146.5 111.2 9.4	142.3 109.2 9.0	113.8		
Knitted outerwear and knitted gloves Knitted underwear Dycing and finishing textiles,	25.2 39.5	24.0 39.1		30.4	i	
including woolen and worsted Carpets and rugs, wool Hats, fur-felt Jute goods, except felts	63.5 29.2 11.3 2.6	62.2 28.8 11.4 2.6	28.4 11.0 3.6	24.6 11.3 3.8	9.0 3.1	
Cordage and twine	13.1	13.2	13.2	15.2	14.	

Industry group and industry		1947	1.946		
Thursdry group and maustry	Sept.	Aug.	July	Sept.	Aug.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 2/	1,149	1,122	1,040	1,049	1,030
Men's clothing, not elsewhere classified Shirts, collars, and nightwear Underwear and neckwear, men's Work shirts Women's clothing, not elsewhere classified Corsets and allied garments Millinery Handkerchiefs Curtains, drapories, and bedspreads Housefurnishings, other than curtains, etc.	299.4 77.2 17.2 15.5 450.7 18.0 23.7 5.0 28.9	75.1 16.6 15.2 439.1 17.5 23.6 4,6 27.3	71.7 15.4 14.0 400.2 16.9 20.5 4.2 23.2	65.0 17.8 15.2 415.0 15.9 24.6 4.2 28.2	16.9 14.8 402.1 15.7 23.7 4.2 27.7
Textile bags	27.8	27.3			29.3 27.0
LEATHER AND LEATHER PRODUCTS 2/	364	360	349	358	356
Leather Boot and shoe cut stock and findings Boots and shoes Leather gloves and mittens Trunks and suitcases	46.7 19.3 225.1 12.8 13.4	1 9.2	18.8 216.8	20.1 21.9.3 13.9	44.3 20.7 217.3 14.0 14.8
FCOD <u>2</u> /	1,376	1,344	•	1,175	1,184
Slaughtering and meat packing Butter Condensed and evaporated milk Ice crean Flour Feeds, prepared Cereal preparations Baking Sugar refining, cane Sugar, beet Confectionery Beverages, nonalcoholic Malt liquors Canning and preserving TOBACCO MANUFACTURES	182.0 35.8 21.2 31.1 39.4 29.6 14.0 219.8 20.8 12.2 68.1 39.1 76.2 379.0 86	182.9 37.8 22.7 32.8 39.6 29.9 13.7 218.0 20.8 10.5 62.7 39.7 76.0	182.3 38.8 23.5 33.4 39.4 29.6 13.1 216.6 20.8 8.1 57.9 35.5 74.0	103.9 36.6 20.7 27.3 37.2 26.3 13.7 205.6 14.7 8.7 56.8 28.3 63.8	160.4 37.8 21.6 29.0 36.6 28.0 12.5 201.7 16.8 7.2 51.9 30.1 60.9
Cigarettes Cigare	32.6	32.9	32.9		33.6
Cigars Tobacco (chewing and smoking) and snuff	40.3 7.1	39·3 7·0	37.9 6 . 9	40.0 7.6	38 . 7

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

Industry group and industry		1947	1946		
rinus or 1 St. out and rinus or 1	Sept.	Aug.	July	Sept.	Aug.
PAPER AND ALLIED PRODUCTS 2/	381	380	373	372	369
Paper and pulp	196.8	196.5	194.2	186.8	186.7
Paper goods, other	57.4		56.4		55.5
Envelopes	12.0	11.8	11.6	11.3	11.
Paper bags	17.7				17.
Paper boxes	96.0	95.6	92.6	98.2	97.8
PRINTING, PUBLISHING, AND ALLIED					
INDUSTRIES 2	429	426	422	401	399
Newspapers and periodicals	144.4	143.0	142.2	131.7	131.
Printing, book and job	177.5		176.4	1.70.1	168.6
Lithographing	32.5	32.6	31.5	31.6	31.
Bookbinding	38.2	38.4		34.3	34.5
CHEMICALS AND ALLIED PRODUCTS	563	5 47	547	530	520
Paints, varnishes, and colors	36.5	36.2	35.9	36.0	35.9
Drugs, medicines, and insecticides	51.6	50.9	51.3	52.1	51.7
Perfumes and cosmetics	9.8		9.0		12.6
Soap	15.7		15.4		14.1
Rayon and allied products Chemicals, not elsewhere	58.8	58.0	58.0	57.4	57.3
classified	123.6	124.6	125.8	116.6	117.2
Explosives and safety fuses	13.8	13.8	12.8	12.8	12.6
Compressed and liquefied gases	6.2	6.3	6,2	5.7	5.9
Annunition, small-arms Fireworks	6.9	4.4	6.8	7.4	4.9
Cottonseed oil	2.4	2.0	2.4	3.2	2.9
Fortilizers	15.2 22.9		9.7 20.4	13.0 22.3	10.8
	22.9	24.7	20.4	22.5	20.9
PRODUCTS OF PETROLEUM AND COAL	162	163	163	157	1 56
Petroleum refining	102.0	103.0	103.0	99.8	100.1
Coke and byproducts	27.2	27.1	27.1	25.9	25.8
Paving materials	2.4	2.3	1.9	2.3	2.2
Roofing materials	13.2		13.1	12.6	12.2

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

		1947		1946		
Industry group and industry	Sept.	Aug.	July	Sept.	Aug.	
RUBBER PRODUCTS 2/	216	216	212	229	223	
Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	113,4 21.0 81.5	117.5 18.9 79.2	115.1 20.1 76.8	122.6 21.0 85.2	118.0 20.9 83.7	
MISCELLANEOUS INDUSTRIES 2/	435	425	416	433	429	
Instruments (professional and scientific), and fire-control equipment Photographic apparatus Optical instruments and ophthalmic goods Pianos, organs, and parts	27.6 38.2 27.5 15.2	27.5 38.3 27.6 14.6	27.5 38.3 27.9 14.9	28.8 35.0 29.2 13.0	29.1 34.8 29.1 12.9	
Games, toys, and dolls Buttons Fire extinguishers	41.0 11.6 2.8	38.6 11.4 2.8	36.1 10.7 2.9	32.5 14.6 2.9	31.3 14.5 2.9	

- 1/ Revisions have been made as follows in the data for earlier months:
 Lighting equipment May and June 1947 to 32.3 and 31.6.
 Aluminum manufactures June 1947 to 43.2
- 2/ 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	Mineographed release	Monthly Labor Review
Paper and allied products Rubber products Food Miscellaneous industries	September 1947 September 1947 November 1947 November 1947	October 1947 October 1947 December 1947 December 1947

Table 7. - Estimated Employment in

Selected Normanufacturing Industries

(In thousands)

7-3-4		1947	1946		
Industry group and industry 1/	Sept.	Aug.	July	Sept.	Aug.
MINING: 2/					F
Coal: Anthracito B*tuminous coal Metal Iron Coppor Lead and zinc Gold and silver Miscellancous	\$31 77.9 29.7 24.3 13.9 7.8 2.2	67.5 328 79.0 29.8 24.2 14.8 7.8	65.2 304 78.6 29.8 24.3 14.6 7.7 2.3	68.1 335 73.7 27.7 21.5 14.9 7.2 2.4	67.9 337 72.8 28.1 21.2 13.8 7.2 2.5
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railways 3/ Street railways and busses 4/ Telephone Telegraph 5/ Electric light and power	1,364 251 607 37.6 268	1,382 253 616 37.8 269	1,383 254 614 38.2 2 67	1,363 252 575 42.2 249	1,371 252 575 4 2.1 249
SERVICE:					
Hotels (year-round) Power laundries 2/ Cleaning and dyeing 2/	379 6/ <u>6</u> /	379 6/ 6/	382 6/ <u>6</u> /	385 6/ <u>6</u> /	385 6/ 6/
GOVERNMENT:					
Foderal 7/ State and local	1,7 61 3,664	1,796 3,492	1,82 8 3,453	2,179 3,426	2,230 3,272

See explanatory notes, section G.

- * Not available.
- 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 these with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.
- Includes private and municipal street railway companies and affiliated, subsidiary, or successor trolley-bus and notor-bus companies.
- 5/ Includes all land line employees except these compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.
- 6/ The change in definition from "wage carner" to "production worker" in the power laundries and cleaning and dyeing industries results in the emission of driver-salesmen. This causes a significant difference in the data. New series are being prepared.
- 7/ Continental United States only. Excludes fourth-class postmasters.

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

	Empl	cyment	inde	COB	Pay-roll indexes			
Industry group and industry		1947		11946		1947		1946
	Sept.	Aug.			Sopt.		July	
ALL MANUFACTURING	156.7	15 4.3	150.1	149.5	337.2	323.5	314.2	290.3
Durable goods Nondurable goods				173.1 130.9	372.8 302.4	357.5 290.4	350.1 279.1	323.3 258.1
Durable Goods		4 5 6 6 6 6	, , ,					
IRON AND STEEL AND THEIR PRODUCTS	159.3	158.5	156.1	152.7	325.7	314.4	304.4	273.6
Blast furnaces, steel works, and rolling mills		129.5					235.3	
Gray-iron and semisteel castings Malleable-iron castings	146.8	143.9 146.3	139.1	135.1	339.4	312.5	313.7 314.9	287.5
Steel castings Cast-iron pipe and fittings		161.5 124.0					315.1 292.3	
Tin cans and other tinwero	150.1	148.1	138.1	141.1	343.3	331.1	294.7	274.1
Wire drawn from purchased rods Wirework Cutlery and edge tools	134.5	138.6 131.4 149.5	130.4		287.2	268.8	238.1 270.8 311.1	270.9
Tools (except edge tools, machine tools, files, and saws)	15 8.9	157.5	154.5	172.2			315.0	
Hardware Plumbers' supplies		134.1 115.9					297.2 231.2	
Stoves, cil burners, and heating equipment not elsewhere classified	145 6	139.6	122 7	128.8	212 B	280 a	274.9	247.5
Steam and hot-water heating apparatus and steam fittings				161.3	Ì		295.9	
Stamped and enameled ware and galvanizing		149.8					318.6	
Fabricated structural and ornamental metalwork				157.9			317.0	
Motal doors, sash, frames, molding, and trim 1/		132.4			285.3	271.3	242.2	250.1
Bolts, nuts, washers, and rivets Forgings, iron and steel		147.7 174.9		142.9 170.1	290.8 359.3	291.3 331.3	281.5 337.8	246.2 306.1
Wrought pipe, welded and heavy-riveted Screw-machine products and	151.6	150.7	148.1	159.9	296.9	291.3	297.7	279.9
wood screws Steel barrels, kegs, and drums	, , ,	154.8 101.5		•			32 7. 8 251.6	
Firearns	274.4	271.4	286.7	284.1				573.2
ELECTRICAL MACHINERY			•	217.3	1	•	422.3	•
Electrical equipment Radios and phonographs Communication equipment	189.7	184.7	178.3	166.0 195.7	419.8	385.0	333.0 386.4	390.0
Communication equipment	C47.5	240.0	<i>2</i> 45.∪	277.0	+77.3	+30.7	437.0	204.9

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

	Empl		t inde		Pay-roll indexe			
Industry group and industry		1947		1946		1947		1946
	Sopt.	Aug.	July	Sopt.	Sept.	Aug.	July	Sept.
MACHINERY, EXCEPT ELECTRICAL	224.3	221.7	217.4	210.3	442.6	424.8	419.2	376.2
Machinery and machine-shop		- 0	- O1			-/-		
products	187.0						356.1	
Engines and turbines	231.4						493.6	
Tractors	180.5	1,6,2	190.0	100.4	310.4	301.4	311.2	274.1
Agricultural machinery,	201	.0.	3776 0	11.0 1	207 2	272	261 E	060 9
excluding tractors				148.1			361.5 239.9	
Machine tools Machine-tool accessories	141.2			201.0			282.3	
Textile machinery	168.4						349.6	
Pumps and pumping equipment				237.1	488.0			
Typewriters 1/				126.6			185.1	
Cash registers, adding and	141.0	T44.T		120.0	321.0	500.2	10).1	2.0,4
calculating machines	211 2	206. O	120.7	175.8	1136 h	400.7	374.4	331.8
Washing machines, wringers	1	20.0		-1,7.0	1.20.		J,	
and driers, deneratio	193.7	197.0	193.6	158.7	378.8	382.3	391.7	287.9
Sowing machines, domestic.	-,,				13,000			
and industrial	152.1	119.3	151.4	128.3	343.9	251.7	327.8	243.1
Refrigerators and refrigeration	1			•		•	ì	•
equipment	282.2	221.2	217.4	171.2	421.3	404.1	422.1	293.3
TRANSPORTATION EQUIPMENT,								
EXCEPT AUTOMOBILES	257.4	250.0	248.9	286.8	501.5	482.9	483.0	524.]
	1 * '	_	•	į	1	•	•	•
Locomotives	384.0	375.5	368.0	419.4	002.5	009.9	760.3	040.0
Cars, electric- and steam-	005 0	000 0	col. 0	195.4	1.65 0	h26 2	482.1	261 6
railread	225.0	222.0	224.0	195.4	405.9	+30.3	402.1	304.
Aircraft and parts, excluding aircraft engines	220 1	220 2	326 0	351.6	60h h	627 6	622.4	663
Aircraft ongines				310.5			485.1	
Shipbuilding and boatbuilding				200.8			243.1	
Motorcycles, bicycles, and parts				158.0			379.4	
	ì	;	i	•	376.8		į .	
AUTOMOBILES	199.2	192.0	197.0	190.0	316.0	345.0	340.0	330.5
NONFERROUS METALS AND THEIR PRODUCTS	179 1	170 և	168 6	179.5	որ արև	330 7	326.6	331.
	1 2 2 2	-10.7	100.0	-19.7	777.7	7,00.4	1	
Smolting and refining, primary,	11000	11.0 0	21.6 0	135.6	000 7	090 0	006 =	017
of nonferrous metals	142.2	142.0	140.5	132.0	298.7	209.2	290.7	241
Alloying and rolling and							1	•
drawing of nonferrous	125.0	126 1	128 6	160 0	254.4	21.8 1	260 1	281
netals except aluminum Clocks and watches				136.8		280.1	261 8	204,
Jevelry (precious metals)	132.1	1)2.0	121.2	130.0	1301.7	203.0	201.0	209.
and jewelers' findings	118 6	115.1	111.3	123.8	233.7	208.8	103.3	237
Silverware and plated ware					314.7			
Lighting equipment 1/					278.5			
Aluminum manufactures 1/				211.0			298.7	
Sheet-metal work, not elsewhere		_,_,_				10-4.0		1.0000
THE THE THE TWO SETS SEWE VERWORKS	1 -	:	1	:	ميمنا	1 - 0	1	
classified	136.1	137.0	133.2	139.3	284.8)! 287.5	276.2	261.

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

	Emo	Loymen	t inde:	ros	Pav-	roll	index	es S
Industry group and industry		1947		1945		.947		1946
	Sept.		July		Sept. A			
LUMBER AND TIMBER BASIC PRODUCTS 2/		;	;	138.6	385.7 3			•
Sawmills and logging camps Planing and plywood mills				149.4 144.4	425.8 4 370.3 3			
FURNITURE AND FINISHED LUMBER PRODUCTS 2/	133.5	131.9	127.8	123.5	305.0 2	293.3	281.4	254.4
Mattresses and bedsprings Furniture Wooden boxes, other than eiger Caskets and other norticians'	131.0 125.7	129.4 125.4	125.9 123.8	145.6 121.7 117.6	356.0 3 297.9 2 305.3 3	284.7 305.4	274.4 301.8	249.9 257.4
goods Wood preserving Wood, turned and shaped	145.5	150.6	149.4	131.9 122.4	394.7 L 281.2 2	0.804	392.7	312.7
STONE, CLAY, AND GLASS PRODUCTS 2/	145.5	144.6	140.2	142.5	306.83	301.7	285.9	267.0
Glass and glassware Glass products made from	Ī			172.4	340.7		•	
purchased glass Cement Brick, tile, and terra cetta Pottery and related products Gypsum Wallboard, plaster (except	152.1 129.7 165.2	151.1 129.4 165.9	146.5 126.3 160.4	119.7 143.1 121.7 158.2 119.7	251.5 2 298.3 2 295.0 2 326.5 3 258.3 2	297.0 289.1 330.4	283.5 276.4 308.6	250.3 244.3 281.2
gypsum), and mineral wool Lime 1/ Marble, granite, slate, and other products	97.0	97.0	98.0	133.1 94.1 94.1	358.6 3 245.5 2 180.9 1	243.3	237.7	219.9
Abrasives Asbestos products	223.9	208.8	220.0	249.7 129.0	430.1 304.2	375.6	386.0	400.0
Nondurable Goods		•	•					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	104.2	102.5	101.2	105.2	256.4 2	239.8	237.5	235.5
Cotton manufactures, except smallwares Cotton smallwares Silk and rayon goods Woolen and worsted manufactures,	90.7	88.9	88.9	115.1 107.5 77.6	302.2 200.7 206.6	186,4	191.4	222.0
except dyeing and finishing Hosiery Knitted cloth Knitted outerwear and knitted	70.9	69.9	68.7	107.0 71.6 102.2	254.9 2 151.5 1 189.9 1	44.4	135.3	143.7
gloves Knitted underwear Dyeing and finishing textiles	102.6	101.4	98.2	90.6	199.4 1 250.8 2	2 3 6.0	229.7	199.4
including woolen and worsted Carpets and rugs, wool Hats, fur-felt Jute goods except felts Cordage and twine	114.0 77.6 72.0 108.2	112.4 78.2 73.5 109.4	110.9 75.5 101.3	96.1 78.0 105.7	217.8 2 257.4 2 160.5 1 153.7 1 242.7 2	231.3 155.3 152.2	239.3 155.8 218.4	182.5 181.3 237.4
See explanatory notes, sections A, C), F a	nd G.			•		•	•

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

	Emp	Loymen	t inde	xes	Pay-roll indexes			
Industry group and industry	<u></u>	1947		1946				1946
	Sopt.		July	Sopt.	Sept. A			
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 2/	145.6	142.2	131.7	132.9	318.5 3	302.3	278.9	2 83. 0
Men's clothing, not elsewhere classified 3/ Shirts, collars, and nightwear Underwear and neckwear, nen's 3/ Work shirts Women's clothing, not elsewhere classified Corsets and allied garments Millinery Handkerchief's Curtains draperies, and bedspreads Housefurnishings, other than curtains etc. Textile bags	104.4 101.4 109.6 157.5 95.8 93.0 98.3 162.6 274.0	101.6 97.9 107.8 153.4 93.4 92.6 90.6 153.9 263.5	96.9 91.0 99.1 139.8 90.1 80.4 82.9 130.4 238.2	116.1 87.9 105.1 107.8 145.0 84.6 96.6 82.9 158.9 264.0 214.9	284.9 2 243.2 2 256.6 2 263.0 2 334.2 3 203.1 1 172.6 1 239.4 2 374.0 3 604.6 5 458.8 4	225.5 236.3 256.3 22.6 -92.3 -70.8 210.6 334.7	219.3 230.8 241.4 283.1 187.4 146.9 196.7 283.9	190.6 261.4 235.1 320.1 166.2 179.7 178.7
LEATHER AND LEATHER PRODUCTS 2/	1		į	103.1	231.6 2			•
Leather Boot and shoe cut stock and	1	_	i	88.8	198.5 1	•		
findings Boots and shoes Leather gloves and mittens Trunks and suitcases	97.5 128.5	96.7 127.6	93.9 118.9	100.8 95.0 139.2 175.0	190.9 1 221.5 2 254.7 2 334.8 3	209.9 244.3	204.8	195.2 279.5
FOOD 2/	161.1	157.3	143.1	137.5	331.6 3	325.6	295.8	246.5
Slaughtering and meat packing Butter Condensed and evaporated milk Ice cream Flour Feeds, prepared Cereal preparations Baking Sugar refining, cane Sugar, beet Confectionery Beverages, nonalcoholic Malt liquors Canning and preserving	177.8 194.5 176.8 141.8 171.2 168.0 115.5 131.3 104.8 122.3 164.1 188.4 252.1	188.0 208.8 185.9 142.6 173.1 163.5 114.5 131.2 90.9 112.4 166.4 187.9 232.7	192.7 216.3 189.4 142.0 171.4 156.5 113.7 130.9 69.7 103.9 149.1 182.8 163.8	118.8 157.6 243.8	271.9 2 366.5 3 419.8 4 326.2 3 338.9 3 382.9 3 223.2 2 281.7 2 220.6 1 270.5 2 293.3 2 293.3 2 293.3 3	391.3 146.0 346.0 339.6 364.1 361.2 218.4 284.2 189.0 232.8 298.0 365.1 653.7	387.7 470.6 343.7 326.1 366.8 329.9 218.0 275.0 131.3 211.4 257.4 349.6 401.8	336.3 362.7 263.4 278.5 291.7 302.2 193.5 147.5 148.0 198.5 179.1 256.3
TOBACCO MANUFACTURES	92.3	91.6	89.8	93.5	204.9	203.0	200.0	196.0
Cigarettes Cigars Tobacco (chewing and smoking)	79.1	77.3	74.5	78.6	243.7 2 179.8	173.5	163.4	180.9
and snuff	77.4	76.8	74.9	82.8	167.5	164.2	164.6	150.7

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

	Emp.		t inde:		Pay-roll indexes			
Industry group and industry		1947		1946		1947		1946
	Sopt.	Aug.	July	Sopt.	Sept.	Aug.	July	Sept.
PAPER AND ALLIED PRODUCTS 2/	143.5	143.0	140.7	140.0	308.5	300.6	298.7	259.8
Paper and pulp	142.9	142.6	140.9	135.6	315.7	311.0	309.6	2 53 3
Paper goods, other	152.1	150.3	149.5	148.8	309.3	292.7	297.2	271.3
Envelopes				129.2				225.2
Paper bags	159.2	161.6	160.5	165.0	333.9	337.6	338.6	312.8
Paper boxes				141 6				264.3
PRINTING, PUBLISHING, AND ALLIED	-						•	
industries 2/	130.7	129.8	128.8	122.3	245.0	235.5	233.6	203.1
Newspapers and periodicals	121.7	120.5	119.8	111.0	221.6	214.0	208.9	175.6
Printing, book and job			138.2		266.6	254.8	258.9	227.9
Lithographing				120.1				195.9
Bookbinding				133.1				26 6.2
CHEMICALS AND ALLIED PRODUCTS	195.2	189.7	189.8	184.0	395.1	380.4	378.7	329.1
Paints, varnishes, and colors Drugs, medicines, and	129.8	128.6	127.7	127.8	233.2	232.0	229.1	201.7
insecticides	199 2	1 DE 6	197 0	190.0	271	260 5	21.7 6	276 0
Perfumes and cosmetics			87.1					316.8
Soap	115.0	90.3	0101	104.5		163.6		
Rayon and allied products	121.9	120 1	120 1	118.8		233.4		210.8
Chemicals, not elsewhere	121.0	120.1	120.1	110.0	240.0	<i>2</i> 39.7	230.2	210.0
classified	177 6	170 2	180.8	167 6	226 2	336.8	מ נולכ	080 6
Explosives and safety fuses			176.6			353.4		
Compressed and liquefied gases			156.4					240.8
Ammunition, small-arms			159.4			204.2		
Fireworks	210.8	175 2	205.3	272 5		441.6		
Cottonseed oil	100.2	71 0	63 6	85.6	263 6	185.4	160.1	106 5
Fertilizers	121.8	114.6	108.6	118.7	335.1	304.6	288.0	297.4
PRODUCTS OF PETROLEUM AND COAL	153.4	154.1	153.7	147.8	302.4	297.2	295.6	257.3
Petroleum refining	140.0	141.5	141.4	13710	266.4	262.2	265 L	232.7
Coke and byproducts				119.3	267.4			
Paving materials	07.7	93.5	70 2	95.5	218.9	197 6	160 5	100 6
Roofing materials	163.9	162.7	163.1	156.6	369.3	363.7	357.7	298.6
	1	;		•				

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

	Emplo	ymont	indox	os	Pay-roll indexes			
Industry group and industry		1947				1947		1946
	Sept. A	ug.	July	Sept.	Sept.	Aug.	July	Sept.
RUBBER PRODUCTS 2/	178.5 1	78.2	175.2	189.1	368.6	3 5 7. 0	352.7	363.9
Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	209.1 2 141.6 1 157.1 1	27.2	135.1	141.5	314.4	397.0 268.4 318.9	290.0	285.2
HISCELLANEOUS INDUSTRIES 2/	177.8 1	73.5	170.1	176.9	368.1	347.5	341.2	339.3
Instruments (professional and scientific), and fire-control equipment Photographic apparatus	243.9 2 216.1 2					457.9 388.3		
Optical instruments and ophthalmic goods Pianos, organs, and perts Games, toys, and dells Buttons Fire extinguishers	231.6 2 194.7 1 214.4 2 103.4 1 277.6 2	67.2 02.1 01.9	191.6 188.8 95.4	167.2 170.1 129.8	431.4 482.2 230.2	426.5 384.8 431.4 220.7 583.7	402.7 410.1 209.2	325.0 350.8 288.6

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

 Metal doors, sash, frames, molding, and trim June 1947 pay roll to 252.2.

 Typewriters June 1947 pay roll to 235.3.

 Lighting equipment May and June 1947 employment to 157.5 and 154.4; pay roll to 300.5 and 293.7

 Aluminum manufactures June 1947 employment to 183.7.

 Lime May and June 1947 pay roll to 239.2 and 244.6.
- 2/ 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	Mineographed release	Monthly Labor Review
Paper and allied products Rubber products Food Miscellaneous industries	September 1947 September 1947 November 1947 November 1947	October 1947 October 1947 December 1947 December 1947

^{3/} The June 1947 pay-roll index shown in the August 1947 Detailed Report should have read 273.0 for Men's clothing, not elsewhere classified and 248.3 for Underwear and neckwear, men's.

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

(1939 Average = 100)

	1007		Employment indexes				Xes	
		1946				1 946		
Sept.	Aug.	July	Sept.	Sept.	Aug.	July	Sept.	
3/	81.4	78.7	82.2	3/	216.6	177.8	194.0	
89.2	88.4							
88.3	89.5	89.1	83.5					
				7			•	
89.6	95.1	93.8	95.6	203.6				
31.4	31.6	31.1	29.0					
56.6	57.9	57.7	60.4	102.5	104.6	99.1	98.0	
105.4	106.3	106.0	102.5	258.5	259.6	251.2	227.9	
95,6	97.3	97.2	93.9	175.6	173.5	173.9	149.5	
:				į				
138.1	140.0	140.0	138.0	3/	2/	2/	2/	
129.6	130.7	130.9	129.9	224.1	225.2	222 1	207 0	
191.1	193.8	193.3	181.0	309.6	306.2	302.2	265.0	
99.8	100.5	101.5	112.0	211.8	213.5	215.2	177.3	
				183.1	182.9	178.4	153.3	
İ	* * * * * * * * * * * * * * * * * * *							
113.3	112.2	111.1	109.4	203.3	198.2	196.5	182.8	
		:						
122.6	115.7	116.7	125.4					
113.4	103.4	106.8	116.7					
87.5	85.8	86.0	81.5	159.8	155.4	155.8	139.1	
104.8	105.1	104.2	95.5					
124.6	123.1	121.4	113.8	232.5	229.0	218.8	190.0	
							•	
117.4	117.6	118.3	119.5	222.6	221.0	222.0	209.5	
109.6	110.2	112.8	109.9					
118.6	117.4	123.4	125.6	220.7	208.9	228.2	225.6	
	89.2 88.3 147.3 101.8 89.6 31.4 56.6 105.4 95.6 191.1 99.8 109.9 113.3 112.6 122.6 113.4 87.5 104.8 124.6	89.2 88.4 88.3 89.5 147.3 148.3 101.8 101.7 89.6 95.1 31.4 31.6 56.6 57.9 105.4 106.3 95.6 97.3 138.1 140.0 129.6 130.7 191.1 193.8 99.8 100.5 109.9 110.2 113.3 112.2 112.3 109.3 112.6 115.7 113.4 103.4 87.5 85.8 104.8 105.1 124.6 123.1	89.2 88.4 82.1 88.3 89.5 89.1 147.3 148.3 148.0 101.8 101.7 101.8 99.6 95.1 93.8 31.4 31.6 31.1 56.6 57.9 57.7 105.4 106.3 106.0 95.6 97.3 97.2 138.1 140.0 140.0 129.6 130.7 130.9 191.1 193.8 193.3 99.8 100.5 101.5 109.9 110.2 109.3 112.6 111.5 113.0 122.6 115.7 116.7 113.4 103.4 106.8 87.5 85.8 86.0 104.8 105.1 104.2 124.6 123.1 121.4 117.4 117.6 118.3 109.6 110.2 112.8	89.2 88.4 82.1 90.5 88.3 89.5 89.1 83.5 147.3 148.3 148.0 138.1 101.8 101.7 101.8 90.0 89.6 95.1 93.8 95.6 31.4 31.6 31.1 29.0 56.6 57.9 57.7 60.4 105.4 106.3 106.0 102.5 95.6 97.3 97.2 93.9	89.2 88.4 82.1 90.5 270.2 88.3 89.5 89.1 83.5 179.0 147.3 148.3 148.0 138.1 298.7 101.8 101.7 101.8 90.0 223.2 89.6 95.1 93.8 95.6 203.6 31.4 31.6 31.1 29.0 52.0 56.6 57.9 57.7 60.4 102.5 258.5 95.6 97.3 97.2 93.9 175.6 105.4 106.3 106.0 102.5 258.5 95.6 97.3 97.2 93.9 175.6 130.9 129.9 224.1 191.1 193.8 193.3 181.0 309.6 99.8 100.5 101.5 112.0 211.8 109.9 110.2 109.3 101.9 183.1 113.3 112.2 111.1 109.4 203.3 112.3 109.3 110.2 109.8 202.5 112.6 111.5 113.0 103.5 209.3 122.6 115.7 116.7 125.4 219.8 113.4 103.4 106.8 116.7 203.4 87.5 85.8 86.0 81.5 159.8 104.8 105.1 104.2 95.5 188.5 124.6 123.1 121.4 113.8 232.5 117.4 117.6 118.3 119.5 222.6 109.6 110.2 112.8 109.9 208.2	89.2 88.4 82.1 90.5 270.2 264.4 88.3 89.5 89.1 83.5 179.0 178.3 147.3 148.3 148.0 138.1 298.7 300.7 101.8 101.7 101.8 90.0 223.2 217.0 89.6 95.1 93.8 95.6 203.6 207.8 31.4 31.6 31.1 29.0 52.0 51.7 56.6 57.9 57.7 60.4 102.5 104.6 105.4 106.3 106.0 102.5 258.5 259.6 97.3 97.2 93.9 175.6 173.5 138.1 140.0 140.0 138.0 25.2 25.2 191.1 193.8 193.3 181.0 309.6 306.2 99.8 100.5 101.5 112.0 211.8 213.5 109.9 110.2 109.3 101.9 183.1 182.9 113.3 112.2 111.1 109.4 203.3 198.2 112.3 109.3 110.2 109.8 202.5 197.7 112.6 111.5 113.0 103.5 209.3 212.2 112.6 115.7 116.7 125.4 219.8 212.0 113.4 103.4 106.8 116.7 203.4 183.4 87.5 85.8 86.0 81.5 159.8 155.4 104.8 105.1 104.2 95.5 188.5 124.6 123.1 121.4 113.8 232.5 229.0 117.4 117.6 118.3 119.5 222.6 221.0 109.6 110.2 112.8 109.9 208.2 203.9	89.2 88.4 82.1 90.5 270.2 264.4 192.9 88.3 89.5 89.1 83.5 179.0 178.3 171.9 147.3 148.3 148.0 138.1 298.7 300.7 295.4 101.8 101.7 101.8 90.0 223.2 217.0 209.6 89.6 95.1 93.8 95.6 203.6 207.8 198.0 56.6 57.9 57.7 60.4 102.5 104.6 99.1 105.4 106.3 106.0 102.5 258.5 259.6 251.2 95.6 97.3 97.2 93.9 175.6 173.5 173.9 129.6 130.7 130.9 129.9 125.8 129.0 100.5 101.5 112.0 211.8 213.5 215.2 109.9 110.2 109.3 101.9 183.1 182.9 178.4 113.3 112.2 111.1 109.4 203.3 198.2 196.5 112.6 115.7 116.7 125.4 203.3 198.2 196.5 122.6 115.7 116.7 125.4 203.3 122.2 213.8 122.6 115.7 116.7 125.4 203.3 122.2 213.8 122.6 115.7 116.7 125.4 203.4 183.4 192.0 87.5 85.8 86.0 81.5 129.8 125.4 125.8 109.1 120.4 123.1 121.4 113.8 232.5 229.0 218.8 117.4 117.6 118.3 119.5 222.6 221.0 222.0 109.6 110.2 112.8 109.9 208.2 203.9 210.3	

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.

 $[\]overline{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, was to adjust the levels of employment estimates to 1945 benchmark data. In preparing estimates for private employment prior to 1939, the various industrial censuses taken by the Bureau of the Census were used as sources of benchmark data. Data obtained from unemployment compensation agencies and the Bureau of Old Age and Survivors Insurance are the main bases for 1945 benchmarks. Benchmarks 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 reivisions. 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 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 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 of

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 25,200 workers in September and 23,800 in October, the October estimate would be prepared as follows:

$$40,300 \times \frac{23,800}{23,200} = 41,240$$

In general data showing month-to-menth 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 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 reivision 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 6ther Types of Employment Data The Bureau of Labor Statistics exployment 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 monagricultural employment estimates in several important respects. For example: (1) The Euroeu of Labor Statistics estimates cover all full- and part-time wase 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, demostic 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, withhelding 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. Excluding the 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 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	4 0				
Contract Construction	12,500	335,000	18				
Public Utilities	7,000	832,000	75				
Trade:	·	·					
Wholesale	11,400	326 ,000	20				
Retail	45,000	1,300,000	2 5				
Service:	•						
Hotels (year-round)	1,300	137,000	35				
Power laundries and	•	•					
cleaning and dyeing	1,700	74,000	20				

Sec. H. <u>Coverage of Employment Estimates</u> - 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. 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 previously shown for total employment in nonagricultural establishments, by state. Comparable series of manufacturing estimates for each state, January 1945 to date, and also for nonagricultural employment by state, 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, which were regularly published in this report, have been discontinued. The last month for which such data were published is May 1947 (in the June Detailed Report).

```
Cooperating State Agencies
```

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

California - Division of Lator 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 S.

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

Irdiana - 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 Flacement 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)

Dopt. 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. Visconsin - Industrial Commission of Wisconsin, Madison 3.

Misseuri - Division of Employment Security, 1101 Capital Avenue, Jafferson City. BLS Regional Offices

New England - Regional Director, U. S. Eureau of Labor Statistics, Old South Bldg., 294 Washington St., Boston 8, Massachusetts (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Verment)

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 Eldg., 226 W. Jackson Blvd., Chicago 6, Illinois (Illinois, Indiana, Iowe, Kansas, Kentucky, Michigan, Minnesota, Kissouri, Nebraska, Ohio, North Dakota, South Dakota, Wisconsin)

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

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 governments, public utilities, and private establishments, are excluded.
- <u>Defense Agencies</u> Covers 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.
- <u>Family Allowances</u> 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 in tables 1 and 7. 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 as of the last day of the month, is here presented as of the first day of the next month.
- <u>Finance</u> 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 in tables 1 and 7 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 exeucitve 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 pay rolls Estimates of production worker pay rolls expressed as a percentage of the average pay roll for 1939.

- Leave payments Payments were authorized by P. L. 704 of the 79th Congress and F. 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. Excludes payment of present personnel while on terminal leave which 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 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.
- <u>Kining</u> 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--mining, contract construction, manufacturing, transportation and public utilities, wholesale and retail treade, finance, service, or government.
- Pay rolls Private pay rolls represent pay rolls of nonsupervisory employees and working supervisors, government pay rolls represent the total pay before deductions for old-age and unemployment insurance, group insurance, withholding tax, bords, and union dues, but after deductions for damaged work. Includes pay for sick leave, holideys, and vacations taken. Private pay rolls exclude 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.
- Production workers Includes working foremen and all nonsupervisory workers (including lead men and trainers) engaged in fabricating, processing, essembling, 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 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, 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, D. C.</u> - 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.