EMPLOYMENT and PAY ROLLS

DETAILED REPORT JUNE 1947

United States Department of Labor Bureau of Labor Statistics

ESTIMATES OF MANUFACTURING EMPLOYMENT - NEW SERIES Industries in the Stone and Printing Groups

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

Stone Group - Only four of the industries in this group required adjustment: glass and glassware; coment; brick, tile, and terra cotta; and pottery and related products. Because of the lapse of several years without any adjustment to levels other than the 1939 Census of Manufactures, some of these changes are rather large, glass and glassware showing the largest upward adjustment

Printing Group - The estimates for all industries in this group, with the exception of the newspapers and periodicals industry, have been adjusted. The changes in these industries, however, were relatively small.

The present report shows the new production-worker employment and pay rolls estimates and indexes only for the three current months and June of last year. A set of summary sheets presenting comparable data from January 1939 to date, by month, will be provided upon request.

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U. S. Department of Labor
Bureau of Labor Statistics
Employment and Occupational Outlook Branch
Division of Labor Statistics

EMPLOYMENT AND PAY ROLLS

Detailed Report

June 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 current month and the immediately preceding month are preliminary and subject to revision.

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

(In thousands)

Industry division		1947	1946		
Industry division	June	May	April	June	May
TOTAL	42,342	41,920	41,824	40,680	40,258
Manufacturing	15,317	15,237	15,429	14,371	14,159
Mining	890	884	8 56	864	7 53
Contract construction	1,763	1,685	1,619	1,532	1,438
Transportation and public utilities	4,115	3,970	3,836	3,996	3, 946
Trade	8,580	8 , 546	8,552	8,342	8,302
Finance	1,567	1,561	1,554	1,531	1,517
Service	4,711	4,590	4,552	4,430	4,448
Federal, State, and local government including Federal force-account construction	5 , 3 9 9	5,447	5,426	5,614	5, 695

See explanatory notes, sections A - H

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

(In thousands)

	(In chousan	us)					
Industry group		1947_		19	1946		
industry Stoup	June	May	April	June	May		
ALL MANUFACTURING	15,317	15,237	1 5.429	14,371	1 4 ,1 59		
Durable goods	7,848	7,781	7,892	7,17 2	7,035		
Iron and steel and their							
products	1,833	1,829	1,842	1,663	1,636		
Electrical machinery	744	718	732	68 8	667		
Machinery, except		; :		٠.			
electrical	1,520	1,532	1,536	1,362	1,330		
Transportation equipment, except automobiles	-02	= 0 =	607	601	620		
Automobiles	583 969	58 7 926	601 987	624 8 53	638 841		
Nonferrous metals and their	909	920	901	0/3			
products	467	479	491	1+1+O	421		
Lumber and timber basic		117	1,72				
products	731	715	69 0	612	593		
Furniture and finished lumber	,						
products	5 0 9	507	5 1 6	467	455		
Stone, clay, and glass							
products	492	488	497	463	454		
Nondurable goods	7,469	7,456	7,537	7,199	7,124		
Textile-mill products and			:	•			
other fiber manufactures	1,292	1,310	1,336	1,296	1,283		
Apparel and other finished	•	•					
textile products	1,197	1,192	1,222	1,152	1,131		
Leather and leather products	335	385	398	. 399	398		
Food	1,565	1,516	1,505	1,435	1,431		
Tobacco manufactures Paper and allied products	97 1462	96 461	95 1.65	99	98		
Printing, publishing, and	402	49 1	465	445	440		
allied industries	693	690	689	650	643		
Chemicals and allied		٥٥٥			0-75		
products	724	744	747	689	689		
Products of petroleum and	•			_			
coal	231	228	223	218	214		
Rubber products	270	276	289	272	267		
Miscellaneous industries	553	558	568	544	530		
i	İ	:	1	i			

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)

	E	mployment		Pay rolls				
Area and branch		first of			(total for month)			
	19		June	19	June			
	June	May	1946	June	May	1946		
Total (including areas outside U. S.)				·		, ,		
· ·	2,168.9	2,193.1	2,774.2	\$499,896	\$516,791	\$533.860		
	2,127.7	2,151.3	2,731.6	490,672	507,481	525,485		
Defense agencies	996.2	1,028.1	1,651.0	214,028	232,778			
Post Office Department	437.3	435.4	418.3	96,012	95,486			
Other agencies	694.2	687.8	662.3	180,632	179,217			
Legislative	7.2	7.2	6.6	2,425	2,439			
Judicial	3.1	3.1	3.1	1,149	1,181			
Government corporations	30.9	31.5	32.9	5,650	5,690			
Continental United States Total Federal Executive Defense agencies Post Office Department Other agencies Legislative Judicial Government corporations	1,905.1 1,871.9 769.3 435.8 666.8 7.2 3.0 23.0	1,924.6 1,890.9 796.1 434.0 660.8 7.3 3.0 23.4	2,328.7 2,293.2 1,238.8 416.8 637.6 6.6 3.0 25.9	457,868 449,308 179,411 95,683 174,214 2,425 1,114 5,021	472,537 463,916 196,068 95,164 172,684 2,439 1,145 5,037	497,353 489,678 275,540 82,445 131,693 1,828 917 4,930		
Washington, D. C. Total government District of Columbia	237.5	241.1	259.7	64,550	69,666	57,614		
Government	18.1	18.0	16.6	4,181	4,235	3,345		
Federal	219.4	223.1	243.1	60,369	65,431	54,269		
Executive	211.6	215.2	236.0	57,748	62,791	52,281		
Defense agencies	71.2	73.3	88.7	16,877	13,651	19,750		
Post Office Dept.	7.3	7.4	7.5	2,078	2,258	1,972		
Other agencies	133.1	134.5	139.8	38,793	41,882			
Logislative	7,2	7.3	6.6	2,425	2,439	1,829		
Judicial	.6	1.6	•5	196	201	159		
	1							

See Glossary for definitions.

Table 4. - Personnel and Pay of the Military Branch of the Federal Government (In thousands)

Personnel and pay	1947		June	Average monthly personnel and total annual pay rolls		
	June	May	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. Men Women	1,631 1,021 495 94 21 1,608	1,703 1,082 501 99 21 1,679 24	3,446 2,009 1,228 173 36 3,374 72	8,944 6,733 1,744 311 156 8,833 111	345 192 124 19 10	
Pay, total Army Navy Marine Corps Coast Guard Pay rolls Mustering-out pay Family allowances Leave payments Cash Bonds	\$322,665 191,195 109,118 17,072 5,280 249,936 12,265 24,501 35,963 3,697 32,266	226,210 113,984 17,180 5,975 257,463 14,662 25,814 65,410	\$736,131 433,105 251,196 33,120 13,710 544,514 143,984 47,633	\$11,173,186 8,143,833 2,408,736 392,140 228,477 10,140,852 	\$331,523 155,482 143,238 16,877 15,926 331,523	

^{1/} Data not available.

See Glessary for definitions.

Table 5. - Estimated Number of Employees in Nonagricultural Establishments, by State (In thousands)

	All in	lustry div	isions	Man	ufacturin(3
Region and State	Ma y 1947	Apr. 1947	May 194 6	May 1947	Apr. 1947	
New England Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	2,916 224 143 87.5 1,478 268 715	2,918 223 143 88.7 1,479 269 715	2,900 228 141 85.8 1,513 259 673	1,525 108 78.7 39.4 734 148 417		,
Middle Atlantic New York New Jersey Pennsylvania *	8,907 4,465 1,327 3,115	4,403	8,629 4,372 1,347 2,910	4,056 1,835 727 1,494	4,117 1,871 738 1,508	3,877 1,803 720 1,346
East North Central Ohio Indiana Illinois Michigan Wisconsin	8,589 2,336 987 2,821 1,651 794	8,537 2,336 982 2,795 1,645 779	8,241 2,244 925 2,706 1,615 751	4,482 1,238 548 1,235 1,035 426	4,523 1,255 554 1,248 1,036 430	4,094 1,148 495 1,131 939 381
West North Central Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	2,791 659 463 904 83.6 92.6 246 343	650 460 898 81.3	2,734 645 444 902 77.7 87.1 242 336	829 193 145 352 6.8 11.2 42.3 79.1	11.5 41.8	
South Atlantic Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	4,361 94.8 614 448 642 424 728 366 609 435	93.0 603	4,321 87.6 599 466 626 401 708 357 600 476	1,513 45.4 229 17.1 209 131 366 189 250 76.6	1,533 44.9 231 17.2 209 133 372 190 254 81.9	1,462 43.3 224 16.2 193 129 358 178 243 77.9

Table 5. - Estimated Number of Employees in Nenageicultural.
Establishments, by State - Continued
(In thousands)

	All ind	ustry div	isions	Manu		
Region and State	May	Apr.	May	May	Apr.	May
	1947	1947	1946	1947	1947	1946
East South Central	1,737	1,719	1,655	682	693	635
Kentucky	424	420	412	124	130	121
Tennessee	553	547	532	246	249	232
Alabama	518	509	479	223	224	201
Mississippi	242	243	232	88.5	90.4	81.4
West South Central	2,335	2,311	2,390	585	588	551
Arkansas	232	230	232	71.0	72,7	66.0
Louisiana	441	437	441	137	135	133
Oklahoma	340	335	344	53.0	54.1	51.8
Texas	1,322	1,309	1,373	324	326	300
Mountain Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	929 118 99.0 61.2 271 85.9 108. 141 44.4	917 116 96.1 59.8 271 84.2 107 139 43.4	893 112 97.7 58.5 264 84.6 98.8 134 42.9	147 17.1 19.2 6.0 53.9 9.9 13.1 23.6	145 16,6 18.4 5.9 54.1 9.6 22.7 3.7	131 15.4 19.5 5.3 49.2 9.9 11.1 17.3 3.0
Pacific	3,175	3,181	3,201	974	975	930
Washington	518	516	528	165	161	163
Oregon	304	303	302	117	115	112
California	2,353	2,362	2,371	692	699	655

^{*} Estimates for manufacturing are revised because of adjustment to more recent benchmark data made available under the Federal Security Agency program.

See explanatory notes, section I.

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

Industry group and industry		1947	1946		
	June	May	April	June	May
ALL MANUFACTURING	12,397	12,341	12,524	11,623	11,433
Durable goods	6,483	6,426	6,528	5,865	5,740
Nondurable goods	5,914	5,915	5,996	5,758	5,693
Durable Goods IRON AND STEEL AND THEIR PRODUCTS	1,557	1,555	1,567	1,403	1,380
Blast furnaces, steel works, and					
rolling mills	497.0			453.1	
Gray-iron and semi-steel castings	85.3		86.5		
Malleable-iron castings	26.5				
Steel castings	48.6		49.4	, 50.8	
Cast-iron pipe and fittings	20.4		19.9	16.2	
Tin cans and other tinware	42,4	41.8	41.9		
Wire drawn from purchased rods	26.4	26.3	30.7	28,6	
Wirework	39.6	39.2	41.4	34.3	34.9
Cutlery and edge tools	23.3	25.6	27.0	25.5	25.2
Tools (except edge tools, machine	i				
tools, files, and saws)	25.2	24.7	26.6	25.3	24.9
Hardware	49.5	50.1	50.4	45.1	44.4
Plumbers' supplies	29.2	30.0	30.8	25.6	24.4
Stoves, oil burners, and heating	i				
equipment not elsewhere	į				
classified	62.8	63.0	62.8	51.9	50.1
Steam and hot-water heating	!			•	
apparatus and steam fittings	48.1	48.9	50.5	46.2	45.4
Stamped and enameled ware and	}			1	
galvanizing	82.7	83.8	84.9	73.0	72.1
Fabricated structural and				•	
ornamental metalwork	58.7	59.0	58.9	50.9	49.8
Metal doors, sash, frames, molding,	!		:	1	
and trim	9.3	9.1	9,8	7.7	7.3
Bolts, nuts, washers, and rivets	21.2	21.5	21.7	17.4	17.4
Forgings, iron and steel	27.2	26.8	27.3	25.9	26.1
Wrought pipe, welded and heavy-			:	!	
riveted	12.7	13.4	13.6	11.2	11.9
Screw-machine products and wood			:		
screws	27.7			27.2	26.9
Steel barrels, kegs, and drums	6.1	6.3	6.4	5.5	5.4
Firearms	14.2	14.1	14.4	12.6	13.3
ELECTRICAL MACHINERY	574	554	567	521	503
Electrical equipment	0.31, 73	207 0	י חוכ	076 0	067 7
	314.7			276.9	
Radios and phonographs Communication equipment	81.8		89.4	76.8	
oppured to to a darbateur	80.9	67.7	70.8	85.7	04.0

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

(In thousands) 1947 1946 Industry group and industry June May April June MACHINERY, EXCEPT ELECTRICAL 1,025 1,185 1,194 1,197 1,049 Machinery and machine-shop products 383.6 386.0 381.8 347.6 345.1 Engines and turbines 44.4 44.9 40.8 43.1 36.9 Tractors 56.4 55.1 55.0 49.3 47.0 Agricultural machinery, excluding 50.2 49.5 tractors 40.6 51.4 41.0 Machine tools 53.4 59.3 55.1 5**7.**2 59.0 47.8 Machine-tool accessories 44.9 46.2 47.4 45.9 37.8 59.6 23.4 38.4 59.0 38.6 32.1 Textile machinery 31.9 58.6 Pumps and pumping equipment 54.7 52.9 18.1 23.8 18.4 17.8 Typewriters Cash registers, adding and 37.7 40.7 40.5 33.0 32.1 calculating machines Washing machines, wringers and 14.5 14.2 driers, domestic 14.8 10.7 10.0 Sewing machines, domestic and 11.6 11.5 9.5 11.7 9.2 industrial Refrigerators and refrigeration 74.3 72.9 78.3 equipment 57.4 54.0 TRANSPORTATION EQUIPMENT, EXCEPT 466 477 479 463 491. AUTOMOBILES 23.8 25.1 26.5 24.3 27.1 Locomotives Cars, electric- and steam-55.2 55.6 42.8 54.9 44.5 railroad Aircraft and parts, excluding 138.2 133.9 141.9 125.5 123.5 aircraft engines 26.9 27.0 28.1 26.0 26.1 Aircraft engines 140.3 140.9 183.2 Shipbuilding and boatbuilding 143.9 193.2 12.8 Motorcycles, bicycles, and parts 13.3 10.0 10.3 789 751 807 693 AUTOMOBILES 675 412 NONFERROUS METALS AND THEIR PRODUCTS 401 424 378 360 Smelting and refining, primary, of nonferrous metals 39.8 39.6 40.8 i 29.7 28.1 Alloying and rolling and drawing of nonferrous metals except 61.7 aluminum 57.1 59.8 57.2 52.4 27.6 28.0 26.7 27.3 26.0 Clocks and watches Jewelry (precious metals) and 17.2 15.8 jewelers' findings 16.5 16.7 17.1 17.0 15.8 Silverware and plated ware. 15.9 13.9 13.6 31.1 28.1 Lighting equipment 31.7 32.4 25.5 47.6 46.2 48.9 Aluminum manufactures 42.8 Sheet metal work, not elsewhere 25.4 25.4 25.9 24.8 24.6 classified

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

(In thousands)

(III bhouseauts)							
Industry group and industry		1947		1946	5		
mandery Stoup and markets	June	May	April,	Juno	May		
LUMBER AND TIMBER BASIC PRODUCTS	. 665	651	627	553	537		
Sawmills and logging camps 1/ Planing and plywood mills 1/	536.3 128.6		502.8 124.7	447.2 106.2			
FURNITURE AND FINISHED LUMBER PRODUCTS	5 426	425	433	391	381		
Mattresses and bedsprings 1/ Furniture 1/ Wooden boxes, other than cigar 1/ Caskets and other morticians' goods Wood preserving 1/ Wood, turned and shaped 1/	29.9 227.0 36.2 1/ 19.2 18.6 30.1	225.9 36.3 19.3 18.2	36.5 19.6 18.2 33.5	32.3 17.5 15.4 29.9	204.7 32.2 17.1 15.4 29.5		
STONE, CLAY, AND GLASS PRODUCTS	423	418	429	398	388		
Glass and glassware 1/ Glass products made from	120.3	122.1	122.8	119.3	119.6		
purchased glass 1/ Cement 1/ Brick, tile, and terra cotta 1/ Pottery and related products 1/ Gypsum 1/	12.4 35.2 73.0 55.5 6.1	29.5 72.1 56.0	35.4 72.3	11.9 32.7 65.5 50.5 5.1	31.0 64.2 48.5		
Wallboard, plaster (except gypsum), and mineral wool 1/ Lime 1/ Marble granite slate and ather	11.1	•		10.5			
Marble, granite, slate, and other products 1/ Abrasives 1/ Asbestos products 1/	16.3 18.7 21.1	19.4			18.3		
Nondurable Goods TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	1,179	1,197	1.,223	1,191	1,178		
Cotton manufactures, except small wares Cotton small wares Silk and rayon goods	453.3 12.4 90.8	13.2		447.7 14.1 91.8	14.2		
Woolen and worsted manufactures, except dyeing and finishing Hosiery Knitted cloth Knitted outerwear and knitted gloves Knitted underwear	146.7 108.0 9.1 24.2 38.0	9.3 25.7	117.0 9.8 27.4		112.7 11.0 31.3		
Dyeing and finishing textiles, including woolen and worsted Carpets and rugs, wool Hats, fur-felt Jute goods, except felts Corlage and twine	11.2	28.3 11.0 3.8	28.0 10.3 3.8	63.7 24.0 11.0 3.9 15.3	23.5 11.0 3.7		

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

Industry group and industry		1947		1946		
mercan and Stoat and Hinns of A	June	May	April	June	May	
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 1/	1,040	1,037	1,066	1,013	995	
Men's clothing, not elsewhere classified Shirts, collars, and nightwear Underwear and neckwear, men's Work shirts Women's clothing, not elsewhere	284.5 74.4 16.8 14.1	73.2 17.4		260.8 64.2 16.6 15.2	255.0 62.6 16.6 14.7	
classified Corsets and allied garments Millinery Handkerchiefs Curtains, draperies, and bedspreads Housefurnishings, other than		17.6 20.1 4.7 22.2	407.5 17.6 22.0 4.8 22.3	399.1 16.2 19.8 4.1 27.0		
curtains, etc. Textile bags	28.6 27.1		29.0 28.3	27 . 8 26.9	27.5 24.5	
LEATHER AND LEATHER PRODUCTS	346	345	358	360	359	
Leather 1/ Boot and shoe cut stock and	45.5	45.9	46.3	45.5	46.0	
findings 1/ Boots and shoes 1/ Leather gloves and mittens 1/ Trunks and suitcases 1/	· 18.0 214.4 12.1 12.2	212.6 12.0	220.7	20.5 220.4 14.3 14.0	218.7	
FOOD	1,114	1,077	1,068	1,033	1,024	
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	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	25.0 15.0 20.1 28.8 21.4 9.3 245.8 54.6 25.6	23.8 14.4 18.5 30.0 21.9 10.3 247.3 15.3 4.6 56.7 23.8 54.1	20.8 9.9 234.2 14.2 4.7 47.2 24.9	14.7 18.5 27.2 20.8 10.0 238.9 13.6 48.9 24.0 50.	
TOBACCO MANUFACTURES	84	83	82	86	85	
Cigarettes Cigars Tobacco (chewing and smoking)	33.3 38.0			33.6 39.2	33.3 38.9	
and snuff	6.8	6.7	6.5	7.3	7.1	

Industrial group and distribution		1947		194	6
Industry group and industry	June	May	April	June	May
PAPER AND ALLIED PRODUCTS	381	381	385	368	363
Paper and pulp Paper goods, other Envelopes Paper bags Paper boxes	172.9 47.1 10.8 14.5 85.3		171.2 47.4 10.9 15.5 89.7	167.6 46.4 10.5 14.3 86.6	165.0 46.3 10.3 14.1 85.2
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	423	422	421	393	389
Newspapers and periodicals 1/Printing, book and job 1/Lithographing 1/Bookbinding 1/	142.0 175.8 32.4 37.5	175.1 32.7	139.9 176.3 32.7 37.3	129.9 166.0 30.6 33.9	163.4 30.2
CHEMICALS AND ALLIED PRODUCTS	542	561	565	522	52 7
Paints, varnishes, and colors Drugs, medicines, and insecticides Perfumes and cosmetics Soap Rayon and allied products Chemicals, not elsewhere	37.0 52.3 9.3 15.6 50.0	53.3 9.3 15.2	37.3 53.9 9.7 15.3 58.3	35.3 51.4 12.1 14.1 58.4	51.4 12.2 14.0
classified Explosives and safety fuses Compressed and liquefied gases Ammunition, small-arms Fireworks Cottonseed oil Fertilizers	126.7 13.8 6.2 7.0 2.9 9.9 21.5	13.9 6.1 6.9 2.9 11.0	125.3 13.9 6.0 6.7 2.8 13.0 27.4	117.5 12.2 5.8 7.6 3.3 9.0 20.1	12.7 5.8 7.6 3.3 9.9
PRODUCTS OF PETROLEUM AND COAL	160	158	154	153	149
Petroleum refining Coke and by-products Paving materials Roofing materials	101.4 26.7 1.8 12.7	26.3 1.9	97.6 25.9 1.9 12.3	99.1 24.7 2.1 11.8	97.9 22.7 2.0 11.6

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

Industry group and industry		1947	1946		
Industry group and industry	June	May	April	June	May
RUBBER PRODUCTS	218	223	234	221	217
Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	100.6 18.0 67.3	102.2 19.2 68.8	105.6 20.0 74.2	106.0 18.1 68.5	104.7 17.8 67.0
MISCELLANEOUS INDUSTRIES	427	431	440	418	407
Instruments (professional and scientific), and fire-control equipment Photographic apparatus Optical instruments and ophthalmic goods Pianos, organs, and parts Games, toys, and dolls Buttons Fire extinguishers	19.7 26.1 20.2 10.6 24.4 8.2 2.1	19.4 25.8 20.6 10.6 23.8 8.6 2.0	23.8	21.7 24.5 21.3 9.0 20.9 10.3 2.0	21.8 24.0 21.2 8.7 20.6 10.1 2.0

Estimates for the individual industries comprising the major industry group or industry noted 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 releases dated prior to:

Group	Mimeographed releases	Monthly Labor Review
Furniture and finished lumber products Lumber and timber basic products Leather and leather products Stone, clay, and glass products	June 1947 July 1947 July 1947 August 1947	July 1947 August 1947 August 1947 Sept. 1947
Printing, publishing, and allied industries	August 1947	Sept. 1947

Table 7. - Estimated Employment in Selected Normanufacturing Industries

(In thousands)

Traduction	The residence of the residence of the second	1947		1946		
Industry group and industry 1/	June	May	April	Juno	May	
MINING: 2/						
Coal: Anthracite Bituminous coal Metal Iron Copper Lead and zinc Gold and silver Miscellaneous	66.5 329 80.0 29.6 24.5 16.0 7.6 2.3	29.0 23.9 16.0	308 79.0 28.4 24.2 16.2 7.9	26.8 14.7	20.2 15.5	
TRANSPORTATION AND PUBLIC UTILITIES:						
Class I steam railways 3/ Street railways and busses 4/ Telephone Telegraph 5/ Electric light and power	1,376 253 605 38.5 263	253 506	1,345 254 404 39.3 256	249 545	1,307 247 532 42.7 241	
SERVICE:						
Hotels (year-round) Power laundries 2/ Cleaning and dyeing 2/	385 6/ <u>6</u> /	382 6/ <u>6</u> /	379 6/ <u>6</u> /	387 6/ 6/	387 6/ <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. Now series are being prepared.

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

	Em		nt ind	lexes		Pay-roll indexes			
Industry group and industry		194	.7	1946		1947		1946	
	June		Apr.	June	June	Мау	Apr.	. June	
ALL MANUFACTURING	151.3	150.6	152.9	141.9	319.4	312.2	310.7	2 62 . 8	
Durable goods	179.5	178.0	180.8	162.4	365.4	353.8	349.9	289.1	
Nondurable goods	129.1	129.1	130.9	125.7	274.4	271.6	272.3	237.0	
Durable Goods RON AND STEEL AND THEIR PRODUCTS	1 57.1	156.8	158.0	141.5	315.0	306.7	297.5	240.3	
Blast furnaces, steel works,	108.0	306 h	10E 1	115.6	01.7	026.0	010 0	182.0	
and rolling mills									
Gray-iron and semisteel castings	140.0	140.7	140.1	133.9 131.4	326.3	325.8	317.6	264.2	
Malleable-iron castings	146.9	143.2	142.1	131.4	329.2	324 7	313.4	260.9	
Steel castings	161.6	164.4	164.3	169.0	319.5	316.6	308.9	292.3	
Cast-iron pipe and fittings	123.7	124.2	120.5	97.8	310.7	309.7	281.7	194.2	
Tin cans and other tinware				132.0					
Wire drawn from purchased rods				130.1				209.1	
Wirework				112.7					
Cutlery and edge tools	151.4	165.8	175.2	165.5	350.0	370.4	3 88.2	351.8	
Tools (except edge tools, machine			:	:		•			
tools, files, and saws)	164.6	161.6	174.0	165.0	347.7	340.0	361.4	316.9	
Hardware	138.9	140 5	141.3	126.6	304.8	3 06.3	301.2	241.5	
Plumbers' supplies	118.5	121.8	124.9	104.1	232.7	230.1	238.3	175.5	
Stoves, oil burners, and			•	:		•	'		
heating equipment not								,	
elsewhere classified	136.2	136.6	136.1	112.6	283.1	279.4	276.8	206.3	
Steam and hot-water heating								,	
apparatus and steam fittings	158.6	161.4	166.5	152.4	324.0	315.6	327.0	271.2	
Stamped and enameled ware			•						
and galvanizing	148.9	150.9	152.8	131.4	325.8	329.1	323.5	252.1	
Fabricated structural and	!		<u> </u>	: 1					
ornamental metalwork	165.3	166.1	165.9	143.4	325.5	315.2	307.2	241.0	
Metal doors, sash, frames,				:					
molding, and trim	120.3	117.1	126.8	99.9	249.0	247.9	254.3	175.3	
Bolts, nuts, washers, and rivets	148.1	150.0	151.4	121.9	303.7	302.3	289.5	202.3	
Forgings, iron and steel	176.7	174.0	177.7	168.6	359.9	346.2	350.3	284.9	
Wrought pipe, welded and			, ,		•		;		
heavy-riveted	151.5	160.3	162.4	134.0	300.5	302.7	290.5	229.0	
Screw-machine products and									
wood screws	163.7	165.6	171.9	160.5	345.5	346.1	355.5	305.1	
Steel barrels, kegs, and drums	100.7	104.1	104.6	90.4	251.2	251.4	249.8		
Firearms 1/	283.3	282.8	287.0	252.7	616.9	604.5	594.6	494.3	
CECTRICAL MACHINERY	221.5	213.8	218.7	201.2	432.6	407.1	396 .6	347-9	
Electrical equipment	174.1	170.3	172.7	153.2	343.8	327.8	317 0	257.5	
Radios and phonographs	188.1	196 0	205.4	176.6	390.1	413.0	400.1	329.0	
Communication equipment				266.9					
* · · · · · · · · · · · · · · · · · · ·	1					J - / - J	3,7	.,	

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

	Em	ployme			Pay-roll in			
Industry group and industry		194	· · · · · · · · · · · · · · · · · · ·	1946	the same of the sa			1946
	June	May	Apr.	June	June	May	Apr.	June
MACHINERY, EXCEPT ELECTRICAL	224.2	225.9	226.6	198.6	434.6	429.5	423.0	342.0
Machinery and machine-shop	- 00 -	- 0 - 6					:	
products				171.8	,			296.4
Engines and turbines				218.5				415.5
Tractors	180.4	176.1	176.0	157.6	309.4	302.0	288.3	236.4
Agricultural machinery,	7.01. 0	200 (- 1			:	
excluding tractors				146.1	371.9	344.3	333.4	248.1
Machine tools	145.9	150.5	156.1	161.9	262.6	263.6	269.7	270.4
Machine-tool accessories	1/0.4	183.4	190.0	188.5				304.8
Textile machinery	176.1	175.3	172.6	146.5	367.1	363.7	351.8	265.5
Pumps and pumping equipment	242.0	243.3	245.8	225.5				416.1
Typewriters	777.	140.7	144.4	113.7	233.5	309.1	295.4	212.7
Cash registers, adding and	202 (: : 00/: 0						
calculating machines	191.6	200.9	205.7	167.9	394.2	417.3	415.5	309.0
Washing machines, wringers	700 (-11				•
and driers, domestic	198.6	193.9	190.1	144.0	404.2	392.7	377.5	238.7
Sewing machines, domestic	310 -	11- 6	: -1 <i> </i> -					
and industrial	149.5	147.6	146.7	121.2	319.4	300.8	296.0	226.1
Refrigerators and refrigeration	000 (1			1.			
equipment	222.6	211.4	207.4	163.3	427.5	394.5	387.9	263.2
		<u>:</u>	:		l			
TRANSPORTATION EQUIPMENT,	207 0	000 7	200 0	202 (-60			:
EXCEPT AUTOMOBILES	291.0	293.7	300.8	301.6	560.3	561.3	565.3	557.5
Locomotives	376.0	367.4	288 0	1,00 1	771, 7	757 0	705 1	01.0
	1310.0	JU1.4	300.0	409.1	114.1	151.0	105.4	840.2
Cars, electric- and steam- railroad	202 0	001.0	006 6	174.3	1.000			
	223.9	224.9	220.0	114.3	4(I.I	4 6 5.2	457.7	325.2
Aircraft and parts, excluding aircraft engines	227 1	21.0 1.	257 (63 6 6	Co		_	:
Aircraft engines		348.4			621.5	639.2	657.2	585.5
Shipbuilding and boatbuilding		303.4			481.5	477.0	487.6	469.4
Motorcycles, bicycles, and parts	100.5	202.7 183.6	20(.0	204.0	396.4	395.6	399.1	483.4
motor cycles, bicycles, and parts	190.5	103.0	104.0	147.1	381.8	363.1	349.0	250.2
AUTOMOBILES	196.2	186.5	200.5	172.3	355.9	329.0	343.4	259.9
SYCHETTER OLIC LEMMA T.C. ASSOCIATION							5.54.	-22.2
NONFERROUS METALS AND THEIR	155		- 01 0					:
PRODUCTS	175.1	179.6	184.8	164.9	346.2	349.0	354.0	298.6
Completing and martining antimorns								
Smelting and refining, primary, of nonferrous metals	1/13 0	າໄເລ ລ	1176	107.5	000 1	00= 1	<u> </u>	0
Alloying and rolling and	1770.3	±+)•2	141.0	101.5	292.4	205.4	202.7	190.8
drawing of nonferrous						:		
metals except aluminum	147.2	15h 0	158 8	11.7 2	070 7	000 1	001.	-60
Clocks and watches					279.7			
· · · · · · · · · · · · · · · · · · ·	134.6	132.9	130.0	T3T.0	299.5	296.0	299.1	259.1
Jewelry (precious metals) and jewelers' findings	771. 7	11= 0	110 ^	330 ~	03.0			
Silverware and plated ware	114.1	120 C	110.9		212.4	215.4	220.2	218.9
	1720.0	720.0	130.2	114.3	290.4	287.4	284.1	221.9
Lighting equipment Aluminum manufactures	152.0	106 T	170.0		289.4	295.5	283.6	233.3
	181.6	770.T	201.8	202.4	327.0	348.1	369.1	335.9
Sheet-metal work, not elsewhere classified	125 5	325 5	300 0		-0-		, ,	
See explanatory notes, sections A	135.5	±37.5 i	±30.2¦	132.1	282.0	278.7	274.6	249.5
	ر تد و ت و	, carrer c	1.					

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

	Employment indexes			Pay-roll indexe			 98	
Industry group and industry		1947		1946		1947		1946
7 5 1	June	May			June	May	Apr.	June
LUMBER AND TIMBER BASIC PRODUCTS		154,8			374.9	351.4	323.4	261.9
Sawmills and logging camps 2/ Planing and plywood mills 2/		167.5 159.4					350•5 333•9	
FURNITURE AND FINISHED LUMBER PRODUCTS	129.8	129.5	131.8	119.1	290.4	285,1	286.8	233•3
Mattresses and bedsprings 2/ Furniture 2/ Wooden boxes, other than cigar 2/ Caskets and other morticians:	145.7 127.6		144.8 128.9	128.9 117.9	284.7	278,9	281.7 282.2 298.4	229.9
goods 2/ Wood preserving 2/ Wood, turned and shaped 2/	148.0	138.8 144.7 124.0	144.6	122.4	389.1 271.9	385.9 274.5	273.5 370.3 289.6	275.2 243.9
STONE, CLAY, AND GLASS PRODUCTS	144.0	142.6	146.0	135.6	298.2	286.9	288.8	241.4
Glass and glassware 2/ Glass products made from				167.2			334.7	
purchased glass 2/ Cement 2/ Brick, tile, and terra cotta 2/ Pottery and related products 2/ Gypsum 2/	144.4 125.8 164.1	127.6 121.3 124.3 165.6 115.2	145.5 124.5 166.0	134.4	276.9 278.9 322.4	201.0 276.4 323.8	262.5 248.1 257.0 317.1 230.6	215.5 213.0 260.4
Wallboard, plaster (except gypsum), and mineral wool 2/Lime 2/Marble, granite, slate, and				128 . 9 91 . 5			310.4 231.5	
other products 2/ Abrasives 2/ Asbestos products 2/	242.2	250.4	253.7	89.6 241.0 120.6	413.8	440.6	166.7 442.6 301.4	399.1
Nondurable Goods TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	103.1	104.6	106.9	104.1	242.5	248.3	255.4	217.2
Cotton manufactures, except smallwares Cotton smallwares Silk and rayon goods Woolen and worsted manufactures,	92.8	98.8	102.8	113.0 105.9 76.6	195.8	212.6	221.5	
except dyeing and finishing Hosiery Knitted cloth Knitted outerwear and knitted	67.9	70.4	73.6	107.3 71.9 102.5	130,8	139.6	145.9	
gloves Knitted underwear Dyeing and finishing textiles,	98.5	97.4	98.4	111.2 91.6	232.4	232.1	228.3	189.7
including woolen and worsted Carpets and rugs, wool Hats, fur-felt Jute goods, except felts Cordage and twine	76.9 104.6	110.4 75.3 106.8	109.5 70.7 106.1	95.2 93.7 75.7 108.1 126.5	236.3 163.3 244.7	231.3 153.3 256.0	226.5 145.4 247.2	169.5 160.0

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

Industry group and industry	Employment indexes				Pay-roll indexes			
Turansor's Storb star Thousa.A	June			June	Tune		Apr.	
	i smre	ray	ADL .	o uno	Dane	May	npr.	O CLIC
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 2/	131.7	131.4	135.0	128.3	274.9	272.1	279.8	258.6
Men's clothing, not elsewhere								
classified		122.2					267.1	
Shirts, collars, and nightwear		98.9					227.3	
Underwear and neckwear, men's		102.4					256.8	
Work shirts	99.6	104.8	111.0	107.4	220.7	242.3	257.7	225.3
Women's clothing, not elsewhere classified	135 0	136.0	ון פון ו	130 Ji	261, 7	: :260 3	277.7	283 2
Corsets and allied garments		93.8					197.8	
Millinery		78.9					137.7	
Handkerchiefs	1		:	81.1	I	:	212,2	
Curtains, draperies, and	30.5	23.1	94.0	O.L	200.9	221.	- LLCOC	109.1
bedspreads Housefurnishings, other than	126.9	124.7	125.7	152.1	253.9	257.4	252.9	327.0
curtains, etc.	256.2	262.0	259.4	249.3	553.4	560.8	530.1	461.2
Textile bags		220.6					449.9	
LEATHER AND LEATHER PRODUCTS	99.8	99.4	103.0	103.8	211.5	207.0	214.6	204.9
Leather <u>2/</u> Boot and shoe c ut stock and	91.0	91.6	92.6	91.0	185.2	183.7	183.7	163.2
findings $\frac{2}{}$	90.1	91.7	07 3	102 7	172 0	170 0	179.2	186 7
Boots and shoes 2/		92.1					205.3	
Leather gloves and mittens 2/		120.3					227.1	
Trunks and suitcases 2/		145.8					312.7	
TOOD	320.2	106.0	105.0	7.00	0/5 0		01 - 7	
FOOD	130.3	120.0	125.0	120.9	267.0	252.8	243.1	208.2
Slaughtering and meat packing		118.9			241.2	231.9	211.6	167.4
Butter		139.1			293.1	274.3	257.2	257.9
Condensed and evaporated milk		154.5					308.5	
Ice cream	140.7	127.9	117.9	126.3	250.2	221.3	203.8	203.6
Flour		116.1					252.6	
Feeds, prepared Cereal preparations	127 6	1 つか ア	137 5	133.2			283.0 260.1	
Baking	107.2	106.5	107.2	101.5			195.4	
Sugar refining, cane		111.6					216.0	
Sugar, beet		50.8					79.6	
Confectionery	106.5	109.9	114.1	94.8			230.9	
Beverages, nonalcoholic		117.4					178.9	
Malt liquors		154.2			296.4	268.3	251.8	210.1
Canning and preserving	67.9	59.4	59.4	82.8	163.8	143.4	139.6	181.9
TOBACCO MANUFACTURES	90.2	88.4	87.5	92.1	194.8	182.8	181.6	184.1
Cigarattag	101 6	110 8	: 110 B	122.6	220 6	000 0	010 1	017 0
Cigarettes:				77.0			218.4 160.3	
Tobacco (chewing and smoking)	1701	16-1	12.0	11.0	100.0	±03.9	100.3	TO1.0
and snuff				79.3	147.7	125.7	139.4	135.7
See explanatory notes, sections A	, C, F,	and G	•			•	,	

Table 8. - Indexes of Freduction-Worker Employment and Pay Bolls in Manufacturing Industries - Continued

	Emp	oloymer	nt inde	xes		Pay-roll indexes			
Industry group and industry	Market and a second second second second	1.947		1946	June: May			1946	
	June	May	Apr.	June	Jung	May	apr.	June	
PAPER AND ALLIED PRODUCTS	143.6	143.7	145.0	138.8	299.6	2 92.6	290.9	247.0	
Paper and pulp Paper goods, other Envelopes Papor bags Faper boxes	125.1 124.6 130.8	125.2 125.8 134.3	124.6 126.1 125.9 139.5 129.7	123.4 120.4 128.9	244.9 241.9 271.9	259.0 250.1 240.2 270.4 249.9	247.5 238.8 274.9	218.1 210.4 233.9	
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	129.1	128.6	128.5	119.9	235.9	2 34.2	230,7	191.3	
Newspapers and periodicals 2/ Printing, book and job 2/ Lithographing 2/ Bookbinding 2/	137.8	137.2 124.6	117.9 138.1 124,5 144.7	130.1 116.4	258.1 216.6	209.3 255.4 216.1 320.2	255.2 21.9.9	215.8 186.2	
CHEMICALS AND ALLIED PRODUCTS	187.9	194.8	196.2	181.3	373.3	381.5	378.3	313.0	
Paints, varnishes, and colors Drugs, medicines, and insecticides Perfumes and cosmetics Soap Fayon and allied products	190.9 89.9	194,4 89.3 112.2	132.7 196.7 93.5 112.4 120.8	187.5 116.8 103.5	354.6 168.9 229.5	23 ⁴ .1 35 ⁸ .7 166.1 217.2 239.0	359.8 171.3 215.9	305.8 1.86.5 172.8	
Chemicals, not elsewhere classified Explosives and safety fuses Compressed and liquefied gases Ammunition, small-arms Fireworks Cottonseed oil Fertilizers	190.9 157.1 163.4 247.6 65.2	191.8 153.9 161.7 253.5 72.3	180.1 192.1 152.6 157.6 243.8 85.3 146.2	168.7 146.2 178.0 282.9 59.4	341.1 205.0 358.9 685.3 169.0	334.9 333.8 268.4 351.7 686.6 184.7 365.0	310.6 265.9 336.4 715.6 208.8	265.9 239.4 331.3 708.5 126.8	
PRODUCTS OF PETROLEUM AND COAL	150.8	149.3	145.4	1州.5	286.2	275.7	265.2	242.5	
Petroleum refining Coke and byproducts Paving materials Roofing materials	123.2	121.4	134.0 119.2 76.3 152.7	113.9 85,4	256.2 159.0	243.8 248.0 147.6 336.3	230.6 144.2	194.7 168.3	

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

	Emp	oloymer	nt ind	exes	Pay-roll indexes			
Industry group and industry	. 1947			1946	1947 : 194			1946
	June	May	Apr.	June	Juno	May	Apr.	June
RUBBER PRODUCTS	180.4	184.2	193,5	182.9	363.4	371.2	383. 9	331.4
Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	121.3	188.7 129.7 132.9	134.8		269.5	282.0	357.2 283.7 296.6	244.8
MISCELLANEOUS INDUSTRIES	174.4	176.3	179.8	170.8	355.4	356.6	361.0	318.4
Instruments (professional and scientific), and fire-control equipment Photographic apparatus Optical instruments and ophthalmic goods Pianos, organs, and parts Games, toys, and dolls	151.3 173.7 139.8	175.6 149.2 177.6 139.1 127.5	147.6 179.9 139.7	141.6 183.0 118.0	280.7 331.2 298.3	275.2 331.2 300.2	327.5 271.4 324.2 293.8 275.0	233.3 314.2 220.4
Buttons Fire extinguishers	74.7	78.2 203.6	82.8	93.5	162.4	167.7	178.4 380.5	203.0

- 1/ Revisions have been made as follows in the indexes for earlier months:
 Firearms January and February 1947 pay roll to 573.5 and 584.2.
- 2/ Indexes for the individual industries comprising the major industry group or industry noted 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 releases dated prior to:

Group	Mimeographed releases	Monthly Labor Review
Furniture and finished lumber products Lumber and timber basic products Leather and leather products Stone, clay, and glass products Printing, publishing, and allied industries	June 1947 July 1947 July 1947 August 1947 August 1947	July 1947 August 1947 August 1947 September 1947 September 1947

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

(1939 Average = 100)

	Emp	loymen	t inde	xes	<u> </u>	Pay-roll indexes			
Industry group and industry		1947		1946	1	1947		1946	
	June	May	Apr:	. June	June	May	Apr.	June	
MINING:					:				
Coal: Anthracite Bituminous Coal Metal Iron Copper Lead and zinc Gold and silver Miscellaneous Quarrying and nonmetallic Crude petroleum production 1/	88.7 90.7 147.2 102.8 102.9 30.6 58.0 105.7	88.1 89.4 143.8 100.2 102.9 31.4 56.5	83.0 89.6 141.3 101.5 104.4 31.9 57.0 103.1	74.4 132.8 61.8 94.7 28.8 58.4	252.3 181.5 309.4 213.0 228.1 49.5 100.3 251.3	244.6 172.1 284.7 201.8 223.3 49.3 95.8 241.7	189.8 164.7 254.1 197.3 224.7 50.5 92.1 233.2	106.8 180.5 41.6 95.5	
TRANSPORTATION AND PUBLIC UTILITIES: Class I steam railways 2/ Street railways and busses Telephone Telegraph Electric light and power	139.3 130.4 190.4 102.3	130.7 159.2 102.8	136.1 130.9 127.2 104.5 104.8	128.7 171.7 112.1	292.5 218.8	3/ 220.0 202.9 226.9 168.2	136.1 239.3	259.9 174.9	
TRADE: Wholesale Retail Food General merchandise Apparel Furniture and housefurnishings Automotive Lumber and building materials	111.4 113.7 120.5 114.9 85.1 100.6	111.3 113.9 121.2 114.3 84.6 99.4	110.5 111.5 113.7 122.9 114.7 84.6 98.7 116.3	107.2 103.5 121.0 114.3 77.6 91.3	201.2 212.1 217.4 207.2 156.6 184.3	191.4 195.1 206.0 212.3 200.8 151.1 177.7 210.2	192.9 202.8 210.4 200.7 148.1 175.2	171.3 170.0 188.8 186.9 126.6	
SERVICE:		•							
Hotels (year-round) 4/ Power laundries Cleaning and dyeing	112.2	110.2	117.5 109.1 121.5	112.3	211.1	221.1 203.8 231.5	200.5	190.9	

- 1/ Does not include well drilling or rig building.
- 2/ Source: Interstate Commerce Commission.
- 3/ Not available.
- 4/ 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. <u>Sources of Benchmark Data</u> 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 reports. This estimate is more consistent with the estimating procedure used for other industry divisions. In addition, federal force account construction employment has been transferred from the construction segment to government.

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

Sec. D. How Employment Estimates Are Made - Estimates of changes in the level of employment are based on reports from a sample group of establishments, inasmuch as full coverage is prohibitively costly and time-consuming. In using a sample, it is essential that an accurate base be established from which estimates may be carried forward. This base or "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 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 Statistics sample after they have been in operation for some time. This lapse of time produce 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 industr divisions was unavoidably postponed for several years. Consequently, the most recent revision corrects for the downward bias that had accumulated in the nonmanufacturing series since 1941. Revisions in some industry divisions have been carried back to 1939 in order to incorporate greater refinements in methodology and new source materials that have become available. For example, improved data on the small firm component of the trade and service industries, supplied by the Bureau of Old Age and Survivors Insurance, made possible refinements in these series back to 1939.

- Sec. E. Comparability With Other Types of Employment Data The Bureau of Labor Statistics employment estimates are based upon reports submitted by cooperative stablishments and therefore differ from employment information obtained by household interviews, such as the Monthly Report of the Labor Force. The Bureau of Labo Statistics estimates of employment in nonagricultural establishments differ from the Monthly Report of the Labor Force total nonagricultural employment estimates in several important respects. For example: (1) The Bureau of Labor Statistics estimates cover all full- and part-time wage and salary workers in nonagricultural 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	Cave	rage	of	\mathbb{B} LS	Employment
and	Pav	Roll	s	Sampl	.e

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				
Public Utilities	7,000	832,000	75				
Wholesale Trade	11,400	326,000	20				
Retail Trade	45,000	1,300,000	25				
Hotels (year-round) Power laundries and	1,300	137,000	35				
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, are available upon request to the cooperating state agency or the appropriate Bureau of Labor Statistics regional office.

Cooperating State Agencies

Arizona - Employment Security Commission, P. O. Box Ill, 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.

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. Faul 1.

Montana - Unemployment Compensation Commission of Montana, Helena.

Nevada - Employment Security Department, Carson City.

New Jersey - Dept. of Labor, Trenton 8.

New York - Division of Research, Statistics and Publications, New York State Dept. of Labor, Albany 1.

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.

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. Wicsonsin - Industrial Commission of Wisconsin, Madison 3.

BLS Regional Offices

Region I - Regional Director, U.S. Bureau of Labor Statistics, Old South Bldg., 294 Washington St., Boston 8, Massachusetts (Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont.)

Region II - Regional Director, U.S. Bureau of Labor Statistics, 1000 Parcel Post Bldg., 341 Ninth Avenue, New York 1, New York (Delaware, District of Columbia, Maryland, Pennsylvania, New York, New Jersey.)

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

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

Region XIII - 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.)

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.
- Defense Agencies 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 1st 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, 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 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 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 morths 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, including 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 are 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 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 earned and paid regularly each pay period.
- Production workers Includes working foremen and all nonsupervisory workers (including lead men and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing shipping, maintenance, repair, janitorial, watchman services, 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.

- Service Covers establishments primarily engaged in rendering services to individuals and business firms. Excludes automobile repair services, gevernment ewned and operated hespitals, museums, etc., and domestic service.
- Trade Covers establishments engaged in whelesale 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 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 carner See production workers.
- Washington, D. C. Data for the executive branch of the federal Government also include areas in Maryland and Virginia which are within the metropolitan area, as defined by the Bureau of the Census.