EMPLOYMENT and PAY ROLLS

DETAILED REPORT AUGUST 1947

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

EMPLOYMENT AND PAY ROLLS

Detailed Report

August 1947

Explanatory notes outlining briefly the concepts, methodology, and sources used in preparing data for this report appear in the appendix. See pages i - vii,

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

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

Industry division		19147	1946		
Industry division	Aug.	July	Ju n e	Aug.	Ju l y
TOTAL	42,547	42 ,17 5	42,363	41,466	40,877
Manufacturing	15,537	15,209	15,328	14,876	14,526
Mining	895	864	893	886	873
Contract construction	1,890	1,847	1,768	1,713	1,627
Transportation and public utilities	4,145	4,140	4,115	4,103	4,051
Trade	8,571	8,558	8,582	8,402	8,337
Finance	1,602	1,590	1,567	1,554	1,549
Service	4,619	4,686	4,711	4,430	4,426
Federal, State, and local government	5,288	5,281	5,399	5,502	5,488

See explanatory notes, sections Λ - H

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

The state of the s		1947		194	
Major industry group	Aug.	July	June	Aug.	July
ALL MANUFACTURING	15,537	15,209	15,328	14,876	14,526
Durable goods	7,781	7,694	7,863	7,486	7,307
Iron and steel and their products Electrical machinery Machinery, except electrical Transportation equipment,	1,854	1,826	1,839	1,751	1,704
	733	729	746	713	695
	1,516	1,494	1,528	1,411	1,385
except automobiles Automobiles Nonferrous metals and their	514	5 17	583	607	618
	949	970	967	925	89 ¹ 4
products Lumber and timber basic products Furniture and finished lumber	459	452	467	473.	457
	745	724	730	643	620
products Stone, clay, and glass products	519	503	5 10	482	469
	492	479	493	483	465
Nondurable goods	7,756	7,515	7,465	7,390	7,219
Textile-mill products and other fiber manufactures	1,287	1,273	1,293	1,296	1,281
Apparel and other finished textile products Leather and leather products Food Tobacco manufactures Paper and allied products	1,283	1,196	1,195	1,170	1,121
	401	390	387	395	396
	1,737	1,638	1,557	1,579	1,512
	99	97	97	99	98
	461	454	462	447	442
Printing, publishing, and allied industries Chemicals and allied products Products of petroleum and coal Rubber products Miscellaneous industries	698	693	692	660	656
	737	73 3	726	692	685
	235	235	231	223	221
	269	265	272	274	264
	549	5 ¹ 41	553	555	5 ¹ 43

See explanatory notes, sections ${\tt A}$ - ${\tt H}$

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

1. /	n unousar	103)	and the second respect of the second control	and which there is a supplication of the suppl	
			(to		
19	47	August	19	947	August
August	July	1946	August	July	1946
Mary control of the state of th					
2,067,2 2,026,1 923.1 442,3 660.7 7.2 3.4 30.5	2,103.2 2,062.3 936.6 439.6 636.1 7.2 3.1 50.6	2,625.1 2,581.9 1,470.6 424.3 687.0 6.8 3.0 33.4	\$473, 307 464,029 207, 330 90, 621 166,078 2,421 1,259 5,598	\$508,506 498,956 220,406 96,591 181,959 2,483 1,329 5,738	\$568,811 559,734 291,914 95,873 171,947 2,158 1,141 5,778
Y	Freeholder				
1,815.9	1,848.5	2,249.1	433, 245	465,272	531,587
1,782.4	1,315,2	2,213.5	424,594	456,356	523,242
708.7	718.5	1,129,4	174,846	185,148	261,826
440.8	438.1	422.9	90,313	96,260	95,572
632,9	1	661.2	159,435	174,948	165,844
1	7.3	6.7	2,421	2,483	2,158
3.3	3,0	3,0	1,223	1,292	1,106
23,0	23.0	25.9	5,007	5,141	5,081
		· 			
223,7	230,3	259,5	60,767	65,091	65,659
17.8	17.6	17.4	3,184	3,382	3,007
205.9	212.7	242.1	57,583	61,709	62,652
198.1	204.8	234,8	54,963	59,016	60,294
65.1	67.9	86.9	17, 380	18,632	21,007
7,3	7.1	7.0	3,207	2,296	2,262
125,7	129.8	140.3	35, 376	38,088	37,025
7.2	7 3	6.7	2,421	2,483	2,158
.6	.6	.6	199	210	200
	2,067,2 2,026,1 923.1 442,3 660,7 7.2 3,4 30.5 1,815.9 1,782.4 708.7 440.8 632.9 7.2 3.3 23.0 223.7 17.8 205.9 198.1 65.1 7.3 125.7 7.2	######################################	August July 1946 2,067,2 2,103,2 2,625.1 2,026,1 2,062,3 936,6 442,3 660,7 636.1 687.0 7.2 7.2 7.2 6.8 3.4 3.1 3.0 30.5 50.6 33.4 1,815.9 1,848.5 2,249.1 1,732.4 1,915.2 7,18.5 1,129.4 440.8 438.1 422.9 632.9 658.6 661.2 7.2 7.3 6.7 3.3 3.0 3.0 23.0 25.9 223.7 230.3 259.5 17.8 17.6 17.4 205.9 212.7 242.1 198.1 204.8 234.8 65.1 67.9 36.9 7.3 7.1 7.6 125.7 129.8 140.3 7.2 7.3 6.7	Pimployment	Employment (as of first of month) 1947

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

(In thousands) Average monthly personnel 1947 August and total annual pay Personnel and pay 1946 July August 1939 1943 Personnel, total as of first of month including those on active duty and those on terminal leave 1,575 1,592 2,745 345 192 972 990 1,815 Army 765 1,744 124 492 491 Navy 142 311 19 Marine Corps 92 93 10 23 156 Coast Guard 19 18 8,833 1,556 1,571 2,697 19 21 48 111 Women Pay, total \$338,134 \$542,920 \$11,173,186 \$331,523 \$334,551 192,873 200,522 301,243 8,143,833 155,482 Army 143,238 117,557 114,774 205,094 2,408,736 Na**vy** 16,877 Marine Corps 17,899 16,332 30,812 392,140 Coast Guard 6,222 6,506 5,771 228,477 15,926 Pay rolls 2/ 397,383 250,015 259,172 10,140,852 331,523 Mustering-out pay ... 10,498 12,790 104,937

Family allowances

Leave payments

Bonds

Cash

23,579

50,459

45,628

4,831

23,922

42,250

3,718

38,532

40,583

17

17

1,032,334

^{1/} Data not available.

^{2/} Includes cash payments for clothing-allowances balances to Navy proper and Coast Guard personnel in July.

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

Region and State		1947		1)46
vegion and peace	July	June	May	July	June
New England Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	1,480 111 77.6 39.2 706 141 405	108 79.3	1,525 108 78.7 39.4 734 148 417	1,495 116 77.2 40.6 728 142 391	1,512 114 79.3 40.5 741 145 392
Middle Atlantic New York New Jersey Pennsylvania	3,980 *1,788 720 1,472	4,073 *1,841 745 1,487	** ** 727 1,494	4,045 1,867 733 1,445	** ** 736 1,424
East North Central Ohio Indiana Illinois Michigan Wisconsin	4,461 1,232 551 1,229 997 452	1,244 553	4,427 1,239 550 1,232 980 426	4,255 1,172 511 1,166 982 424	4,164 1,161 512 1,160 943 388
West North Central Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	848 205 147 353 7.0 11.8 43.7 80.7	11.5 43.1	11.3 42.5	797 194 136 334 5.9 9.8 41.5 76.1	10.3 42.0
South Atlantic Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	1,491 45.2 217 17.4 208 131 365 191 240 76.0	224	45.4 229 17.1	1,493 45.4 238 16.1 200 128 360 180 252 73.9	234 16.1

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

Region and State		1947		1946		
	July	June	May	July	June	
East South Central	680	683	682	657	643	
Kentucky	122	124	124	125	123	
Tennessee	246	245	246	240	235	
Alabama	221	224	223	208	202	
Mississippi	91.4	90.9	88.5	83.7	83.4	
West South Central Arkensas Louisiana Oklahoma Texas	602	602	585	558	556	
	71.9	71.5	71.4	65.6	65.5	
	141	139	137	132	133	
	53.8	53.5	53.0	52.5	52.8	
	335	339	324	308	305	
Mountain Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	157 18.4 20.8 6.7 55.9 10.1 12.7 28.6	151 17.8 20.1 6.3 54.6 9.9 13.2 24.9 3.8	147 17.1 19.2 6.1 53.8 10.0 13.1 23.6 3.6	146 16.5 22.2 6.0 52.6 10.5 12.3 25.7 3.2	135 15.7 20.8 5.7 50.0 10.1 11.1 19.0 3.0	
Pacific Washington Oregon California	996	987	978	999	954	
	176	179	168	176	171	
	117	119	117	121	118	
	703	689	693	701	665	

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.

^{**} Not available.

		1947	1946		
Industry group and industry	Aug.	July	June	Aug.	Jul7
ALL MANUTACTURING	12,596	12,276	12,404	12,101	11,767
Durable goods Nondurable goods	6,391 ₁ 6,202	6,309 5,967	6,488 5,916	6,160 5,941	5,984 5,783
Durable Goods				1	
IRON AND STEEL AND THEIR PRODUCTS	1,572	1,547	1,562	1,490	1,445
Blast furnaces, steel works, and rolling mills Gray-iron and semisteel castings Malleable-iron castings Steel castings Cact-iron pipe and fittings Tin cans and other tinware Wire drawn from purchased rods Wirework Cutlery and edge tools Tools (except edge tools, machine	502.9 84.1 26.4 48.6 20.5 47.1 30.5 39.9 23.1	83.7 25.1 47.6 20.2 43.9 30.3	85.3 26.5 48.7 20.4 42.4 30.7 39.6	50.2 16.9 44.4 29.1	80.7 23.6 50.2 18.3 43.4 28.7 36.5
tools, files, and saws) Hardware Plumbers' supplies Stoves, oil burners, and heating	24.1 47.4 28.6	48.2	25.2 49.5 29.0	_	
equipment not elsewhere classified Steam and hot-water heating	64.4			56.8	
apparatus and steam fittings Stamped and enameled ware and galvanizing	\$5.5 83.2	44.8 81.4		48.0 79.0	47.7 75.4
Fabricated structural and ornamental metalwork	59.6	58.5	58.7	55.5	53.2
Metal doors, sash, frames, molding, and trim Belts, nuts, washers, and rivets Forgings, iron and steel	10.1 21.1 25.9	9.4 20.7		9.8 18.7	8.8 17.6
Wrought pipe, welded and heavy- riveted Screw-machine products and wood	12.6	12.4	12.7	12.8	11.5
screws Stoel barrels, kegs, and drums Firearms	26.2 6.2 13.6	6.2	5.1	6.4	5.8
ELECTRICAL MACHINERY	559	557	574	545	526
Electrical equipment Radios and phonographs Communication equipment	305.7 80.3 77.3	77.6	81.8	290.7 82.8 86.4	

See explanatory notes, section Λ , C, and G.

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Table 6. - Estimated Number of Froduction Workers in Manufacturing Industries - Cont.

(In thousands)

Industry group and industry		1947 Aug. July June		i	46
	Aug.	July	June	Aug.	July
MACHINERY, EXCEPT ELECTRICAL	1,174	1,152	1,185	1,092	1,066
Machinery and machine-shop products	376.0	373.3	381.8	356.6	351.5
Engines and turbines	43.3	43.0	43.1	44.9	43.5
Tractors Agricultural machinery, excluding	55.7	56.8	56.9	52.8	52.4
tractors	50.5	49.0	51.4	40.7	40.8
Machine tools	51.9	50.1	53.4	61.3	59.2
Machine-tool accessories	42.4	42.0	44.9	49.1	47.5
Textile machinery	35.9	36.1	38.7	32.7	31.7
Pumps and pumping equipment	55.7	56.4	58.6	56.9	54.6
Typewriters		16.2	18.1	19.4	18.2
V ***	25.3	10.2	TO * T	19.4	10.2
Cash registers, adding and	1,00	25.0	207.07	22.0	22 -
calculating machines	40.2	37.2	37.7	33.2	33.5
Washing machines, wringers and	j	a 1	71.0		
driers, domestic	14.7	14.5	14.8	11.5	10.3
Sewing machines, domestic and					
industrial	9.4	11.9	10.7	9.7	9.8
Refrigerators and refrigeration	1.				
equipment	77.8	76.4	78.3	60,5	59.2
DANCOODMATON TOTITONOM TAXOTOD					
RANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	200	205	1.60	1.60	1.00
AOLOMORITED	392	395	463	468	476
Locomotives	24.2	23.7	24.3	26.8	26.2
Cars, electric- and steam-railroad	54.1	55.1	54.9	46.6	45.5
Aircraft and parts, excluding	1))°±	71.0	10.0	.,,,,
aircraft engines	130.7	129.3	133.9	134.2	128.6
Aircraft engines	26.7	26.8	26.9	27.5	26.5
Shipbuilding and boatbuilding	84.0	87.3	140.4	158.3	173.9
Motorcycles, bicycles, and parts	13.4		:	10.6	10.4
		13.0	13.3		
UTOMOBILES	770	785	789	755	725
ONFERROUS METALS AND THEIR PRODUCTS	392	385	401.	1406	392
Smelting and refining, primary, of			:		
nonferrous metals	39.4	40,4	40.1	36.9	35.4
Alloying and rolling and drawing					
of nonferrous metals except		<u>:</u>			
aluminum	53.0	53.8	57.1	61.1	59.5
Clocks and watches	26.9	24.5	27.3	27.5	26.1
Jewelry (precious metals) and			, ,		
jewelers' findings	16.6	16.0	16.5	17.4	16.7
Silverware and plated ware	16.2	15.5	15.9	14.2	
Lighting equipment	29.4	30.5	31.1	30.1	29.1
Aluminum manufactures	41.9	39.7	42.8	49.4	48.6
Sheet-metal work, not elsewhere	71.7	22.1	72.0	77.4	40.0
classified	25.7	05.0	05 h	26.2	05.0
CTSSTITED	25.7	25.0	25.4	20.2	25.0

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

	omoundin	•	1946		
Industry group and industry	Aug.	1947 July	June	Aug.	July
LUMBER AND TIMBER BASIC PRODUCTS 1/	679	658	665	584	561
Sawmills and logging camps Planing and plywood mills	551.5 127.6	531.3 126.5	534.7 128.6	472.5 111.6	454.1 107.1
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	h33	419	426	405	3 92
Mattresses and bedsprings Furniture Wooden boxes, other than cigar Caskets and other morticians' goods Wood preserving Wood, turned and shaped	31.5 230.3 35.5 19.0 18.9 31.5	28.5 223.9 35.1 18.9 18.8 30.2	29.9 227.0 36.2 19.2 18.6 30.2	28.7 217.3 33.4 17.2 16.4 30.2	
STONE, CLAY, AND GLASS PRODUCTS 1/	423	411	423	415	401
Glass and glassware Glass products made from	118.2	113.1	120.3	122.3	118.2
purchased glass Cement Brick, tile, and terra cotta Pottery and related products Gypsum	11.9 36.8 74.1 56.1 6.1	12.2 35.7 73.3 54.3 6.1	12.4 35.3 73.0 55.5 6.0	12.0 34.9 70.7 52.6 5.8	11.5 33.8 69.6 50.9 5.5
Wallboard, plaster (except gypsum), and mineral wool Lime	11.8 9.1	11.5 9.2	11.2 9.3	10.9 8.9	8.8 8.8
Marble, granite, slate, and other products Abrasives Asbestos products	18.4 15.9 20.4	16.8 17.0 19.3	16.5 18.7 20.7	17.3 19.1 20.1	16.9 18.8 19.3
Nondurable Goods					
TEXTILE MILL PRODUCTS AND OTHER FIBER MANUFACTURES	1,172	1,158	1 ,17 9	1,189	1 ,1 75
Cotton manufactures, except smallwares Cotton smallwares Silk and rayon goods Woolen and worsted manufactures,	445.7 11.8 90.3	:	•	14.1	13.7
except dyeing and finishing Hosiery Knitted cloth Knitted outerwear and knitted gloves Knitted underwear	146.5 111.2 9.4 24.4 39.1	109 . 2 9.0	108.0 9.1 24.2	114.1 11.2 29.7	113.3 11.1 30.0
Dyeing and finishing textiles, including woolen and worsted Carpets and rugs, wool Hats, fur-felt Jute goods, except felts Cordage and twine	62.2 28.8 11.1 2.6 13.2	i		63.8 24.2 9.0 3.7 14.9	23.7 10.7 3.8

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

	1	1947		1	946
Industry group and industry	Aug.	July	June	Aug.	July
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS $\underline{\mathbf{t}}/$	1,125	1,040	1,040	1,030	983
Men's clothing, not elsewhere classified Shirts, collars, and nightwear Underwear and neckwear, men's Work shirts Women's clothing, not elsewhere	294.7 75.1 16.5 15.2	278.2 71.7 15.3 14.0	284.5 74.3 16.8 14.4	265.6 65.1 16.9 14.8	25 7.7 64.8 15.9 15.0
classified Corsets and allied garments Millinery Handkerchiefs Curtains, draperies, and bedspreads Housefurnishings, other than curtains, etc. Textile bags	440.9 17.5 23.6 4.6 27.8 29.5 27.2	401.8 16.9 20.5 4.2 23.6 26.6 26.8	389.1 17.7 20.2 4.6 22.5 28.6 27.1	402.1 15.7 23.7 4.2 27.7 29.3 27.0	371.1 15.4 21.1 4.0 27.4 27.8 28.3
LEATHER AND LEATHER PRODUCTS 1/	360	349	346	356	357
Leather Boot and shoe cut stock and findings Boots and shoes Leather gloves and mittens Trunks and suitcases	46.0 19.2 223.4 12.8 12.8	45.4 18.8 216.8 11.9 11.7	45.5 18.0 214.4 12.1 12.2	20.7 217.3 14.0 14.8	44.0 20.1 219.4 14.2 14.4
FOOD	1,299	1,203	1,114	1,184	1,119
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	150.8 25.1 15.1 21.8 30.7 23.2 10.6 252.1 16.6 8.7 54.8 32.8 62.9 206.7	61.3	22.6 9.5 247.4 16.3 5.9 53.0 26.7 58.6		28.3 21.7 9.5 234.0 14.2 4.7 46.0 25.7 52.0
TOBACCO MANUFACTURES	85	84	84	86	85
Cigarettes Cigars Tobacco (chewing and smoking)	32.9 39.3	32.9		33.6 38.7	33.6
and snuff	7.0	6.9	6 . 8	7.7	7.6

12.
Table 6. - Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry		19 ⁾ :7	19	46	
industry group and industry	Aug.	July	June	Aug.	July
PAPER AND ALLIED PRODUCTS 1/	380	3 73	3 81	3 69	365
Paper and pulp Paper goods, other Envelopes Paper bags Paper boxes	196.5 56.8 11.8 18.0 95.6	194.2 56.5 11.6 17.8 92.6	194.7 57.9 11.9 18.2 97.0	186.7 55.5 11.1 17.4 97.8	184.6 54.6 11.0 17.5 96.0
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES 1/	426	422	42 3	3 99	397
Newspapers and periodicals Printing, book and job Lithographing Bookbinding	143.4 175.7 32.6 38.4	142.2 176.4 31.5 37.0	142.0 175.8 32.4 37.5	131.1 168.6 31.1 34.5	130.1 169.2 30.8 33.7
CHEMICALS AND ALLIED PRODUCTS	5 5 1	547	543	520	51 6
Paints, varnishes, and colors Drugs, medicines, and insecticides Perfumes and cosmetics Soap Rayon and allied products Chemicals, not elsewhere	36.2 50.9 9.4 15.4 58.0	35√9 51.3 9.0 15.4 58.0	37.0 52.3 9.3 15.6 50.0	35.9 51.7 12.6 14.1 57.3	35.6 51.4 12.6 14.0 57.0
classified Explosives and safety fuses Compressed and liquefied gases Ammunition, small-arms Fireworks Cottonseed oil Fertilizers	124.6 13.8 6.3 6.8 2.0 10.9 21.5	125.8 12.8 6.2 6.8 2.4 9.7 20.4	126.7 13.8 6.3 7.0 2.9 9.9 21.5	117.2 12.6 5.9 4.9 2.9 10.8 20.9	117.2 12.3 5.8 7.6 2.8 8.4 19.3
PRODUCTS OF PETROLEUM AND COAL	1 63	163	160	156	1 55
Petroleum refining Coke and byproducts Paving materials Roofing materials	103.0 27.1 2.3 13.1	103.0 27.1 1.9 13.1	101.4 26.7 1.8 12.7	100.1 25.8 2.2 12.2	100.1 25.6 2.1 12.0

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

Industry group and industry		1947	1946		
Industry group and industry	Aug.	July	June	Aug.	July
RUBBER PRODUCTS 1/	216	212	219	223	214
Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	117.5 18.8 79.2	115.1 20.0 76.8	117.7 21.4 79.5	118.0 20.9 83.7	113.5 20.3 80.2
AISCELLANEOUS INDUSTRIES	425	416	427	429	417
Instruments (professional and scientific), and fire-control equipment	19.1	19.2	19.6	21,2	21.2
Photographic apparatus Optical instruments and ophthalmic	26.5	26.7	26.1	25.4	25.2
goods	19.1	19.4	20.2	21.2	21.1
Pianos, organs, and parts	9.9	10.4	10.6	9.4	9.1
Games, toys, and dolls	26.8	25.1	24.3	22.8	20.8
Buttons	7.9	7.5	8.2	10.6	10.1
Fire extinguishers	2.0	2.0	2.1	2.1	2.0

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

Major industry group	Mimeographed release	Montly Labor Review		
Stone, clay, and glass products Printing, publishing, and allied	August 1947	September 1947		
industries Paper and allied products	August 1947 September 1947	September 1947 October 1947		
Rubber products	September 1947	October 1947		

Table 7. - Estimated Employment in Selected Nonmanufacturing Industries

Industry group and industry 1/		1947		19	+6
Industry group and industry 1/	Aug.	July	June	Aug.	July
MINING: 2/					
Coal: Anthracite Bituminous coal Metal Iron Copper Lead and zinc Gold and silver Miscellaneous	67.4 327 79.0 29.9 24.2 14.8 7.8 2.3	29.8 24.3 14.6 7.7	29.6 24.3 16.0 7.6	28.8 21.2 13.8	27.4 20.4 11.5
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railways 3/ Street railways and busses 4/ Telephone Telegraph 5/ Electric light and power	1,382 253 616 37.8 269	254 6 1 4	1,375 253 605 38.5 263	2 5 2 575	1,350 250 565 42.3 247
SERVICE:					
Hotels (year-round) Power laundries 2/ Cleaning and dyeing 2/	379 6/ 6/	38 3 6/ <u>6</u> /	385 6/ <u>6</u> /	385 6/ 6/	384 6/ <u>6</u> /
GOVERNMENT:		•			
Federal 7/ State and local			1,886 3,513	2,230 3,272	2,248 3,240

See explanatory notes, section G.

- 1/ Includes all employees unless otherwise noted.
- 2/ Includes production and related workers only.
- 3/ Includes all employees at middle of month. Excludes employees of switching and terminal companies. Class I steam railways include those with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.
- 4/ Includes private and municipal street railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.
- 5/ Includes all land line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.
- 6/ The change in definition from "wage earner" to "production worker" in the power laundries and cleaning and dyeing industries results in the omission of driver-salesmen. This causes a significant difference in the data. New series are being prepared.
- 2/ Continental United States only. Excludes fourth-class postmasters.

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

	Emp1		index		Pa		index	es
Industry group and industry		1947		1946		1947		1916
	Aug.	July	June	Aug.	Aug.	July	June	AUE
ALL MANUFACTURING	153.8	149.9	151.4	147.7	322.4	313.9	319.6	284.4
Durable goods Nordurable goods			179.7 129.1		357.2 288.4	350.4 278.1	365.9 274.2	316.1 253.4
Durable Goods								
CRON AND STEEL AND THEIR PRODUCTS	158.5	156.1	157.5	150.2	314.4	304.4	316.1	2 65. 9
Blast furnaces, steel works, and rolling mills Gray-iron and semisteel castings Malleable-iron castings Steel castings Cast-iron pipe and fittings Tin cans and other tinware Wire draws from purchased rods Wirework Cutlery and edge tools Tools (except edge tools, machine tools, files, and saws) Hardware Plumbers' supplies Stoves, oil burners, and	143.9 146.3 161.5 124.0 148.1 138.6 131.4 149.5 157.5	143.3 139.1 158.1 122.2 138.1 137.7 130.4 138.4 154.5 135.2	128.0 146.9 161.7 123.7 133.4 139.9 130.3 151.4 164.6 138.9 117.8	139.6 153.6 166.9 102.2 139.9 132.3 130.1 166.5	303.3 312.5 313.2 281.5 331.1 251.5 268.8 329.6 325.9 287.9	313.7 314.9 315.1 292.3 294.7 238.1 270.8 311.1 315.0 296.6	247.0 326.3 329.2 321.8 310.7 263.7 270.3 350.0 347.7 304.8 231.7	280.5 282.6 294.8 208.6 270.1 219.2 256.5 354.9 326.2 257.3
heating equipment not elsewhere classified Steam and hot-water heating	139.6	133 .7	136.6	123.0	280.9	274 .9	282.6	234.3
apparatus and steam fittings Stamped and enameled ware				158.2			321.0	
and galvamizing Fabricated structural and	}		148.9		327.6	3 18. 6	325.8	2 79. 9
ornamental metalwork Metal doors, sash, frames,			165.3				325.5	
molding, and trim Bolts, nuts, washers, and rivets Forgings, iron and steel Wrought pipe, welded and	147.7	144,4	120.3 148.1 176.7	130.6	291.3	281.5	249.0 303.7 359.9	227.7
heavy-riveted Screw-machine products and	150.7	148.1	151.5	153.4	291.3	297.7	300.5	270.7
wood screws Steel barrels, kegs, and drums Firearms	101.5	102.2	163.7 100.7 283.3	106.0	251.6	251.6	345.5 251.2 616.9	227.4
ELECTRICAL MACHINERY	215.6	215.0	221.5	210.5	420.3	422.3	432.6	378.9
Electrical equipment Radios and phonographs Communication equipment	184.7	178.3	174.1 188.1 251.9	190.3	385.0	386.4	343.8 390.1 445.0	369.8

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

T3	Employment indexes				Pay-roll indexes			
Industry group and industry	7	1947		1946	1	1947		1946
Control minimates and additional additional and additional additional additional additional and additional additiona	Aug.	Jury	June	Aug.			June	
MACHINERY, EXCEPT ELECTRICAL	222.2	217.9	224.2	206.6	426.7	420.7	434.6	362.2
Machinery and machine-shop		. 61	- 00 -		-6		000	071.0
products				176.2	360.2	356.1	367.9	314.2
Engines and turbines				240.9			502.7	
Tractors	178.0	-81.7	181.9	168.7	303.1	312.9	310.2	250.5
Agricultural machinery,	- 02 6		201 0	21.6 1	250 7	267 5	2077	050 6
excluding tractors			184.9				371.9	
Machine tools			145.9				262.6	
Machine-tool accessories			178.4				305.4	
Textile machinery				149.2			370.9	
Pumps and pumping equipment			242.0				494.4	
Typewriters	1720.0	100.1	TTT • (119.5	321.0	200.2	233.5	220.2
Cash registers, adding and	201 2	100 0	101 6	168.9	100 7	286 5	394.2	202 8
calculating machines	204.5	TOO. 0	191.0	100.9	420.1	300.5	394.2	292.0
Washing machines, wringers	107 0	102 6	108 6	153.8	280 2	201 7	404.2	260 5
and driers, domestic	19(.0	193.0	190.0	193.0	302.3	227.1	404.2	209.
Sewing machines, domestic and industrial	110 2	757 1	126 1	123.2	251 7	207 B	297.4	228 0
Refrigerators and refrigeration	1773.3	171.4	120.1	752.5	2)1.1	251.0	291.4	230.9
equipment	221 2	217 1	222 6	172.1	ا بارارا	ד פכול	427.5	288 3
edarbmenc	ع.مل.م	CT(.4	222.0	14604	1404.1	466.1	46(0)	200.2
TRANSPORTATION EQUIPMENT,								
EXCEPT AUTOMOBILES	247.2	248.9	291.8	294.7	482.1	483.0	560.3	553.1
_	200	266.2	200	1 2 1 0	i		•	
Locomotives	373.3	366.0	376.0	414.0	806.6	757.2	774.7	826.8
Cars, electric- and steam-	000 5	001 0			1	100 -		-6
railroad	220.5	224.8	223.9	190.1	434.2	482.1	471.1	362.0
Aircraft and parts, excluding	200 2	206 0	227	220 2	627 6	600 1	621.5	<i>(</i>), 0
aircraft engines Aircraft engines			337.4 302.5				481.5	
Shipbuilding and boatbuilding				228.6			394.3	
Motorcycles, bicycles, and parts			190.8				383.6	
motorcycles, breyeres, and parts	172.6	100.0	190.0	172.1	1	212.4	303.0	-1- · -
AUTOMOBILES	191.3	195.0	196.2	187.8	340.1	348.8	357.0	319.0
NONFERROUS METALS AND THEIR								
PRODUCTS	3770 0	160 0	3000	100 0	220 0	206 6	21.6	201. 0
TRODUCTO	110.9	100.2	175.1	177. 3	332.9	320.0	340.2	324.2
Smelting and refining, primary,							• •	-
of nonferrous metals	142.4	146.3	145.0	133.6	288.6	296.5	296.3	239.5
Alloying and rolling and								- 37 - 7
drawing of nonferrous								
metals except aluminum	136.5	138.6	147.2	157.4	249.0	260.1	279.7	283.0
Clocks and watches		: -		135.5			299.5	
Jewelry (precious metals)							,,,	
and jewelers' findings	114.8	111.0	114.1	120.6	210.1	194.5	212.4	221.1
Silverware and plated ware				117.2			290.4	
Lighting equipment				146.8			289.4	
Aluminum manufactures			181.6				327.0	
Sheet-metal work, not elsewhere							- '	
classified	137.0	133.2	135.5	139.5	287.5	276.2	282.0	269.0

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

	Emplo	yment	indexe	s	Pay	-roll	indexe	s
Industry group and industry		1947		1946		1947		1946
gan a recognisión contra a contra de anticológica de contra del contra de contra del contra de contra de contra de c	Aug.	July	June	Aug.	Aug.	July	June	Aug.
LUMBER AND TIMBER BASIC PRODUCTS 1/	161.5	156.5	158.2	139.0	3 87.3	359.8	374.9	284.0
Sawmills and logging camps Planing and plywood mills			170.5 162.6			397.4 345.1		
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	131.9	127.8	129.8	123.4	293.3	281.4	290.4	250.0
Mattresses and bedsprings Furniture Wooden boxes, other than cigar Caskets and other morticians'	129.4 125.4	125.9 123.8	145.7 127.6 127.6	122.2 118.0	284.7 305.4	287.3 274.4 301.8	284.7 313.4	246 .7 26 0. 3
goods Wood preserving	150.6	149.4	138.1 147.9	130.5	408.0	260.6 392.7	391.2	300.1
Wood, turned and shaped	1		122.9		1	268.5		
STONE, CLAY, AND GLASS PRODUCTS 1/	ĺ	į	<u> </u>	141.6		285.9		
Glass and glassware Glass products made from	165.7	158.5	168.6	171.4	334.1	312.8	341.1	294.3
purchased glass Cement Brick, tile, and terra cotta Pottery and related products Gypsum Wallboard, plaster (except	151.1 127.7 165.9	146.5 126.3 160.4	124.3 145.0 125.8 164.1 121.7	143.4 121.8 155.6	297.0 284.9 33 0. 4		278.9 278.9 322.4	243.1
gypsum), and mineral wool Lime Marble, granite slate, and				134.1 93.7		333.6 230.4		279 .7 2 1 6.5
other products Abrasives Asbestos products	205.6	220.0	242.2	93.4 246.5 126.3	352.2	386.0	413.8	154.8 406.2 270.0
Nondurable Goods						÷		
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	102.5	101.2	103.1	104.0	239.8	237.5	242.5	229.4
Cotton manufactures, except smallwares Cotton smallwares Silk and rayon goods Woolen and worsted manufactures,	88.9	88.9	92.8	114.2 105.8 77.2	186.4	191.4	195.8	275.5 220.3 181.4
except dyeing and finishing Hosiery Knitted cloth Knitted outerwear and knitted	69.9	68.7	67.9	104.4 71.7 102.4	144.4	135.3	130.8	234.1 141.3 213.1
gloves Knitted underwear				105.8 91.2				220 .1 196.1
Dyeing and finishing textiles, including woolen and worsted Carpets and rugs, wool Hats, fur-felt Jute goods, except felts Cordage and twine See explanatory notes, sections A, C	112.4 76.4 73.5 109.4	73.9 101.3 109.0	111.2 76.9 104.6	95.4 94.7 61.8 103.7 122.8	231.3 148.5 152.2	239.3 147.6 218.4	236.3 163.3 244.7	187.6 173.0 137.9 225.8 255.9

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

Industry group and industry APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 1/		1.947	index	1946	Pay-rol		
APPAREL AND OTHER FINISHED	Aug.	July					1946
			June	Aug.	Aug. July	June	Aug.
	142.5	131.7	131.7	130.5	303.2 278.	9 274.9	272.5
Men's clothing, not elsewhere classified Shirts, collars, and nightwear	101.6	96.9	123.9 100.5	88.1	264.8 260. 225.5 2 1 9.	3 229.0	185.3
Underwear and neckwear, men's Work shirts Women's clothing, not elsewhere classified	107.8	99.1	99.2 102.1	104.9	238.7 233. 256.3 241.	+ 237.5	227.9
Corsets and allied garments Millinery Handkerchiefs	93.4 92.6	90.1 80.4	135.9 94.2 79.3 90.8	83.8 92.7	324.4 284. 192.3 187. 170.8 146. 210.6 196.	4 2 <mark>00.</mark> 4 9 128.4	161.2 166.2
Curtains, draperies, and bedspreads Housefurnishings, other than				155.9	340.5 290.		
curtains, etc. Textile bags	264.3 216.0	238.5 212.5	256.2 214.6	262.1 214.1	571.0 494. 442.6 437.		
LEATHER AND LEATHER PRODUCTS 1/	_	•	99.8	1	220.4 214.	•	•
Leather Boot and shoe cut stock and findings Boots and shoes Leather gloves and mittens Trunks and suitcases	96.3 96.7 128.1	94.4 93.9 118.9	91.0 90.1 92.9 121.0 147.0	103.5 94.1	189.8 187. 189.8 182. 209.9 204. 246.7 227. 309.4 277.	4 172.9 8 201.7 2 226.9	194.0 188.1 270.2
FOOD	152.0	140.8	130.3	138.6	313.9 290.	8 267.8	254.3
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	139.7 155.9 138.7 123.8 150.6 142.1 109.3 117.3 83.4 110.2 154.2	143.4 161.8 141.6 123.6 149.5 136.3 108.7 117.3 64.0 101.1 138.6 169.8	142.3 162.1 140.7 119.0 146.8 127.6 107.2 115.3 56.7 106.5 125.8 162.5	114.8 145.8 154.9 128.8 118.9 145.7 134.8 102.7 98.8 65.6 98.0 120.6 145.2 153.5	249.6 260. 291.9 289. 332.3 351. 257.5 256. 296.2 284. 315.9 318. 314.1 287. 208.2 208. 252.7 244. 173.4 120. 231.1 209. 275.3 239. 338.4 324. 434.8 265.	7 293.1 4 354.7 3 250.2 4 264.2 9 313.1 4 253.9 2 203.9 7 250.7 6 109.2 3 225.7 2 210.6 7 296.4	265.0 293.2 215.7 238.6 275.2 244.4 184.1 162.5 108.6 186.6 185.0 232.3
TOBACCO MANUFACTURES	91.6	89.8	90.2	91.7	203.0 200.	0 194.8	186,2
Cigarettes Cigars Tobacco (chewing and smoking) and snuff	77.3	74.5	74.7	12 2. 6 76.1 83.6	173.5 163.		

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

	Emplo	yment	index	98	Pay-roll indexes			
Industry group and industry		1947	**** ******	1946		1947		12946
	Aug.	July	June	Aug.	Aug.	July	June	Aug.
PAPER AND ALLIED PRODUCTS 1	143.0	140.7	143.4	139.2	300.6	298.7	298.0	256.5
Paper and pulp Paper goods, other Envelopes Paper bags Paper boxes	142.6 150.4 136.0 161.8 137.9	149.7 132.7 160.5	153.6 136.6 164.0	147.2 127.7 156.6	291.5 258.8 342.2	296.0 250.7 343.2	302.1 301.8 265.2 340.9 283.8	259.6 222.2 290.1
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES 1/	129.8	128.8	129.1	121.6	235.5	233.6	235.9	198.1
Newspapers and periodicals Printing, book and job Lithographing Bookbinding	120.8 137.7 124.0 148.9	138.2	137.8 123.3	132.1 118.6	254.8 213.3	258.9 207.4	210.0 258.1 216.6 324.7	222.4 193.2
CHEMICALS AND ALLIED PRODUCTS	191.1	189.8	188.5	180.5	383.6	378 .7	373-3	320.0
Paints, varnishes, and colors Drugs, medicines, and insecticides Perfumes and cosmetics Soap Rayon and allied products Chemicals, not elsewhere classified	128.6 1 185.6 1 90.3 113.5 1 120.1 1	187.2 87.1 113.1 120.1	190.9 89.9 114.7 103.6	188.7 121.4 103.8 118.7	362.5 163.6 234.9 239.9	347.6 159.3 223.3 238.2 341.8	233.9 354.6 168.9 233.2 205.3 338.9	313.7 191.8 171.7 206.2 288.0
Explosives and safety fuses Compressed and liquefied gases Ammunition, small-arms Fireworks Cottonseed oil Fertilizers	150.0 1 160.2 1 158.7 1 175.2 2 71.9	156.4 159.4 205.3 63.6	159.6 163.4 247.6 65.2	173.1 148.1 115.6 254.7 71.0	353.4 283.5 349.7 441.6 185.4	324.9 277.3 355.7 528.1 162.1	341.1 284.7 358.9 685.3 169.0 301.8	272.6 247.2 201.4 623.1 158.8
PRODUCTS OF PETROLEUM AND COAL	154.1 1	153.7	150.8	147.4	297.2	295.6	286.2	253.1
Petroleum refining Coke and byproducts Paving materials Roofing materials	141.5 1 125.0 1 93.5 162.7	125.1 79.2	123.2 73 . 8	119.1 91.7	26 3. 6 197.6	248.3 169.5	253.8 256.2 159.0 339.5	218.2

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

	Empl	oyment	index	es	Pay-roll indexes			
Industry group and industry	1947			1946	1947 1			1946
	Aug.	July	June	Aug.	Aug.	July	June	Aug.
RUBBER PRODUCTS 1/	178.2	175.2	180.7	184.0	357.0	352.7	361.9	336.9
Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	126.5	212.3 134.4 148.0	143.9	140.6	267.6	289.1	396.1 317.1 320.1	278.3
MISCELLANEOUS INDUSTRIES	173.5	170.2	174.4	175.1	347.5	341.5	355.4	329.3
Instruments (professional and scientific), and fire-control equipment	172.3	173 .3	177 .6	191.3	325.1	323.1	335.1	330.4
Photographic apparatus Optical instruments and				146.8			280.7	
ophthalmic goods Pianos, organs, and parts	130.4	167.2 136.7	139.8	122.9	266.9	286.6	33 1. 2 29 8. 3	230.8
Games, toys, and dolls Buttons Fire extinguishers	72.3	134.7 68.0	74.9	96.3	156.7	149.1	282.9 163.3 420.0	208.6

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

Major industry group	Mimeographed release	Monthly Labor Review
Stone, clay, and glass products Printing, publishing and allied industries Paper and allied products Rubber products	August 1947 August 1947 September 1947 September 1947	September 1947 September 1947 October 1947 October 1947

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

(1939 Average = 100)

***************************************	Employment indexes				Pay-roll indexes			
Industry group and industry		1947		1.946		1947		1946
	Aug.	July	June	Aug.	Aug.	July	June	Aug.
INING:								* * * * * * * * * * * * * * * * * * *
Coal: Anthracite Bituminous coal Metal Iron Copper Lead and zinc Gold and silver Miscellaneous Quarrying and nonmetallic Crude petroleum production 1/	88.1 89.5 148.3 101.7 95.1 31.6 58.3 106.3	81.8 89.1 148.0 101.8 93.8 31.1 57.6	88.7 90.4 147.2 101.8 102.9 30.6 58.0 105.7	139.3 88.8 89.0 29.1	267.0 179.4 305.3 217.0 207.8 51.7 105.3 259.6	171.8 194.9 171.9 295.4 209.6 198.0 46.8 99.1 251.2 173.9	252.3 181.8 309.4 214.1 228.1 49.5 100.3 251.3	241.0 145.2 253.5 164.1 172.1 43.5 103.5 225.1
RANSPORTATION AND PUBLIC UTILITIES:		•						
Class I steam railways 2/ Street railways and busses Telephone Telegraph Electric light and power	130.7 193.8 100.5	140.0 130.9 193.3 101.5 109.3	130.4 190.4 102.3	130.2 181.1	306.2 213.5	3/ 222.1 302.2 215.2 178.4	222.1 292.5 218.8	211.2 267.6 178.5
TRADE: 4/								
Wholesale Retail Food General merchandise Apparel Furniture and housefurnishings Automotive Lumber and building materials	109.3 111.5 115.7 103.4 85.8 105.1		111.4 113.7 120.6 115.0 85.1 100.6	106.6 103.6 117.4 105.9	197.7 212.2 212.0 183.4 155.4 188.5	213.8 214.1 192.5 156.1 184.8	201.6 212.1 218.9 207.4 157.4 184.3	174.6 177.2 188.1 176.2
SERVICE:								
Hotels (year-round) 5/ Power laundries Cleaning and dyeing	110.2	112.8	112.2	119.3 111.6 124.5	203.9	210.3	211.1	208.9 188.4 216.9

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

Includes nonsupervisory workers and working supervisors only.

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

^{1/} Does not include well drilling or rig but 2/ Source: Interstate Commerce Commission.
3/ Not available.
4/ Includes nonsupervisory workers and work 5/ Money payments only; additional value of Does not include well drilling or rig building.

EXPLANATORY NOTES

- Sec. A. Revisions of Employment Estimates The employment estimates shown in this report for the industry divisions (e.g., mining, manufacturing, etc.) and industry groups (e.g., iron and steel, electrical machinery, etc.) have been adjusted to levels indicated by final 1945 benchmark data and supersede data shown in mimeographed releases dated prior to April 1947 and in the Monthly Labor Review dated prior to May 1947.
- Sec. B. Sources of Benchmark Data The chief purpose of recent revisions, published in the February 1947 DETAILED REPORT, is to adjust the levels of employment estimates to 1945 benchmark data. In preparing estimates for employment prior to 1939, the various industrial censuses taken by the Bureau of the Census were used as sources of benchmark data. Data obtained from unemployment compensation agencies and the Bureau of Old Age and Survivors Insurance are the main bases for 1945 benchmarks, although there are some important exceptions. Benchmarks for State and local government, for example, are based on data compiled by the Bureau of the Census, while data on Federal Government employment are made available by the U. S. Civil Service Commission. The Interstate Commerce Commission is the source for railroads, and the U. S. Maritime Commission for water transportation.
- Sec. C. Scope of Employment Revisions Recent revisions also include a new type of estimate for employment in construction based upon establishment 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 Intest 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 Lawer 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, complete reports of employment are available.

Why Revisions are Necessary - Because reports are not immediately available from new firms, they are frequently introduced into the Bureau of Labor Statistics sample after they have been in operation for some time. This lapse of time produces a rather consistent understatement which becomes larger from year to year. It is important, therefore, that estimates not be allowed to go uncorrected for too long a period. During the war period adjustment of many of the nonmanufacturing industry divisions was unavoidably postponed for several years. Consequently, the most recent revision corrects for the downward bias that had accumulated in the nonmanufacturing series since 1941. Revisions in some industry divisions have been carried back to 1939 in order to incorporate greater refinements in methodology and new source materials that have become available. For example, improved data on the small firm component of the trade and service industries, supplied by the Bureau of Old Age and Survivors Insurance, made possible refinements in these series back to 1939.

Sec. E. Comparability With Other Types of Employment Data - The Bureau of Labor Statistics employment estimates are based upon reports submitted by cooperating establishments and therefore differ from employment information obtained by household interviews, such as the Monthly Report of the Labor Force. The Bureau of Labor Statistics estimates of employment in nonagricultural establishments differ from the Monthly Report of the Labor Force total nonagricultural employment estimates in several important respects. For example: (1) The Bureau of Labor Statistics estimates cover all full- and part-time wage and salary workers in non-agricultural establishments who worked or received pay during the pay period ending nearest the 15th of the month. Persons who worked in more than one establishment during the reporting period would be counted more than once; (2) Proprietors, self-employed persons, domestic servants, and unpaid family workers are excluded.

Sec. F. Pay Roll Indexes - Cooperating establishments are instructed to report pay rolls of production or nonsupervisory workers prior to deduction for old age and unemployment insurance, withholding taxes, bonds, and union dues. Pay for sick leave, holidays, and vacations taken is included. Respondents are instructed to exclude pay for vacations not taken as well as cash estimates of any payments in kind. Bonuses, unless earned and paid regularly each pay period, are also excluded

The methodology for obtaining pay roll estimates is similar to that for employment estimates. Sample changes showing monthly movements are used in projecting established benchmarks to secure current pay roll estimates. These pay roll estimates are converted into indexes, using the 1939 average as a base.

Sec. G. Source of Data - Employment and pay roll estimates are based on reports from cooperating establishments. Excluding the block-sample returns, the approximate number of establishments, and workers covered, for each of the industry divisions are shown below.

Approximate	Cove	rage (of	BLS	Employment
and	Pav	Rolls	3 5	IomaS	.e

Industry Division	Number of	Employees or production workers						
	Establishments	Number	: Fercent of Total					
Manufacturing	33,000	7,500,000	. 6 0					
Mining	2,700	354,000	40					
Contract Construction	12,500	325,000	18					
Public Utilities	7,000	833,000	75					
Trade:								
Wholesale	11,400	326,000	20					
Retail	45,000	1,300,000	25					
Service:								
Hotels (year-round)	1,300	137,000	35					
Power laundries and	•	•						
cleaning and dyeing	1,700	74,000	20					

Sec. H. Coverage of Employment Estimates - The employment estimates shown in Tables 1, 2, 3, and 5 cover all full- and part-time wage and salary workers who worked or received pay during the pay period ending nearest the 15th of the month. Proprietors, self-employed persons, domestic servants, and personnel of the armed forces are excluded. Production worker estimates as shown in Tables 6 and 8 are limited to working foremen and all nonsupervisory workers except administrative, office, and sales personnel.

Sec. I. State Estimates - State estimates are prepared in cooperation with various State Agencies, as indicated below. The estimates for manufacturing have been adjusted to recent data made available under the Federal Social Security program. Since some states have adjusted to more recent benchmark data than others, and because varying methods of computation are used, the total of the state estimates differs from the national total (see Table 1). Because of these recent revisions the state estimates for manufacturing are not consistent with the unrevised data previously shown for total employment in nonagricultural establishments, by state. Comparable series of manufacturing estimates for each state, January 1943 to date, and also for nonagricultural employment by state, through December 1946, are available upon request to the cooperating state agency or the appropriate 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. Box 111, Phoenix.

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

Connecticut - Employment Security Division, Hartford 15.

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

Florida - Florida Industrial Commission, Tallahassee.

Georgia - Employment Security Administration, Atlanta 3.

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

Indiana - Employment Security Division, Indianapolis 12.

Kansas - Kansas State Labor Department, Topeka.

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

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

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

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

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

Montana - Unemployment Compensation Commission of Montana, Helena.

Nevada - Employment Security Department, Carson City.

New Jersey - Dept. of Labor, Trenton 8.

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

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

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

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

Dept. of Labor and Industry, Harrisburg. (Nonmanufacturing)

Rhode Island - Dept. of Labor, Division of Census and Statistics, Providence 2.

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

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

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

Washington - Office of Unemployment Compensation and Placement, P.O. Box 367, Olympia Wisconsin - Industrial Commission of Wisconsin, Madison 3.

BLS Regional Offices

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

North Atlantic - Regional Director, U. S. Bureau of Labor Statistics, 1000 Parcel Post Bldg., 341 Ninth Avenue, New York 1, New York (Delaware, Pennsylvania, New Jersey, New York)

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

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

Pacific-Rocky Mountain - Regional Director, U. S. Bureau of Labor Statistics, 546
Federal Office Bldg., San Francisco 2, California (Arizona,
California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon,
Utah, Washington, Wyoming)

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.
- 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. Fourth-class postmasters are included under the executive branch in table 4, 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; (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.
- Finance Covers establishments operating in the fields of finance, insurance, and real estate; excludes the Federal Reserve District Banks and the mixed ownership banks of the Farm Credit Administration.
- Government Covers Federal, State, and local governmental establishments performing legislative, administrative, and judicial functions, as well as all government owned and operated establishments and institutions (arsenals, navy yards, hospitals, Federal Reserve 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 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 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. 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 Cover personnel on active duty or on terminal leave. Goast 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.
- Mining Covers establishments engaged in the extraction from the earth of organic and inorganic minerals which occur in nature as solids. liquids, or gases; includes various contract services required in mining operations, such as removal of overburden, tunnelling and shafting, and the drilling or acidizing of oil wells; also includes ore dressing, beneficiating, and concentration.
- denagricultural 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 nonsupervisory employees and working supervisors 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 trainers) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial, watchman services, product development, auxilliary production for plant's own use (e.g., power plant), and record keeping and other services closely associated with the above production operations. Excludes supervisory employees (above the working foreman level) and their clerical staffs, routemen, salesmen, and other groups of nonproduction workers defined below under wage and salary workers.

- <u>Service</u> Covers establishments primarily engaged in rendering services to individuals and business firms. Excludes automobile repair services, government owned and operated hospitals, museums, etc., and domestic service.
- Trade Covers establishments engaged in wholesale trade, i.e., selling merchandise to retailers, and in retail trade, i.e., selling merchandise for personal or household consumption, and rendering services incidental to the sale of goods. Includes auto repair services.
- Transportation and public utilities Covers only privately 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.