

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
JUNE 1948**

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

Prepared by
Division of Employment and Occupational Outlook
Branch of Employment Statistics
Samuel Weiss, Chief

EMPLOYMENT AND PAY ROLLS

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Explanatory notes outlining briefly the concepts, methodology, and sources used in preparing data for this report appear in the appendix. See pages 1 - viii.

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

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

(In thousands)

Industry division	1948			1947	
	June	May	April	June	May
TOTAL	45,046	44,626	44,299	43,816	43,345
Manufacturing	16,161	15,904	15,950	15,672	15,569
Mining	948	933	817	919	910
Contract construction	2,164	2,052	1,933	1,957	1,865
Transportation and public utilities	4,106	4,042	3,974	4,129	3,981
Trade	9,671	9,617	9,576	9,324	9,277
Finance	1,726	1,716	1,704	1,650	1,643
Service	4,663	4,738	4,768	4,711	4,590
Government	5,607	5,624	5,577	5,454	5,510

See explanatory notes, sections A - E, and the glossary for definitions.

^{1/} Estimates have been adjusted to levels indicated by Federal Security Agency data through 1946. The estimates have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Table 2. - Estimated Number of Wage and Salary Workers
in Manufacturing Industries, by Major Industry Group ^{1/}

(In thousands)

Major industry group	1948			1947	
	June	May	April	June	May
ALL MANUFACTURING	16,161	15,904	15,950	15,672	15,569
<u>Durable goods</u>	8,131	8,114	8,164	8,050	7,962
Iron and steel and their products	1,906	1,894	1,897	1,871	1,861
Electrical machinery	725	727	742	759	731
Machinery, except electrical	1,586	1,568	1,562	1,558	1,561
Transportation equipment, except automobiles	560	565	589	594	598
Automobiles	923	964	979	939	899
Nonferrous metals and their products	467	467	475	475	486
Lumber and timber basic products	880	851	833	798	780
Furniture and finished lumber products	550	548	561	541	537
Stone, clay, and glass products	534	530	526	515	509
<u>Nondurable goods</u>	8,030	7,790	7,786	7,622	7,607
Textile-mill products and other fiber manufactures	1,418	1,416	1,425	1,325	1,342
Apparel and other finished textile products	1,263	1,247	1,268	1,141	1,137
Leather and leather products	419	405	418	414	411
Food	1,828	1,620	1,562	1,666	1,622
Tobacco manufactures	98	97	99	97	96
Paper and allied products	476	476	476	470	470
Printing, publishing, and allied industries	720	719	718	705	703
Chemicals and allied products	757	759	767	748	761
Products of petroleum and coal	246	242	238	235	232
Rubber products	243	243	246	257	262
Miscellaneous industries	562	566	569	564	571

See explanatory notes, sections A - H, and the glossary for definitions.

^{1/} Estimates have been adjusted to levels indicated by Federal Security Agency data through 1946. The estimates have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Table 3. - Estimated Number of Wage and Salary Workers
in Selected Nonmanufacturing Industries, by Major Industry Group

(In thousands)

Major industry group	1948			1947	
	June	May	April	June	May
Mining <u>1/</u>	948	933	817	919	910
Anthracite	82	81	82	80	81
Bituminous coal	424	421	309	409	407
Metal	104	102	103	103	102
Quarrying and nonmetallic	97	95	93	98	97
Crude petroleum and natural gas production <u>2/</u>	241	234	230	229	223
Transportation and public utilities <u>1/</u>	4,106	4,042	3,974	4,129	3,981
Transportation	2,861	2,809	2,744	2,934	2,901
Communication	734	731	731	712	605
Other public utilities	511	502	499	483	475
Government	5,607	5,624	5,577	5,454	5,510
Federal	1,804	1,788	1,771	1,886	1,905
State and local	3,803	3,836	3,806	3,568	3,605

See explanatory notes, sections A - H, and the glossary for definitions.

1/ Estimates have been adjusted to levels indicated by Federal Security Agency data through 1946. The estimates have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

2/ Includes well drilling and rig building.

Table 4. - Federal Civilian Employment and Pay Rolls in All Areas and in Continental United States, and Total Civilian Government Employment and Pay Rolls in Washington, D. C. 1/

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(In thousands)

Area and branch	Employment (as of first of month)				Pay rolls (total for month)			
	1946		1947		1948		1947	
	June	May	April	June	June	May	April	June
<u>Total (including areas outside United States)</u>								
Total Federal	2,054.0	2,039.0	2,020.8	2,168.9	\$498,813	\$474,705	\$477,580	\$508,378
Executive	2,014.4	1,999.2	1,981.0	2,127.7	489,182	465,356	463,100	499,154
Defense agencies	916.9	909.9	903.8	995.2	216,910	205,912	204,606	234,576
Post Office Dept.	458.2	455.7	449.3	437.3	102,691	100,925	100,894	93,505
Other agencies	639.3	633.6	627.9	694.2	169,581	158,519	162,600	171,073
Legislative	7.3	7.3	7.2	7.2	2,546	2,469	2,480	2,425
Judicial	3.5	3.5	3.5	3.1	1,263	1,207	1,322	1,149
Government corporations	28.8	29.0	29.1	30.9	5,821	5,673	5,678	5,650
<u>Continental United States</u>								
Total Federal	1,824.0	1,808.8	1,791.8	1,905.1	\$457,335	\$434,637	\$439,652	\$463,490
Executive	1,791.5	1,776.1	1,759.1	1,871.9	448,423	426,011	430,845	454,930
Defense agencies	724.7	717.1	711.0	769.3	184,433	174,209	174,409	197,216
Post Office Dept.	456.6	454.1	447.7	435.8	102,341	100,570	100,543	93,185
Other agencies	610.2	604.9	600.4	666.8	161,649	151,232	155,893	164,529
Legislative	7.3	7.3	7.2	7.2	2,546	2,469	2,480	2,425
Judicial	3.4	3.4	3.4	3.0	1,263	1,174	1,268	1,114
Government corporations	21.8	22.0	22.1	23.0	5,103	4,983	5,039	5,021
<u>Washington, D. C.</u>								
Total government	229.3	228.9	227.6	237.9	\$ 67,234	\$ 63,492	\$ 62,985	\$ 63,454
District of Columbia government	18.6	18.7	18.6	18.5	4,550	4,422	4,495	4,203
Federal	210.7	210.2	209.0	219.4	62,684	59,070	58,490	59,251
Executive	202.8	202.3	201.2	211.6	59,931	56,400	55,799	56,630
Defense agencies	67.6	67.2	66.6	71.2	19,316	18,045	16,324	17,837
Post Office Dept.	7.4	7.4	7.4	7.3	2,265	2,234	2,277	2,421
Other agencies	127.8	127.7	127.2	133.1	38,350	36,121	37,198	36,372
Legislative	7.3	7.3	7.2	7.2	2,546	2,469	2,480	2,425
Judicial	.6	.6	.6	.6	207	201	211	196

1/ Data for Central Intelligence Agency are excluded starting August 1947 for employment and July 1947 for pay rolls.

See glossary for definitions.

Table 5. - Personnel and Pay of the Military Branch of the Federal Government

(In thousands)

Personnel and pay	1948			1947	
	June	May	April	June	May
Personnel, total.....	1,439	<u>1/</u> 1,419	<u>1/</u> 1,417	1,632	1,703
Army and Air Force.....	<u>2/</u> 930	<u>2/</u> 916	<u>2/</u> 906	1,021	1,082
Navy.....	407	<u>1/</u> 403	<u>1/</u> 412	496	501
Marine Corps.....	82	80	79	94	99
Coast Guard.....	20	20	20	21	21
Men.....	1,423	<u>1/</u> 1,403	<u>1/</u> 1,401	1,609	1,680
Women.....	16	16	16	23	23
Pay, total.....	\$278,956	\$278,967	\$285,210	\$335,391	\$369,947
<u>By branch:</u>					
Army and Air Force.....	173,955	176,651	172,859	203,764	232,480
Navy.....	87,087	84,136	93,351	109,047	113,983
Marine Corps.....	13,575	13,973	14,131	17,272	17,540
Coast Guard.....	4,339	4,207	4,869	5,308	5,944
<u>By type of pay:</u>					
Pay rolls.....	244,999	242,292	247,452	262,505	263,701
Mustering-out pay.....	5,779	9,057	9,751	12,465	15,022
Family allowances.....	26,280	25,736	25,414	24,459	25,814
Leave payments.....	1,898	1,882	2,593	35,962	65,410
Cash.....	495	486	639	3,697	6,293
Bonds.....	1,403	1,396	1,954	32,265	59,117

See glossary for definitions.

- 1/ Revised to include naval reserves on active duty, paid from reserve appropriations. Earlier months similarly revised as follows:

Year and month		Personnel, total	Navy	Men
1947	Dec.	1,463	445	1,446
1948	Jan.	1,422	421	1,405
1948	Feb.	1,419	414	1,402
1948	Mar.	1,422	413	1,406

- 2/ Air Force personnel, 368,000 in April, 375,000 in May, and 384,000 in June 1948.

Table 6. - Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States

(In thousands)

State	1948			1947	
	May	April	March	May	April
Connecticut	767	772	772	770	768
Illinois	3,126	3,110	3,144	3,104	3,094
Indiana	1,193	1,178	1,189	1,184	1,182
Maine	259	253	261	252	250
Maryland	698	686	685	671	658
Massachusetts	1,711	1,701	1,711	1,691	1,695
Minnesota	781	767	761	760	748
Montana	136	135	133	133	131
Nevada <u>1/</u>	49	49	49	50	49
New Jersey	1,575	1,568	1,563	1,532	1,541
New York	5,385	5,380	5,400	5,387	5,335
Pennsylvania	3,577	3,521	3,582	3,520	3,506
Rhode Island	287	288	289	284	286
Texas	1,693	1,685	1,663	1,614	1,611
Utah	174	166	170	171	166
Vermont <u>1/</u>	94	94	94	94	95
Washington	641	659	653	657	654
Wisconsin	977	973	974	953	946

See explanatory notes, sections H and I.

1/ Does not include contract construction.

Table 7. - Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State

(In thousands)

Region and state	1948			1947	
	May	April	March	May	April
New England:					
Maine 1/	108.2	106.7	115.2	106.8	107.2
New Hampshire	81.6	82.6	84.4	78.7	81.1
Vermont 1/	37.8	38.1	38.7	38.7	40.6
Massachusetts	724.4	729.7	745.7	734.3	749.9
Rhode Island	147.0	149.9	153.6	147.7	150.6
Connecticut 1/	401.1	406.4	412.5	415.0	419.9
Middle Atlantic:					
New York	1,829.0	1,850.4	1,902.6	1,858.0	1,893.4
New Jersey	740.0	746.0	753.7	727.0	738.5
Pennsylvania	1,487.1	1,495.3	1,512.2	1,494.6	1,507.8
East North Central:					
Ohio	1,220.9	1,230.7	1,244.0	1,238.7	1,254.6
Indiana	541.1	540.0	552.8	550.1	554.4
Illinois	1,203.5	1,198.0	1,253.5	1,232.0	1,248.2
Michigan	998.5	1,002.7	970.7	980.3	1,035.4
Wisconsin 1/	420.0	426.3	432.5	423.5	427.1
West North Central:					
Minnesota	190.2	188.0	197.3	193.5	195.1
Iowa	133.7	132.1	148.8	145.0	146.6
Missouri	353.8	355.8	361.4	351.3	355.9
North Dakota	6.7	6.4	6.3	6.7	6.5
South Dakota	11.3	11.3	11.0	11.3	11.5
Nebraska	36.1	34.9	42.4	42.5	41.9
Kansas	77.0	73.3	77.6	79.5	79.3
South Atlantic:					
Delaware	45.7	46.5	46.5	45.4	44.9
Maryland	228.5	228.2	228.9	228.9	230.7
District of Columbia	17.2	17.4	17.1	17.1	17.2
Virginia	210.4	212.8	213.7	209.4	209.2
West Virginia	132.3	131.9	130.9	131.5	133.0
North Carolina	381.4	382.6	385.8	366.4	372.9
South Carolina	199.3	199.3	200.5	188.7	189.7
Georgia	252.0	252.4	257.3	249.7	253.9
Florida 1/	93.2	96.5	99.4	88.9	94.9

Table 7. - Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State - Continued

(In thousands)

Region and State	1948			1947	
	May	April	March	May	April
East South Central:					
Kentucky	126.1	128.2	129.5	123.9	130.7
Tennessee	250.8	251.5	252.8	245.7	249.2
Alabama <u>1/</u>	228.0	227.3	231.8	222.8	225.2
Mississippi	88.1	88.6	90.0	88.5	90.4
West South Central:					
Arkansas <u>1/</u>	75.1	74.8	74.3	74.7	74.1
Louisiana	137.4	138.3	137.2	136.6	135.2
Oklahoma	56.5	56.3	55.0	53.0	54.1
Texas	341.7	338.7	337.1	324.8	325.9
Mountain:					
Montana	17.1	17.1	17.2	17.1	16.6
Idaho	18.7	17.9	17.8	19.2	18.4
Wyoming	6.5	6.3	6.2	6.1	5.9
Colorado	54.5	55.4	55.5	53.8	54.1
New Mexico <u>1/</u>	9.3	8.8	8.3	9.1	9.3
Arizona <u>1/</u>	16.3	15.9	15.4	14.6	* 14.8
Utah	24.2	22.6	23.9	24.1	23.5
Nevada <u>1/</u>	3.3	3.3	3.3	3.3	3.4
Pacific:					
Washington	152.4	175.3	173.7	*174.9	170.4
Oregon	110.7	110.2	110.2	117.1	115.5
California	696.3	695.8	700.4	693.0	699.6

See explanatory notes, sections H and I.

* Revised.

1/ Series based on Standard Industrial Classification. Data for Arkansas and Maine may not be strictly comparable with those published prior to the current report.

Table 8. - Estimated Number of Production Workers in Manufacturing Industries 1/
(In thousands)

Industry group and industry	1948			1947	
	June	May	April	June	May
ALL MANUFACTURING	12,955	12,740	12,791	12,672	12,597
Durable goods	6,658	6,642	6,683	6,639	6,572
Nondurable goods	6,297	6,098	6,108	6,033	6,025
Durable goods					
IRON AND STEEL AND THEIR PRODUCTS	1,610	1,600	1,603	1,588	1,582
Blast furnaces, steel works, and rolling mills	523.0	517.7	511.8	501.2	494.5
Gray-iron and semisteel castings	108.8	107.1	110.7	115.0	115.5
Malleable-iron castings	37.9	37.3	37.2	35.6	34.6
Steel castings	69.6	68.4	68.6	65.4	66.4
Cast-iron pipe and fittings	28.9	28.4	27.6	27.4	27.5
Tin cans and other tinware	44.7	42.8	42.1	42.7	42.1
Wire drawn from purchased rods	28.8	29.4	30.1	31.0	26.5
Wirework	40.2	41.1	41.9	39.9	39.5
Cutlery and edge tools	22.1	23.1	23.7	23.5	25.7
Tools (except edge tools, machine tools, files, and saws)	25.1	25.2	25.5	25.4	24.9
Hardware	49.8	51.9	53.0	49.9	50.4
Plumbers' supplies	40.3	39.3	39.4	39.0	40.3
Stoves, oil burners, and heating equipment not elsewhere classified	78.7	79.5	77.8	84.3	84.3
Steam and hot-water heating apparatus and steam fittings	60.5	60.8	59.8	64.0	65.0
Stamped and enameled ware and galvanizing	110.6	110.9	112.2	110.9	112.6
Fabricated structural and ornamental metalwork	59.6	60.0	60.6	59.2	59.4
Metal doors, sash, frames, molding, and trim	10.4	10.2	10.1	9.4	9.1
Bolts, nuts, washers, and rivets	28.5	28.6	28.9	28.5	28.8
Forgings, iron and steel	34.9	35.1	36.7	36.5	35.9
Wrought pipe, welded and heavy-riveted	20.3	18.8	18.8	17.1	18.0
Screw-machine products and wood screws	35.9	36.4	36.8	37.3	37.7
Steel barrels, kegs, and drums	7.9	7.6	7.7	8.2	8.5
Firearms	21.4	21.2	21.0	19.0	19.0
ELECTRICAL MACHINERY	546	548	563	584	564
Electrical equipment	356.2	357.4	364.9	378.3	369.7
Radios and phonographs	88.9	90.0	93.4	98.3	102.7
Communication equipment	90.2	90.0	93.9	97.3	81.3

See explanatory notes, sections A, C, and G, and the glossary for definitions.

Table 8. - Estimated Number of Production Workers in Manufacturing Industries ^{11.} -
Continued (In thousands)

Industry group and industry	1948			1947	
	June	May	April	June	May
MACHINERY, EXCEPT ELECTRICAL	1,217	1,207	1,202	1,208	1,216
Machinery and machine-shop products	493.2	489.6	495.9	501.3	503.1
Engines and turbines	52.1	53.5	53.9	53.1	54.7
Tractors	60.4	56.3	44.8	57.0	55.9
Agricultural machinery, excluding tractors	76.3	75.2	76.2	67.5	65.9
Machine tools	47.0	47.5	47.7	53.9	55.5
Machine-tool accessories	55.4	55.4	55.5	59.1	60.5
Textile machinery	42.0	41.6	41.4	39.0	38.7
Pumps and pumping equipment	67.7	69.3	69.9	77.0	77.3
Typewriters	23.7	23.8	24.1	18.3	24.0
Cash registers; adding, and calculating machines	45.8	45.6	46.3	38.1	41.0
Washing machines, wringers, and driers, domestic	16.4	16.0	16.2	15.0	14.6
Sewing machines, domestic and industrial	14.0	13.9	13.8	10.8	10.6
Refrigerators and refrigeration equipment	84.8	82.5	79.7	78.9	74.8
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	434	438	462	472	475
Locomotives	26.3	26.4	26.6	24.3	23.8
Cars, electric- and steam-railroad	55.0	53.9	53.9	54.9	55.2
Aircraft and parts, excluding aircraft engines	127.6	125.1	137.3	133.9	138.2
Aircraft engines	25.9	25.1	24.8	26.9	27.0
Shipbuilding and boatbuilding	108.7	116.1	122.5	140.4	140.3
Motorcycles, bicycles, and parts	12.4	12.9	14.4	13.3	12.8
AUTOMOBILES	737	767	772	758	720
NONFERROUS METALS AND THEIR PRODUCTS	398	398	406	408	418
Smelting and refining, primary, of nonferrous metals	41.9	41.4	41.0	40.4	39.8
Alloying; and rolling and drawing of nonferrous metals, except aluminum	52.5	52.6	53.7	57.6	60.2
Clocks and watches	28.3	28.3	28.5	27.5	27.8
Jewelry (precious metals) and jewelers' findings	26.1	26.4	27.1	25.3	25.6
Silverware and plated ware	27.3	27.2	27.5	24.3	24.2
Lighting equipment	30.8	30.4	31.3	37.0	37.7
Aluminum manufactures	42.2	42.7	44.2	43.6	46.5
Sheet-metal work, not elsewhere classified	35.0	35.2	36.0	38.6	38.0

See explanatory notes, sections A, C, and G, and the glossary for definitions.

Table 8. - Estimated Number of Production Workers in Manufacturing Industries 1/-
Continued (In thousands)

Industry group and industry	1948			1947	
	June	May	April	June	May
LUMBER AND TIMBER BASIC PRODUCTS	799	772	754	727	710
Sawmills and logging camps	573.1	552.2	538.9	534.7	523.8
Planing and plywood mills	137.7	136.2	135.3	128.6	126.1
FURNITURE AND FINISHED LUMBER PRODUCTS	459	458	470	452	450
Mattresses and bedsprings	31.2	31.2	32.7	29.9	29.8
Furniture	231.7	233.3	239.7	227.0	225.9
Wooden boxes, other than cigar	33.4	32.5	33.7	36.2	36.3
Caskets and other morticians' goods	18.1	18.6	19.0	19.2	19.3
Wood preserving	15.7	15.4	15.1	18.6	18.2
Wood, turned and shaped	33.1	32.1	32.8	30.2	30.5
STONE, CLAY, AND GLASS PRODUCTS	458	454	451	442	437
Glass and glassware	116.5	117.5	117.9	120.3	122.1
Glass products made from purchased glass	12.3	12.2	12.4	12.4	12.8
Cement	37.6	37.1	36.6	35.3	29.7
Brick, tile, and terra cotta	80.5	77.7	76.1	73.0	72.1
Pottery and related products	57.6	57.1	56.6	55.5	56.0
Gypsum	6.6	6.5	6.6	6.0	5.7
Wallboard, plaster (except gypsum), and mineral wool	12.6	12.6	12.6	11.2	11.0
Lime	9.3	9.5	9.6	9.3	9.4
Marble, granite, slate, and other products	18.4	18.2	17.9	16.5	16.6
Abrasives	17.8	17.5	17.5	18.7	19.4
Asbestos products	21.6	21.8	21.9	20.7	20.9
Nondurable goods					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	1,295	1,293	1,301	1,208	1,226
Cotton manufactures, except smallwares	527.7	524.7	526.4	501.7	509.0
Cotton smallwares	14.0	14.4	14.6	13.7	14.6
Silk and rayon goods	112.6	111.8	111.7	101.7	103.1
Woolen and worsted manufactures, except dyeing and finishing	173.8	173.2	175.0	162.9	164.3
Hosiery	135.3	136.6	139.2	124.4	128.8
Knitted cloth	11.2	11.5	11.8	10.5	10.7
Knitted outerwear and knitted gloves	30.9	31.4	31.0	28.0	29.6
Knitted underwear	48.1	48.6	50.0	43.8	43.2
Dyeing and finishing textiles, including woolen and worsted	86.5	87.5	88.3	83.4	84.2
Carpets and rugs, wool	37.2	36.9	36.6	31.9	31.7
Hats, fur-felt	13.9	12.9	12.7	13.1	12.7
Jute goods, except felts	4.3	4.2	4.3	4.2	4.3
Cordage and twine	16.2	16.4	16.7	15.5	15.8

See explanatory notes, sections A, C, and G, and the glossary for definitions.

Table 8. - Estimated Number of Production Workers in Manufacturing Industries 1/-
Continued (In thousands)

13.

Industry group and industry	1948			1947	
	June	May	April	June	May
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	1,095	1,082	1,103	993	990
Men's clothing, not elsewhere classified	314.4	309.8	310.0	284.5	280.5
Shirts, collars, and nightwear	80.0	80.9	82.0	74.3	73.2
Underwear and neckwear, men's	18.2	18.4	18.7	16.8	17.4
Work shirts	18.6	18.2	17.9	14.4	15.3
Women's clothing, not elsewhere classified	435.4	427.6	440.0	389.1	389.3
Corsets and allied garments	18.1	18.5	19.2	17.7	17.7
Millinery	20.3	20.5	23.6	20.2	20.3
Handkerchiefs	4.9	5.0	5.1	4.6	4.7
Curtains, draperies, and bedspreads	26.4	26.4	27.7	22.5	22.2
Housefurnishings, other than curtains, etc.	27.9	27.7	29.0	28.6	29.3
Textile bags	27.3	26.8	26.8	27.1	27.8
LEATHER AND LEATHER PRODUCTS	374	360	372	370	368
Leather	44.5	44.1	44.3	45.5	45.9
Boot and shoe cut stock and findings	17.7	17.3	17.7	18.0	18.3
Boots and shoes	214.0	204.2	212.9	214.4	212.6
Leather gloves and mittens	12.9	12.3	12.2	12.1	12.0
Trunks and suitcases	13.2	13.1	13.3	12.2	12.1
FOOD	1,259	1,091	1,047	1,192	1,152
Slaughtering and meat packing	188.9	116.2	97.1	176.4	172.9
Butter ^{2/}	40.5	39.2	36.9	38.4	37.4
Condensed and evaporated milk	25.0	21.6	20.5	23.5	22.4
Ice cream	31.6	29.2	27.1	33.1	30.0
Flour	38.6	37.3	37.5	37.9	36.9
Feeds, prepared	28.6	27.8	26.6	29.0	27.5
Cereal preparations	13.0	12.8	12.2	12.2	11.9
Baking	224.6	219.7	217.5	213.2	211.4
Sugar refining, cane	18.3	17.7	17.3	20.4	19.7
Sugar, beet	7.1	6.5	5.4	7.1	6.5
Confectionery	57.3	56.0	61.0	60.2	62.0
Beverages, nonalcoholic	41.0	38.5	36.1	32.2	30.0
Malt liquors	74.8	66.3	69.8	70.6	66.9
Canning and preserving	167.2	137.8	126.7	155.3	135.7
TOBACCO MANUFACTURES	85	84	86	84	83
Cigarettes	33.3	33.1	33.2	33.3	32.9
Cigars	43.6	43.7	45.2	43.1	42.4
Tobacco (chewing and smoking) and snuff	7.7	7.6	7.7	7.7	7.7

See explanatory notes, sections A, C, and G, and the glossary for definitions.

Table 8. - Estimated Number of Production Workers in Manufacturing Industries 1/ -
Continued (In thousands)

Industry group and industry	1948			1947	
	June	May	April	June	May
PAPER AND ALLIED PRODUCTS	389	389	389	388	388
Paper and pulp	200.3	201.1	200.2	194.7	193.2
Paper goods, other	57.1	56.9	56.8	57.9	57.9
Envelopes	12.5	12.7	12.7	11.9	12.0
Paper bags	17.5	17.6	18.0	18.2	18.7
Paper boxes	92.7	91.2	92.7	97.0	98.2
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	434	433	432	431	430
Newspapers and periodicals	146.7	146.2	145.0	142.0	141.2
Printing; book and job	176.4	176.3	175.3	175.8	175.1
Lithographing	31.0	30.9	31.3	32.4	32.7
Bookbinding	35.1	35.1	35.9	37.5	37.4
CHEMICALS AND ALLIED PRODUCTS	572	572	580	561	575
Paints, varnishes, and colors	51.2	50.7	50.1	50.0	50.3
Drugs, medicines, and insecticides	63.5	63.6	64.2	67.8	69.0
Perfumes and cosmetics	10.9	11.0	11.2	12.0	11.9
Soap	22.0	21.7	21.8	24.3	23.7
Rayon and allied products	64.2	63.4	63.5	52.5	61.3
Chemicals, not elsewhere classified	198.2	195.6	198.0	198.8	196.4
Explosives and safety fuses	23.1	22.2	22.1	21.2	21.2
Compressed and liquefied gases	10.1	10.0	10.0	9.9	9.6
Ammunition, small-arms	7.8	7.8	7.8	7.1	7.0
Fireworks	2.5	2.6	2.4	2.9	3.0
Cottonseed oil	12.6	13.6	15.2	11.9	13.1
Fertilizers	24.8	29.4	33.4	25.0	29.7
PRODUCTS OF PETROLEUM AND COAL	170	167	164	163	161
Petroleum refining	113.7	111.9	110.9	109.9	108.8
Coke and byproducts	31.6	31.0	29.7	28.8	28.4
Paving materials	2.7	2.4	2.3	2.6	2.7
Roofing materials	17.6	17.2	17.4	17.7	17.4

See explanatory notes, sections A, C, and G, and the glossary for definitions.

Table 8. - Estimated Number of Production Workers in Manufacturing Industries ^{15.}
Continued (In thousands)

Industry group and industry	1948			1947	
	June	May	April	June	May
RUBBER PRODUCTS	195	195	198	207	211
Rubber tires and inner tubes	103.9	103.3	104.6	117.7	119.3
Rubber boots and shoes	21.9	21.8	22.1	21.4	22.8
Rubber goods, other	82.0	81.9	84.0	79.5	81.0
MISCELLANEOUS INDUSTRIES	429	432	436	436	441
Instruments (professional and scientific), and fire-control equipment	27.5	27.5	27.6	28.1	27.6
Photographic apparatus	38.1	37.8	38.4	37.4	36.7
Optical instruments and ophthalmic goods	25.5	26.7	27.0	28.9	29.4
Pianos, organs, and parts	13.5	13.7	13.3	15.2	15.1
Games, toys, and dolls	40.9	40.2	40.3	34.8	33.9
Buttons	12.9	12.8	13.1	11.8	12.3
Fire extinguishers	2.7	2.7	2.7	2.9	2.9

See explanatory notes, sections A, C, and G, and the glossary for definitions.

1/ Data for the major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946. The estimates have been carried forward from 1946, thereby providing consistent series.

2/ Butter - March 1948 revised to 34.3.

Table 9. - Estimated Number of Employees in
Selected Nonmanufacturing Industries 1/

(In thousands)

Industry group and industry	1948			1947	
	June	May	April	June	May
MINING: <u>2/</u> <u>3/</u>					
Coal:					
Anthracite	77.4	76.4	76.9	75.7	76.4
Bituminous coal	406	403	296	392	389
Metal	92.8	91.1	91.7	91.9	90.8
Iron	34.0	32.7	32.5	32.4	31.7
Copper	26.3	26.1	26.8	25.7	25.3
Lead and zinc	16.3	16.4	16.3	17.8	17.8
Gold and silver	8.3	8.1	8.5	8.0	8.2
Miscellaneous	7.9	7.7	7.7	7.9	7.8
Quarrying and nonmetallic <u>4/</u>	86.8	85.1	83.9	88.3	87.2
Crude petroleum and natural gas production <u>5/</u>	133.5	128.7	127.2	128.5	125.6
TRANSPORTATION AND PUBLIC UTILITIES					
Class I steam railroads <u>6/</u>	1,351	1,321	1,258	1,375	1,365
Street railways and busses <u>7/</u>	249	249	249	253	253
Telephone	634	630	630	605	506
Telegraph <u>8/</u>	36.1	36.3	36.9	38.5	38.7
Electric light and power	279	274	273	263	258
SERVICE:					
Hotels (year-round)	379	377	377	385	382
Power laundries <u>2/</u>	238	233	232	249	245
Cleaning and dyeing <u>2/</u>	94.8	93.4	92.5	100.8	97.4

See explanatory notes, section G.

1/ Includes all employees unless otherwise noted.2/ Includes production and related workers only.3/ Data have been adjusted to levels indicated by Federal Security Agency data through 1946. The estimates have been carried forward from 1946 bench-mark levels, thereby providing consistent series.4/ February and March 1948 revised to 76.8 and 80.0.5/ Does not include well drilling or rig building.6/ Includes all employees at middle of month. Excludes employees of switching and terminal companies. Class I steam railroads include those with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.7/ Includes private and municipal street-railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.8/ Includes all land-line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.

Table 10. - Indexes of Production-Worker Employment and Weekly Pay Rolls
in Manufacturing Industries 1/
(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	June	May	April	June	June	May	April	June
ALL MANUFACTURING	158.1	155.5	156.1	154.7	359.2	346.9	347.1	327.2
Durable goods	184.4	183.9	185.1	183.9	401.3	390.9	393.4	375.5
Nondurable goods	137.5	133.1	133.3	131.7	318.0	303.9	301.9	280.0
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS	162.4	161.4	161.7	160.1	340.5	334.4	329.6	319.2
Blast furnaces, steel works, and rolling mills	134.6	133.3	131.8	129.0	268.4	265.4	253.0	249.1
Gray-iron and semisteel castings	174.8	172.2	177.9	184.8	400.1	374.3	394.6	411.8
Malleable-iron castings	197.0	194.2	193.6	185.2	468.1	460.3	453.0	414.7
Steel castings	217.1	213.6	214.1	204.1	469.5	454.2	453.2	406.6
Cast-iron pipe and fittings 2/	164.5	161.6	157.0	155.8	422.0	401.4	370.0	392.8
Tin cans and other tinware	140.8	134.9	132.4	134.5	310.8	286.1	274.9	265.9
Wire drawn from purchased rods	131.0	134.0	137.1	141.1	242.4	249.8	255.3	265.9
Wirework	132.4	135.2	137.9	131.4	295.7	298.2	302.0	272.5
Cutlery and edge tools	143.6	149.9	153.8	152.6	343.6	357.8	364.6	352.9
Tools (except edge tools, machine tools, files, and saws)	163.9	164.7	166.7	166.0	370.8	366.6	372.4	350.6
Hardware	139.7	145.5	148.6	140.0	318.6	325.8	342.2	307.3
Plumbers' supplies	153.7	149.8	150.3	148.7	329.0	324.0	322.2	291.7
Stoves, oil burners, and heating equipment not elsewhere classified	160.2	161.7	158.2	171.6	359.9	352.5	345.4	355.9
Steam and hot-water heating apparatus and steam fittings	187.4	188.2	185.2	198.4	409.5	406.0	393.8	404.9
Stamped and enameled ware and galvanizing	187.0	187.4	189.6	187.4	439.9	440.6	439.8	411.5
Fabricated structural and ornamental metalwork	167.9	169.0	170.7	166.7	345.2	345.7	340.6	328.2
Metal doors, sash, frames, molding, and trim	133.7	131.4	130.6	121.8	309.1	288.6	283.9	254.3
Bolts, nuts, washers, and rivets	187.3	187.8	189.8	186.9	412.8	408.2	416.7	383.0
Forgings, iron and steel	213.3	214.2	223.9	223.1	454.1	443.7	467.6	454.9
Wrought pipe, welded and heavy-riveted	228.2	211.0	210.8	191.3	472.1	443.1	437.7	377.8
Screw-machine products and wood screws	199.1	202.1	204.4	207.0	436.9	445.4	452.0	436.2
Steel barrels, kegs, and drums	121.8	117.7	119.5	127.1	315.6	302.6	298.1	316.2
Firearms	402.6	397.9	395.1	357.4	945.9	915.6	906.0	777.9
ELECTRICAL MACHINERY	210.8	211.6	217.4	225.5	438.2	431.6	444.3	440.5
Electrical equipment	195.0	195.7	199.8	207.1	404.9	398.1	408.1	408.6
Radios and phonographs	202.0	204.6	212.2	223.5	458.0	451.4	468.5	464.5
Communication equipment	277.8	277.3	289.3	299.7	534.1	530.0	551.2	530.2

See explanatory notes, sections A, C, F, and G, and the glossary for definitions.

Table 10. - Indexes of Production-Worker Employment and Weekly Pay Rolls
in Manufacturing Industries 1/ - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948		1947		1948		1947	
	June	May	April	June	June	May	April	June
MACHINERY, EXCEPT ELECTRICAL	230.4	228.5	227.4	228.5	480.7	466.4	463.8	443.0
Machinery and machine-shop products	237.5	235.8	238.8	241.4	500.7	491.0	493.6	470.6
Engines and turbines	279.5	286.7	289.1	284.9	601.4	617.6	611.7	588.5
Tractors	193.0	180.1	143.4	182.2	355.5	285.4	248.9	313.9
Agricultural machinery, excluding tractors	267.4	263.7	267.0	236.4	595.4	571.2	571.9	475.4
Machine tools	128.4	129.7	130.4	117.2	242.9	240.7	240.2	264.8
Machine-tool accessories	214.4	214.4	214.8	228.9	385.1	389.9	392.6	391.4
Textile machinery 2/	191.6	189.8	189.2	177.9	459.1	444.8	441.3	372.2
Pumps and pumping equipment	272.3	278.7	280.9	309.7	596.5	610.3	610.0	632.7
Typewriters	145.9	147.0	148.7	112.8	325.2	325.0	336.8	237.3
Cash registers; adding, and calculating machines	232.9	231.8	235.2	193.4	505.9	489.4	504.7	398.7
Washing machines, wringers, and driers, domestic	220.0	214.6	217.0	200.3	480.9	454.2	465.3	407.6
Sewing machines, domestic and industrial	173.6	177.2	175.9	137.3	444.2	428.0	409.9	299.9
Refrigerators and refrigeration equipment	241.3	234.6	226.7	224.4	508.9	472.3	450.4	431.1
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	273.7	276.0	290.9	297.5	561.2	566.4	601.4	571.1
Locomotives	406.5	407.7	410.5	376.0	913.7	916.4	928.1	774.7
Cars, electric- and steam-railroad	224.4	219.6	219.7	223.9	492.5	478.5	483.8	471.1
Aircraft and parts, excluding aircraft engines	321.5	315.3	346.0	337.4	649.2	634.2	695.2	621.5
Aircraft engines	290.8	282.4	278.4	302.5	517.5	493.5	481.0	481.5
Shipbuilding and boatbuilding	157.0	167.6	176.8	202.7	320.1	345.7	373.6	394.3
Motorcycles, bicycles, and parts	177.5	185.2	206.0	190.8	345.7	370.5	418.2	383.6
AUTOMOBILES	183.2	190.5	191.9	188.5	380.9	362.6	386.2	363.6
NONFERROUS METALS AND THEIR PRODUCTS	173.8	173.7	176.9	178.0	368.1	362.5	368.3	352.0
Smelting and refining, primary, of nonferrous metals	151.6	149.8	148.4	146.2	329.3	321.6	314.1	298.8
Alloying; and rolling and drawing of nonferrous metals, except aluminum	135.3	135.6	138.3	148.4	277.9	268.9	271.7	282.1
Clocks and watches	139.3	139.2	140.7	135.7	331.7	327.4	336.8	302.0
Jewelry (precious metals) and jewelers' findings	180.9	182.6	187.6	175.5	366.5	362.4	377.7	323.8
Silverware and plated ware	225.2	224.2	226.8	200.5	526.7	522.4	529.4	443.8
Lighting equipment	150.6	148.4	152.7	180.9	305.5	293.3	308.3	343.9
Aluminum manufactures	179.3	181.5	187.7	185.2	338.0	347.0	356.8	332.3
Sheet-metal work, not elsewhere classified	186.5	187.8	192.0	205.8	418.9	413.2	417.8	428.3

See explanatory notes, sections A, C, F, and G, and the glossary for definitions.

Table 10. - Indexes of Production- Worker Employment and Weekly Pay Rolls
in Manufacturing Industries 1/ - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	June	May	April	June	June	May	April	June
LUMBER AND TIMBER BASIC PRODUCTS	190.0	183.6	179.4	172.9	497.9	462.0	433.4	409.8
Sawmills and logging camps	182.7	176.0	171.8	170.5	487.5	447.2	415.4	412.2
Planing and plywood mills	173.8	172.1	171.1	162.6	430.4	421.0	412.9	366.5
FURNITURE AND FINISHED LUMBER PRODUCTS	139.8	139.7	143.4	137.7	326.0	325.6	333.0	308.0
Mattresses and bedsprings	152.3	152.0	159.4	145.7	324.9	318.0	336.4	291.6
Furniture	130.3	131.1	134.7	127.6	304.2	307.2	314.6	284.7
Wooden boxes, other than cigar	117.8	114.8	119.0	127.6	305.9	281.4	285.2	313.4
Caskets and other morticians' goods	130.1	133.5	136.4	138.1	261.9	270.3	281.0	275.8
Wood preserving	124.8	122.6	120.4	147.9	334.5	328.6	312.6	391.2
Wood, turned and shaped	134.5	130.5	133.4	122.9	301.5	303.9	310.4	272.3
STONE, CLAY, AND GLASS PRODUCTS	156.0	154.7	153.7	150.4	347.9	343.4	337.9	311.5
Glass and glassware	163.2	164.7	165.2	168.6	348.5	352.5	355.3	341.1
Glass products made from purchased glass	123.2	122.2	123.4	124.3	265.9	264.5	259.9	259.5
Cement	154.5	152.2	150.5	145.0	323.5	314.3	297.2	278.9
Brick, tile, and terra cotta	138.6	133.8	131.1	125.8	332.7	320.8	305.6	278.9
Pottery and related products	170.3	168.9	167.2	164.1	356.7	351.1	348.7	322.4
Gypsum	133.7	132.3	132.8	121.7	304.7	304.8	298.6	243.6
Wallboard, plaster (except gypsum), and mineral wool	155.5	155.4	155.2	137.6	418.4	403.8	406.6	327.6
Lime	98.3	100.8	101.6	98.6	270.7	273.3	273.3	244.6
Marble, granite, slate, and other products	99.6	98.2	96.6	88.9	184.4	182.7	176.6	155.3
Abrasives	230.4	226.0	226.3	242.2	502.4	490.6	474.9	413.8
Asbestos products	136.0	137.1	137.5	130.2	334.3	329.9	328.9	305.2
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	113.2	113.0	113.7	105.6	304.6	303.8	307.1	248.6
Cotton manufactures, except smallwares	126.1	125.4	125.8	119.9	365.9	369.7	374.7	307.5
Cotton smallwares	99.2	102.3	103.6	97.2	237.5	238.3	243.0	204.9
Silk and rayon goods	89.0	88.3	88.2	80.3	271.5	268.6	267.4	206.0
Woolen and worsted manufactures, except dyeing and finishing	110.3	109.9	111.0	103.3	311.5	307.9	308.6	252.5
Hosiery	80.5	81.3	82.8	74.0	185.6	183.6	189.2	143.2
Knitted cloth	96.8	99.4	101.9	91.1	223.2	223.1	237.1	192.7
Knitted outerwear and knitted gloves	103.8	105.8	104.4	94.2	243.0	247.6	242.8	199.3
Knitted underwear	118.1	119.3	122.7	107.5	301.8	303.4	320.3	253.5
Dyeing and finishing textiles, including woolen and worsted	122.5	123.9	125.0	118.0	297.8	299.0	305.6	260.8
Carpets and rugs, wool	137.6	136.4	135.4	118.2	345.4	332.8	324.2	251.1
Hats, fur-felt	90.3	84.2	82.7	85.0	208.9	184.6	176.4	180.5
Jute goods, except felts	114.2	112.0	112.8	111.0	277.5	272.2	275.9	260.0
Cordage and twine	127.0	128.7	130.9	121.1	306.5	303.4	311.4	259.8

See explanatory notes, sections A, C, F, and G, and the glossary for definitions.

Table 10. - Indexes of Production-Worker Employment and Weekly Pay Rolls
in Manufacturing Industries 1/ - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	June	May	April	June	June	May	April	June
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	138.6	137.1	139.8	125.7	303.6	297.9	306.5	262.3
Men's clothing, not elsewhere classified	136.9	134.9	135.0	123.9	312.9	311.5	317.1	273.0
Shirts, collars, nightwear	108.2	109.4	110.9	100.5	258.5	266.8	274.6	229.0
Underwear and neckwear, men's	107.4	108.3	110.1	98.3	289.1	296.7	297.0	248.3
Work shirts	131.4	129.2	126.4	102.1	330.9	325.8	316.1	237.5
Women's clothing, not elsewhere classified	152.1	149.4	153.7	135.9	310.7	299.3	307.1	264.1
Corsets and allied garments	96.5	98.8	102.4	94.2	210.8	213.0	229.1	200.4
Millinery	79.4	80.4	92.3	79.3	133.2	127.9	171.3	128.4
Handkerchiefs	96.6	99.2	99.8	90.8	231.0	239.1	251.5	207.4
Curtains, draperies, and bedspreads 2/	148.9	148.8	156.0	126.9	339.2	334.8	348.5	253.9
Housefurnishings, other than curtains, etc.	249.9	248.2	259.8	256.2	587.3	544.2	584.6	553.4
Textile bags	216.4	212.8	212.4	214.6	470.8	464.8	446.4	422.4
LEATHER AND LEATHER PRODUCTS	107.8	103.7	107.1	106.6	234.5	216.5	227.1	225.9
Leather	88.8	88.2	88.5	91.0	190.5	186.8	184.1	185.2
Boot and shoe cut stock and findings	88.5	86.5	88.7	90.1	178.9	168.9	173.4	172.9
Boots and shoes	92.7	88.5	92.2	92.9	204.0	183.7	198.1	201.7
Leather gloves and mittens	128.6	123.5	121.9	121.0	274.5	257.0	241.3	226.9
Trunks and suitcases	158.5	157.9	160.1	147.0	337.7	338.3	347.2	298.1
FOOD	147.4	127.7	122.6	139.5	330.1	281.3	267.4	286.7
Slaughtering and meat packing	139.9	86.0	71.9	130.6	315.4	211.3	179.9	259.9
Butter 2/	201.2	194.5	183.3	190.9	429.8	407.2	381.0	391.5
Condensed and evaporated milk	211.2	198.3	188.3	216.3	520.3	477.9	438.1	474.1
Ice cream	179.1	166.0	153.9	187.8	341.5	311.3	286.4	335.0
Flour	139.1	134.2	135.0	136.4	317.3	294.0	285.1	302.4
Feeds, prepared	165.7	160.7	153.9	168.0	385.3	363.8	337.1	359.5
Cereal preparations	155.2	152.6	146.4	146.2	353.7	333.6	313.0	290.9
Baking	118.0	115.4	114.3	112.0	245.4	235.1	227.6	213.1
Sugar refining, cane	115.3	111.7	109.2	128.3	243.4	227.9	229.3	279.2
Sugar, beet	61.5	55.8	46.9	61.6	125.6	114.2	96.7	118.6
Confectionery 2/	102.9	100.5	109.5	108.0	231.1	210.4	241.1	229.0
Beverages, nonalcoholic	172.2	161.7	151.3	135.0	304.2	277.0	257.9	226.1
Malt liquors	185.0	163.9	172.4	174.6	351.0	299.9	316.0	318.6
Canning and preserving	111.2	91.7	84.3	103.3	282.4	234.2	216.9	249.3
TOBACCO MANUFACTURES	90.6	90.5	92.4	90.2	205.8	201.3	205.7	194.8
Cigarettes	121.2	120.7	121.1	121.5	263.1	253.1	254.3	239.6
Cigars	78.1	78.3	81.0	77.2	175.8	175.1	182.7	173.7
Tobacco (chewing and smoking) and snuff	76.1	75.9	77.0	76.6	166.7	161.8	161.6	152.8

See explanatory notes, sections A, C, F, and G, and the glossary for definitions.

Table 10. - Indexes of Production-Worker Employment and Weekly Pay Rolls
in Manufacturing Industries 1/ - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	June	May	April	June	June	May	April	June
PAPER AND ALLIED PRODUCTS	146.7	146.4	146.8	146.1	338.3	331.9	325.7	303.4
Paper and pulp	145.4	146.0	145.3	141.3	342.6	338.9	327.7	302.1
Paper goods, other	151.3	150.7	150.4	153.6	331.3	328.2	324.4	303.0
Envelopes	143.7	145.5	145.6	136.6	283.5	282.9	282.1	265.2
Paper bags	157.5	158.2	162.3	164.0	363.7	354.8	365.3	340.9
Paper boxes	133.6	131.6	133.7	139.9	304.2	289.9	292.5	283.8
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	132.3	132.2	131.8	131.5	265.1	262.6	259.5	240.3
Newspapers and periodicals	123.6	123.2	122.2	119.7	237.8	236.2	234.6	210.0
Printing; book and job	138.2	138.1	137.4	137.8	286.3	283.9	278.6	258.1
Lithographing	118.2	117.5	119.0	123.3	230.0	223.9	221.4	216.6
Bookbinding	136.2	136.0	144.1	145.6	309.6	302.6	304.0	324.7
CHEMICALS AND ALLIED PRODUCTS	198.4	198.4	201.4	194.6	432.6	422.5	422.1	384.1
Paints, varnishes, and colors	180.9	179.4	177.1	176.7	349.7	343.9	329.4	314.0
Drugs, medicines, and insecticides	230.6	231.1	233.3	246.4	485.7	481.5	479.9	457.6
Perfumes and cosmetics	104.7	105.2	107.6	115.5	213.2	209.7	215.1	216.7
Soap	144.3	142.2	142.9	159.4	329.8	322.9	321.8	324.0
Rayon and allied products	132.7	131.2	131.4	108.6	279.7	275.1	274.6	214.8
Chemicals, not elsewhere classified	283.5	279.8	283.2	284.3	585.9	563.2	564.8	528.2
Explosives and safety fuses	316.5	305.7	303.7	290.3	638.4	592.0	561.5	518.5
Compressed and liquefied gases	253.7	250.9	252.4	248.8	504.3	491.7	483.7	444.0
Ammunition, small-arms	181.1	181.6	182.5	164.6	410.3	404.1	398.8	361.6
Fireworks	211.8	219.7	210.1	249.8	571.3	594.9	572.5	691.8
Cottonseed oil	82.8	89.1	99.5	77.7	227.8	245.9	270.2	201.3
Fertilizers	131.4	156.1	177.4	132.6	377.3	428.3	482.9	349.8
PRODUCTS OF PETROLEUM AND COAL	160.4	157.3	154.9	153.5	342.1	335.7	316.7	291.4
Petroleum refining	155.3	152.9	151.5	150.1	322.7	318.3	303.4	273.4
Coke and byproducts	145.7	143.1	136.8	133.0	329.7	320.3	287.3	281.9
Paving materials <u>2/</u>	110.2	97.0	92.7	106.3	248.9	222.5	206.5	228.2
Roofing materials	218.0	213.0	214.6	218.0	522.6	507.9	495.6	468.4

See explanatory notes, sections A, C, F, and G, and the glossary for definitions.

Table 10. - Indexes of Production-Worker Employment and Weekly Pay Rolls
in Manufacturing Industries 1/ - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	June	May	April	June	June	May	April	June
RUBBER PRODUCTS	161.4	160.8	163.8	170.9	332.6	320.9	312.8	342.3
Rubber tires and inner tubes	191.6	190.4	192.9	217.0	364.2	345.5	323.6	396.1
Rubber boots and shoes	147.4	146.8	149.0	143.9	330.8	329.1	333.9	317.1
Rubber goods, other	158.1	158.0	161.9	153.2	344.8	338.7	347.1	320.1
MISCELLANEOUS INDUSTRIES	175.4	176.6	178.4	178.4	386.1	384.2	382.6	363.5
Instruments (professional and scientific), and fire-control equipment	243.4	242.8	244.1	248.1	488.8	492.6	494.2	468.3
Photographic apparatus	215.6	214.1	217.1	211.3	436.3	431.0	416.2	392.2
Optical instruments and ophthalmic goods	214.6	224.1	226.9	242.7	419.6	426.7	438.1	462.8
Pianos, organs, and parts	172.9	175.2	170.5	195.1	361.1	367.8	357.9	417.5
Games, toys, and dolls	213.8	210.3	210.7	132.0	508.2	496.7	487.6	395.0
Buttons	114.8	114.2	116.3	104.7	271.6	269.4	269.4	228.3
Fire extinguishers	269.3	260.9	266.8	289.0	592.8	563.4	575.5	586.5

See explanatory notes, sections A, C, F, and G, and the glossary for definitions.

1/ See footnote 1, table 8.

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

Cast-iron pipe and fittings - February and March 1948 pay roll to 392.5 and 397.5.

Textile machinery - Pay roll; December 1947 to 417.4, March 1948 to 443.2.

Curtains, draperies, and bedspreads - January 1948 pay roll to 419.1.

Butter - March 1948 employment to 170.5; pay roll to 348.2.

Confectionery - February 1948 pay roll to 275.6.

Paving materials - February and March 1948 pay roll to 160.6 and 173.1.

Table 11. - Indexes of Employment and Weekly Pay Rolls in
Selected Nonmanufacturing Industries

(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948		1947		1948		1947	
	June	May	April	June	June	May	April	June
MINING:								
Coal:								
Anthracite	92.6	91.4	91.9	90.5	248.1	246.2	195.4	219.4
Bituminous coal	109.1	108.5	79.7	105.4	346.7	343.4	167.4	300.6
Metal	100.2	98.4	99.0	99.3	206.9	204.9	201.7	196.7
Iron	160.8	155.0	153.7	153.5	345.1	336.3	319.7	322.1
Copper	105.4	104.7	107.2	102.9	229.6	230.0	232.6	216.2
Lead and zinc	100.3	100.8	100.4	109.7	236.0	236.2	235.8	241.9
Gold and silver	31.9	31.3	32.5	30.8	54.2	54.6	55.2	49.9
Miscellaneous	188.6	182.9	182.8	189.3	360.7	352.5	343.1	332.0
Quarrying and nonmetallic ^{1/}	126.8	124.2	122.5	129.0	321.7	312.5	295.4	307.1
Crude petroleum and natural gas production ^{1/}	116.7	112.5	111.2	112.3	227.1	223.4	213.4	206.0
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railroads ^{2/}	136.8	133.8	127.3	139.2	3/	3/	3/	3/
Street railways and busses	128.3	128.5	128.3	130.4	231.2	228.1	227.1	222.1
Telephone	199.6	198.4	198.3	190.4	328.2	326.1	317.7	292.5
Telegraph	96.0	96.3	97.9	102.3	228.5	231.1	224.8	218.8
Electric light and power	114.0	112.3	111.7	107.5	196.3	191.9	188.6	177.5
TRADE: ^{4/}								
Wholesale	115.3	114.5	114.8	110.5	211.8	211.8	211.0	198.0
Retail	113.6	113.1	112.8	111.4	218.3	213.8	211.1	201.6
Food	115.5	116.3	116.1	113.7	231.9	227.0	225.5	212.1
General merchandise	124.8	123.7	123.4	120.6	236.5	229.2	225.8	218.9
Apparel	115.4	115.2	114.6	115.0	214.7	211.8	209.2	207.4
Furniture and housefurnishings	92.0	91.9	91.6	85.1	180.2	180.3	175.6	157.4
Automotive	108.5	107.0	107.1	100.6	209.5	205.3	204.7	184.3
Lumber and building materials	126.3	123.7	121.9	119.4	252.8	242.6	234.9	219.4
SERVICE:								
Hotels (year-round) ^{5/}	117.6	117.0	116.9	119.4	236.5	234.6	233.4	226.4
Power laundries	121.5	119.0	118.3	127.2	238.3	232.3	231.5	239.3
Cleaning and dyeing	163.1	160.6	159.0	173.3	325.2	312.4	308.0	328.4

See footnotes, table 9, and explanatory notes, sections F and G.

^{1/} Revisions have been made as follows in the indexes for earlier months:

 Quarrying and nonmetallic mining - January and March 1948 pay roll to 272.8 and 272.7; February and March employment to 112.2 and 116.8.

 Crude petroleum and natural gas production - March 1948 pay roll to 208.3.

^{2/} Source: Interstate Commerce Commission.

^{3/} Not available.

^{4/} Includes all nonsupervisory employees and working supervisors.

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

EXPLANATORY NOTES

Sec. A. Scope of Employment Revisions - The employment estimates shown in this report for the industry divisions (e.g., manufacturing, mining, etc.) and industry groups (e.g., iron and steel, electrical machinery, etc.) have been adjusted to levels indicated by bench-mark data through 1946 and supersede data shown in mimeographed releases dated prior to June 1948 and in the Monthly Labor Review dated prior to July 1948. Each of the industry divisions except service was affected by the revisions. The estimates have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Sec. B. Sources of Bench-Mark Data - The chief purpose of revisions published in the April 1948 DETAILED REPORT, was to adjust the levels of employment estimates to bench-mark data through 1946. In preparing estimates for private employment prior to 1939, the various industrial censuses taken by the Bureau of the Census were used as sources of bench-mark data. Data obtained from the Federal Security Agency are the main bases for 1946 bench marks. Bench marks for State and local government are based on data compiled by the Bureau of the Census, while most of the data on Federal Government employment is made available by the U. S. Civil Service Commission. The Interstate Commerce Commission is the source for railroads, and the U. S. Maritime Commission for water transportation.

Sec. C. Revisions of Manufacturing Production-Worker Estimates - Data for the major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946 and are not comparable with those shown in mimeographed releases dated prior to June 1948 or the Monthly Labor Review dated prior to July 1948. In the transportation equipment except automobiles group, the individual industry data are adjusted to 1939 Census of Manufactures levels. In the tobacco manufactures group, the individual industry data are adjusted to levels indicated by Federal Security Agency data through 1946 and are not comparable with data published in mimeographed releases dated prior to July 1948 or the Monthly Labor Review dated prior to August 1948; the remaining industries are adjusted to data through 1945. Comparable data for all series from January 1939 are available upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

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

Briefly, the Bureau of Labor Statistics computes employment estimates as follows: first, a bench mark or level of employment is determined; second, a sample of establishments is selected; and third, changes in employment indicated by this reporting sample are applied to the bench mark to determine the monthly estimates of employment between bench-mark periods. For example, if the latest complete data on employment for an industry were 40,200 in September 1945, and if the industry has a reporting sample of 13 establishments employing 23,200 workers in September and 23,800 in October, the October estimate would be prepared as follows:

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

In general, data showing month-to-month changes in employment reflect the fluctuations shown by establishments reporting to the Bureau of Labor Statistics. However, the usual estimating method is inadequate in the finance and service industries, which have a preponderance of small establishments. A special sampling procedure has been introduced, involving the scientific selection of a sample of cities and of a representative list of blocks in these cities. Data obtained from the establishments in these blocks yield substantially better estimates of month-to-month changes in employment in the finance and service industries than would be obtained by the use of the sampling procedure employed for other industries. For railroads and the Federal Government, complete reports of employment are available.

Why Revisions Are Necessary - Because reports are not immediately available from new firms, they are frequently introduced into the Bureau of Labor Statistics sample after they have been in operation for some time. This lapse of time produces a rather consistent understatement which becomes larger from year to year. It is important, therefore, that estimates not be allowed to go uncorrected for too long a period. The most recent revisions correct for the downward bias that had accumulated in the nonmanufacturing series beginning January 1945 and in the manufacturing series beginning January 1946. Revisions in some industry divisions were made in order to incorporate greater refinements in methodology and new source materials that have become available.

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

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

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

Sec. G. Source of Data - Employment and pay-roll estimates are based on reports from cooperating establishments. Excluding about 9,000 block-sample returns, the approximate number of establishments, and workers covered, for each of the industry divisions are shown below:

Approximate Coverage of BLS Employment
and Pay-Roll Sample

Industry division	: Number of establishments	: Employees or production workers	
		Number	: Percent of total
Manufacturing	34,200	7,503,000	59
Mining	2,800	361,000	53
Contract construction	14,000	492,000	25
Public utilities	7,200	912,000	77
Trade:			
Wholesale	12,400	343,000	19
Retail	35,000	935,000	22
Service:			
Hotels (year-round)	1,200	133,000	35
Power laundries and cleaning and dyeing	1,600	68,000	21

Sec. H. Coverage of Employment Estimates - The employment estimates shown in tables 1, 2, 3, 6, and 7 cover all full- and part-time wage and salary workers who worked or received pay during the pay period ending nearest the 15th of the month. Proprietors, self-employed persons, domestic servants, and personnel of the armed forces are excluded. The estimates and indexes shown in tables 8 and 10 refer to production and related workers as defined in the Glossary, page vii.

Sec. I. State Estimates - State estimates are prepared in cooperation with various State Agencies as indicated below. The estimates for manufacturing have been adjusted to recent data made available under the Federal Social Security program. Since some states have adjusted to more recent bench-mark data than others, and because varying methods of computation are used, the total of the state estimates differs from the national total (see tables 1 and 2). Because of these recent revisions

the state estimates for manufacturing are not consistent with the unrevised data shown prior to June 1947 for total employment in nonagricultural establishments, by state. Comparable series of manufacturing estimates for each state, January 1943 to date, and also for nonagricultural employment for selected states, through December 1946, are available upon request to the cooperating State agency or the appropriate Bureau of Labor Statistics regional office. Estimates of nonagricultural employment, by state, for these States which are now publishing such estimates are shown in table 6. These totals are consistent with the manufacturing estimates in table 7. As nonagricultural estimates for additional States become available, they will be shown in table 6.

Cooperating State Agencies

Alabama - Dept. of Industrial Relations, Montgomery 5.
 Arizona - Unemployment Compensation Div., Employment Security Commission, Phoenix.
 Arkansas - Employment Security Div., Dept. of Labor, Little Rock.
 California - Div. of Labor Statistics and Research, Dept. of Industrial Relations, San Francisco 3.
 Connecticut - Employment Security Div., Dept. of Labor and Factory Inspection, Hartford 15.
 Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1, Pa.
 Florida - Unemployment Compensation Div., Industrial Commission, Tallahassee.
 Georgia - Employment Security Agency, Dept. of Labor, Atlanta 3.
 Idaho - Employment Security Agency, Industrial Accident Board, Boise.
 Illinois - Dept. of Labor, Chicago 1.
 Indiana - Employment Security Div., Indianapolis 4.
 Iowa - Employment Security Commission, Des Moines 8.
 Kansas - State Labor Dept., Topeka.
 Louisiana - Bureau of Business Research, Louisiana State University, Baton Rouge 3.
 Maine - Unemployment Compensation Commission, Augusta.
 Maryland - Dept. of Labor and Industry, Baltimore 2.
 Massachusetts - Dept. of Labor and Industries, Boston 33.
 Michigan - Dept. of Labor and Industry, Lansing 13.
 Minnesota - Div. of Employment and Security, Dept. of Social Security, St. Paul 1.
 Missouri - Div. of Employment Security, Dept. of Labor and Industrial Relations, Jefferson City.
 Montana - Unemployment Compensation Commission, Helena.
 Nebraska - Div. of Placement and Unemployment Insurance, Dept. of Labor, Lincoln 1.
 Nevada - Employment Security Dept., Carson City.
 New Jersey - Dept. of Labor, Trenton 8.
 New Mexico - Employment Security Commission, Albuquerque.
 New York - Div. of Placement and Unemployment Insurance, Dept. of Labor, New York 17.
 North Carolina - Dept. of Labor, Raleigh.
 Oklahoma - Employment Security Commission, Oklahoma City 2.
 Pennsylvania - Federal Reserve Bank of Philadelphia, Philadelphia 1 (Manufacturing); Bureau of Research and Information, Dept. of Labor and Industry, Harrisburg (Nonmanufacturing).
 Rhode Island - Div. of Census and Information, Dept. of Labor, Providence 2.
 Tennessee - Dept. of Employment Security, Nashville 3.
 Texas - Bureau of Business Research, University of Texas, Austin 12.

Utah - Dept. of Employment Security, Industrial Commission, Salt Lake City 13.
Vermont - Unemployment Compensation Commission, Montpelier.
Virginia - Div. of Research and Statistics, Dept. of Labor and Industry,
Richmond 21.
Washington - Employment Security Dept., Olympia.
Wisconsin - Statistical Dept., Industrial Commission, Madison 3.
Wyoming - Employment Security Commission, Casper.

BIS REGIONAL OFFICES

New England - Regional Director, U. S. Bureau of Labor Statistics, Old South Bldg., 294 Washington St., Boston 8, Massachusetts (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont).
North Atlantic - Regional Director, U. S. Bureau of Labor Statistics, 1000 Parcel Post Bldg., 341 Ninth Avenue, New York 1, New York (Delaware, Pennsylvania, New Jersey, New York).
North Central - Regional Director, U. S. Bureau of Labor Statistics, 312 National War Agencies Bldg., 226 W. Jackson Blvd., Chicago 6, Illinois (Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota, Wisconsin).
Southern - Regional Director, U. S. Bureau of Labor Statistics, 6th Floor Silvey Bldg., 114 Marietta Street, N. W., Atlanta 3, Georgia (Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas).
Pacific-Rocky Mountain - Regional Director, U. S. Bureau of Labor Statistics, 546 Federal Office Bldg., San Francisco 2, California (Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming).

Technical advice and assistance on employment statistics in the states of Virginia, West Virginia, Maryland, and the District of Columbia will be given by the Bureau's Washington Office.

GLOSSARY

Continental United States - Covers only the 48 States and the District of Columbia.

Contract construction - Covers only firms engaged in the construction business on a contract basis for others. Force-account construction workers, i.e., hired directly by and on the pay rolls of Federal, State, and local government, public utilities, and private establishments, are excluded.

Defense Agencies - Covers civilian employees of the National Military Establishment, Maritime Commission, National Advisory Committee for Aeronautics, The Panama Canal, Philippine Alien Property Administration, Philippine War Damage Commission, Office of Selective Service Records, War Assets Administration, Office of Defense Transportation, Office of Scientific Research and Development, National Security Resources Board.

Family Allowances - Represents the Government's contribution; the amount contributed by the personnel is included under pay rolls.

Federal Government-Executive branch - Includes U. S. Navy Yards, Federal arsenals, and force-account construction. Fourth-class postmasters are included under the executive branch in table 4, but are excluded from the government data shown in tables 1 and 3. Employment shown here for the executive branch differs from data published by the U. S. Civil Service Commission in the following respects: (1) Employment collected and published by the Civil Service Commission as of the last day of the month, is here presented as of the first day of the next month, (2) substitute rural mail carriers are excluded; (3) employment includes in December of each year the additional postal employees necessitated by the Christmas season, excluded from published Civil Service Commission figures starting 1942; (4) seamen and trainees who are hired and paid by private steamship companies having contracts with the Maritime Commission are excluded; (5) the Panama Railroad Company is shown here under Government corporations but is included under the executive branch by the Civil Service Commission.

Finance - Covers establishments operating in the fields of finance, insurance, and real estate; excludes the Federal Reserve District Banks and the mixed ownership banks of the Farm Credit Administration.

Government - Covers Federal, State, and local governmental establishments performing legislative, executive, and judicial functions, as well as all government-owned and operated establishments and institutions (arsenals, navy yards, hospitals, etc.) government corporations and government force-account construction. The data shown in table 1 exclude fourth-class postmasters because they presumably have other major jobs.

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

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

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

Leave payments - Payments were authorized by Public Law 704 of the 79th Congress and were continued by Public Law 254 of the 80th Congress to enlisted personnel who were discharged prior to September 1, 1946 for accrued and unused leave and to officers and enlisted personnel then on active duty for leave accrued in excess of 60 days. Value of bonds represents face value; interest is paid in addition when bonds are cashed. Lump-sum payments for terminal leave, which were authorized by Public Law 350 of the 80th Congress, and were started October 1947, are excluded here and included under pay rolls.

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

Military personnel and pay rolls - Data are for personnel on active duty. Reserve personnel are excluded if on inactive duty or if on active duty for a brief training or emergency period. Personnel is as of the first of the month and pay rolls are for the entire month. Through October 1, 1947, discharged officer personnel were included until the end of their terminal-leave period; discharged enlisted personnel were included from October 1, 1946 through October 1, 1947 only. After October 1, 1947, lump-sum terminal-leave payments at time of discharge (authorized by Public Law 350 of the 80th Congress) were made.

Coast Guard pay rolls for all periods and Army pay rolls through April 1947 represent actual expenditures. Other pay rolls represent estimated obligations based on an average monthly personnel count. Pay rolls for the Navy 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.

Nonagricultural establishments - Governmental or private business establishments; (1) that are physically located within continental United States; and (2) whose principal activity can be classified under one of the following industry divisions-manufacturing, mining, contract construction, transportation and public utilities, wholesale and retail trade, finance, service, or government.

Pay rolls - Private pay rolls represent pay rolls of production and related workers (or nonsupervisory employees and working supervisors) before deductions for old-age and unemployment insurance, group insurance, withholding tax, bonds, and union dues, but after deductions for damaged work. Includes pay for sick leave, holidays, and vacations taken. Excludes cash payments for vacations not taken, retroactive pay not earned during period reported, value of payments in kind, and bonuses, unless earned and paid regularly each pay period. In mining industries further deductions are made for explosives or other supplies furnished by the company. In coal mining portal-to-portal pay is included. Federal civilian pay rolls are for all employees before deductions for income tax, retirement, and bonds.

Production and related workers - Includes working foremen and all non-supervisory workers (including lead men and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial, watchman services, products development, auxiliary production for plant's own use (e.g., power plant) and record-keeping and other services closely associated with the above production operations. Excludes supervisory employees (above the working foreman level) and their clerical staffs, routemen, salesmen, and other groups of non-production workers defined below under wage and salary workers.

Service - Covers establishments primarily engaged in rendering services to individuals and business firms. Excludes automobile repair services, government owned and operated hospitals, museums, etc., and domestic service.

Trade - Covers establishments engaged in wholesale trade, i.e., selling merchandise to retailers, and in retail trade, i.e., selling merchandise for personal or household consumption, and rendering services incidental to the sale of goods. Includes auto repair services.

Transportation and public utilities - Covers only privately owned and operated enterprises engaged in providing all types of transportation and related services; telephone, telegraph and other communication services; or providing electricity, gas, steam, water, or sanitary service. Government owned and operated establishments are included under government.

Wage and salary workers - In addition to production and related workers as defined above, includes workers engaged in the following activities: executive, purchasing, finance, accounting, legal, personnel (including cafeterias, medical, etc.), professional and technical activities, sales, sales-delivery, advertising, credit, collection, and in installation and servicing of own products, routine office functions, factory supervision (above the working foreman level) and other workers not included as production workers. Also includes employees on the establishment pay roll engaged in new construction and major additions or alterations to the plant who are utilized as a separate work force (force-account construction workers).

Wage earner - See production workers.

Washington, D. C. - Data for the executive branch of the Federal Government also include areas in Maryland and Virginia which are within the metropolitan area, as defined by the Bureau of the Census.