

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
MARCH 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

ESTIMATES OF MANUFACTURING EMPLOYMENT - NEW SERIES

Industries in the Machinery, Except Electrical, Group

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

In this group, only the following industries required adjustment: machinery and machine-shop products; engines and turbines; agricultural machinery, excluding tractors; machine-tool accessories; pumps and pumping equipment. Despite the lapse of several years without any adjustment to levels other than the 1939 Census of Manufactures, the changes are relatively small.

This report shows the new production-worker employment estimates and indexes of employment and pay rolls for the months currently presented. A set of summary sheets presenting comparable data for the industries in the machinery, except electrical, group from January 1939 to date will be provided upon request to the Bureau of Labor Statistics.

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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 i - viii.

<u>TABLE</u>	<u>CONTENTS</u>	<u>PAGE</u>
1.	Estimated Number of Wage and Salary Workers in Nonagricultural Establishments, by Industry Division	2
2.	Estimated Number of Wage and Salary Workers in Manufacturing Industries, by Major Industry Group	3
3.	Federal Employment and Pay Rolls in All Areas and in Continental United States, and Total Government Employment and Pay Rolls in Washington, D. C.	4
4.	Personnel and Pay of the Military Branch of the Federal Government	5
5.	Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State, February 1948	6
5a.	Estimated Number of Wage and Salary Workers in Non-agricultural Establishments for Selected States, February 1948	8
6.	Estimated Number of Production Workers in Manufacturing Industries	9
7.	Estimated Number of Employees in Selected Nonmanufacturing Industries	15
8.	Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries	16
9.	Indexes of Employment and Weekly Pay Rolls in Selected Nonmanufacturing Industries	22
	Explanatory Notes	i
	Glossary	v

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

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

(In thousands)

Industry division	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
TOTAL	42,980	42,680	43,011	42,043	41,849
Manufacturing	15,375	15,785	15,876	15,510	15,475
Mining	897	889	896	879	880
Contract construction	1,627	1,564	1,691	1,534	1,502
Transportation and public utilities	4,009	3,993	3,992	4,020	4,011
Transportation	2,785	2,776	2,781	2,856	2,853
Communication	728	723	719	699	697
Other public utilities	496	494	492	465	461
Trade	8,806	8,727	8,821	8,565	8,507
Finance	1,611	1,605	1,595	1,555	1,546
Service	4,729	4,730	4,723	4,565	4,561
Government	5,426	5,387	5,417	5,415	5,367
Federal	1,758	1,746	1,743	1,945	1,952
State and local	3,668	3,641	3,674	3,470	3,415

See explanatory notes, sections A - H.

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

(In thousands)

Major industry group	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
ALL MANUFACTURING	15,875	15,785	15,876	15,510	15,475
<u>Durable goods</u>	8,046	7,939	8,036	7,892	7,857
Iron and steel and their products	1,886	1,880	1,885	1,840	1,832
Electrical machinery	741	748	752	775	777
Machinery, except electrical	1,553	1,558	1,551	1,522	1,512
Transportation equipment, except automobiles	577	578	586	596	599
Automobiles	1,033	938	1,018	971	965
Nonferrous metals and their products	473	470	470	496	498
Lumber and timber basic products	742	730	735	673	660
Furniture and finished lumber products	539	544	544	524	523
Stone, clay, and glass products	502	493	495	495	491
<u>Nondurable goods</u>	7,829	7,846	7,840	7,618	7,618
Textile-mill products and other fiber manufactures	1,396	1,390	1,376	1,355	1,362
Apparel and other finished textile products	1,397	1,399	1,375	1,277	1,274
Leather and leather products	411	417	414	404	405
Food	1,526	1,536	1,565	1,487	1,485
Tobacco manufactures	101	102	101	100	103
Paper and allied products	470	469	473	467	467
Printing, publishing, and allied industries	707	709	712	687	687
Chemicals and allied products	754	756	757	750	747
Products of petroleum and coal	235	233	234	224	222
Rubber products	269	273	275	293	295
Miscellaneous industries	563	562	558	574	571

See explanatory notes, section A - H.

4.

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

(In thousands)

Area and branch	Employment (as of first of month)			Pay rolls (total for month)		
	1948		1947	1948		1947
	Mar. 1/	Feb. 1/	Mar.	Mar. 1/	Feb. 1/	Mar.
<u>Total (including areas outside United States)</u>						
Total Federal	2,004.2	1,992.2	2,247.3	\$502,509	\$445,150	\$511,062
Executive	1,964.3	1,952.5	2,205.1	492,855	435,894	501,699
Defense agencies	897.9	895.8	1,091.2	220,718	191,372	240,257
Post Office Dept.	439.5	432.7	427.0	100,322	98,054	97,001
Other agencies	626.9	624.0	686.9	171,815	146,468	164,441
Legislative	7.2	7.1	7.0	2,496	2,404	2,365
Judicial	3.5	3.5	3.1	1,403	1,195	1,140
Government corporations	29.2	29.1	32.1	5,755	5,657	5,858
<u>Continental United States</u>						
Total Federal	1,778.6	1,766.2	1,964.8	\$459,992	\$408,628	\$466,236
Executive	1,745.9	1,733.7	1,930.7	451,018	399,975	457,664
Defense agencies	708.9	705.8	844.8	186,268	161,996	202,387
Post Office Dept.	438.0	431.2	425.6	99,970	97,703	96,681
Other agencies	599.0	596.7	660.3	164,780	140,276	158,596
Legislative	7.2	7.1	7.0	2,496	2,404	2,365
Judicial	3.4	3.4	3.0	1,364	1,160	1,105
Government corporations	22.1	22.0	24.1	5,114	5,089	5,102
<u>Washington, D. C.</u>						
Total government	226.1	224.5	245.0	\$ 69,123	\$ 57,981	\$ 64,932
District of Columbia government	18.6	18.6	18.0	4,627	4,281	4,140
Federal	207.5	205.9	227.0	64,496	53,700	60,792
Executive	199.7	198.2	219.4	61,785	51,099	58,228
Defense agencies	66.0	65.6	75.3	18,396	15,910	19,653
Post Office Dept.	7.4	7.2	7.6	2,227	2,165	2,215
Other agencies	126.3	125.4	136.5	41,162	33,024	36,360
Legislative	7.2	7.1	7.0	2,496	2,404	2,365
Judicial	.6	.6	.6	215	197	199

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

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

(In thousands)

Personnel and pay	1948		1947	Average monthly personnel and total annual pay	
	March	February	March	1948	1947
Personnel, total as of first of month, including those on active duty and those on terminal leave.....	1,409	1,407	1,836	8,944	345
Army and Air Force	<u>1/</u> 909	<u>1/</u> 905	1,199	6,733	192
Navy	400	402	510	1,744	124
Marine Corps	80	80	105	311	19
Coast Guard	20	20	22	156	10
Men	1,393	1,390	1,812	8,833	<u>2/</u>
Women	16	17	24	111	<u>2/</u>
Pay, total	\$285,038	\$281,423	\$669,501	\$11,173,186	\$331,523
Army and Air Force.....	175,697	170,209	484,262	8,143,833	155,482
Navy	90,459	91,172	150,284	2,408,736	143,238
Marine Corps	14,260	15,582	24,252	392,140	16,877
Coast Guard	4,622	4,460	10,703	228,477	15,926
Pay rolls	242,969	240,493	302,464	10,140,852	331,523
Mustering-out pay	13,077	11,838	18,292	-	-
Family allowances	24,997	23,566	26,548	1,032,334	-
Leave payments	3,995	5,526	322,197	-	-
Cash	905	1,182	22,911	-	-
Bonds	3,090	4,344	299,286	-	-

1/ Air Force personnel, 353,000 in February and 365,000 in March 1948.2/ Not available.

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

(In thousands)

Region and State	1948		1947		
	Feb.	Jan.	Dec.	Feb.	Jan.
New England:					
Maine	112.2	112.5	113.8	118.0	117.9
New Hampshire	85.5	85.7	85.3	83.5	82.4
Vermont <u>1/</u>	38.8	39.1	40.6	42.7	42.9
Massachusetts	746.0	747.3	757.2	765.5	761.6
Rhode Island	154.5	153.5	154.6	154.0	153.6
Connecticut <u>1/</u>	412.1	413.2	415.5	421.5	424.2
Middle Atlantic:					
New York	1,906.4	1,905.8	1,924.6	1,939.1	1,922.9
New Jersey	757.8	757.3	764.0	768.4	770.3
Pennsylvania	1,512.3	1,514.6	1,528.3	1,513.2	1,518.9
East North Central:					
Ohio	1,243.9	1,246.0	1,250.9	1,251.3	1,242.7
Indiana	552.8	556.3	559.0	556.2	549.6
Illinois	1,267.0	1,271.0	1,273.6	1,251.1	1,244.4
Michigan	970.0	1,019.6	1,024.2	1,038.5	1,027.8
Wisconsin <u>1/</u>	434.2	433.9	436.1	423.4	419.1
West North Central:					
Minnesota	198.3	199.3	200.3	198.6	199.0
Iowa	150.5	150.8	151.8	149.4	148.8
Missouri	363.5	364.5	367.6	359.8	355.3
North Dakota	6.4	6.6	6.7	6.3	6.4
South Dakota	11.1	11.2	11.3	11.5	11.4
Nebraska	43.0	43.8	46.3	42.8	44.1
Kansas	78.3	80.5	81.9	78.1	78.9
South Atlantic:					
Delaware <u>2/</u>	45.9	45.7	46.1	44.6	45.3
Maryland	228.5	226.9	229.6	237.3	237.9
District of Columbia	16.8	17.3	17.5	16.9	16.9
Virginia	213.6	213.6	215.3	210.1	211.4
West Virginia	130.3	132.4	132.5	132.0	131.9
North Carolina	379.9	382.2	380.3	375.7	373.9
South Carolina	196.9	198.3	198.9	189.5	188.5
Georgia	258.5	259.4	257.4	255.9	257.9
Florida	86.2	87.2	86.0	88.1	90.6
East South Central:					
Kentucky	129.4	129.5	130.4	129.9	129.1
Tennessee	252.8	252.1	252.4	250.9	250.0
Alabama	232.5	233.6	232.0	225.0	224.7
Mississippi	90.5	95.5	95.7	93.5	92.7

Table 5. - Estimated Number of Wage and Salary Workers in Manufacturing Industries by State - Continued

(In thousands)

Region and State	1948		Dec.	1947	
	Feb.	Jan.		Feb.	Jan.
West South Central:					
Arkansas	75.4	75.6	76.0	67.6	67.4
Louisiana	137.2	140.2	142.1	132.4	132.7
Oklahoma	55.0	56.4	57.0	54.6	54.6
Texas	340.2	342.9	346.8	326.0	324.8
Mountain:					
Montana	17.3	17.7	18.5	16.4	16.6
Idaho	18.2	18.6	19.2	17.7	17.9
Wyoming	6.1	6.1	7.0	5.8	5.8
Colorado	55.1	57.2	61.0	53.5	56.0
New Mexico	10.1	10.1	10.4	9.9	10.0
Arizona ^{1/}	14.7	14.3	14.3	13.6	14.0
Utah	23.9	25.1	26.8	22.5	23.0
Nevada	3.5	3.6	3.6	3.5	3.6
Pacific:					
Washington	173.0	173.0	174.6	166.1	162.3
Oregon	109.2	109.8	111.4	115.2	116.1
California	702.9	704.8	714.8	693.6	697.1

See explanatory notes, Sections H and I.

^{1/} New series are based on 1945 Standard Industrial Classification. For the states of Connecticut, Vermont, and Wisconsin these series are not strictly comparable with data published prior to the February 1948 issue. In the case of Arizona the figures are not comparable with those previously published.

^{2/} Data have been revised as follows:

Delaware - October and November 1947 to 45.8 and 45.8.

8.

Table 5a. - Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States

(In thousands)

State	1948		Dec.	1947	
	Feb.	Jan.		Feb.	Jan.
Connecticut	765	769	787	762	763
Illinois	3,151	3,172	3,225	3,081	3,078
Indiana	1,175	1,185	1,223	1,168	1,160
Maryland	675	682	699	655	660
Massachusetts	1,706	1,711	1,768	1,696	1,696
Minnesota	764	773	794	741	748
Montana	132	134	138	130	130
Nevada <u>1/</u>	49	50	51	49	50
New Jersey	1,554	1,561	1,604	1,559	1,562
New York	5,375	5,397	5,559	5,364	5,363
Pennsylvania	3,547	3,566	3,663	3,483	3,496
Rhode Island	289	289	299	287	288
Texas	1,659	1,671	1,708	1,605	1,603
Utah	168	171	177	163	164
Vermont <u>1/</u>	95	95	98	96	96
Washington	646	648	665	635	630
Wisconsin	971	971	996	936	937

See explanatory notes, sections H and I.

1/ Does not include contract construction.

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

(In thousands)

Industry group and industry	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
ALL MANUFACTURING	12,829	12,756	12,846	12,614	12,593
Durable goods	6,614	6,524	6,615	6,532	6,502
Nondurable goods	6,215	6,232	6,231	6,082	6,091
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	1,599	1,594	1,600	1,567	1,562
Blast furnaces, steel works, and rolling mills	516.1	508.5	508.8	484.4	484.7
Gray-iron and semisteel castings	113.9	114.5	114.4	117.1	116.4
Malleable-iron castings	37.9	37.8	37.9	34.3	34.0
Steel castings	69.3	68.6	67.7	66.2	66.5
Cast-iron pipe and fittings	28.3	28.0	28.7	27.0	26.8
Tin cans and other tinware	44.5	45.7	47.4	41.3	41.4
Wire drawn from purchased rods	30.6	30.9	31.4	30.3	30.4
Wirework	43.4	42.5	43.5	42.5	39.8
Cutlery and edge tools	24.8	24.6	24.7	28.0	27.9
Tools (except edge tools, machine tools, files, and saws)	25.6	25.7	25.9	27.1	26.8
Hardware	54.3	54.1	53.2	51.1	50.7
Plumbers' supplies	40.2	40.0	40.0	40.8	41.1
Stoves, oil burners, and heating equipment not elsewhere classified	83.1	86.5	82.5	85.8	84.9
Steam and hot-water heating apparatus and steam fittings	62.7	63.2	62.6	70.2	70.2
Stamped and enameled ware and galvanizing	114.1	115.1	115.5	115.2	114.3
Fabricated structural and ornamental metalwork	60.7	60.2	60.5	59.1	58.0
Metal doors, sash, frames, molding, and trim	10.5	10.2	10.8	10.1	10.1
Bolts, nuts, washers, and rivets	28.9	28.7	28.7	28.8	29.0
Forgings, iron and steel	37.5	37.6	37.8	36.7	36.5
Wrought pipe, welded and heavy-riveted	19.2	19.1	19.8	17.8	18.5
Screw-machine products and wood screws	36.8	36.6	36.1	39.4	39.5
Steel barrels, kegs, and drums	7.9	8.1	8.4	8.2	8.1
Firearms	20.3	20.4	20.0	19.0	19.1
ELECTRICAL MACHINERY <u>1/</u>	566	573	577	599	601
Electrical equipment	371.7	376.5	378.4	379.4	380.5
Radios and phonographs	93.0	99.2	100.3	110.1	110.6
Communication equipment	96.5	97.2	98.2	109.7	110.2

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

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

(In thousands)

Industry group and industry	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
MACHINERY, EXCEPT ELECTRICAL 1/	1,206	1,211	1,206	1,189	1,181
Machinery and machine-shop products	500.1	502.8	500.2	504.3	502.9
Engines and turbines	54.7	54.4	54.6	55.9	55.7
Tractors	62.2	61.9	61.4	54.9	55.2
Agricultural machinery, excluding tractors	75.9	74.6	72.3	61.3	61.2
Machine tools	49.1	50.4	50.4	58.2	59.2
Machine-tool accessories	55.9	56.3	56.4	64.1	65.5
Textile machinery	41.0	40.7	40.7	37.8	37.2
Pumps and pumping equipment	71.3	73.0	73.1	78.2	77.6
Typewriters	24.9	25.1	25.8	23.4	23.1
Cash registers; adding, and calculating machines	46.1	45.9	45.3	40.0	38.8
Washing machines, wringers, and driers, domestic	16.3	16.5	16.2	13.8	13.4
Sewing machines, domestic and industrial	13.7	13.5	13.4	11.4	11.2
Refrigerators and refrigeration equipment	81.2	81.6	82.6	71.0	67.3
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	455	455	462	471	472
Locomotives	26.6	26.5	26.3	26.0	26.9
Cars, electric- and steam-railroad	54.4	54.0	55.9	54.0	53.5
Aircraft and parts, excluding aircraft engines	136.1	135.3	134.7	141.2	141.9
Aircraft engines	24.6	24.9	25.3	28.0	28.6
Shipbuilding and boatbuilding	125.9	127.8	132.9	140.4	140.7
Motorcycles, bicycles, and parts	14.8	14.6	14.5	12.8	12.5
AUTOMOBILES	826	747	820	798	791
NONFERROUS METALS AND THEIR PRODUCTS 1/	405	402	402	430	432
Smelting and refining, primary, of nonferrous metals	40.8	40.2	39.9	41.1	41.1
Alloying; and rolling and drawing of nonferrous metals, except aluminum	54.6	53.1	53.6	62.6	63.8
Clocks and watches	28.8	28.6	28.6	28.2	28.6
Jewelry (precious metals) and jewelers' findings	27.6	27.5	27.3	27.1	27.2
Silverware and plated ware	27.5	27.1	26.8	24.2	24.0
Lighting equipment	33.1	33.9	33.6	38.5	38.4
Aluminum manufactures	45.2	45.2	45.3	50.8	50.9
Sheet-metal work, not elsewhere classified	36.8	36.9	37.3	39.5	39.5

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

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

(In thousands)

Industry group and industry	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
LUMBER AND TIMBER BASIC PRODUCTS <u>1/</u>	672	661	665	611	598
Sawmills and logging camps	536.6	526.7	531.3	488.5	477.0
Planing and plywood mills	135.3	134.5	134.6	122.7	121.1
FURNITURE AND FINISHED LUMBER PRODUCTS <u>1/</u>	454	459	459	440	441
Mattresses and bedsprings	34.6	36.2	36.3	31.6	31.4
Furniture	246.9	249.4	248.6	233.6	235.1
Wooden boxes, other than cigar	34.6	35.2	35.5	35.9	35.2
Caskets and other morticians' goods	19.4	19.4	19.7	20.1	19.9
Wood preserving	15.6	15.7	16.5	17.8	17.6
Wood, turned and shaped	33.5	32.9	32.2	33.8	34.4
STONE, CLAY, AND GLASS PRODUCTS <u>1/</u>	431	422	424	427	424
Glass and glassware	117.8	115.1	117.2	121.8	119.7
Glass products made from purchased glass	12.5	12.4	12.5	13.4	13.4
Cement	36.4	36.6	36.3	34.9	35.0
Brick, tile, and terra cotta	75.5	73.7	76.3	71.1	70.5
Pottery and related products	57.6	56.5	56.1	56.2	56.2
Gypsum	6.6	6.6	6.6	5.9	6.1
Wallboard, plaster (except gypsum), and mineral wool	12.4	12.5	12.6	10.8	11.1
Lime	9.4	9.2	9.3	9.0	9.0
Marble, granite, slate, and other products	18.4	17.9	18.0	17.7	17.4
Abrasives	17.5	17.1	13.8	20.1	20.1
Asbestos products	22.1	21.9	21.9	21.4	21.4
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES <u>1/</u>	1,277	1,271	1,258	1,242	1,247
Cotton manufactures, except smallwares	529.4	525.3	523.6	519.0	520.2
Cotton smallwares	14.9	14.9	14.6	15.6	15.9
Silk and rayon goods	111.6	110.8	107.4	106.7	106.8
Woolen and worsted manufactures, except dyeing and finishing	178.3	179.5	177.4	175.1	179.4
Hosiery	141.2	140.2	139.1	138.2	138.0
Knitted cloth	11.7	11.7	11.6	11.9	12.0
Knitted outerwear and knitted gloves	31.5	31.4	30.6	33.8	34.6
Knitted underwear	50.3	49.8	49.1	43.5	42.8
Dyeing and finishing textiles, including woolen and worsted	88.5	88.9	87.9	86.2	86.2
Carpets and rugs, wool	36.6	36.2	35.7	31.2	30.5
Hats, fur-felt	13.7	13.7	13.7	13.8	13.9
Jute goods, except felts	4.1	4.2	4.0	4.3	4.3
Cordage and twine	17.1	17.2	16.8	16.5	16.8

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

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

(In thousands)

Industry group and industry	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>1/</u>	1,221	1,223	1,203	1,120	1,119
Men's clothing, not elsewhere classified	314.5	311.3	308.1	287.5	287.8
Shirts, collars, and nightwear	82.3	81.4	81.6	74.1	73.7
Underwear and neckwear, men's	19.0	18.7	18.1	18.1	18.5
Work shirts	17.5	16.8	15.8	16.5	16.8
Women's clothing, not elsewhere classified	481.7	485.3	476.2	442.3	439.4
Corsets and allied garments	19.9	20.1	19.7	17.5	17.0
Millinery	27.6	27.9	26.4	26.2	26.0
Handkerchiefs	5.1	5.0	4.9	4.9	4.8
Curtains, draperies, and bedspreads	30.6	33.8	31.6	23.5	24.8
Housefurnishings, other than curtains, etc.	30.4	29.2	30.0	28.7	28.8
Textile bags	27.3	27.8	28.2	29.4	29.7
LEATHER AND LEATHER PRODUCTS <u>1/</u>	368	374	371	363	364
Leather	45.8	46.8	46.8	46.0	46.3
Boot and shoe cut stock and findings	18.9	19.5	19.7	20.2	20.1
Boots and shoes	229.5	233.1	231.8	224.4	224.2
Leather gloves and mittens	12.6	12.5	12.2	12.7	12.8
Trunks and suitcases	13.9	14.0	13.3	13.6	13.7
FOOD <u>1/</u>	1,064	1,074	1,104	1,055	1,059
Slaughtering and meat packing	180.9	187.0	196.7	172.5	178.2
Butter	32.8	32.0	32.6	34.0	33.3
Condensed and evaporated milk	19.3	18.8	18.4	20.3	19.9
Ice cream	24.4	23.6	23.6	25.4	24.4
Flour	37.8	38.2	39.2	38.8	38.7
Feeds, prepared	26.3	27.4	29.3	28.5	27.5
Cereal preparations	12.1	12.4	12.1	12.6	12.5
Baking	219.4	216.9	215.4	209.8	208.5
Sugar refining, cane	19.2	20.2	18.4	17.8	16.3
Sugar, beet	5.6	6.5	10.6	5.4	6.0
Confectionery	65.9	70.3	74.7	63.7	62.5
Beverages, nonalcoholic	34.2	32.1	33.4	27.2	26.8
Malt liquors	67.6	66.9	68.0	63.3	62.7
Canning and preserving	122.1	123.4	128.5	129.4	137.9
TOBACCO MANUFACTURES	87	88	87	86	89
Cigarettes	33.2	33.5	33.6	32.9	33.4
Cigars	40.7	40.8	40.4	40.1	42.1
Tobacco (chewing and smoking and snuff)	6.9	6.9	7.0	7.0	7.2

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

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

(In thousands)

Industry group and industry	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
PAPER AND ALLIED PRODUCTS <u>1/</u>	385	384	387	387	387
Paper and pulp	200.4	199.7	199.8	193.5	193.4
Paper goods, other	57.3	57.3	57.9	58.0	57.9
Envelopes	12.7	12.5	12.4	12.0	12.0
Paper bags	18.2	18.0	18.1	19.5	19.8
Paper boxes	95.2	96.5	97.7	102.7	102.7
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	427	429	431	421	420
Newspapers and periodicals	144.8	144.1	143.6	138.7	137.3
Printing; book and job	177.5	179.7	181.7	176.7	177.9
Lithographing	31.4	31.8	32.0	32.8	32.8
Bookbinding	37.2	37.4	37.6	37.0	36.7
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	573	575	575	569	568
Paints, varnishes, and colors	50.7	51.5	50.7	49.9	49.2
Drugs, medicines, and insecticides	65.2	65.6	65.7	70.0	69.4
Perfumes and cosmetics	11.6	12.1	12.0	13.2	13.7
Soap	24.9	25.4	25.5	23.8	23.3
Rayon and allied products	63.7	63.7	63.2	60.9	61.4
Chemicals, not elsewhere classified	196.3	196.5	197.7	194.3	193.4
Explosives and safety fuses	22.4	22.1	22.0	21.0	20.7
Compressed and liquefied gases	10.0	9.8	9.9	9.2	9.3
Ammunition, small-arms	6.4	6.4	6.2	6.7	6.7
Fireworks	2.4	2.6	2.5	2.7	2.7
Cottonseed oil	17.5	19.4	21.7	17.9	19.5
Fertilizers	34.9	32.3	30.4	33.3	32.3
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	162	160	161	155	155
Petroleum refining	110.8	109.4	109.7	106.7	106.5
Coke and byproducts	30.6	30.3	30.5	27.9	28.1
Paving materials	1.6	1.8	2.0	2.4	2.3
Roofing materials	17.4	17.6	18.0	16.8	17.0

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

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

(In thousands)

Industry group and industry	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
RUBBER PRODUCTS <u>1/</u>	217	221	223	238	240
Rubber tires and inner tubes	108.8	111.6	113.5	125.5	126.6
Rubber boots and shoes	22.6	22.8	22.5	23.8	23.8
Rubber goods, other	85.7	86.5	86.8	88.3	89.5
MISCELLANEOUS INDUSTRIES <u>1/</u>	434	433	431	446	443
Instruments (professional and scientific), and fire-control equipment	27.7	27.7	27.7	28.3	28.3
Photographic apparatus	38.8	39.0	38.9	35.9	35.6
Optical instruments and ophthalmic goods	27.2	27.4	27.8	30.1	30.5
Pianos, organs, and parts	14.6	15.7	16.8	15.3	14.9
Games, toys, and dolls	38.8	36.3	33.5	32.6	30.9
Buttons	13.7	13.4	13.3	13.3	13.5
Fire extinguishers	2.6	2.5	2.6	3.2	3.2

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

1/ Estimates for the individual industries comprising the major industry group have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable series from January 1939 are available upon request to the Bureau of Labor Statistics. 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
Nonferrous metals and their products	March 1948	April 1948
Iron and steel and their products	April 1948	May 1948
Machinery, except electrical	May 1948	June 1948

Table 7. - Estimated Number of Employees in
Selected Nonmanufacturing Industries 1/
(In thousands)

Industry group and industry	1948			1947	
	Mar.	Feb.	Jan.	Mar.	Feb.
MINING: <u>2/</u>					
Coal:					
Anthracite	77.4	76.6	76.2	77.2	78.2
Bituminous coal	376	373	380	369	372
Metal	90.4	90.2	89.7	90.2	89.1
Iron	31.5	31.0	30.9	29.8	29.0
Copper	26.6	27.0	26.9	25.6	25.6
Lead and zinc	15.7	15.7	15.7	18.4	18.5
Gold and silver	8.7	8.7	8.6	8.4	8.3
Miscellaneous	7.8	7.8	7.7	7.8	7.6
Quarrying and nonmetallic	80.9	77.8	79.9	82.6	81.3
Crude petroleum and natural gas production <u>3/</u>	127.1	127.1	126.4	123.9	123.5
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railways <u>4/</u>	1,317	1,312	1,318	1,325	1,324
Street railways and busses <u>5/</u>	249	249	250	254	254
Telephone	627	623	620	599	594
Telegraph <u>6/</u>	36.9	36.8	36.6	37.9	38.3
Electric light and power	271	269	268	254	252
SERVICE:					
Hotels (year-round)	375	377	378	378	380
Power laundries <u>2/</u>	231	230	235	241	243
Cleaning and dyeing <u>2/</u>	90.0	86.8	88.9	93.1	91.4

See explanatory notes, section G.

1/ Includes all employees unless otherwise noted.

2/ Estimates, which include production and related workers only, have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics. The figures presented here supersede data shown in publications dated prior to:

Industry	Mimeographed release	Monthly Labor Review
Mining industries	April 1948	May 1948
Power laundries	February 1948	March 1948
Cleaning and dyeing	February 1948	March 1948

3/ Does not include well drilling or rig building.

4/ 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.

5/ Includes private and municipal street-railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.

6/ Includes all land-line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	- 1948			1947	1948			1947
	Mar.	Feb.	Jan.	Mar.	Mar.	Feb.	Jan.	Mar.
ALL MANUFACTURING	156.6	155.7	156.8	154.0	348.9	344.7	349.2	314.1
Durable goods	183.2	180.7	183.2	180.9	389.5	380.7	390.4	349.9
Nondurable goods	135.7	136.0	136.0	132.8	309.1	309.6	308.9	279.2
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	161.3	160.8	161.4	158.1	333.5	330.5	334.8	294.2
Blast furnaces, steel works, and rolling mills	132.9	130.9	131.0	124.7	260.9	257.5	261.2	213.8
Gray-iron and semisteel castings	183.0	184.0	183.9	188.2	421.7	414.9	416.4	401.9
Malleable-iron castings	197.0	196.7	197.2	178.6	469.7	467.6	480.1	388.9
Steel castings	216.3	214.2	211.3	206.6	457.2	432.0	442.1	383.3
Cast-iron pipe and fittings	160.8	159.1	162.9	153.5	385.2	375.4	394.4	362.0
Tin cans and other tinware	140.0	143.8	149.1	129.9	289.8	302.4	320.0	244.3
Wire drawn from purchased rods	139.4	140.5	142.7	137.9	267.5	268.7	271.6	241.4
Wirework	142.9	139.9	143.0	139.9	316.4	309.0	320.5	281.0
Cutlery and edge tools	160.6	159.4	160.3	181.5	381.6	377.2	381.9	409.7
Tools (except edge tools, machine tools, files, and saws)	167.0	167.9	169.2	176.9	377.8	378.4	381.0	364.3
Hardware	152.5	151.7	149.4	143.4	355.1	353.5	352.5	301.4
Plumbers' supplies	153.2	152.6	152.5	155.6	329.0	320.3	321.8	294.3
Stoves, oil burners, and heating equipment not elsewhere classified	169.1	175.9	180.0	174.7	368.6	387.2	395.8	353.5
Steam and hot-water heating apparatus and steam fittings	194.2	195.7	194.0	217.6	416.5	425.1	403.7	422.3
Stamped and enameled ware and galvanizing	192.8	194.6	195.2	194.7	447.0	447.4	456.0	408.5
Fabricated structural and ornamental metalwork	170.9	169.4	170.3	166.3	343.4	335.4	339.7	307.1
Metal doors, sash, frames, molding, and trim	135.4	131.2	139.3	130.2	292.2	276.9	296.7	264.1
Bolts, nuts, washers, and rivets	190.0	188.2	188.4	189.2	422.4	406.0	393.1	357.2
Forgings, iron and steel	228.8	229.5	231.0	224.0	487.5	496.2	502.4	447.4
Wrought pipe, welded and heavy-riveted	215.5	214.6	222.5	199.5	455.3	443.2	457.2	363.0
Screw-machine products and wood screws	203.9	203.2	200.1	218.6	456.5	452.1	446.1	456.1
Steel barrels, kegs, and drums	122.1	125.0	130.3	127.4	300.8	297.9	333.7	301.8
Firearms	390.0	383.9	375.4	357.3	911.3	872.2	846.7	746.3
ELECTRICAL MACHINERY <u>1/</u>	218.5	221.1	222.7	231.3	450.1	456.2	462.0	429.6
Electrical equipment	203.5	206.1	207.2	207.7	419.6	424.0	430.6	382.0
Radios and phonographs	222.7	225.6	228.0	250.2	487.2	493.1	507.3	497.7
Communication equipment	297.4	299.3	302.4	338.0	578.6	593.7	586.4	622.0

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948		1947		1948		1947	
	Mar.	Feb.	Jan.	Mar.	Mar.	Feb.	Jan.	Mar.
MACHINERY, EXCEPT ELECTRICAL 1/	228.3	229.2	228.3	225.1	465.3	462.2	464.1	416.6
Machinery and machine-shop products	240.9	242.2	240.9	242.9	496.4	495.5	494.9	452.3
Engines and turbines	293.3	291.6	292.9	299.8	632.3	622.1	625.5	580.0
Tractors	198.3	197.9	196.4	175.5	353.8	351.9	354.3	278.4
Agricultural machinery, excluding tractors	266.1	261.6	253.5	214.9	576.8	550.5	534.9	398.4
Machine tools	134.1	137.6	137.6	159.0	248.6	254.4	250.1	276.8
Machine-tool accessories	216.6	218.0	218.6	248.2	388.9	398.0	398.6	416.2
Textile machinery	187.4	186.0	185.8	172.4	439.9	422.9	417.9	354.7
Pumps and pumping equipment	286.8	293.5	293.9	314.3	617.7	627.0	622.0	624.0
Typewriters	153.5	154.9	158.8	144.6	347.5	357.6	366.1	288.9
Cash registers; adding, and calculating machines	234.2	233.4	230.2	203.3	499.9	489.0	491.9	402.8
Washing machines, wringers, and driers, domestic	217.8	221.1	216.8	185.3	447.8	470.4	464.3	357.1
Sewing machines, domestic and industrial	174.9	172.6	171.0	145.1	408.6	398.2	397.9	297.2
Refrigerators and refrigeration equipment	230.9	232.2	234.9	201.8	456.8	433.7	479.2	360.9
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	286.6	286.6	291.2	296.7	585.9	579.1	598.8	556.9
Locomotives	411.3	409.1	406.7	402.3	908.6	869.2	883.0	723.7
Cars, electric- and steam-railroad	221.8	220.2	228.0	220.3	490.3	479.5	500.6	446.0
Aircraft and parts, excluding aircraft engines	342.9	341.1	339.5	355.8	675.9	667.3	657.4	662.2
Aircraft engines	276.9	280.1	284.0	314.9	473.9	469.4	482.9	479.9
Shipbuilding and boatbuilding	181.8	184.5	191.9	202.8	380.0	381.6	416.7	386.0
Motorcycles, bicycles, and parts	211.7	209.4	207.6	184.0	426.6	420.6	414.5	349.5
AUTOMOBILES	205.3	185.6	203.7	198.2	390.3	350.0	397.1	347.7
NONFERROUS METALS AND THEIR PRODUCTS 1/	176.7	175.3	175.3	187.5	370.3	366.2	366.1	359.0
Smelting and refining, primary, of nonferrous metals	147.8	145.4	144.5	148.8	307.2	303.7	303.1	283.1
Alloying; and rolling and drawing of nonferrous metals, except aluminum	140.6	136.9	138.2	161.4	283.5	273.2	273.4	300.7
Clocks and watches	141.9	141.1	140.8	139.1	339.1	333.4	326.2	302.3
Jewelry (precious metals) and jewelers' findings	191.0	190.4	189.3	187.5	391.8	396.2	383.4	355.6
Silverware and plated ware	226.5	223.1	221.0	199.4	543.3	525.6	520.5	436.8
Lighting equipment	161.7	165.4	164.1	187.9	328.4	333.7	337.8	337.0
Aluminum manufactures	192.1	192.0	192.2	215.8	362.0	366.8	371.3	384.5
Sheet-metal work, not elsewhere classified	196.4	196.9	199.0	210.5	433.0	429.7	436.8	408.4

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Mar.	Feb.	Jan.	Mar.	Mar.	Feb.	Jan.	Mar.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 1/	154.6	154.9	152.4	141.9	359.7	362.0	353.4	317.7
Men's clothing, not elsewhere classified	137.0	135.5	134.2	125.2	324.8	316.4	313.4	281.3
Shirts, collars, and nightwear	111.2	110.0	110.4	100.2	280.9	270.2	273.0	233.7
Underwear and neckwear, men's	112.0	110.3	106.6	107.0	313.7	300.0	292.0	275.6
Work shirts	123.7	119.0	112.0	116.9	302.5	284.6	247.5	274.3
Women's clothing, not elsewhere classified	168.3	169.5	166.4	154.5	376.4	387.1	374.8	340.0
Corsets and allied garments	106.1	107.0	104.9	93.1	241.6	237.7	234.5	196.6
Millinery	108.1	109.2	103.4	102.6	214.1	238.5	204.4	197.2
Handkerchiefs	99.6	97.9	95.7	96.4	259.4	243.4	222.5	228.0
Curtains, draperies, and bedspreads	172.1	190.5	178.0	132.5	397.0	431.4	414.9	285.2
Housefurnishings, other than curtains, etc.	272.0	261.5	268.6	257.0	609.2	572.9	597.8	515.8
Textile bags	216.9	220.2	223.7	233.4	449.3	461.7	481.1	459.5
LEATHER AND LEATHER PRODUCTS 1/	105.9	107.7	106.7	104.7	233.7	244.0	240.7	222.2
Leather	91.6	93.6	93.5	92.0	192.1	201.6	200.3	185.2
Boot and shoe cut stock and findings	94.7	97.8	98.8	101.3	187.9	198.6	201.4	190.5
Boots and shoes	99.4	101.0	100.4	97.2	225.6	235.9	233.8	213.7
Leather gloves and mittens	125.9	125.4	121.9	126.8	253.3	252.6	245.3	236.2
Trunks and suitcases	166.8	168.6	159.3	163.9	364.4	366.9	321.6	320.9
FOOD 1/	124.5	125.7	129.3	123.5	264.5	267.3	275.1	239.3
Slaughtering and meat packing	134.0	138.5	145.7	127.7	276.6	263.3	304.2	232.6
Butter	162.8	158.8	162.0	169.1	330.3	332.7	330.3	323.5
Condensed and evaporated milk	177.2	172.5	169.3	186.2	403.0	388.1	369.8	380.2
Ice cream	138.5	133.8	133.7	144.3	261.3	250.9	248.0	251.7
Flour	136.0	137.5	141.3	139.8	275.8	298.3	305.9	298.9
Foods, prepared	152.0	158.7	169.4	164.8	329.6	314.7	379.0	349.3
Cereal preparations	144.7	147.8	145.0	150.3	297.8	322.2	307.8	294.7
Baking	115.2	113.9	113.1	110.2	226.6	233.5	221.5	200.7
Sugar refining, cane	120.8	127.2	116.2	112.3	245.2	232.3	216.9	208.1
Sugar, beet	43.4	56.3	91.5	46.4	98.9	126.7	188.0	84.7
Confectionery	118.3	126.2	134.1	114.3	260.1	303.1	295.3	233.6
Beverages, nonalcoholic	143.6	134.9	140.1	113.9	241.0	226.7	237.1	176.9
Malt liquors	167.0	165.5	168.2	156.5	293.0	289.9	289.4	256.2
Canning and preserving	81.2	82.1	85.5	86.1	204.6	216.5	216.2	197.4
TOBACCO MANUFACTURES	93.5	94.0	93.7	92.2	205.5	196.7	210.8	193.1
Cigarettes	121.0	122.1	122.6	119.9	246.3	219.2	259.6	226.8
Cigars	80.1	80.1	79.4	78.9	181.6	184.3	181.7	176.3
Tobacco (chewing and smoking) and snuff	74.7	75.7	76.3	76.5	154.1	156.5	155.7	144.4

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Mar.	Feb.	Jan.	Mar.	Mar.	Feb.	Jan.	Mar.
LUMBER AND TIMBER BASIC PRODUCTS 1/	159.8	157.3	158.3	145.4	383.4	375.1	372.7	310.1
Sawmills and logging camps	171.1	167.9	169.4	155.7	412.4	401.1	400.3	334.5
Planing and plywood mills	171.1	170.1	170.2	155.1	403.8	402.5	398.7	323.3
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	138.3	139.8	139.8	134.2	326.9	328.1	330.3	292.0
Mattresses and bedsprings	168.8	176.7	177.1	154.4	363.2	385.0	388.3	303.6
Furniture	138.8	140.2	139.8	131.3	330.9	333.6	333.4	288.8
Wooden boxes, other than cigar	122.2	124.3	125.3	126.6	300.1	292.2	304.2	284.7
Caskets and other morticians' goods	139.8	139.6	141.4	144.3	292.1	291.0	294.9	281.7
Wood preserving	124.1	124.8	131.1	142.1	315.2	292.1	330.4	355.6
Wood, turned and shaped	136.2	133.7	131.1	137.7	317.4	307.3	298.3	294.5
STONE, CLAY, AND GLASS PRODUCTS 1/	146.7	143.9	144.6	145.3	320.8	306.4	308.1	285.7
Glass and glassware	165.2	161.3	164.3	170.8	358.2	340.0	343.4	328.5
Glass products made from purchased glass	124.8	123.8	125.0	133.7	267.6	267.0	271.6	264.6
Cement	149.3	150.3	149.1	143.3	290.7	286.1	284.7	240.3
Brick, tile, and terra cotta	130.1	126.9	131.4	122.5	297.1	279.0	296.9	253.0
Pottery and related products	170.2	166.9	166.0	166.1	352.9	337.4	337.8	315.2
Gypsum	134.3	133.8	132.7	119.1	285.4	278.4	283.0	235.9
Wallboard, plaster (except gypsum), and mineral wool	153.1	154.1	155.7	133.7	390.1	375.5	374.1	296.0
Lime	99.0	97.1	97.8	95.3	261.5	243.2	249.5	223.1
Marble, granite, slate, and other products	99.3	96.5	97.5	95.6	179.3	169.5	173.5	164.8
Abrasives	226.4	221.0	178.0	200.0	487.0	457.4	363.2	462.4
Asbestos products	138.9	138.1	137.8	134.5	328.6	323.9	325.0	308.2
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	111.6	111.2	110.0	108.6	307.1	302.3	295.0	265.0
Cotton manufactures, except smallwares	126.6	125.6	125.2	124.1	385.1	377.0	378.7	336.6
Cotton smallwares	105.8	105.8	103.8	111.2	249.1	249.3	243.8	243.7
Silk and rayon goods	88.1	87.6	84.9	84.3	267.8	262.4	252.6	221.5
Woolen and worsted manufactures, except dyeing and finishing	113.1	113.9	112.5	111.1	322.1	321.1	292.0	274.7
Hosiery	84.1	83.5	82.8	82.2	197.6	190.5	188.8	172.7
Knitted cloth	101.4	101.8	100.4	102.8	243.3	242.6	236.5	223.8
Knitted outerwear and knitted gloves	106.1	105.7	102.9	113.7	249.4	249.8	234.3	252.0
Knitted underwear	123.5	122.2	120.6	106.8	323.7	311.0	306.6	251.2
Dyeing and finishing textiles, including woolen and worsted	125.2	125.8	124.4	122.0	307.6	310.0	304.1	268.7
Carpets and rugs, wool	135.5	134.0	132.2	115.4	327.9	321.8	316.8	235.8
Mats, fur-felt	89.3	89.0	89.1	89.8	197.5	202.2	195.8	192.3
Jute goods, except felts	109.3	110.3	105.1	114.4	264.2	265.7	250.1	270.7
Cordage and twine	134.1	134.7	131.6	129.0	330.4	337.6	330.6	289.2

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Mar.	Feb.	Jan.	Mar.	Mar.	Feb.	Jan.	Mar.
PAPER AND ALLIED PRODUCTS <u>1/</u>	145.0	144.8	145.7	145.9	324.0	322.3	321.5	290.9
Paper and pulp	145.5	144.9	145.0	140.4	330.0	328.3	325.0	281.4
Paper goods, other	152.0	151.9	153.6	153.7	327.8	326.6	328.8	302.2
Envelopes	145.7	143.9	142.0	138.0	283.7	282.8	278.0	260.6
Paper bags	164.1	162.0	163.2	175.8	373.7	357.8	368.1	354.2
Paper boxes	137.3	139.1	140.8	148.2	305.4	307.1	309.1	294.9
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	130.1	130.8	131.3	128.2	253.3	249.6	250.2	227.7
Newspapers and periodicals	122.0	121.4	121.0	116.9	229.2	224.6	218.9	197.2
Printing; book and job	139.1	140.8	142.3	138.4	280.0	278.6	283.4	253.5
Lithographing	119.5	121.2	121.7	124.7	227.2	219.0	224.0	219.1
Bookbinding	144.5	145.1	145.9	143.7	313.4	307.7	315.3	309.0
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	199.0	199.6	199.6	197.5	415.5	416.2	417.3	377.5
Paints, varnishes, and colors	179.4	182.1	179.3	176.6	332.9	338.5	332.6	307.7
Drugs, medicines, and insecticides	236.9	238.3	238.5	254.2	487.6	489.2	490.7	465.4
Perfumes and cosmetics	111.0	116.2	115.4	127.0	220.4	231.2	230.9	235.7
Soap	163.1	166.3	167.0	156.2	359.0	376.4	379.3	296.4
Rayon and allied products	131.8	131.3	130.8	126.0	271.9	270.2	268.6	245.9
Chemicals, not elsewhere classified	280.8	281.0	282.3	277.9	558.6	559.2	561.3	506.4
Explosives and safety fuses	306.8	303.3	301.3	288.5	580.8	587.8	580.2	476.9
Compressed and liquefied gases	250.3	246.5	249.9	232.1	480.9	479.9	465.0	393.4
Ammunition, small-arms	148.6	148.7	144.1	156.1	344.3	342.0	333.7	333.6
Fireworks	203.9	221.8	213.4	229.2	625.8	610.2	591.6	630.5
Cottonseed oil	114.4	127.0	142.1	117.3	315.0	335.7	397.4	300.6
Fertilizers	185.4	171.5	161.3	176.9	497.3	439.6	433.4	443.8
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	152.8	151.3	152.4	145.9	314.6	310.2	312.8	262.1
Petroleum refining	151.3	149.5	149.9	145.7	299.3	295.0	296.8	252.9
Coke and byproducts	141.1	139.6	140.6	128.4	321.1	316.0	319.8	247.3
Paving materials	75.3	73.2	83.2	99.9	163.4	151.9	168.2	167.3
Roofing materials	215.3	217.5	222.7	207.4	502.7	500.7	508.3	430.7

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

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

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	Mar.	Feb.	Jan.	Mar.	Mar.	Feb.	Jan.	Mar.
RUBBER PRODUCTS <u>1/</u>	179.6	182.7	184.2	196.5	340.8	358.3	376.3	374.3
Rubber tires and inner tubes	200.7	205.8	209.2	231.4	330.2	355.9	398.4	397.3
Rubber boots and shoes	152.4	153.8	151.5	120.1	347.0	345.0	342.8	321.7
Rubber goods, other	165.3	166.9	167.4	170.2	356.2	366.2	368.3	348.7
MISCELLANEOUS INDUSTRIES <u>1/</u>	177.5	177.0	176.1	182.1	383.0	383.2	377.9	367.6
Instruments (professional and scientific), and fire-control equipment	244.6	245.2	245.3	249.9	489.3	487.1	507.5	452.3
Photographic apparatus	219.8	220.9	220.4	203.2	422.3	424.2	418.1	375.0
Optical instruments and ophthalmic goods	229.1	230.0	233.6	253.2	444.8	446.3	452.3	461.8
Pianos, organs, and parts	188.0	201.5	215.2	196.2	393.1	421.1	455.5	412.3
Games, toys, and dolls	203.2	189.9	175.0	170.6	472.2	450.1	399.7	372.1
Buttons	122.0	119.0	118.7	118.5	283.5	285.4	275.7	261.2
Fire extinguishers	258.4	249.3	253.9	310.6	556.8	523.2	546.8	565.7

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

1/ Indexes for the individual industries comprising the major industry group have been adjusted to levels indicated by data through 1945 made available by the Bureau of Employment Security of the Federal Security Agency. Comparable series from January 1939 are available upon request to the Bureau of Labor Statistics. 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
Nonferrous metals and their products	March 1948	April 1948
Iron and steel and their products	April 1948	May 1948
Machinery, except electrical	May 1948	June 1948

Table 9. - 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	
	Mar.	Feb.	Jan.	Mar.	Mar.	Feb.	Jan.	Feb.
MINING: 1/								
Coal:								
Anthracite	92.6	91.6	91.1	92.3	255.9	232.8	242.4	232.8
Bituminous coal	101.2	100.4	102.1	99.1	320.8	300.7	329.4	271.9
Metal	97.6	97.4	96.9	97.4	199.4	201.7	198.9	176.1
Iron	149.4	146.8	146.5	141.2	313.8	310.3	302.7	256.8
Copper	106.6	108.2	107.5	102.7	234.8	241.7	238.0	198.7
Lead and zinc	96.5	96.2	96.2	113.1	222.9	225.1	228.1	235.8
Gold and silver	33.3	33.4	33.1	32.4	56.7	58.4	56.4	51.1
Miscellaneous	186.7	187.0	183.0	187.2	340.3	347.4	348.4	307.6
Quarrying and nonmetallic	119.2	113.7	116.7	120.6	287.3	262.0	270.0	261.4
Crude petroleum and natural gas production	111.1	111.1	110.5	108.3	213.2	219.9	215.5	180.7
TRANSPORTATION AND PUBLIC UTILITIES:								
Class I steam railways 2/	133.3	132.8	133.4	134.2	3/	3/	3/	3/
Street railways and busses	128.8	128.6	129.2	131.0	232.6	234.6	230.1	218.6
Telephone	197.4	196.2	195.0	188.4	314.7	316.3	315.8	267.2
Telegraph	98.2	97.8	97.2	100.7	213.0	212.6	209.5	198.0
Electric light and power	110.9	110.3	109.8	104.0	184.4	183.2	187.9	160.8
TRADE: 4/								
Wholesale	115.3	116.1	116.3	111.7	210.8	214.9	211.7	191.6
Retail	113.5	111.8	114.4	111.2	209.9	208.4	209.4	190.1
Food	116.7	113.9	114.4	112.8	226.1	221.5	219.4	199.9
General merchandise	124.5	122.9	129.4	122.5	225.5	221.4	233.0	205.6
Apparel	116.8	108.2	111.5	113.4	208.8	194.3	198.8	194.6
Furniture and housefurnishings	91.9	91.0	93.6	84.4	173.7	177.8	174.5	146.6
Automotive	105.9	105.9	106.5	97.8	197.1	196.5	193.9	171.7
Lumber and building materials	119.4	118.8	122.5	115.5	228.6	227.6	228.0	201.3
SERVICE:								
Hotels (year-round) 5/	116.4	116.8	117.2	117.3	229.0	233.2	230.4	216.8
Power laundries 1/	117.7	117.6	120.1	123.1	227.5	225.4	232.9	223.2
Cleaning and dyeing 1/	154.8	149.3	152.8	160.0	291.2	271.9	285.6	289.3

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

1/ See footnote 2, table 7.

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. Revisions of Employment Estimates - 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 1945 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 Bench-Mark Data - The chief purpose of recent revisions published in the February 1947 DETAILED REPORT, was to adjust the levels of employment estimates to bench-mark data through 1945. 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 unemployment compensation agencies and the Bureau of Old Age and Survivors Insurance are the main bases for 1945 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. 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 "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. 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 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:	: <u>Employees or production workers</u>	
		Number	: Percent of total
Manufacturing	33,200	7,438,000	58
Mining	2,700	396,000	61
Contract construction	12,500	335,000	18
Public utilities	7,200	877,000	76
Trade:			
Wholesale	11,800	333,000	20
Retail	38,600	1,069,000	25
Service:			
Hotels (year-round)	1,200	142,000	37
Power laundries and cleaning and dyeing	1,600	71,000	20

Sec. H. Coverage of Employment Estimates - The employment estimates shown in tables 1, 2, 5, and 5a 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 6 and 8 refer to production and related workers as defined in the Glossary, page vi.

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 those States which are now publishing such estimates are shown in table 5a. These totals are consistent with the manufacturing estimates in table 5. As nonagricultural estimates for additional States become available, they will be shown in table 5a.

Cooperating State Agencies

Alabama - Dept. of Industrial Relations, Montgomery 5.
Arizona - Employment Security Commission, Phoenix.
Arkansas - Employment Security Div., Dept. of Labor, Little Rock.
California - Div. of Labor Statistics and Research, San Francisco 2.
Connecticut - Employment Security Div., Hartford 15.
Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1, Pa.
Florida - Industrial Commission, Tallahassee.
Georgia - Employment Security Administration, Atlanta 3.
Illinois - Dept. of Labor, Chicago 1.
Indiana - Employment Security Div., Indianapolis 12.
Iowa - Employment Security Commission, Des Moines 8.
Kansas - State Labor Dept., Topeka.
Louisiana - Louisiana State University, Bureau of Business Research, 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, St. Paul 1.
Missouri - Div. of Employment Security, Jefferson City.
Montana - Unemployment Compensation Commission of Montana, Helena.
Nevada - Employment Security Dept., Carson City.
New Jersey - Dept. of Labor, Trenton 8.
New Mexico - Employment Security Commission, Albuquerque.
New York - Dept. of Labor, Div. of Placement and Unemployment Insurance, New York 17.
North Carolina - Dept. of Labor, Raleigh.
Oklahoma - Employment Security Commission, Oklahoma City 2.
Pennsylvania - Federal Reserve Bank of Philadelphia, Philadelphia 1 (Mfg.);
Dept. of Labor and Industry, Harrisburg (Nonmfg.).
Rhode Island - Dept. of Labor, Div. of Census and Statistics, Providence 2.
Tennessee - Dept. of Employment Security, Nashville 3.
Texas - University of Texas, Bureau of Business Research, Austin 12.
Utah - Dept. of Employment Security, Salt Lake City 13.
Vermont - Unemployment Compensation Commission, Montpelier.
Virginia - Dept. of Labor and Industry, Div. of Research and Statistics, Richmond 21.
Washington - Employment Security Dept., 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, Ill. (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 3, but are excluded from the government data shown in table 1. 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; (2) seamen and trainees who are hired and paid

by private steamship companies having contracts with the Maritime Commission are excluded; (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 first 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, executive, and judicial functions, as well as all government-owned and operated establishments and institutions (arsenals, navy yards, hospitals, Federal Reserve banks, etc.) and government force-account construction. The data 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 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 will be paid in addition to the face value at the time the bonds are cashed. Terminal leave payments to persons discharged after September 1, 1946 are excluded from leave payments shown but are included in pay rolls.

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

Military pay rolls - Covers personnel on active duty or on terminal leave. Coast Guard pay rolls and Army pay rolls for 1943 represent actual expenditures. Other data represent estimated obligations based on an average monthly personnel count. Pay rolls for the Navy proper and Coast Guard include cash payments for clothing-allowance balances in January, April, July, and October. Starting October 1946 pay rolls include lump sum payments for terminal leave authorized by Public Law 350 of the 80th Congress.

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 of acidizing of oil wells; also includes ore dressing, beneficiating, and concentration.

Nonagricultural establishments - Governmental or private business establishments; (1) that are physically located within continental United States; and (2) whose principal activity can be classified under one of the following industry divisions--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 nonproduction workers defined below under wage and salary workers.

Service - Covers establishments primarily engaged in rendering services to individuals and business firms. Excludes automobile repair services, 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, 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.