

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
MAY 1948**

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

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ESTIMATES OF MANUFACTURING EMPLOYMENT - NEW SERIES

Industries in the Tobacco Manufactures Group

In this detailed report the Bureau presents a new series of production-worker estimates for the individual industries comprising the tobacco manufactures group. The new estimates, adjusted to bench-mark data through 1946 made available by the Federal Security Agency, correct the downward bias which has accumulated since 1939 and are, therefore, more representative of the true levels of employment.

Despite the lapse of several years without any adjustment to levels other than the 1939 Census of Manufactures, only two of the industries (cigars and tobacco (chewing and smoking) and snuff) required adjustment. The cigarette industry was not affected; however, minor revisions have been incorporated.

This report shows the new production-worker employment estimates and indexes of employment and weekly pay roll for the months currently presented. A set of summary sheets presenting comparable data from January 1939 to date for the industries in the tobacco manufactures group will be provided upon request.

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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.	Estimated Number of Wage and Salary Workers in Selected Nonmanufacturing Industries, by Major Industry Group.....	4
4.	Federal Employment and Pay Rolls in All Areas and in Continental United States, and Total Government Employment and Pay Rolls in Washington, D. C.....	5
5.	Personnel and Pay of the Military Branch of the Federal Government.....	6
6.	Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States, April 1948.....	7
7.	Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State, April 1948.....	8
8.	Estimated Number of Production Workers in Manufacturing Industries.....	10
9.	Estimated Number of Employees in Selected Nonmanufacturing Industries.....	16
10.	Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries.....	17
11.	Indexes of Employment and Weekly Pay Rolls in Selected Nonmanufacturing Industries.....	23
	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 ^{1/}

(In thousands)

Industry division	1948			1947	
	May	Apr.	Mar	May	Apr.
TOTAL	44,609	44,298	44,600	43,345	43,221
Manufacturing	15,893	15,945	16,269	15,569	15,750
Mining	933	820	924	910	881
Contract construction	2,049	1,933	1,805	1,865	1,798
Transportation and public utilities	4,041	3,977	4,032	3,981	3,845
Trade	9,615	9,574	9,598	9,277	9,255
Finance	1,716	1,704	1,697	1,643	1,636
Service	4,738	4,768	4,729	4,590	4,552
Government	5,624	5,577	5,546	5,510	5,504

See explanatory notes, sections A - H.

^{1/} Estimates have been adjusted to levels indicated by data through 1946 made available by the Federal Security Agency and are not comparable with data shown in mimeographed releases dated prior to June 1948 or the Monthly Labor Review dated prior to July 1948. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics.

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

(In thousands)

Major industry group	1948			1947	
	May	Apr.	Mar.	May	Apr.
ALL MANUFACTURING	15,893	15,945	16,269	15,569	15,750
<u>Durable goods</u>	8,113	8,159	8,258	7,962	8,068
Iron and steel and their products	1,893	1,896	1,929	1,861	1,875
Electrical machinery	727	742	756	731	745
Machinery, except electrical	1,574	1,562	1,587	1,561	1,565
Transportation equipment, except automobiles	563	589	589	598	612
Automobiles	963	979	985	899	957
Nonferrous metals and their products	467	475	482	486	498
Lumber and timber basic products	846	829	827	780	750
Furniture and finished lumber products	549	561	576	537	546
Stone, clay, and glass products	531	526	527	509	520
<u>Nondurable goods</u>	7,780	7,786	8,011	7,607	7,682
Textile-mill products and other fiber manufactures	1,416	1,425	1,435	1,342	1,368
Apparel and other finished textile products	1,247	1,268	1,334	1,137	1,167
Leather and leather products	406	418	442	411	424
Food	1,609	1,562	1,655	1,622	1,609
Tobacco manufactures	97	99	100	96	95
Paper and allied products	476	476	480	470	473
Printing, publishing, and allied industries	720	718	722	703	702
Chemicals and allied products	759	767	773	761	764
Products of petroleum and coal	242	238	238	232	227
Rubber products	243	246	253	262	274
Miscellaneous industries	565	569	579	571	579

See explanatory notes, section A - H.

1/ Estimates have been adjusted to levels indicated by data through 1946 made available by the Federal Security Agency and are not comparable with data shown in mimeographed releases dated prior to June 1948 or the Monthly Labor Review dated prior to July 1948. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics.

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

(In thousands)

Major industry group	1948			1947	
	May	Apr.	Mar.	May	Apr.
Mining <u>1/</u>	933	820	924	910	881
Anthracite	81	82	82	81	80
Bituminous coal	420	309	419	407	383
Metal	102	102	102	102	102
Quarrying and nonmetallic	96	95	90	97	96
Crude petroleum and natural gas production <u>2/</u>	234	232	231	223	220
Transportation and public utilities <u>1/</u>	4,041	3,977	4,032	3,981	3,845
Transportation	2,808	2,747	2,808	2,901	2,880
Communication	731	731	728	605	495
Other public utilities	502	499	496	475	470
Government	5,624	5,577	5,546	5,510	5,504
Federal	1,788	1,771	1,758	1,905	1,924
State and local	3,836	3,806	3,788	3,605	3,580

See explanatory notes, section A - H.

1/ Estimates have been adjusted to levels indicated by data through 1946 made available by the Federal Security Agency and are not comparable with data published in mimeographed releases dated prior to June 1948 or the Monthly Labor Review dated prior to July 1948. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics.

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/

(In thousands)

Area and branch	Employment (as of first of month)				Pay rolls (total for month)			
	1948		1947		1948		1947	
	May	April	May	Average	May	April	May	Average
<u>Total (including areas outside United States)</u>								
Total Federal	2,038.9	2,020.8	2,193.0	2,149.2	464,214	477,580	514,057	497,173
Executive	1,999.2	1,981.0	2,151.2	2,108.0	454,930	468,100	504,747	487,778
Defense agencies	910.0	903.8	1,028.6	989.7	196,720	204,606	235,118	220,574
Post Office Dept.	455.7	449.3	435.4	451.0	101,473	100,894	95,256	100,421
Other agencies	633.5	627.9	687.8	667.3	156,737	162,600	174,373	166,783
Legislative	7.2	7.2	7.2	7.1	2,469	2,480	2,439	2,423
Judicial	3.5	3.5	3.1	3.2	1,207	1,322	1,181	1,224
Government corporations	29.0	29.1	31.5	30.9	5,608	5,678	5,690	5,748
<u>Continental United States</u>								
Total Federal	1,808.7	1,791.8	1,924.5	1,889.9	428,027	439,652	469,774	455,302
Executive	1,776.1	1,759.1	1,890.9	1,856.5	419,377	430,845	461,165	446,598
Defense agencies	717.2	711.0	796.1	766.9	168,052	174,409	198,395	186,200
Post Office Dept.	454.1	447.7	434.0	449.5	101,117	100,543	94,936	100,078
Other agencies	604.8	600.4	660.8	640.1	150,208	155,893	167,834	160,320
Legislative	7.2	7.2	7.2	7.1	2,469	2,480	2,439	2,423
Judicial	3.4	3.4	3.0	3.1	1,175	1,288	1,145	1,188
Government corporations	22.0	22.1	23.4	23.2	5,006	5,039	5,025	5,093
<u>Washington, D. C.</u>								
Total government	228.6	227.6	241.0	233.6	60,518	62,985	66,834	63,815
District of Columbia government	18.5	18.6	18.0	18.1	4,392	4,495	4,250	4,121
Federal	210.1	209.0	223.0	215.5	56,126	58,490	62,584	59,694
Executive	202.3	201.2	215.2	207.8	53,457	55,799	59,944	57,067
Defense agencies	67.3	66.6	73.3	69.8	15,647	16,324	19,295	18,111
Post Office Dept.	7.4	7.4	7.4	7.6	2,282	2,277	2,019	2,463
Other agencies	127.6	127.2	134.5	130.4	35,527	37,198	38,630	36,493
Legislative	7.2	7.2	7.2	7.1	2,469	2,480	2,439	2,423
Judicial	.6	.6	.6	.6	200	211	201	204

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	
	May	Apr.	Mar.	May	Annual average
Personnel, total.....	1,406	1,404	1,409	1,703	1,670
Army and Air Force.....	<u>1/</u> 916	<u>1/</u> 906	<u>1/</u> 909	1,082	1,059
Navy.....	390	399	400	501	493
Marine Corps.....	80	79	80	99	97
Coast Guard.....	20	20	20	21	20
Men.....	1,390	1,388	1,393	1,680	1,649
Women.....	16	16	16	23	21
Pay, total.....	\$278,995	\$285,210	\$285,011	\$369,947	\$445,866
<u>By branch:</u>					
Army and Air Force.....	176,651	172,859	175,697	232,480	288,469
Navy.....	84,136	93,351	90,459	113,983	130,158
Marine Corps.....	14,001	14,131	14,233	17,540	19,951
Coast Guard.....	4,207	4,869	4,622	5,944	7,288
<u>By type of pay:</u>					
Pay rolls.....	242,292	247,452	242,969	263,701	278,078
Mustering-out pay.....	9,085	9,751	13,050	15,022	14,751
Family allowances.....	25,736	25,414	24,997	25,814	25,685
Leave payments.....	1,882	2,593	3,995	65,410	127,352
Cash.....	486	639	905	6,293	104,240
Bonds.....	1,396	1,954	3,090	59,117	116,928

1/ Air Force personnel, 365,000 in March, 368,000 in April, and 375,000 in May 1948

See Glossary for definitions.

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

(In thousands)

State	1948			1947	
	Apr.	Mar.	Feb.	Apr.	Mar.
Connecticut	772	772	765	768	768
Illinois	3,110	3,144	3,151	3,094	3,095
Indiana	1,183	1,189	1,176	1,182	1,176
Maryland	686	685	676	658	667
Massachusetts	1,701	1,711	1,707	1,695	1,702
Minnesota	767	761	763	748	747
Montana	135	133	132	131	129
Nevada <u>1/</u>	56	56	55	54	54
New Jersey	1,567	1,563	1,553	1,541	1,572
New York	5,371	5,400	5,375	5,335	5,385
Pennsylvania	3,524	3,582	3,545	3,506	3,506
Rhode Island	288	289	288	286	*288
Texas	1,685	1,663	1,659	1,611	1,610
Utah	166	170	169	166	162
Vermont <u>1/</u>	98	98	98	99	99
Washington	659	653	649	*654	*652
Wisconsin	972	974	972	946	946

See explanatory notes, sections H and I.

* Revised.

1/ Data not comparable with those previously published as estimates of employment for contract construction have now been included.

8.

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

(In thousands)

Region and state	1948			1947	
	Apr.	Mar.	Feb.	Apr.	Mar.
New England:					
Maine	105.1	111.9	112.2	108.6	115.3
New Hampshire	82.6	84.4	85.6	81.1	83.0
Vermont <u>1/2/</u>	38.1	38.7	38.8	40.6	*41.5
Massachusetts	729.2	745.6	746.0	749.9	763.5
Rhode Island	149.9	153.6	154.5	150.6	153.8
Connecticut <u>1/</u>	406.4	412.5	412.1	419.9	423.9
Middle Atlantic:					
New York	1,850.4	1,902.6	1,906.4	1,893.4	1,934.5
New Jersey	744.9	753.7	757.8	738.5	768.6
Pennsylvania	1,495.9	1,512.2	1,510.9	1,507.8	1,511.8
East North Central:					
Ohio	1,230.5	1,244.0	1,243.9	1,254.6	1,255.4
Indiana	539.7	552.8	553.4	554.4	555.8
Illinois	1,198.0	1,253.5	1,267.0	1,248.2	1,249.4
Michigan	1,002.7	1,010.9	970.7	*1,035.4	1,046.7
Wisconsin <u>1/</u>	426.3	432.5	434.2	427.1	427.9
West North Central:					
Minnesota	188.0	197.3	198.3	195.1	197.8
Iowa	132.1	148.8	150.5	146.6	147.0
Missouri	355.8	361.4	363.5	355.9	355.8
North Dakota	6.4	6.3	6.4	6.5	6.5
South Dakota	11.3	11.0	11.1	11.5	11.3
Nebraska	34.9	42.4	43.0	41.9	42.8
Kansas	73.3	77.6	78.3	79.3	77.8
South Atlantic:					
Delaware	46.5	46.5	45.9	44.9	45.0
Maryland	228.2	228.9	228.5	230.7	236.2
District of Columbia	17.4	17.1	16.8	17.2	17.1
Virginia	212.5	213.7	213.5	209.2	210.1
West Virginia	131.9	130.9	130.3	133.0	131.9
North Carolina	382.6	385.8	380.4	*372.9	376.0
South Carolina	199.3	200.5	196.9	189.7	189.8
Georgia	252.4	257.3	258.5	253.9	254.0
Florida <u>1/</u>	96.5	99.4	98.9	94.9	99.5

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

(In thousands)

Region and State	1948			1947	
	Apr.	Mar.	Feb.	Apr.	Mar.
East South Central:					
Kentucky	128.2	129.5	129.4	*130.7	129.1
Tennessee	251.5	252.8	252.8	249.2	249.9
Alabama <u>1/</u>	227.3	231.8	231.1	225.2	226.3
Mississippi	88.6	90.0	90.5	90.4	92.1
West South Central:					
Arkansas	75.1	75.4	75.4	72.7	67.9
Louisiana	139.1	137.2	137.0	135.2	133.2
Oklahoma	56.3	55.0	55.0	54.1	54.3
Texas	338.7	337.1	340.2	325.9	324.8
Mountain:					
Montana	17.1	17.2	17.3	16.6	16.4
Idaho	17.9	17.8	18.2	18.4	18.4
Wyoming	6.3	6.2	6.1	5.9	5.8
Colorado	55.4	55.5	55.1	54.1	53.6
New Mexico <u>1/</u>	8.9	8.3	8.7	9.3	9.0
Arizona <u>1/</u>	15.9	15.4	15.0	14.5	14.1
Utah	22.6	23.9	23.9	23.5	23.0
Nevada <u>1/</u>	3.3	3.3	3.3	3.4	3.2
Pacific:					
Washington	175.3	173.7	173.0	*170.4	169.2
Oregon	110.2	110.2	109.2	*115.5	114.4
California	695.1	700.4	703.1	*699.6	692.6

See explanatory notes, sections H and I.

* Revised.

1/ New series based on 1945 Standard Industrial Classification. These series are not strictly comparable with data for Connecticut, Vermont, and Wisconsin published prior to the February 1948 report; for Arizona prior to the March 1948 report; for Nevada and New Mexico prior to the April 1948 report; and for Alabama and Florida, prior to the current report.

2/ Earlier months in 1947 have been revised as follows:

Vermont - January and February to 42.3 and 42.2.

10.

Table 8. - Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1948			1947	
	May	Apr.	Mar.	May	Apr.
ALL MANUFACTURING <u>1/</u>	12,723	12,788	13,131	12,597	12,772
Durable goods <u>1/</u>	6,630	6,680	6,791	6,572	6,669
Nondurable goods <u>1/</u>	6,093	6,108	6,340	6,025	6,103
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS <u>1/</u>	1,600	1,603	1,634	1,532	1,595
Blast furnaces, steel works, and rolling mills	517.7	511.8	516.1	494.5	489.3
Gray-iron and semisteel castings	107.1	110.7	113.9	115.5	116.4
Malleable-iron castings	37.3	37.2	37.9	34.6	34.3
Steel castings	68.4	68.6	69.3	66.4	66.3
Cast-iron pipe and fittings	27.1	27.5	28.3	27.5	26.6
Tin cans and other tinware	42.8	42.1	44.5	42.1	42.2
Wire drawn from purchased rods	29.4	30.1	30.6	26.5	30.8
Wirework	41.1	41.9	43.4	39.5	41.7
Cutlery and edge tools	23.1	23.7	24.0	25.7	27.2
Tools (except edge tools, machine tools, files, and saws)	25.2	25.5	25.7	24.9	26.8
Hardware	51.9	53.0	54.3	50.4	50.7
Plumbers' supplies	39.3	39.4	40.2	40.3	41.2
Stoves, oil burners, and heating equipment not elsewhere classified	79.5	77.8	83.1	84.3	84.0
Steam and hot-water heating apparatus and steam fittings	60.8	59.8	62.7	65.0	67.7
Stamped and enameled ware and galvanizing	110.9	112.2	114.1	112.6	113.8
Fabricated structural and ornamental metalwork	60.0	60.6	60.7	59.4	59.3
Metal doors, sash, frames, molding, and trim	10.2	10.1	10.5	9.1	9.9
Bolts, nuts, washers, and rivets	28.6	28.9	28.9	28.8	29.0
Forgings, iron and steel	35.1	36.7	37.5	35.9	36.6
Wrought pipe, welded and heavy-riveted	18.8	18.8	19.2	18.0	18.2
Screw-machine products and wood screws	36.4	36.8	36.8	37.7	39.1
Steel barrels, kegs, and drums	7.6	7.7	7.9	8.5	8.5
Firearms	21.2	21.0	20.8	19.0	19.2
ELECTRICAL MACHINERY <u>1/</u>	548	563	577	564	577
Electrical equipment	357.4	364.9	371.7	369.7	374.4
Radios and phonographs	90.0	93.4	97.6	102.7	107.0
Communication equipment	90.0	93.9	96.5	81.3	84.9

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

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

Industry group and industry	1948			1947	
	May	Apr.	Mar.	May	Apr.
MACHINERY, EXCEPT ELECTRICAL <u>1/</u>	1,207	1,202	1,232	1,216	1,220
Machinery and machine-shop products	489.6	495.9	500.1	503.1	505.5
Engines and turbines	53.5	53.9	54.7	54.7	55.1
Tractors	56.3	44.8	62.2	55.9	55.3
Agricultural machinery, excluding tractors	75.2	76.2	75.9	65.9	64.8
Machine tools	47.5	47.7	49.2	55.5	57.5
Machine-tool accessories	55.4	55.5	55.9	60.5	62.6
Textile machinery	41.4	41.2	41.1	38.7	38.0
Pumps and pumping equipment	69.3	69.9	71.3	77.3	78.0
Typewriters	23.8	24.1	24.9	24.0	23.5
Cash registers; adding, and calculating machines	45.6	46.3	46.1	41.0	40.7
Washing machines, wringers, and driers, domestic	16.0	16.2	16.3	14.6	14.3
Sewing machines, domestic and industrial	13.9	13.8	13.7	10.6	11.6
Refrigerators and refrigeration equipment	82.6	79.7	81.0	74.8	73.3
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES <u>1/</u>	438	462	465	475	486
Locomotives	26.4	26.6	26.6	23.8	25.1
Cars, electric- and steam-railroad	53.9	53.9	54.4	55.2	55.6
Aircraft and parts, excluding aircraft engines	125.1	137.3	136.1	138.2	141.9
Aircraft engines	25.1	24.8	24.6	27.0	28.1
Shipbuilding and boatbuilding	116.1	122.5	125.8	140.3	143.9
Motorcycles, bicycles, and parts	12.9	14.4	14.8	12.8	12.8
AUTOMOBILES <u>1/</u>	759	772	784	720	774
NONFERROUS METALS AND THEIR PRODUCTS <u>1/</u>	398	406	413	418	430
Smelting and refining, primary, of nonferrous metals	41.4	41.0	40.8	39.8	41.0
Alloying; and rolling and drawing of nonferrous metals, except aluminum	52.6	53.7	54.6	60.2	62.0
Clocks and watches	28.2	28.5	28.8	27.8	28.2
Jewelry (precious metals) and jewelers' findings	26.3	27.1	27.6	25.6	26.3
Silverware and plated ware	27.2	27.5	27.5	24.2	24.2
Lighting equipment	30.2	31.3	33.1	37.7	37.8
Aluminum manufactures	42.7	44.2	45.2	46.5	49.2
Sheet-metal work, not elsewhere classified	35.2	36.0	36.8	38.0	38.8

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

Table 8. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1943			1947	
	May.	Apr.	Mar.	May	Apr.
LUMBER AND TIMBER BASIC PRODUCTS 1/	768	751	749	710	682
Sawmills and logging camps	549.2	536.5	536.6	523.8	502.8
Planing and plywood mills	136.2	135.3	135.3	126.1	124.7
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	458	470	485	450	458
Mattresses and bedsprings	31.2	32.7	34.6	29.8	29.7
Furniture	233.3	239.7	246.9	225.9	229.2
Wooden boxes, other than cigar	32.5	33.8	34.6	36.3	36.5
Caskets and other morticians' goods	18.6	19.0	19.6	19.3	19.6
Wood preserving	15.5	15.1	15.6	18.2	18.2
Wood, turned and shaped	32.1	32.8	33.5	30.5	33.5
STONE, CLAY, AND GLASS PRODUCTS 1/	454	451	452	437	447
Glass and glassware	117.5	117.9	117.8	122.1	122.8
Glass products made from purchased glass	12.2	12.4	12.5	12.8	13.3
Cement	37.1	36.6	36.4	29.7	35.4
Brick, tile, and terra cotta	77.7	76.1	75.5	72.1	72.3
Pottery and related products	57.1	56.6	57.6	56.0	56.2
Gypsum	6.5	6.6	6.6	5.7	5.9
Wallboard, plaster (except gypsum), and mineral wool	12.5	12.4	12.4	11.0	10.8
Lime	9.5	9.6	9.5	9.4	9.2
Marble, granite, slate, and other products	18.2	17.9	18.4	16.6	17.8
Abrasives	17.5	17.5	17.5	19.4	19.6
Asbestos products	21.8	21.9	22.0	20.9	21.0
Nondurable goods					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	1,293	1,301	1,312	1,226	1,253
Cotton manufactures, except smallwares	524.7	526.4	529.4	509.0	516.8
Cotton smallwares	14.4	14.6	14.9	14.6	15.0
Silk and rayon goods	111.8	111.7	111.6	103.1	105.4
Woolen and worsted manufactures, except dyeing and finishing	173.2	175.0	178.3	164.3	169.9
Hosiery	136.6	139.2	141.2	128.8	134.8
Knitted cloth	11.5	11.8	11.7	10.7	11.3
Knitted outerwear and knitted gloves	31.4	31.0	31.6	29.6	31.6
Knitted underwear	48.6	50.0	50.3	43.2	43.6
Dyeing and finishing textiles, including woolen and worsted	87.5	88.3	88.5	84.2	85.1
Carpets and rugs, wool	36.9	36.6	36.6	31.7	31.4
Hats, fur-felt	12.9	12.7	13.7	12.7	11.9
Jute goods, except felts	4.2	4.3	4.1	4.3	4.3
Cordage and twine	16.4	16.7	17.1	15.8	16.2

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

Table 8. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1948			1947	
	May	Apr.	Mar.	May	Apr.
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS <u>1/</u>	1,082	1,103	1,165	990	1,018
Men's clothing, not elsewhere classified	309.8	310.0	314.5	280.5	283.5
Shirts, collars, and nightwear	81.2	82.0	82.2	73.2	73.3
Underwear and neckwear, men's	16.4	18.7	19.0	17.4	18.0
Work shirts	18.2	17.9	17.5	15.3	15.7
Women's clothing, not elsewhere classified	427.6	440.0	481.7	389.3	407.5
Corsets and allied garments	18.5	19.2	19.9	17.7	17.6
Millinery	20.3	23.4	27.6	20.3	22.0
Handkerchiefs	5.0	5.1	5.1	4.7	4.8
Curtains, draperies, and bedspreads	26.8	28.0	30.6	22.2	22.3
Housefurnishings, other than curtains, etc.	27.7	29.0	30.4	29.3	29.0
Textile bags	26.8	26.8	27.3	27.8	28.3
LEATHER AND LEATHER PRODUCTS <u>1/</u>	360	372	396	368	381
Leather	44.1	44.3	45.8	45.9	46.3
Boot and shoe cut stock and findings	17.3	17.7	18.9	18.3	19.4
Boots and shoes	204.2	212.9	229.5	212.6	220.7
Leather gloves and mittens	12.3	12.2	12.5	12.0	12.3
Trunks and suitcases	13.1	13.3	13.9	12.1	13.2
FOOD <u>1/</u>	1,086	1,047	1,149	1,152	1,142
Slaughtering and meat packing	115.7	99.7	180.9	172.9	167.8
Butter	37.4	35.3	32.8	37.4	35.5
Condensed and evaporated milk	21.6	20.5	19.3	22.4	21.4
Ice cream	29.2	27.1	24.4	30.0	27.6
Flour	37.2	37.4	37.8	36.9	38.5
Feeds, prepared	27.8	26.6	26.3	27.5	28.0
Cereal preparations	12.8	12.2	12.1	11.9	13.1
Baking	219.7	217.5	219.7	211.4	212.2
Sugar refining, cane	17.6	17.3	19.6	19.7	19.0
Sugar, beet	6.5	5.4	5.6	6.5	5.5
Confectionery	55.7	60.7	65.9	62.0	64.2
Beverages, nonalcoholic	38.5	36.1	34.2	30.0	28.5
Malt liquors	66.3	69.8	67.6	66.9	64.9
Canning and preserving	136.8	126.7	122.1	135.7	135.4
TOBACCO MANUFACTURES <u>1/</u>	84	86	87	83	82
Cigarettes	33.1	33.2	33.2	32.9	32.8
Cigars	43.7	45.2	46.2	42.4	41.4
Tobacco (chewing and smoking and snuff)	7.6	7.7	7.8	7.7	7.4

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

Table 8. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1948			1947	
	May	Apr.	Mar.	May	Apr.
PAPER AND ALLIED PRODUCTS 1/	389	389	393	388	391
Paper and pulp	201.1	200.2	200.4	193.2	192.3
Paper goods, other	56.9	56.8	57.3	57.9	58.1
Envelopes	12.7	12.7	12.7	12.0	12.0
Paper bags	17.6	18.0	18.2	18.7	19.4
Paper boxes	91.2	92.7	95.2	98.2	101.6
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES 1/	433	432	435	430	429
Newspapers and periodicals	146.6	145.4	144.8	141.2	139.9
Printing; book and job	176.3	175.3	177.5	175.1	176.3
Lithographing	30.9	31.3	31.4	32.7	32.7
Bookbinding	35.1	36.0	37.2	37.4	37.3
CHEMICALS AND ALLIED PRODUCTS 1/	572	580	587	575	579
Paints, varnishes, and colors	50.7	50.1	50.7	50.3	50.2
Drugs, medicines, and insecticides	63.7	64.2	65.2	69.0	69.6
Perfumes and cosmetics	11.0	11.2	11.6	11.9	12.4
Soap	21.7	21.8	24.9	23.7	23.7
Rayon and allied products	63.4	63.5	63.7	61.3	60.9
Chemicals, not elsewhere classified	195.6	198.0	196.3	196.4	195.8
Explosives and safety fuses	22.2	22.1	22.4	21.2	21.2
Compressed and liquefied gases	10.0	10.0	9.9	9.6	9.4
Ammunition, small-arms	7.8	7.8	7.8	7.0	6.8
Fireworks	2.5	2.4	2.4	3.0	2.8
Cottonseed oil	13.6	15.2	17.6	13.1	15.5
Fertilizers	29.4	33.4	34.7	29.7	31.8
PRODUCTS OF PETROLEUM AND COAL 1/	167	164	165	161	157
Petroleum refining	111.9	110.9	110.8	108.8	105.7
Coke and byproducts	31.2	29.8	30.7	28.4	27.9
Paving materials	2.2	2.1	1.8	2.7	2.6
Roofing materials	17.2	17.4	17.4	17.4	17.0

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

Table 8. - Estimated Number of Production Workers in Manufacturing Industries-Cont'd

(In thousands)

Industry group and industry	1948			1947	
	May	Apr.	Mar.	May	Apr.
RUBBER PRODUCTS 1/	195	198	204	211	222
Rubber tires and inner tubes	103.3	104.6	108.8	119.3	123.1
Rubber boots and shoes	21.8	22.1	22.6	22.8	23.5
Rubber goods, other	81.9	84.0	85.7	81.0	87.3
MISCELLANEOUS INDUSTRIES 1/	432	436	447	441	449
Instruments (professional and scientific), and fire-control equipment	27.5	27.6	27.7	27.6	28.3
Photographic apparatus	37.8	38.4	38.8	36.7	36.2
Optical instruments and ophthalmic goods	26.7	27.0	27.2	29.4	29.7
Pianos, organs, and parts	13.7	13.3	14.8	15.1	15.1
Games, toys, and dolls	40.2	40.3	38.5	33.9	33.7
Buttons	12.8	13.1	13.8	12.3	12.9
Fire extinguishers	2.7	2.7	2.6	2.9	3.0

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

1/ Data for the major industry groups have been adjusted to levels indicated by data through 1946 made available by the Federal Security Agency 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 data through 1946 made available by the Federal Security Agency 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.

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

(In thousands)

Industry group and industry	1948			1947	
	May	Apr.	Mar.	May	Apr.
MINING: 2/ 3/					
Coal:					
Anthracite	76.4	76.9	77.4	76.4	75.6
Bituminous coal	402	296	401	389	367
Metal	90.9	91.6	91.4	90.8	91.1
Iron	32.5	32.3	31.5	31.7	31.1
Copper	26.1	26.8	26.9	25.3	25.6
Lead and zinc 4/	16.5	16.4	16.3	17.8	18.1
Gold and silver	8.1	8.5	8.7	8.2	8.4
Miscellaneous	7.7	7.7	7.9	7.8	7.9
Quarrying and nonmetallic	86.0	84.9	80.9	87.2	86.3
Crude petroleum and natural gas production 5/	129.6	128.2	127.1	125.6	124.7
TRANSPORTATION AND PUBLIC UTILITIES					
Class I steam railroads 6/	1,321	1,260	1,316	1,365	1,345
Street railways and busses 7/	249	249	249	253	254
Telephone	631	631	627	506	404
Telegraph 8/	36.3	36.9	36.9	38.7	39.3
Electric light and power	274	273	271	258	256
SERVICE:					
Hotels (year-round)	377	377	375	382	379
Power laundries 2/	233	232	231	245	242
Cleaning and dyeing 2/	93.4	92.5	90.0	97.4	95.4

See explanatory notes, section G.

1/ Includes all employees unless otherwise noted.

2/ Includes production and related workers only.

3/ Estimates have been adjusted to levels indicated by data through 1946 made available by the Federal Security Agency. Only the bituminous coal industry was affected by this adjustment. Comparable data for all industries from January 1939 are available upon request to the Bureau of Labor Statistics.

4/ February 1948 revised to 16.3.

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
(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	May	Apr.	Mar.	May	May	Apr.	Mar.	May
ALL MANUFACTURING 1/	155.3	156.1	160.3	153.8	345.9	346.7	358.4	319.3
Durable goods 1/	183.6	185.0	188.1	182.0	389.5	392.7	402.0	363.0
Nondurable goods 1/	133.0	133.3	138.4	131.5	303.2	301.8	315.7	276.6
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS 1/	161.4	161.7	164.8	159.6	334.4	329.6	340.8	310.2
Blast furnaces, steel works, and rolling mills	133.3	131.8	132.9	127.3	265.4	253.0	260.9	237.9
Gray-iron and semisteel castings	172.2	177.9	183.0	185.6	374.3	394.6	421.7	410.4
Malleable-iron castings	194.2	193.6	197.0	180.2	460.3	453.0	469.7	408.5
Steel castings	213.6	214.1	216.3	207.2	454.2	453.2	456.8	399.6
Cast-iron pipe and fittings	154.0	156.1	160.8	156.2	373.9	360.5	385.2	391.0
Tin cans and other tinware	134.9	132.4	140.0	132.6	286.1	274.9	289.8	252.2
Wire drawn from purchased rods	134.0	137.1	139.4	120.4	249.8	255.3	269.1	220.8
Wirework	135.2	137.9	142.9	129.9	298.2	302.0	316.4	257.3
Cutlery and edge tools	149.9	153.8	155.9	167.0	357.8	364.6	370.6	373.0
Tools (except edge tools, machine tools, files, and saws)	164.7	166.7	167.9	162.7	366.6	372.4	378.4	342.4
Hardware	145.5	148.6	152.5	141.5	325.8	342.2	355.1	308.4
Plumbers' supplies	149.8	150.3	153.2	153.5	324.0	322.2	329.0	289.3
Stoves, oil burners, and heating equipment not elsewhere classified	161.7	158.2	169.1	171.4	352.5	345.4	368.6	351.4
Steam and hot-water heating apparatus and steam fittings	188.2	185.2	194.2	201.5	406.0	393.8	416.5	393.9
Stamped and enameled ware and galvanizing	187.4	189.6	192.8	190.3	440.6	439.8	447.0	414.8
Fabricated structural and ornamental metalwork	169.0	170.7	170.9	167.3	345.7	340.6	343.4	317.4
Metal doors, sash, frames, molding, and trim	131.4	130.6	135.4	117.9	288.6	283.9	292.2	249.7
Bolts, nuts, washers, and rivets	187.8	189.8	190.0	189.1	408.2	416.7	422.4	380.7
Forgings, iron and steel	214.2	223.9	228.8	219.3	443.7	467.6	487.5	436.1
Wrought pipe, welded and heavy-riveted	211.0	210.8	215.5	201.9	443.1	437.7	455.3	380.0
Screw-machine products and wood screws	202.1	204.4	203.9	209.1	445.4	452.0	456.5	436.3
Steel barrels, kegs, and drums	117.7	119.5	121.9	131.1	302.6	298.1	302.0	316.1
Firearms	397.9	395.1	390.0	356.3	915.6	906.0	911.3	761.2
ELECTRICAL MACHINERY 1/	211.6	217.4	222.9	217.7	431.6	444.3	459.1	414.4
Electrical equipment	195.7	199.8	203.5	202.4	398.1	408.1	419.6	389.6
Radios and phonographs	204.6	212.2	221.9	233.6	451.4	468.5	488.4	491.1
Communication equipment	277.3	289.3	297.4	250.4	530.0	551.2	578.6	415.6

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

Table 10. - 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	
	May	Apr.	Mar.	May	May	Apr.	Mar.	May
MACHINERY, EXCEPT ELECTRICAL 1/	228.5	227.4	233.1	230.2	466.4	463.8	475.2	437.7
Machinery and machine-shop products	235.8	238.8	240.9	242.3	491.0	493.6	496.4	463.4
Engines and turbines	286.7	289.1	293.3	293.1	617.6	611.7	632.3	587.1
Tractors	180.1	143.4	198.8	178.9	285.2	248.9	353.8	304.9
Agricultural machinery, excluding tractors	263.7	267.0	266.1	230.9	571.2	571.9	576.8	440.8
Machine tools	129.7	130.4	134.5	151.5	240.7	240.2	249.2	265.4
Machine-tool accessories	214.4	214.8	216.6	234.4	389.9	392.6	388.9	398.1
Textile machinery	188.8	188.3	187.6	176.6	439.4	436.0	437.8	366.2
Pumps and pumping equipment	278.7	280.9	286.8	310.9	610.3	610.0	617.7	627.0
Typewriters	147.0	148.7	153.5	147.8	325.0	336.8	347.5	311.3
Cash registers; adding, and calculating machines	231.8	235.2	234.2	208.4	489.4	504.7	499.9	420.2
Washing machines, wringers, and driers, domestic	214.6	217.0	218.4	195.3	454.2	465.3	454.0	395.4
Sewing machines, domestic and industrial	177.2	175.9	174.8	135.4	428.0	409.9	414.5	282.1
Refrigerators and refrigeration equipment	235.0	226.7	230.4	212.9	472.8	450.4	454.7	397.3
TRANSPORTATION EQUIPMENT EXCEPT AUTOMOBILES 1/	276.0	290.9	292.7	299.3	566.4	601.4	600.4	572.1
Locomotives	407.7	410.5	411.3	367.4	916.4	928.1	908.6	757.0
Cars, electric- and steam-railroad	219.6	219.7	221.8	224.9	478.5	483.8	490.3	465.2
Aircraft and parts, excluding aircraft engines	315.3	346.0	342.9	348.4	634.2	695.2	675.9	639.2
Aircraft engines	282.4	278.4	276.9	303.4	493.5	481.0	473.9	477.0
Shipbuilding and boatbuilding	167.6	176.8	181.6	202.7	345.7	373.6	383.7	395.6
Motorcycles, bicycles, and parts	185.2	206.0	211.7	183.6	370.5	418.2	426.6	363.1
AUTOMOBILES 1/	188.6	191.9	195.0	179.1	357.6	386.2	396.5	335.0
NONFERROUS METALS AND THEIR PRODUCTS 1/	173.7	176.9	180.0	182.5	363.4	368.3	377.1	354.8
Smelting and refining, primary, of nonferrous metals	149.8	148.4	147.8	144.2	321.6	314.1	307.2	287.4
Alloying; and rolling and drawing of nonferrous metals, except aluminum	135.6	138.3	140.6	155.0	268.9	271.7	283.5	285.4
Clocks and watches	139.1	140.7	141.9	136.9	326.2	336.8	339.1	298.1
Jewelry (precious metals) and jewelers' findings	182.3	187.6	191.0	177.4	361.0	377.7	391.8	330.1
Silverware and plated ware	224.2	226.8	226.5	199.9	522.4	529.4	543.3	438.7
Lighting equipment	147.7	152.7	161.7	184.3	303.5	308.3	328.4	351.4
Aluminum manufactures	181.5	187.7	192.1	197.4	347.0	356.8	362.0	350.5
Sheet-metal work, not elsewhere classified	187.8	192.0	196.4	202.9	413.2	417.8	433.0	415.8

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

Table 10. - 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
	May	Apr.	Mar.	May	May	Apr.	Mar.	May
LUMBER AND TIMBER BASIC PRODUCTS 1/	182.8	178.7	178.3	168.8	452.6	425.2	427.6	383.3
Sawmills and logging camps	175.1	171.1	171.1	167.0	435.5	405.2	412.4	384.7
Planing and plywood mills	172.1	171.1	171.1	159.4	421.0	412.9	403.8	350.5
FURNITURE AND FINISHED LUMBER PRODUCTS 1/	139.7	143.4	147.8	137.3	325.6	333.0	349.2	302.1
Mattresses and bedsprings	152.0	159.4	168.8	145.2	316.2	336.4	363.2	282.0
Furniture	131.1	134.7	138.8	127.0	307.2	314.6	330.9	278.9
Wooden boxes, other than cigar	114.8	119.3	122.2	128.3	281.5	286.4	300.1	304.0
Caskets and other morticians' goods	133.5	136.4	140.6	138.8	270.3	281.0	295.6	278.0
Wood preserving	123.1	120.5	124.3	144.7	333.5	316.1	310.5	387.6
Wood, turned and shaped	130.5	133.4	136.2	124.3	303.9	310.4	317.4	274.9
STONE, CLAY, AND GLASS PRODUCTS 1/	154.7	153.7	153.9	148.9	343.4	337.9	336.6	299.5
Glass and glassware	164.7	165.2	165.2	171.1	352.5	355.3	358.2	333.0
Glass products made from purchased glass	122.2	123.4	124.8	127.6	264.5	259.9	267.6	259.4
Cement 2/	152.2	150.5	149.4	141.8	314.3	297.2	287.3	202.5
Brick, tile, and terra cotta	133.8	131.1	130.1	124.3	320.8	305.6	297.1	276.4
Pottery and related products	168.9	167.2	170.2	165.6	351.1	348.7	352.9	323.8
Gypsum	132.3	132.8	134.3	115.2	304.8	298.6	285.4	228.4
Wallboard, plaster (except gypsum), and mineral wool	153.6	153.5	153.1	135.9	393.7	396.4	390.1	315.6
Lime	100.8	101.6	100.0	99.3	273.3	273.3	262.1	239.2
Marble, granite, slate, and other products	98.2	96.6	99.3	89.5	182.7	176.6	179.3	158.7
Abrasives	226.0	226.3	226.4	250.4	490.6	474.9	487.0	440.6
Asbestos products	137.1	137.5	138.2	131.3	329.9	328.9	327.0	299.8
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES 1/	113.0	113.7	114.7	107.2	303.8	307.1	315.6	254.5
Cotton manufactures, except smallwares	125.4	125.8	126.6	121.7	369.7	374.7	385.1	317.3
Cotton smallwares	102.3	103.6	105.8	103.6	238.3	243.0	249.1	222.1
Silk and rayon goods	88.3	88.2	88.1	81.5	268.6	267.4	267.8	212.9
Woolen and worsted manufactures, except dyeing and finishing	109.9	111.0	113.1	104.2	307.9	308.6	322.1	252.6
Hosiery	81.3	82.8	84.1	76.7	183.6	189.2	197.6	152.6
Knitted cloth	99.4	101.9	101.4	93.2	223.1	237.1	243.3	196.7
Knitted outerwear and knitted gloves	105.8	104.4	106.4	99.7	247.6	242.8	249.9	213.1
Knitted underwear	119.3	122.7	123.5	106.2	303.4	320.3	323.7	252.9
Dyeing and finishing textiles, including woolen and worsted	123.9	125.0	125.2	119.2	299.0	305.6	308.8	260.3
Carpets and rugs, wool	136.4	135.4	135.5	117.3	332.8	324.2	327.9	245.7
Hats, fur-felt	84.2	82.7	89.3	82.9	184.6	176.4	197.5	168.7
Jute goods, except felts	112.0	112.8	109.3	113.3	272.2	275.9	264.2	271.8
Cordage and twine	128.7	130.9	134.1	123.7	305.0	311.4	330.4	271.3

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

Table 10. - 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
	May	Apr.	Mar.	May	May	Apr.	Mar.	May
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS 1/	137.1	139.8	147.5	125.4	297.9	306.5	343.2	259.8
Men's clothing, not elsewhere classified	134.9	135.0	137.0	122.2	311.5	317.1	324.8	270.5
Shirts, collars, nightwear	109.8	110.9	111.2	98.9	268.1	274.6	279.7	228.8
Underwear and neckwear, men's	108.6	110.4	112.0	102.4	296.6	297.5	313.7	249.9
Work shirts	129.2	126.4	123.8	108.2	325.8	316.1	305.6	253.6
Women's clothing, not elsewhere classified	149.4	153.7	168.3	136.0	299.3	307.1	376.4	260.3
Corsets and allied garments	98.8	102.4	106.1	94.2	213.0	229.1	241.6	198.0
Millinery 2/	79.5	91.8	108.3	79.3	126.8	171.1	212.5	119.2
Handkerchiefs	99.2	99.8	99.6	93.1	239.1	251.5	259.4	221.7
Curtains, draperies, and bedspreads	150.6	157.7	172.1	124.7	338.5	348.2	397.0	257.4
Housefurnishings, other than curtains, etc.	248.0	259.8	272.0	262.0	535.3	584.6	609.2	560.8
Textile bags	212.8	212.4	216.9	220.6	464.8	446.4	449.3	427.8
LEATHER AND LEATHER PRODUCTS 1/	103.7	107.1	114.1	106.1	216.5	227.1	251.7	220.9
Leather	88.2	88.5	91.6	91.6	186.8	184.1	192.1	183.7
Boot and shoe cut stock and findings	86.5	88.7	94.7	91.7	168.9	173.4	187.9	170.0
Boots and shoes	88.5	92.2	99.4	92.1	183.7	198.1	225.6	197.0
Leather gloves and mittens	123.5	121.9	125.4	120.4	257.0	241.3	252.8	223.4
Trunks and suitcases	157.9	160.1	166.4	145.8	338.3	347.2	364.1	281.6
FOOD 1/	127.1	122.6	134.5	134.8	278.4	266.5	285.8	270.4
Slaughtering and meat packing	85.7	73.9	134.0	128.0	202.2	178.4	276.6	249.4
Butter	186.0	175.3	162.8	185.9	386.9	362.0	330.3	365.6
Condensed and evaporated milk	198.3	188.3	177.2	205.7	477.9	438.1	403.0	440.9
Ice cream	166.0	153.9	138.5	170.6	311.3	286.4	261.3	295.9
Flour	133.9	134.7	136.0	133.0	296.4	286.8	275.8	274.8
Feeds, prepared	160.7	153.9	152.0	159.1	363.8	337.1	329.6	326.7
Cereal preparations	152.6	146.4	144.7	142.3	333.6	313.0	297.8	277.5
Baking	115.4	114.3	115.4	111.0	235.1	227.6	227.1	208.4
Sugar refining, cane	111.0	109.2	123.2	123.9	230.9	229.3	248.4	229.4
Sugar, beet	55.8	46.9	48.4	56.0	114.2	96.7	98.9	99.6
Confectionery	100.0	109.0	118.3	111.2	210.6	241.2	260.1	232.0
Beverages, nonalcoholic	161.7	151.3	143.6	125.8	277.0	257.9	241.0	203.9
Malt liquors	163.9	172.4	167.0	165.4	299.9	316.0	293.0	287.8
Canning and preserving	91.0	84.3	81.2	90.3	232.7	216.9	204.6	217.8
TOBACCO MANUFACTURES 1/	90.5	92.4	93.4	88.4	201.3	205.7	204.6	182.8
Cigarettes	120.7	121.1	121.1	119.8	253.1	254.3	246.5	220.9
Cigars	78.3	81.0	82.7	76.0	175.1	182.7	186.6	169.1
Tobacco (chewing and smoking) and snuff	75.9	77.0	77.3	76.5	161.8	161.6	159.6	129.8

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

Table 10. - 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
	May	Apr.	Mar.	May	May	Apr.	Mar.	May
PAPER AND ALLIED PRODUCTS <u>1/</u>	146.4	146.8	148.0	146.1	331.9	325.7	330.8	296.3
Paper and pulp	146.0	145.3	145.5	140.3	338.9	327.7	330.0	289.4
Paper goods, other	150.7	150.4	152.0	153.4	328.2	324.4	327.8	306.8
Envelopes	145.5	145.6	145.7	137.6	282.9	282.1	283.7	262.9
Paper bags	158.2	162.3	164.1	168.1	354.8	365.3	373.7	338.4
Paper boxes	131.6	133.7	137.3	141.6	289.9	292.5	305.4	282.9
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	132.2	131.8	132.8	131.0	262.6	259.5	258.5	238.6
Newspapers and periodicals	123.5	122.5	122.0	119.0	236.6	235.0	229.2	209.3
Printing; book and job	138.1	137.4	139.1	137.2	283.9	278.6	280.0	255.4
Lithographing	117.5	119.0	119.5	124.6	223.9	221.4	227.2	216.1
Bookbinding	136.4	139.5	144.5	145.3	302.9	304.4	313.4	320.2
CHEMICALS AND ALLIED PRODUCTS <u>1/</u>	198.4	201.4	203.6	199.5	422.5	422.1	425.1	389.1
Paints, varnishes, and colors	179.4	177.1	179.4	178.0	343.9	329.4	332.9	313.6
Drugs, medicines, and insecticides	231.2	233.2	236.9	250.4	480.6	477.4	487.6	461.9
Perfumes and cosmetics	105.2	107.6	111.2	114.4	209.7	215.1	222.0	212.7
Soap	142.2	142.9	163.1	155.6	322.9	321.8	359.0	301.1
Rayon and allied products	131.2	131.4	131.8	126.8	275.1	274.6	271.9	249.6
Chemicals, not elsewhere classified	279.8	283.2	280.8	280.9	563.2	564.8	558.6	520.9
Explosives and safety fuses	304.7	303.7	306.8	291.0	592.0	561.5	585.0	506.5
Compressed and liquefied gases	250.9	252.4	250.1	241.8	491.7	483.7	473.6	419.4
Ammunition, small-arms	181.6	182.5	182.8	162.6	404.1	398.8	396.8	353.5
Fireworks	218.9	209.3	203.9	552.0	588.0	566.0	625.8	691.8
Cottonseed oil	89.1	99.5	115.0	86.0	245.9	270.2	316.4	219.6
Fertilizers	156.1	177.4	184.4	157.8	428.3	482.9	492.3	422.6
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	157.3	154.9	153.4	151.9	334.2	316.7	320.0	280.6
Petroleum refining	152.8	151.5	151.3	148.6	316.1	301.3	299.3	262.5
Coke and byproducts <u>2/</u>	143.6	137.3	141.4	131.1	321.9	288.5	314.6	271.8
Paving materials	91.4	87.4	75.3	110.2	214.5	198.2	163.4	209.0
Roofing materials	213.0	214.6	215.3	214.3	507.9	495.6	502.7	463.6

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

Table 10. - 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
	May	Apr.	Mar.	May	May	Apr.	Mar.	May
RUBBER PRODUCTS ^{1/}	160.8	163.8	168.9	174.6	320.9	312.8	320.6	347.5
Rubber tires and inner tubes	190.4	192.9	200.7	220.0	345.5	323.6	330.2	399.3
Rubber boots and shoes	146.8	149.0	152.4	153.6	329.1	333.9	347.0	331.2
Rubber goods, other	158.0	161.9	165.3	156.3	338.7	347.1	356.2	325.5
MISCELLANEOUS INDUSTRIES ^{1/}	176.6	178.4	182.6	180.3	384.2	382.6	394.0	364.6
Instruments (professional and scientific), and fire-control equipment	242.8	244.1	244.6	244.4	492.6	494.2	489.3	441.2
Photographic apparatus	214.1	217.1	219.8	207.6	431.0	416.2	422.3	383.0
Optical instruments and ophthalmic goods	224.1	226.9	229.1	247.1	426.7	438.1	444.8	461.0
Pianos, organs, and parts	175.2	170.5	189.7	193.5	367.8	357.9	396.0	418.5
Games, toys, and dolls	210.3	210.7	201.2	177.3	496.7	487.6	463.7	386.1
Buttons	114.2	116.3	122.6	109.1	269.4	269.4	284.3	234.7
Fire extinguishers	260.9	266.8	258.6	283.4	563.4	575.5	541.0	552.1

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

^{1/} See footnote 1, table 8.

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

Cement - February 1948 pay roll to 282.8.

Millinery - February 1948 pay roll to 236.0.

Coke and byproducts - January and February 1948 pay roll to 309.8 and 312.3.

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	
	May	Apr.	Mar.	May	May	Apr.	Mar.	May
MINING: 1/								
Coal:								
Anthracite	91.4	91.9	92.6	91.4	246.2	195.4	255.9	210.2
Bituminous coal	108.2	79.5	108.0	104.7	341.4	166.4	342.0	290.3
Metal	98.2	98.9	98.7	98.1	204.0	200.9	201.3	186.3
Iron	154.0	152.8	149.4	150.0	332.1	315.6	313.8	296.4
Copper	104.7	107.2	107.9	101.3	230.0	232.6	234.8	203.8
Lead and zinc 2/	101.2	100.8	100.2	109.7	236.6	236.3	232.8	236.9
Gold and silver	31.3	32.5	33.3	31.6	54.6	55.2	56.7	49.7
Miscellaneous	182.9	182.8	189.1	185.6	352.5	343.1	349.2	319.1
Quarrying and nonmetallic	125.6	124.0	118.2	127.4	329.7	311.7	287.3	295.5
Crude petroleum and natural gas production	113.3	112.0	111.1	109.8	228.7	218.4	213.2	192.2
TRANSPORTATION AND PUBLIC UTILITIES								
Class I steam railroads 3/	133.7	127.5	133.3	133.8	4/	4/	4/	4/
Street railways and busses	128.5	128.3	128.7	130.7	228.1	227.1	232.6	220.0
Telephone	198.6	198.5	197.4	159.2	330.5	322.5	314.7	202.9
Telegraph	96.3	97.9	98.2	102.8	231.1	224.8	213.0	226.9
Electric light and power	112.3	111.7	110.9	105.7	191.9	188.6	184.4	168.2
TRADE: 5/								
Wholesale	114.4	114.8	115.3	109.7	211.6	210.8	210.8	191.4
Retail	113.1	112.8	113.8	111.3	213.8	211.1	210.4	195.3
Food	116.3	116.1	116.7	113.9	227.0	225.5	226.1	206.0
General merchandise	123.7	123.6	124.5	121.2	229.2	225.5	225.5	212.3
Apparel	115.2	114.3	116.8	114.3	211.8	208.6	208.8	200.9
Furniture and housefurnishings	91.9	91.7	91.9	84.6	180.3	175.5	173.7	151.9
Automotive	107.0	107.1	105.8	99.4	205.3	204.7	197.5	177.7
Lumber and building materials	123.7	121.9	119.4	117.5	242.6	234.9	228.6	209.9
SERVICE:								
Hotels (year-round) 6/	117.0	116.9	116.4	118.4	234.6	233.4	229.0	221.1
Power laundries	119.0	118.3	117.7	124.9	232.3	231.5	227.5	231.0
Cleaning and dyeing	160.6	159.0	154.8	167.5	312.4	308.0	291.2	313.5

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

1/ See footnote 3, table 9.

2/ February 1948 revised to 99.9 for employment and 235.0 for pay rolls.

3/ Source: Interstate Commerce Commission.

4/ Not available.

5/ Includes all nonsupervisory employees and working supervisors.

6/ 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 1946 and supersede data shown in mimeographed releases dated prior to June 1948 and in the Monthly Labor Review dated prior to July 1948.

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. Scope of Employment Revisions - Each of the industry divisions except service was affected by the recent revisions. Adjustments have been made in the 20 major groups comprising the manufacturing industry division. 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. 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 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 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 2.
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.
Illinois - Dept. of Labor, Chicago 1.
Indiana - Employment Security Div., Indianapolis 9.
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.

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 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 (forco-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.