

## 29. Manufactures

**Census of Manufactures.**—The basic source of comprehensive data on manufacturing production has been the Census of Manufactures conducted by the Bureau of the Census. This census was taken decennially from 1849 to 1899, for each fifth year thereafter through 1919, and biennially from 1921 through 1939. During the recent war years the Census of Manufactures was abandoned as directed by Executive Order No. 9152 in the interests of more important work related to the Nation's war effort.

The quinquennial censuses—those of 1904, 1909, 1914, and 1919—covered all factories or plants whose products were valued at \$500 or more, but beginning with 1921, the minimum limit has been \$5,000. Conceptually an establishment is a geographically isolated manufacturing unit maintaining independent bookkeeping records, regardless of its managerial or financial affiliations. An establishment—which may be a single plant or a group of closely located plants operated by a single plant or a group of closely located plants operated by a single company without separate records for each—is the basic reporting unit. In addition, the establishment is the basic unit of industrial classification, being assigned to an industry on the basis of its reported product of chief value.

“Value of products” represents the selling value at the plant or factory. Because of the use of the products of some establishments as materials for others, the total cost of materials and the total value of products for all industries in a given group, and for all groups in the aggregate, include much duplication, estimated at roughly one-third of the gross value of products. Such duplication is not, however, found to any great extent within individual industries. “Value added by manufacture,” computed by subtracting “cost of materials, supplies, fuel, etc.,” from value of product, provides a rough measure of [the contribution of manufacturing processes to product values and is practically free of duplication.

Detailed quantity and value data on the output of manufactured products are compiled from reports of the Census of Manufactures. The “total value” figures for a group of products differ from the “value of products” of the corresponding industry as given in table 923. The product figures include the minor or secondary production of the commodity in plants engaged primarily in other lines of manufacture, whereas the industry figures which relate to the total output of a group of plants primarily engaged in a particular industry, include the value of the secondary products made by the plants classified in the industry.

Because the Bureau of the Census is prohibited from disclosing the operations of any individual company, general plant and detailed commodity information for any industry can be published only where a given industry in a given State or area is represented by three or more independently owned establishments of approximately the same size. This restriction has little effect upon tables for the entire United States, but there are many instances where because of the concentration of production in a few establishments, it has been necessary to combine data for presentation, rather than showing detailed industry data for each city and State.

**Current and other statistics.**—Monthly, quarterly, and annual commodity surveys are also conducted by the Bureau of the Census. These data are published currently in the Facts for Industry series. This series also includes releases of information collected by or for the War Production Board and successor agencies during the war and reconversion periods by the Census Bureau or other Federal agencies.

Reports on current activities of industries, or current movements of individual commodities, are also compiled by trade associations and trade journals, commercial agencies, and by such governmental bureaus as Labor Statistics, Agricultural Economics, Foreign and Domestic Commerce, Fish and Wildlife Service, Tariff Commission, and Internal Revenue, in addition to the Census Bureau previously mentioned.

Abbreviated balance sheet and income account data on all United States manufacturing corporations are compiled and published annually by the Bureau of Internal Revenue from corporation income and profits tax returns and holding company returns.

Data on financial operations and intercorporate relations of manufacturing corporations are collected from time to time by the Securities and Exchange Commission, the Tariff Commission, the Federal Trade Commission, and special investigating agencies. Financial statistics for certain manufacturing industries in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, types and amounts of security issues, and selected data on the salaries paid to officers and directors, are summarized and published for the leading corporations that are registered with the Securities and Exchange Commission. The Tariff Commission publishes commodity surveys which cover economic and competitive aspects of production, distribution, and international trade in selected important industries. Each survey deals with several products which are related because of the raw materials consumed, or competitive uses. The Federal Trade Commission has made several comprehensive studies of individual industries, notable among which are the reports on the motor-vehicle industry, certain industries processing agricultural raw materials, and the agricultural implement and machinery industry. Studies of individual industries have also been made by trade associations and private research agencies.

**Material in other sections.**—In addition to the statistics presented in this section, statistics on the output and activities of manufacturers will be found in various other sections of the Statistical Abstract. For example, data on wages and hours appear in section 8, Labor Force, Employment, and Pay Rolls; statistics on manufacturing corporations compiled from corporation income tax returns appear in section 14, National Government Finances; and statistics on lumber production in section 25, Forests and Forest Products. For page references to the commodity or industry, consult the index. For references to the important sources of statistics on manufacturing and related activities, see the listings under the appropriate subjects in the "Bibliography of Sources of Statistical Data," pages 972-1003.

**Geographic coverage.**—Statistics in this section relate to continental United States except as noted.

No. 915.—MANUFACTURES—SUMMARY: 1849 TO 1939

[It is sometimes necessary, for various reasons but chiefly because of changes in census classification, to make adjustments in figures for earlier census years. Adjustments have been made in figures beginning with 1890 as a result of exclusion from Census of Manufactures since 1929 of the industries "Coffee and spice, roasting and grinding," "Flax and hemp, dressed," "Gas, illuminating and heating," "Grindstones," "Motion pictures, not including projection in theaters," "Peanuts, walnuts, and other nuts, processed or shelled," and "Railroad repair shops" (both steam and electric)]

CENSUS YEAR	Number of establishments	Wage earners (average for year)	Wages (\$1,000)	Cost of materials, containers, fuel, and purchased energy (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>Factories and hand and neighborhood industries:</b>						
1849 <sup>2</sup>	123,025	957,059	236,755	555,124	1,019,107	463,983
1859 <sup>2</sup>	140,433	1,311,246	378,879	1,031,605	1,885,862	854,257
1869 <sup>2</sup>	252,148	2,053,996	562,467	1,990,742	3,385,860	1,395,119
1879 <sup>2</sup>	253,852	2,732,595	947,954	3,396,824	5,369,579	1,972,756
1889 <sup>2</sup>	355,405	4,251,535	1,891,220	5,162,014	9,372,379	4,210,365
1899 <sup>2</sup>	512,191	5,306,143	2,320,938	7,343,628	13,000,149	5,656,521
<b>Factories, excluding hand and neighborhood industries:</b>						
1899 <sup>2</sup>	204,750	4,501,919	1,892,574	6,385,970	11,032,951	4,646,981
1904 <sup>2</sup>	213,444	5,181,660	2,440,851	8,233,790	14,252,961	6,019,171
1909 <sup>2</sup>	264,826	6,262,242	3,205,548	11,783,160	19,945,249	8,162,089
1914 <sup>2</sup>	269,193	6,613,189	3,787,399	14,020,417	23,442,692	9,422,276
1914 <sup>4</sup>	173,575	6,475,567	3,709,449	13,811,422	23,049,632	9,238,210
1919 <sup>4</sup>	210,268	8,423,964	9,611,002	36,229,015	59,964,027	23,735,012
1921 <sup>4</sup>	192,059	6,475,474	7,451,299	24,397,078	41,649,853	17,252,775
1923 <sup>4</sup>	192,096	8,194,170	10,148,624	35,611,809	58,181,296	24,569,487
1925 <sup>4</sup>	183,877	7,871,409	9,979,649	35,141,601	60,809,225	25,667,624
1927 <sup>4</sup>	187,629	7,848,070	10,099,465	34,010,075	60,335,469	25,325,394
1929 <sup>4</sup>	206,663	8,369,705	10,884,919	37,402,606	67,994,041	30,591,435
1931 <sup>4</sup>	171,450	6,163,144	6,688,541	21,229,356	39,829,888	18,600,532
1933 <sup>4</sup>	139,325	5,787,611	4,940,146	16,549,788	30,557,828	14,007,540
1935 <sup>4</sup>	167,916	7,203,794	7,311,329	26,441,145	44,993,699	18,552,553
1937 <sup>4</sup>	166,794	8,569,231	10,112,883	35,539,333	60,712,872	25,173,539
1939 <sup>4</sup>	184,230	7,886,567	9,089,941	32,160,107	56,843,025	24,682,918

<sup>1</sup> Value of products less cost of materials, containers, fuel, and purchased electric energy.

<sup>2</sup> For all establishments having products valued at \$500 or more.

<sup>3</sup> Reduced to gold basis.

<sup>4</sup> For all establishments having products valued at \$5,000 or more.

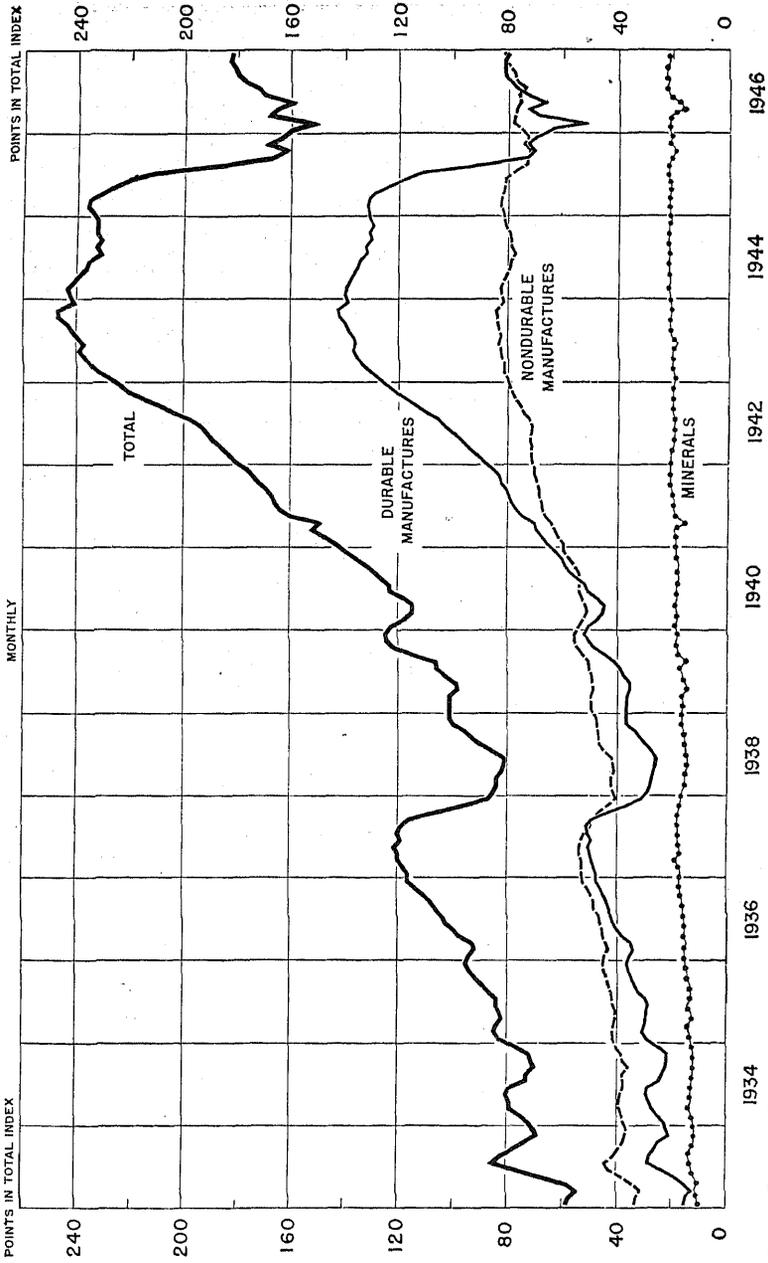
<sup>5</sup> Includes cost of contract work.

<sup>6</sup> Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and cost of contract work from value of products. Not strictly comparable with years prior to 1935.

<sup>7</sup> An establishment operating two or more factories was counted as two or more establishments in censuses for 1937 and 1939. Total number was increased approximately 2,000 by this change.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

FIGURE K.—INDUSTRIAL PRODUCTION INDEXES: 1933 TO 1946  
 [Based on physical volume, adjusted for seasonal variation, 1935-39 average for total=100]



Source: Board of Governors of the Federal Reserve System.

No. 916.—POPULATION, WAGE EARNERS, AND PRODUCTION—INDEXES: 1899 TO 1939

[See general note, p. 811]

CENSUS YEAR	Population	Wage earners	Production (quantity) <sup>1</sup>	Production per wage earner	CENSUS YEAR	Population	Wage earners	Production (quantity) <sup>1</sup>	Production per wage earner
1899.....	100	100	100	100	1927.....	158	178	317	178
1904.....	110	115	124	108	1929.....	162	190	364	192
1909.....	121	139	158	114	1931.....	166	140	262	187
1914.....	131	147	186	127	1933.....	168	131	228	174
1919.....	140	191	222	116	1935.....	170	163	301	185
1921.....	145	147	194	132	1937.....	172	194	376	194
1923.....	149	186	280	151	1939.....	175	187	373	199
1925.....	154	178	298	167					

<sup>1</sup> Index of physical output from National Bureau of Economic Research.

No. 917.—MANUFACTURING ESTABLISHMENTS CLASSIFIED ACCORDING TO NUMBER OF WAGE EARNERS: 1937 AND 1939

[See general note, p. 811]

NUMBER OF WAGE EARNERS	1937				1939			
	Establishments	Average number of wage earners	Percent of total		Establishments	Average number of wage earners	Percent of total	
			Establishments	Wage earners			Establishments	Wage earners
<b>Total.....</b>	<b>166,794</b>	<b>8,569,231</b>	<b>100.0</b>	<b>100.0</b>	<b>184,230</b>	<b>7,886,567</b>	<b>100.0</b>	<b>100.0</b>
None.....	6,885		4.1		8,315		4.5	
1 to 5.....	62,164	170,174	37.3	2.0	75,930	203,052	41.2	2.6
6 to 20.....	46,402	514,487	27.8	6.0	49,015	542,679	26.6	6.9
21 to 50.....	23,138	750,922	13.9	8.8	23,646	764,314	12.8	9.7
51 to 100.....	11,911	852,373	7.1	9.9	11,908	848,423	6.5	10.8
101 to 250.....	9,745	1,522,670	5.8	17.8	9,458	1,472,651	5.1	18.7
251 to 500.....	3,911	1,363,000	2.3	15.9	3,653	1,263,983	2.0	16.1
501 to 1,000.....	1,660	1,133,323	1.0	13.2	1,495	1,024,297	.8	13.0
1,001 to 2,500.....	737	1,080,534	.4	12.6	634	937,136	.3	11.9
2,501 or more.....	241	1,181,748	.1	13.8	176	824,532	.1	10.5

No. 918.—MANUFACTURING ESTABLISHMENTS CLASSIFIED BY VALUE OF PRODUCTS: 1939

[See general note, p. 811]

CLASS OF ESTABLISHMENTS ACCORDING TO VALUE OF PRODUCTS	ESTABLISHMENTS		WAGE EARNERS		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
	Number	Percent distribution	Average number	Percent distribution	Amount (thousands of dollars)	Percent distribution	Amount (thousands of dollars)	Percent distribution
<b>Total.....</b>	<b>184,230</b>	<b>100.0</b>	<b>7,886,567</b>	<b>100.0</b>	<b>56,843,025</b>	<b>100.0</b>	<b>24,682,918</b>	<b>100.0</b>
\$5,000 to \$19,999.....	60,593	32.9	189,575	2.4	680,777	1.2	395,900	1.6
\$20,000 to \$49,999.....	42,083	22.8	327,340	4.2	1,353,676	2.4	749,596	3.0
\$50,000 to \$99,999.....	25,490	13.8	389,637	4.9	1,811,463	3.2	955,066	3.9
\$100,000 to \$249,999.....	24,718	13.4	768,358	9.7	3,920,974	6.9	1,938,317	7.9
\$250,000 to \$499,999.....	13,066	7.1	839,222	10.6	4,626,937	8.1	2,167,507	8.8
\$500,000 to \$999,999.....	8,706	4.7	1,038,151	13.2	6,110,939	10.8	2,816,572	11.4
\$1,000,000 to \$2,499,999.....	6,088	3.3	1,463,278	18.6	9,298,230	16.4	4,276,718	17.3
\$2,500,000 to \$4,999,999.....	2,013	1.1	904,184	11.5	6,918,927	12.2	3,160,708	12.8
\$5,000,000 and over.....	1,473	.8	1,966,822	24.9	22,121,102	38.9	8,221,595	33.3

Source of tables 916, 917, and 918: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 919.—INDUSTRIAL PRODUCTION—INDEXES, BY GROUPS: 1927 TO 1946

[1935-39 average=100. For discussion of revisions beginning 1939, see Federal Reserve Bulletin, Oct. 1943; for discussion of revisions for earlier years, see Bulletins for Aug. 1940 and Sept. 1941. Monthly data adjusted for seasonal variation]

YEAR AND MONTH	MANUFACTURES											
	Total	Durable manufactures						Nondurable manufactures				
		Total	Iron and steel	Machinery	Transportation equipment	Non-ferrous metal and products	Lumber and products	Stone, clay, and glass products	Total	Textiles and products	Leather and products	
1927	95	94	107	108	99	89	108	144	106	83	92	94
1928	99	99	117	121	106	108	118	142	110	85	87	93
1929	110	110	132	133	130	134	136	146	110	93	94	96
1930	91	90	98	97	100	91	106	105	96	84	74	84
1931	75	75	67	61	66	62	83	76	77	79	79	82
1932	58	57	41	32	43	38	52	51	51	70	71	76
1933	69	68	54	54	50	48	60	63	54	79	88	88
1934	74	74	65	61	69	69	62	64	64	81	76	91
1935	87	87	83	81	83	93	80	85	77	90	93	90
1936	103	104	108	114	105	110	104	105	103	100	104	103
1937	113	113	122	123	126	123	122	113	114	106	106	102
1938	89	87	78	68	82	72	80	90	92	95	85	93
1939	109	109	109	114	104	103	113	106	114	109	112	105
1940	125	126	139	147	136	145	139	116	124	115	114	98
1941	162	168	201	186	221	245	191	134	162	142	152	123
1942	199	212	279	199	340	464	214	134	168	158	157	122
1943	239	258	360	208	443	735	267	129	173	176	153	114
1944	235	252	353	206	439	719	259	125	164	171	148	113
1945	203	214	274	183	343	487	204	109	163	166	146	117
1946	170	177	192	150	240	232	157	131	192	165	162	122
January	160	163	166	102	217	220	150	108	172	161	151	117
February	162	154	138	43	188	199	141	119	185	167	160	133
March	168	173	183	169	207	209	139	125	192	166	162	134
April	165	176	190	159	225	245	132	130	190	164	161	131
May	159	167	175	109	230	239	128	129	175	161	165	127
June	170	176	193	154	241	238	137	133	190	162	165	128
July	172	177	202	180	243	241	151	129	192	157	145	103
August	177	184	208	184	254	242	159	135	197	164	163	120
September	179	185	211	185	261	240	172	137	204	165	168	119
October	181	188	214	184	268	237	184	136	200	168	169	117
November	183	191	214	178	271	235	192	142	202	173	174	121
December	182	190	210	159	275	235	197	141	207	173	164	115

YEAR	MANUFACTURES—continued							MINERALS			
	Nondurable manufactures—Continued							Total	Fuels	Metals	
	Manu- factured food prod- ucts	Alco- holic bever- ages	To- bacco prod- ucts	Paper and prod- ucts	Print- ing and pub- lish- ing	Petro- leum and coal prod- ucts	Chem- ical prod- ucts				Rub- ber prod- ucts
1927	88	-----	90	74	93	78	73	83	100	97	116
1928	93	-----	92	79	96	87	78	98	99	95	120
1929	101	-----	96	85	104	96	89	100	107	103	134
1930	100	-----	93	79	97	89	87	78	93	91	102
1931	90	-----	87	74	88	80	78	72	80	82	68
1932	79	-----	79	65	74	69	68	64	67	72	36
1933	83	-----	80	76	75	74	76	77	76	80	51
1934	88	74	87	75	80	79	83	86	80	83	58
1935	89	89	90	86	89	85	89	93	86	89	73
1936	98	109	99	98	99	97	99	107	99	99	102
1937	103	108	103	107	109	108	112	104	112	109	127
1938	101	96	102	95	96	100	96	83	97	99	86
1939	108	98	106	114	106	110	112	113	106	105	113
1940	113	101	109	123	112	120	130	123	117	114	134
1941	127	117	120	150	127	135	176	163	125	122	149
1942	134	118	131	142	115	147	278	172	129	125	148
1943	145	117	133	139	111	185	384	228	132	132	126
1944	152	144	125	139	101	247	324	234	140	145	113
1945	150	178	136	189	108	236	284	215	137	143	101
1946	149	191	166	145	127	173	236	225	134	142	88

<sup>1</sup> Preliminary.

## No. 919.—INDUSTRIAL PRODUCTION—INDEXES, BY GROUPS: 1927 TO 1946—Con.

YEAR AND MONTH	MANUFACTURES—continued							MINERALS			
	Nondurable manufactures—Continued							Total	Fuels	Metals	
	Manufactured food products	Alcoholic beverages	Tobacco products	Paper and products	Printing and publishing	Petroleum and coal products	Chemical products				Rubber products
1946											
January.....	154	231	143	133	118	166	234	215	141	146	107
February.....	160	238	156	140	123	161	232	216	141	149	93
March.....	156	176	161	148	127	171	232	221	137	145	89
April.....	153	169	154	146	126	166	235	219	104	108	76
May.....	145	155	163	142	124	163	231	215	115	124	63
June.....	139	161	153	146	129	174	233	218	139	149	78
July.....	150	176	140	136	124	178	235	211	146	153	103
August.....	147	174	155	147	129	182	237	221	144	150	107
September.....	136	227	157	150	128	181	235	234	146	151	111
October.....	146	206	173	152	132	179	238	234	145	150	111
November.....	156	213	169	153	130	177	243	243	136	140	117
December.....	161	234	148	150	138	174	247	248	136	141	108

Source: Board of Governors of the Federal Reserve System. Figures published monthly in Federal Reserve Bulletin.

## No. 920.—MANUFACTURES—PRIME MOVERS, MOTORS, AND GENERATORS, BY NUMBER AND RATED CAPACITY: 1899 TO 1939

[See headnote, table 915]

KIND	1899	1909	1919	1929	1939
Number of establishments reporting power equipment.....	<sup>1</sup> 131,309	<sup>1</sup> 181,994	<sup>1</sup> 219,398	190,091	<sup>2</sup> 179,674
Prime movers, horsepower.....	<sup>3</sup> 9,633,215	<sup>4</sup> 16,393,467	19,432,157	10,328,309	21,239,195
Electric motors driven by purchased energy, horsepower.....	178,176	1,669,226	8,965,406	21,793,762	29,213,085
Prime movers:					
Steam engines:					
Number.....	<sup>5</sup> 127,145	<sup>5</sup> 148,001	110,609	62,395	42,538
Horsepower.....	<sup>6</sup> 7,999,241	<sup>6</sup> 13,806,053	13,346,169	9,167,755	6,533,429
Steam turbines:					
Number.....	( <sup>7</sup> )	( <sup>7</sup> )	5,655	8,883	12,631
Horsepower.....	( <sup>7</sup> )	( <sup>7</sup> )	3,098,698	7,409,748	11,295,872
Diesel and semi-Diesel engines:					
Number.....	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	5,311
Horsepower.....	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	630,181
Other internal-combustion engines:					
Number.....	<sup>6</sup> 14,231	<sup>6</sup> 33,866	<sup>6</sup> 30,080	<sup>6</sup> 10,991	10,278
Horsepower.....	<sup>6</sup> 132,961	<sup>6</sup> 739,736	<sup>6</sup> 1,223,296	<sup>6</sup> 1,203,303	1,176,044
Hydroturbines and water wheels:					
Number.....	<sup>7</sup> 23,078	<sup>7</sup> 21,226	7,13,952	6,511	3,854
Horsepower.....	<sup>7</sup> 1,453,821	<sup>7</sup> 1,819,465	<sup>7</sup> 1,763,994	1,557,503	1,603,660
Electric generators, kilowatt rating.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	7,591,999	9,658,828
Electric motors, total horsepower.....	475,342	4,582,689	15,612,644	33,844,131	45,291,319
Driven by purchased energy:					
Number.....	( <sup>9</sup> )	193,898	954,016	2,655,142	4,138,287
Horsepower.....	178,176	1,669,226	8,965,406	21,793,762	29,213,085
Driven by energy generated in plant:					
Number.....	16,317	180,791	465,519	829,959	1,224,478
Horsepower.....	297,166	2,913,463	6,647,238	12,050,369	16,078,234

<sup>1</sup> Because of change from \$500 to \$5,000 in minimum-value-of-products limit, "Number of establishments reporting power equipment" figures for 1919 and earlier years are not comparable with those for 1929 and 1939. This change did not, however, materially impair comparableness of figures for other items in this table.

<sup>2</sup> Returns for "Logging camps and logging contractors (not operating mills)," numbering 967, were excluded from power tabulations.

<sup>3</sup> Includes 47,192 horsepower reported as other owned power, not distributed by type of prime mover.

<sup>4</sup> Includes 28,213 horsepower reported as other owned power, not distributed by type of prime mover.

<sup>5</sup> Figures for "Steam engines" include data for "Steam turbines," not reported separately.

<sup>6</sup> Figures for "Other internal-combustion engines" include data for "Diesel and semi-Diesel engines," not reported separately.

<sup>7</sup> Includes data for water motors.

<sup>8</sup> Not available.

Source: Dept. of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures, 1939.

No. 921.—MANUFACTURES—RAPEL CAPACITY OF PRIME MOVERS, MOTORS, AND GENERATORS, AND CONSUMPTION OF ELECTRIC ENERGY, BY GEOGRAPHIC DIVISIONS AND BY INDUSTRY GROUPS: 1939

GEOGRAPHIC DIVISION AND INDUSTRY GROUP	ESTABLISHMENTS		Prime movers, horsepower	Generators, kilowatt rating	ELECTRIC MOTORS, HORSEPOWER			ELECTRIC ENERGY (MILLIONS OF KILOWATT-HOURS)		
	Number	Number reporting power equipment			Total	Driven by purchased energy	Driven by plant energy	Generated in plant	Sold	Purchased
United States.....	184,230	1179,674	21,239,195	9,658,828	45,291,319	29,213,985	16,078,234	28,751	2,922	45,040
New England.....	16,136	15,733	1,988,574	1,045,303	3,867,593	2,518,491	1,349,102	2,380	98	3,386
Middle Atlantic.....	59,291	59,992	3,093,374	2,077,345	11,542,265	7,606,740	3,935,525	5,592	882	12,950
East North Central.....	40,415	39,892	6,423,434	3,580,324	13,532,005	9,610,304	5,916,317	9,416	980	10,883
West North Central.....	14,947	14,775	758,383	372,094	2,103,529	1,457,088	662,771	1,047	157	2,051
South Atlantic.....	17,317	16,663	2,758,873	1,465,845	4,737,398	2,897,014	1,840,384	5,389	413	5,694
East South Central.....	7,275	6,962	1,493,164	402,845	1,904,465	1,305,852	598,613	1,418	79	3,787
West South Central.....	10,921	9,804	1,433,408	583,217	1,689,754	1,050,992	638,762	1,367	85	1,961
Mountain.....	4,011	3,863	1,530,580	226,342	739,522	528,376	270,986	608	119	1,065
Pacific.....	17,817	17,121	1,121,620	513,240	3,053,848	2,208,088	845,790	1,534	109	3,263
Food and kindred products.....	51,448	50,972	1,985,395	790,413	4,632,156	3,656,029	996,127	1,470	80	4,998
Tobacco manufactures.....	6,765	6,751	49,665	31,512	80,061	60,846	29,815	58	4	66
Textile-mill products and other fiber manufactures.....	6,444	6,230	1,441,513	899,364	3,184,229	2,228,977	955,252	1,774	172	5,202
Apparel and other finished products made from fabrics and similar materials.....	20,206	18,779	24,194	14,080	231,806	220,271	11,535	12	1	342
Lumber and timber basic products.....	11,520	9,842	1,687,694	531,985	1,709,125	916,470	792,655	896	185	526
Furniture and finished lumber products.....	8,457	8,394	406,800	181,084	940,288	634,436	305,852	192	5	5
Paper and allied products.....	3,276	3,237	2,792,800	1,546,870	3,498,419	1,836,303	2,162,116	6,347	212	3,258
Printing, publishing, and allied industries.....	2,878	2,809	33,679	33,088	763,903	717,994	45,909	50	3	613
Chemicals and allied products.....	9,203	9,130	2,106,028	1,103,147	2,932,044	1,681,652	1,290,392	4,433	176	6,554
Products of petroleum and coal.....	989	977	1,389,421	409,210	1,770,365	1,016,891	751,474	1,646	115	1,909
Rubber products.....	399	379	238,170	167,248	983,332	701,757	281,575	508	5	1,082
Leather and leather products.....	3,503	3,448	150,166	88,972	418,122	309,866	108,266	136	21	287
Stone, clay and glass products.....	7,024	6,908	947,183	517,256	2,991,046	2,089,488	985,553	1,627	34	3,259
Iron and steel and their products, except machinery.....	5,994	5,911	5,344,511	1,877,701	12,348,399	7,277,940	5,070,459	5,949	1,364	7,651
Nonferrous metals and their products.....	5,600	5,558	671,692	412,596	1,563,990	1,212,772	341,218	1,312	4	7,941
Electrical machinery and their products.....	2,014	1,997	354,449	248,697	1,016,877	664,874	352,003	470	53	1,015
Machinery (except electrical).....	9,506	9,459	434,109	253,494	2,746,416	2,177,888	568,523	353	11	1,643
Automobiles and automobile equipment.....	1,133	1,069	853,672	502,339	2,281,363	1,393,294	838,069	1,175	128	1,419
Transportation equipment except automobiles.....	1,968	1,959	131,924	60,641	826,261	574,739	251,522	1,67	4	421
Miscellaneous industries.....	7,669	7,659	126,500	59,291	412,517	348,698	63,910	119	37	383

<sup>1</sup> Returns for "Logging camps and logging contractors (not operating mills)," numbering 967, were excluded from power tabulations.  
Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

POWER REQUIREMENTS

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No. 922.—INDUSTRIAL POWER REQUIREMENTS OF MANUFACTURING AND EXTRACTING INDUSTRIES: 1939 TO 1946

[Based on reports filed by more than 5,000 manufacturing, industrial, and other establishments consuming over 85 percent of the total energy used by such establishments. Use for 1946 was estimated. Data have been adjusted to census coverage based on 1939 Census of Manufactures and 1939 Census of Mineral Industries]

[In millions of kilowatt-hours]

INDUSTRY	1939	1940	1941	1942	1943	1944	1945	1946
<b>Total</b> .....	<b>79,044</b>	<b>92,390</b>	<b>113,932</b>	<b>133,899</b>	<b>158,525</b>	<b>158,751</b>	<b>143,162</b>	<b>133,632</b>
<b>Manufacturing industries, total</b> .....	<b>70,518</b>	<b>82,661</b>	<b>103,109</b>	<b>120,844</b>	<b>143,963</b>	<b>144,319</b>	<b>129,183</b>	<b>120,280</b>
Food and kindred products.....	6,386	6,532	7,315	7,905	8,561	8,724	8,988	9,603
Tobacco manufactures.....	115	125	140	145	160	164	177	176
Textile-mill products.....	6,800	7,394	9,119	9,794	9,377	8,816	8,436	8,895
Apparel and other finished products.....	357	420	514	554	605	539	661	658
Lumber and timber basic products.....	1,245	1,424	1,582	1,686	1,630	1,462	1,464	1,601
Furniture and finished lumber products.....	605	679	830	845	886	867	882	977
Paper and allied products.....	9,097	10,006	11,185	11,270	10,985	11,038	11,445	12,154
Printing and publishing.....	859	930	1,025	1,042	1,075	1,101	1,161	1,213
Chemicals and allied products.....	9,747	12,602	16,397	21,671	23,684	29,163	24,590	21,565
Products of petroleum and coal.....	3,438	3,844	4,358	4,621	5,229	6,243	6,539	6,385
Rubber products.....	1,684	1,652	2,073	1,754	2,137	2,494	2,633	3,015
Leather and leather products.....	402	416	523	559	556	556	579	587
Stone, clay, and glass products.....	4,851	5,301	6,547	6,988	6,070	5,100	5,400	6,627
Iron and steel and their products.....	12,246	14,810	18,703	20,316	22,364	23,290	21,702	19,406
Nonferrous metals and their products.....	5,954	7,805	10,663	15,375	23,495	20,755	14,912	11,811
Electrical machinery.....	1,432	1,817	2,522	2,999	3,542	3,658	3,385	2,955
Machinery, except electrical.....	1,985	2,549	3,634	4,816	5,811	6,861	5,136	4,706
Automobiles and automobile equipment.....	2,467	3,042	3,668	3,454	4,572	4,662	3,774	4,245
Transportation equipment.....	482	796	1,648	4,277	7,291	8,909	6,418	2,782
Miscellaneous industries.....	466	516	663	793	933	917	852	830
<b>Government manufacturing industries, total</b> .....	<b>441</b>	<b>614</b>	<b>929</b>	<b>1,918</b>	<b>2,886</b>	<b>3,082</b>	<b>2,673</b>	<b>1,701</b>
Shipbuilding and ship repairing.....	180	250	414	735	986	1,155	1,108	957
Arsenal and ordnance products.....	90	133	319	809	1,109	1,100	826	267
Miscellaneous government products.....	171	231	196	374	791	827	739	477
<b>Extracting industries, total</b> .....	<b>8,085</b>	<b>9,115</b>	<b>9,894</b>	<b>11,137</b>	<b>11,676</b>	<b>11,350</b>	<b>11,306</b>	<b>11,701</b>
Metal mining.....	2,895	3,340	3,697	4,164	4,227	3,819	3,424	3,503
Coal mining.....	3,525	3,938	4,181	4,856	5,168	5,238	5,382	5,546
Nonmetallic mining and quarrying.....	828	939	1,131	1,230	1,346	1,348	1,501	1,646
Crude petroleum and natural gas production.....	837	808	885	887	935	945	998	1,006

Source: Federal Power Commission; annual report, Industrial Electric Power in the United States, 1939-1946.

NO. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939

[Figures do not represent exactly numbers of wage earners, values of products, etc., assignable to classes of commodities from which industries derive their names, as it is necessary for census purposes to classify each establishment as a whole in some one industry, according to its product of chief value, although in many cases a single establishment manufactures two or more classes of commodities. See also general note, p. 811].

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>All industries, total</b> .....	1939	184,230	7,886,567	9,089,941	32,160,107	56,843,025	24,682,918
	1937	166,794	8,569,231	10,112,833	35,539,333	60,712,872	25,173,539
	1935	167,016	7,203,794	7,311,329	26,441,145	44,993,699	18,552,563
	1929	206,663	8,369,705	10,884,919	37,402,606	67,994,041	30,591,435
<b>Food and kindred products, total</b> .....	1939	51,448	823,693	913,985	7,062,039	10,618,026	3,555,987
	1937	48,763	890,503	981,409	7,924,135	11,294,890	3,370,755
	1935	48,982	800,108	804,159	6,738,854	9,543,015	2,804,162
	1929	55,325	740,937	895,713	8,318,856	11,658,705	3,339,848
<b>Meat products, total</b> .....	1939	3,387	147,263	185,213	2,510,514	3,002,639	492,125
Meat packing, wholesale.....	1939	1,478	119,853	161,524	2,226,539	2,648,326	421,787
Custom slaughtering, wholesale.....	1939	40	640	689	478	1,933	1,455
Sausages, prepared meats, and other meat products—not made in meat-packing establishments.....	1939	1,067	11,277	13,473	165,045	208,048	43,003
Sausage casings—not made in meat-packing establishments.....	1939	37	987	882	3,709	6,015	2,305
Poultry dressing and packing, wholesale.....	1939	765	14,506	8,645	114,743	138,318	23,575
<b>Dairy products, total</b> .....	1939	9,535	50,756	54,539	870,023	1,153,560	283,537
Creamery butter.....	1939	3,506	17,953	18,379	418,752	492,221	73,470
Cheese.....	1939	2,682	5,009	5,156	91,440	108,207	16,767
Condensed and evaporated milk.....	1939	562	9,705	11,234	163,523	209,756	46,233
Ice cream and ices.....	1939	2,734	15,711	17,344	145,924	288,907	139,883
Special dairy products.....	1939	51	2,378	2,427	50,384	57,569	7,185
<b>Canned and preserved foods, total</b> .....	1939	3,053	134,471	88,741	520,630	838,126	317,496
Canned fish, crustacea, and mollusks.....	1939	214	15,735	7,228	40,022	65,456	25,434
Cured fish.....	1939	114	1,893	1,670	10,972	15,615	4,643
Canned and dried fruits and vegetables (including canned soups).....	1939	2,007	98,022	65,235	356,281	587,343	231,063
Preserves, jams, jellies, and fruit butters.....	1939	171	3,717	3,126	26,682	38,026	11,344
Pickled fruits and vegetables and vegetable sauces and seasonings.....	1939	377	9,908	7,393	42,619	72,637	30,019
Salad dressings.....	1939	134	2,556	2,434	37,873	48,942	11,069
Quick-frozen foods.....	1939	36	2,640	1,656	6,183	10,107	3,925
<b>Grain-mill products, total</b> .....	1939	3,746	50,682	56,606	914,504	1,240,464	325,959
Flour and other grain-mill products.....	1939	2,143	24,771	28,370	506,062	649,943	143,882
Prepared feeds (including mineral) for animals and fowls.....	1939	1,383	15,401	16,253	302,640	401,880	99,240
Cereal preparations.....	1939	70	7,458	9,857	58,034	128,383	70,349
Rice cleaning and polishing.....	1939	72	2,346	1,533	33,803	42,368	8,561
Blended and prepared flour made from purchased flour.....	1939	78	706	593	13,966	17,894	3,923
<b>Bakery products, total</b> .....	1939	18,399	230,706	290,551	649,477	1,411,817	762,340
Bread and other bakery products (except biscuit, crackers, and pretzels).....	1939	18,043	201,533	262,002	567,427	1,211,024	643,597
Biscuit, crackers, and pretzels.....	1939	356	29,173	23,550	82,049	200,793	118,743

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>2</sup> Excludes cost of contract work.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>Food, etc.—Continued</b>							
Sugar, total.....	1939	190	28,760	31,131	441,845	557,793	115,947
Cane sugar—except refineries.....	1939	78	4,217	2,573	23,017	33,527	10,510
Cane-sugar refining.....	1939	27	14,133	16,197	333,877	389,870	55,993
Beet sugar.....	1939	85	10,410	12,361	84,951	134,396	49,445
<b>Confectionery and related products, total.....</b>	<b>1939</b>	<b>1,318</b>	<b>58,831</b>	<b>52,082</b>	<b>251,825</b>	<b>457,563</b>	<b>205,738</b>
Candy and other confectionery products.....	1939	1,252	49,740	41,085	170,736	297,762	127,026
Chocolate and cocoa products.....	1939	39	6,464	7,711	63,460	99,018	35,559
Chewing gum.....	1939	27	2,627	3,286	17,630	60,783	43,153
<b>Beverages, total.....</b>	<b>1939</b>	<b>5,745</b>	<b>67,777</b>	<b>95,293</b>	<b>432,143</b>	<b>1,038,340</b>	<b>656,198</b>
Nonalcoholic beverages.....	1939	4,504	21,265	20,945	153,935	365,779	211,844
Malt liquors.....	1939	605	36,088	62,231	162,897	526,077	363,180
Malt.....	1939	52	1,459	2,593	30,296	58,479	19,183
Wines.....	1939	301	2,056	2,023	19,387	32,732	13,395
Liquors, distilled.....	1939	135	4,091	4,385	28,384	56,080	27,696
Liquors, rectified or blended.....	1939	148	2,818	3,216	28,245	49,144	20,899
<b>Miscellaneous food preparations and kindred products, total.....</b>	<b>1939</b>	<b>6,075</b>	<b>54,447</b>	<b>59,828</b>	<b>471,077</b>	<b>867,724</b>	<b>396,647</b>
Baking powder, yeast, and other leavening compounds.....	1939	47	2,334	3,654	14,462	31,775	17,312
Cooking and other edible fats and oils, not elsewhere classified.....	1939	56	4,672	5,397	154,358	186,252	31,895
Oleomargarine—not made in meat-packing establishments.....	1939	18	984	1,295	21,734	34,102	12,367
Corn sirup, corn sugar, corn oil, and starch.....	1939	35	6,764	10,586	66,916	119,408	52,493
Flavoring extracts and flavoring sirups, not elsewhere classified.....	1939	477	3,589	3,764	50,168	139,902	89,734
Vinegar and cider.....	1939	132	1,059	877	4,266	7,506	3,240
Ice, manufactured.....	1939	3,975	15,912	17,692	26,010	130,166	104,156
Macaroni, spaghetti, vermicelli, and noodles.....	1939	328	6,013	5,383	26,029	46,153	19,224
Food preparations, not elsewhere classified.....	1939	1,007	13,120	11,181	106,234	172,459	66,225
<b>Tobacco manufactures, total.....</b>	<b>1939</b>	<b>765</b>	<b>87,525</b>	<b>68,500</b>	<b>972,697</b>	<b>1,322,159</b>	<b>350,152</b>
	1937	852	92,158	70,291	947,628	1,272,638	325,059
	1935	890	90,543	59,448	809,025	1,093,400	284,375
	1929	1,788	110,119	94,579	2,420,272	1,246,242	(?)
Cigarettes.....	1939	35	27,426	26,068	811,068	1,037,748	226,679
Cigars.....	1939	598	50,897	34,240	79,249	160,754	81,505
Tobacco (chewing and smoking) and snuff.....	1939	132	9,202	8,193	81,719	123,687	41,968
<b>Textile-mill products and other fiber manufactures, total<sup>4</sup>.....</b>	<b>1939</b>	<b>6,444</b>	<b>1,082,602</b>	<b>908,379</b>	<b>2,108,926</b>	<b>3,930,678</b>	<b>1,821,752</b>
	1937	6,096	1,138,219	974,256	2,314,047	4,100,938	1,786,311
<b>Cotton manufactures, total.....</b>	<b>1939</b>	<b>1,248</b>	<b>409,317</b>	<b>292,536</b>	<b>595,394</b>	<b>1,168,171</b>	<b>572,777</b>
Cotton broad woven goods.....	1939	661	312,249	225,175	431,023	869,354	438,831
Cotton narrow fabrics.....	1939	163	13,318	11,776	22,934	48,501	25,566
Cotton yarn.....	1939	349	70,452	45,056	114,741	198,940	84,199
Cotton thread.....	1939	75	13,298	10,529	26,695	51,376	24,681

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>2</sup> Excludes cost of contract work.

<sup>3</sup> No comparable figure available as the internal-revenue tax is included in value of products but not in cost of materials, etc.

<sup>4</sup> No comparable figures available for 1929 and 1935.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>Textiles, etc.—Continued</b>							
Rayon and silk manufactures, total.....	1939	829	119,821	93,343	270,331	441,900	171,569
Rayon broad woven goods—regular factories or jobbers engaging contractors.....	1939	196	65,432	53,435	177,443	272,714	95,271
Rayon broad woven goods—contract factories.....	1939	79	4,313	3,120	627	5,307	4,680
Rayon narrow fabrics.....	1939	120	5,999	4,755	9,014	20,516	11,503
Rayon yarn and thread, spun or thrown—regular factories or jobbers engaging contractors.....	1939	52	5,930	3,997	18,627	26,471	7,844
Rayon throwing and spinning—contract factories.....	1939	32	2,423	1,480	592	3,066	2,474
Silk broad woven goods—regular factories or jobbers engaging contractors.....	1939	82	8,754	7,606	21,639	35,732	14,094
Silk broad woven goods—contract factories.....	1939	37	1,096	725	132	1,102	970
Silk narrow fabrics.....	1939	100	4,309	3,852	4,823	13,133	8,310
Silk yarn and thread spun or thrown—regular factories or jobbers engaging contractors.....	1939	53	9,191	6,736	34,027	48,005	13,978
Silk throwing and spinning—contract factories.....	1939	78	12,374	7,638	3,408	15,853	12,446
Woolen and worsted manufactures, total.....	1939	722	149,915	143,494	451,400	735,905	284,505
Woolen and worsted manufactures—regular factories or jobbers engaging contractors.....	1939	583	140,022	133,483	422,349	685,312	262,962
Woolen and worsted manufactures—contract factories.....	1939	76	6,072	6,061	2,097	13,167	11,059
Dyeing and finishing woolen and worsted.....	1939	63	3,821	3,945	26,953	37,437	10,484
Knit goods, total.....	1939	2,089	236,628	202,763	357,396	714,429	357,032
Hosiery—full-fashioned.....	1939	499	97,200	100,775	121,123	277,170	156,047
Hosiery—seamless.....	1939	433	61,852	41,862	66,575	138,665	72,090
Knitted cloth.....	1939	229	10,917	10,166	44,206	68,663	24,457
Knitted outerwear (except knit gloves)—regular factories or jobbers engaging contractors.....	1939	476	18,440	15,518	58,111	97,641	39,530
Knitted outerwear (except knit gloves)—contract factories.....	1939	233	4,109	3,198	769	6,550	5,780
Knitted underwear.....	1939	199	38,536	27,405	61,614	113,353	51,739
Knitted gloves.....	1939	20	5,574	3,839	4,998	12,386	7,387
Dyeing and finishing textiles, except woolen and worsted, total.....	1939	580	63,048	65,596	150,310	294,850	144,539
Dyeing and finishing cotton, rayon, silk, and linen textiles.....	1939	468	60,237	61,745	140,472	271,167	130,695
Cloth sponging and miscellaneous special finishing.....	1939	112	2,811	3,852	9,838	23,682	13,844
Carpets, rugs, and other floor coverings, total.....	1939	162	38,892	46,165	105,672	239,953	134,282
Carpets and rugs, wool.....	1939	43	25,590	30,144	61,066	140,338	79,272
Carpet yarn, woolen and worsted.....	1939	18	3,137	3,500	11,869	19,983	8,113
Carpets, rugs, and mats made from such materials as paper fiber, grass, jute, flax, sisal, cotton, cocoa fiber, and rags.....	1939	84	3,137	2,116	4,368	9,758	5,391
Linoleum, asphalted-felt-base and other hard-surface floor coverings, not elsewhere classified.....	1939	17	7,028	10,406	28,369	69,875	41,506

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Textiles, etc.—Continued</b>							
<b>Hats, except cloth and millinery, total</b> .....	1939	254	23, 639	24, 272	53, 094	101, 256	48, 163
Hat bodies and hats, fur-felt.....	1939	43	9, 928	11, 837	16, 988	39, 501	22, 513
Hat bodies and hats, wool-felt.....	1939	12	4, 421	4, 210	8, 174	16, 010	7, 836
Hats, straw.....	1939	11	488	438	727	1, 549	822
Hatters' fur.....	1939	37	1, 893	1, 579	7, 256	10, 956	3, 701
Finishing of men's and boys' hats of fur-felt, wool-felt, and straw	1939	151	6, 909	6, 207	19, 949	33, 240	13, 291
Finishing of men's and boys' hats of fur-felt.....	1939	115	4, 587	4, 267	15, 199	24, 078	8, 878
Finishing of men's and boys' hats of wool-felt.....	1939	10	151	147	656	981	325
Finishing of men's and boys' hats of straw.....	1939	26	2, 171	1, 793	4, 094	8, 181	4, 087
<b>Miscellaneous textile goods, total</b> .....	1939	560	41, 342	40, 209	125, 329	234, 213	108, 885
Felt goods, wool, hair, and jute (except woven felts and hat bodies and hats).....	1939	37	3, 346	3, 857	13, 048	23, 574	10, 526
Lace goods.....	1939	63	7, 254	8, 107	8, 785	24, 138	15, 353
Batting, padding, and wadding; upholstery filling.....	1939	124	4, 504	4, 120	16, 921	30, 213	13, 292
Processed waste and recovered wool fibers—regular factories or jobbers engaging contractors.....	1939	126	4, 225	3, 370	22, 234	31, 525	9, 291
Processed waste and recovered wool fibers—contract factories.....	1939	27	619	564	245	1, 449	1, 204
Artificial leather and olecloth.....	1939	36	3, 976	5, 391	25, 250	43, 434	18, 184
Linen goods.....	1939	9	1, 735	1, 496	3, 351	6, 298	2, 947
Jute goods (except felt).....	1939	22	5, 586	3, 118	7, 783	16, 897	9, 114
Cordage and twine.....	1939	116	12, 096	10, 185	27, 711	56, 686	28, 974
<b>Apparel and other finished products made from fabrics and similar materials, total</b> <sup>4</sup> .....	1939	20, 206	751, 377	654, 402	1, 943, 677	3, 325, 015	1, 381, 338
	1937	16, 277	692, 526	600, 108	1, 889, 062	3, 132, 760	1, 243, 699
<b>Men's and boys' tailored clothing, total</b> .....	1939	2, 449	137, 487	139, 728	334, 557	598, 273	263, 716
Men's and boys' suits, coats, and overcoats (except work clothing)—made in inside factories or by jobbers engaging contractors.....	1939	1, 371	89, 031	96, 044	329, 609	536, 613	207, 004
Men's and boys' suits, coats, and overcoats (except work clothing)—made in contract factories.....	1939	1, 078	48, 456	43, 684	4, 948	61, 660	56, 713
<b>Men's and boys' furnishings, work and sport garments, total</b> .....	1939	1, 770	166, 945	105, 578	287, 692	489, 939	202, 247
Men's and boys' shirts (except work shirts), collars, and night-wear—made in inside factories or by jobbers engaging contractors.....	1939	449	57, 082	37, 323	107, 492	181, 174	73, 682
Men's and boys' shirts (except work shirts), collars, and night-wear—made in contract factories.....	1939	141	13, 371	7, 619	1, 147	11, 192	10, 045

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>4</sup> No comparable figures available for 1929 and 1935.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND  
 FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Apparel, etc.—Continued</b>							
Men's and boys' underwear— made in inside factories or by jobbers engaging contractors.....	1939	44	5,332	3,032	10,096	15,598	5,502
Men's and boys' underwear— made in contract factories.....	1939	10	1,211	697	182	1,095	913
Trousers (semidress), wash suits, and washable service apparel.....	1939	297	19,541	12,841	34,813	60,985	26,172
Work shirts.....	1939	87	13,449	7,269	21,419	36,672	14,263
Work clothing (except work shirts), sport garments (except leather), and other men's and boys' apparel, not elsewhere classified.....	1939	742	56,959	36,797	112,544	184,223	71,679
<b>Men's neckwear, total.....</b>	1939	381	9,603	7,346	26,597	46,393	19,795
Men's neckwear—made in inside factories or by jobbers engaging contractors.....	1939	347	8,686	6,796	26,452	45,405	18,953
Men's neckwear—made in con- tract factories.....	1939	34	917	550	145	988	842
<b>Men's and boys' hats and caps, and hat and cap ma- terials, total.....</b>	1939	325	4,179	3,620	8,652	16,293	7,641
Men's and boys' hats and caps (except felt and straw).....	1939	270	3,383	2,877	5,711	11,605	5,894
Hat and cap materials; trimmings, etc.....	1939	55	796	743	2,940	4,687	1,747
<b>Women's and misses' outer clothing, total.....</b>	1939	6,257	207,642	204,130	597,554	1,015,757	418,203
Women's and misses' blouses and waists—made in inside factories or by jobbers engaging contrac- tors.....	1939	170	4,604	3,910	24,540	36,419	11,879
Women's and misses' blouses and waists—made in contract facto- ries.....	1939	132	5,109	3,483	337	5,311	4,974
Women's and misses' dresses (ex- cept house dresses)—made in inside factories or by jobbers engaging contractors.....	1939	1,426	53,996	61,652	284,628	441,325	156,697
Women's and misses' dresses (ex- cept house dresses)—made in contract factories.....	1939	1,490	49,742	46,748	3,301	64,936	61,635
House dresses, uniforms, and aprons—made in inside facto- ries or by jobbers engaging contractors.....	1939	487	27,833	17,638	64,683	104,446	39,763
House dresses, uniforms, and aprons—made in contract facto- ries.....	1939	255	10,961	6,368	490	9,252	8,762
Coats, suits, and skirts (except fur coats)—made in inside factories or by jobbers engaging contractors.....	1939	1,120	24,048	33,561	194,095	281,146	87,051
Coats, suits, and skirts (except fur coats)—made in contract facto- ries.....	1939	846	21,405	22,856	2,544	32,851	30,307
Women's and misses' clothing not elsewhere classified—made in inside factories or by jobbers engaging contractors.....	1939	231	6,281	5,387	22,652	35,759	13,108
Women's and misses' clothing not elsewhere classified—made in contract factories.....	1939	100	3,703	2,528	284	4,311	4,027

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Apparel, etc.—Continued</b>							
Women's accessories except millinery, total.....	1939	1,064	58,952	43,597	143,125	248,786	105,662
Women's, children's, and infants' underwear and nightwear of knitted fabrics.....	1939	139	6,398	4,373	14,855	24,608	9,754
Women's, children's, and infants' underwear and nightwear of cotton and flannelette woven fabrics.....	1939	174	11,349	7,462	21,944	37,184	15,240
Women's, children's, and infants' underwear and nightwear of silk and rayon woven fabrics.....	1939	372	20,509	14,349	59,021	90,628	31,606
Corsets and allied garments.....	1939	272	18,765	15,734	40,105	84,418	44,313
Women's neckwear, scarfs, etc....	1939	107	1,931	1,678	7,200	11,948	4,748
Millinery.....	1939	1,050	24,298	26,060	48,236	105,601	57,365
Children's and infants' outerwear, total.....	1939	574	23,804	19,176	52,862	96,484	43,622
Children's dresses—made in inside factories or by jobbers engaging contractors.....	1939	182	10,646	8,064	24,835	46,742	21,907
Children's dresses—made in contract factories.....	1939	114	4,487	2,599	211	3,842	3,630
Children's coats—made in inside factories or by jobbers engaging contractors.....	1939	108	2,130	3,008	17,162	24,971	7,809
Children's coats—made in contract factories.....	1939	45	1,181	1,325	204	1,947	1,743
Children's and infants' wear not elsewhere classified—made in inside factories or by jobbers engaging contractors.....	1939	103	4,365	3,503	10,378	17,942	7,564
Children's and infants' wear not elsewhere classified—made in contract factories.....	1939	22	995	678	73	1,041	968
Fur coats and other fur garments, accessories, and trimmings.....	1939	2,175	13,111	23,403	107,752	168,032	60,280
Miscellaneous apparel, total.....	1939	971	38,288	29,456	94,917	159,598	64,681
Belts (apparel) regardless of material.....	1939	245	4,222	4,067	9,900	19,076	9,176
Work gloves and mittens: Cloth, cloth and leather combined.....	1939	94	8,901	5,663	11,928	22,457	10,530
Dress and semidress gloves and mittens: Cloth and cloth and leather combined.....	1939	49	3,396	2,298	3,638	7,703	4,065
Handkerchiefs—made in inside factories or by jobbers engaging contractors.....	1939	60	3,734	2,627	13,835	20,419	6,585
Handkerchiefs—made in contract factories.....	1939	20	1,105	693	165	1,182	1,017
Suspenders, garters, and other goods made from purchased elastic material.....	1939	66	2,558	1,956	8,918	15,483	6,565
Robes, lounging garments, and dressing gowns.....	1939	264	7,377	5,701	25,684	39,830	14,146
Raincoats and other waterproof garments (except oiled cotton).....	1939	76	2,323	1,874	7,083	11,304	4,221
Clothing, leather and sheep-lined.....	1939	97	4,672	4,578	13,766	22,142	8,376

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

NO. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Apparel, etc.—Continued</b>							
<b>Embroideries and trim- mings, total</b> .....	1939	1,431	17,828	15,567	26,152	62,677	36,525
Embroideries: Schiffli-machine products.....	1939	398	3,750	3,248	6,129	14,122	7,993
Embroideries, other than Schiffli- machine products—made in regular factories or by jobbers engaging contractors.....	1939	54	608	505	671	1,686	1,015
Embroideries, other than Schiffli- machine products—contract fac- tories.....	1939	357	4,189	3,324	1,622	8,220	6,598
Trimmings (not made in textile mills), stamped art goods, and art needlework—made in regu- lar factories or by jobbers en- gaging contractors.....	1939	227	3,728	3,153	15,944	26,139	10,196
Trimmings (not made in textile mills), stamped art goods, and art needlework—contract fac- tories.....	1939	395	5,553	5,339	1,786	12,510	10,723
<b>Miscellaneous fabricated textile products, total</b> .....	1939	1,759	49,242	36,741	215,581	317,184	101,602
Curtains, draperies, and bed- spreads—made in regular fac- tories or by jobbers engaging contractors.....	1939	362	15,798	9,472	47,475	70,233	22,758
Curtains, draperies, and bed- spreads—contract factories.....	1939	75	1,109	798	260	1,679	1,419
Housefurnishings (except cur- tains, draperies, and bed- spreads).....	1939	472	10,623	8,059	43,973	67,521	23,548
Textile bags—not made in textile mills.....	1939	216	11,991	10,003	93,807	121,702	27,895
Canvas products (except bags).....	1939	334	3,869	3,621	13,030	24,408	11,378
Miscellaneous fabricated textile products not elsewhere classified.....	1939	300	5,852	4,789	17,037	31,640	14,604
<b>Lumber and timber basic prod- ucts, total</b> .....	1939	11,520	360,613	310,381	504,243	1,122,058	617,815
	1937	10,420	387,514	339,787	512,475	1,146,285	633,810
	<sup>1</sup> 1935	8,734	303,527	225,253	331,548	747,886	416,338
	<sup>2</sup> 1929	17,764	509,218	538,008	<sup>3</sup> 715,612	1,827,056	1,114,444
<b>Logging camps and logging contractors (not operating sawmills)</b> .....	1939	967	22,785	22,703	28,165	69,621	14,456
<b>Sawmills, veneer mills, and cooperage - stock mills, including those combined with logging camps and with planing mills</b> .....	1939	7,391	265,185	214,920	280,019	692,945	412,925
<b>Planing and plywood mills, total</b> .....	1939	3,162	72,643	72,758	196,059	359,492	163,433
Planing mills not operated in con- junction with sawmills.....	1939	3,076	62,838	62,815	177,735	320,614	142,870
Plywood mills.....	1939	86	9,805	9,943	18,325	38,879	20,564

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>2</sup> Excludes cost of contract work.

<sup>3</sup> Not comparable with figures for 1937 and 1939 because the manufacture of venetian blinds was included.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>Furniture and finished lumber products, total</b> -----	1939	8,457	293,570	274,738	640,956	1,267,724	626,768
	1937	7,559	310,449	299,212	681,387	1,317,650	636,263
	<sup>b</sup> 1935	7,471	253,577	211,621	493,331	946,793	453,462
	<sup>c</sup> 1929	9,125	334,171	304,910	<sup>2</sup> 899,832	1,792,147	892,315
<b>Household furniture, total</b> ...	1939	3,392	143,051	133,579	232,111	570,468	288,357
Mattresses and bed springs-----	1939	947	18,342	19,498	60,942	113,115	52,173
Upholstered household furniture-----	1939	853	29,949	30,082	65,977	128,724	62,746
Household furniture except upholstered-----	1929	1,592	94,760	83,999	155,192	328,630	173,437
<b>Office furniture</b> -----	1939	152	11,776	13,674	22,570	54,750	32,180
<b>Public building and professional furniture, total</b> ...	1939	188	8,882	9,919	17,751	41,334	23,583
Public building furniture-----	1939	106	5,900	6,568	11,438	26,679	15,241
Laboratory, hospital, and other professional furniture-----	1939	82	2,982	3,351	6,314	14,655	8,342
<b>Partitions, shelving, cabinet work, and office and store fixtures</b> -----	1939	716	13,826	17,735	30,507	70,718	40,212
<b>Wooden containers, total</b> ...	1939	1,251	45,070	33,132	79,980	150,150	70,170
Baskets for fruits and vegetables-----	1939	153	8,048	4,470	5,749	14,286	8,538
Rattan and willowware (except furniture) and baskets other than vegetable and fruit baskets-----	1939	47	1,377	926	1,674	3,913	2,244
Cigar boxes: wooden, part wooden-----	1939	59	3,101	2,017	2,483	6,331	3,848
Wooden boxes except cigar boxes-----	1939	642	25,351	19,159	45,757	87,354	41,597
Cooperage-----	1939	350	7,193	6,560	24,318	38,261	13,943
<b>Window and door screens, shades, and venetian blinds, total</b> -----	1939	709	11,270	11,203	36,918	68,260	31,342
Window and door screens and weather strip-----	1939	182	2,830	2,984	7,842	15,224	7,381
Window shades-----	1939	273	3,261	3,411	15,410	27,071	11,661
Venetian blinds-----	1939	274	5,179	4,808	13,665	25,965	12,300
<b>Caskets, coffins, burial cases, and other morticians' goods</b> -----	1939	599	12,447	13,392	31,862	70,353	38,491
<b>Miscellaneous wood products, total</b> -----	1939	1,450	47,248	42,104	139,257	241,691	102,433
Excelsior-----	1939	53	925	700	1,382	2,987	1,606
Cork products-----	1939	35	2,923	3,302	8,412	17,724	9,311
Matches-----	1939	28	5,426	5,598	14,098	25,677	11,479
Wood preserving-----	1939	218	11,242	9,764	77,477	106,295	28,818
Lasts and related products-----	1939	48	1,519	1,995	2,026	6,672	4,646
Mirror frames and picture frames-----	1939	182	3,220	3,065	5,570	13,250	7,679
Wood products not elsewhere classified-----	1939	886	21,993	17,680	30,291	69,186	38,895
<b>Paper and allied products, total</b> <sup>4</sup>	1939	3,279	264,716	309,857	1,149,666	2,019,568	869,902
	1937	3,084	266,944	310,137	1,213,559	2,076,425	862,866
<b>Pulp mills and paper and paperboard mills, total</b> -----	1939	832	137,445	175,688	676,997	1,159,867	482,870
Pulp mills-----	1939	194	26,870	33,088	144,737	226,852	82,115

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>2</sup> Excludes cost of contract work.

<sup>3</sup> No comparable figures available for 1929 and 1935.

<sup>4</sup> Not comparable with figures for 1937 and 1939 because the manufacture of venetian blinds was excluded.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND  
FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Paper, etc.—Continued</b>							
Paper and paperboard mills.....	1939	638	110,575	142,600	532,261	933,016	400,755
<b>Converted paper products,     total.....</b>	<b>1939</b>	<b>2,433</b>	<b>126,570</b>	<b>133,350</b>	<b>471,146</b>	<b>855,874</b>	<b>384,728</b>
Coated and glazed paper.....	1939	140	7,450	9,384	53,628	84,337	30,759
Envelopes.....	1939	169	8,689	9,597	24,623	50,118	25,495
Paper bags, except those made in paper mills.....	1939	119	11,081	10,629	53,964	85,776	31,812
Fiber cans, tubes, and similar products.....	1939	116	6,637	6,963	13,952	33,345	19,393
Paperboard containers and boxes not elsewhere classified.....	1939	1,393	62,530	63,806	213,839	382,710	168,871
Die-cut paper and paperboard, and converted cardboard.....	1939	121	4,354	5,454	16,069	33,264	17,194
Wallpaper.....	1939	46	4,054	5,333	11,696	24,969	13,273
Converted paper products not elsewhere classified.....	1939	384	21,775	22,185	83,375	161,306	77,930
<b>Pulp goods (pressed, mold-     ed).....</b>	<b>1939</b>	<b>14</b>	<b>701</b>	<b>819</b>	<b>1,523</b>	<b>3,826</b>	<b>2,304</b>
<b>Printing, publishing, and allied     industries, total.....</b>	<b>1939</b>	<b>24,878</b>	<b>324,535</b>	<b>493,616</b>	<b>812,008</b>	<b>2,578,464</b>	<b>1,766,457</b>
	1937	22,674	350,952	530,214	790,227	2,576,818	1,786,591
	1935	22,505	302,643	443,923	610,694	2,157,334	1,546,640
	1929	27,211	353,964	630,506	929,172	3,144,894	2,215,722
<b>Newspapers, total.....</b>	<b>1939</b>	<b>7,309</b>	<b>97,251</b>	<b>164,718</b>	<b>232,492</b>	<b>910,139</b>	<b>677,697</b>
Newspapers: publishing without printing.....	1939	431	260	363	5,315	11,964	6,649
Newspapers: publishing and printing.....	1939	6,878	96,991	164,355	227,177	898,225	671,048
<b>Periodicals, total.....</b>	<b>1939</b>	<b>2,553</b>	<b>21,421</b>	<b>33,553</b>	<b>174,297</b>	<b>468,847</b>	<b>294,550</b>
Periodicals: publishing without printing.....	1939	1,953	436	550	116,664	266,832	150,167
Periodicals: publishing and printing.....	1939	600	20,985	33,003	57,633	202,015	144,382
<b>Books, total.....</b>	<b>1939</b>	<b>1,396</b>	<b>22,773</b>	<b>33,638</b>	<b>79,289</b>	<b>236,752</b>	<b>157,463</b>
Books: publishing without print- ing.....	1939	556	135	196	35,548	109,579	74,031
Books: publishing and printing.....	1939	150	6,091	8,405	11,729	39,517	27,789
Books: printing without pub- lishing.....	1939	690	16,547	25,038	32,012	87,656	55,644
<b>General commercial (job)     printing.....</b>	<b>1939</b>	<b>9,595</b>	<b>96,039</b>	<b>132,945</b>	<b>191,734</b>	<b>515,436</b>	<b>323,702</b>
<b>Lithographing and photo-     lithographing (including     preparation of stones or     plates and dry transfers).....</b>	<b>1939</b>	<b>749</b>	<b>26,000</b>	<b>37,929</b>	<b>57,686</b>	<b>154,395</b>	<b>96,708</b>
<b>Greeting cards (except     hand-painted).....</b>	<b>1939</b>	<b>109</b>	<b>7,522</b>	<b>7,264</b>	<b>15,490</b>	<b>39,715</b>	<b>24,225</b>
<b>Gravure, rotogravure, and     rotary photogravure (in-     cluding preparation of     plates).....</b>	<b>1939</b>	<b>24</b>	<b>2,623</b>	<b>5,436</b>	<b>7,243</b>	<b>18,615</b>	<b>11,372</b>
<b>Bookbinding and related     industries.....</b>	<b>1939</b>	<b>1,133</b>	<b>25,690</b>	<b>29,063</b>	<b>30,429</b>	<b>102,591</b>	<b>72,163</b>

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Printing, etc.—Continued</b>							
Service industries for the printing trades, total.....	1939	2,005	25,216	49,069	23,347	131,925	108,577
Machine and hand typesetting (including advertisement setting).....	1939	641	6,244	10,425	3,052	25,096	22,044
Engraving (steel, copperplate, and wood); plate printing.....	1939	436	5,353	7,156	6,029	22,164	16,134
Photoengraving not done in printing establishments (including preparation of plates).....	1939	694	9,207	22,568	7,362	55,619	48,258
Electrotyping and stereotyping, not done in printing establishments.....	1939	234	4,412	8,920	6,904	29,045	22,141
<b>Chemicals and allied products, total<sup>2</sup>.....</b>	1939	9,203	287,136	356,176	1,854,140	3,733,658	1,879,517
	1937	8,618	313,539	377,487	1,942,250	3,718,406	1,770,156
<b>Paints, varnishes, and colors, total.....</b>	1939	1,255	28,173	39,816	288,959	518,847	229,887
Paints, varnishes, and lacquers....	1939	1,166	22,334	31,702	245,571	434,061	189,390
Colors and pigments.....	1939	89	5,839	8,114	43,388	83,886	40,497
<b>Animal and vegetable oils (not including lubricants or cooking and salad oils), total.....</b>	1939	663	21,678	16,924	269,801	337,328	67,526
Cottonseed oil, cake, meal, and linters.....	1939	447	15,191	8,939	138,764	171,476	32,712
Linseed oil, cake, and meal.....	1939	25	2,120	3,193	56,456	68,012	11,556
Soybean oil, cake, and meal.....	1939	47	1,481	1,889	34,435	43,947	9,512
Essential oils.....	1939	14	255	357	6,861	9,814	2,953
Fish and other marine oils, cake, and meal.....	1939	.76	1,523	1,308	8,907	13,622	4,715
Vegetable and animal oils, not elsewhere classified.....	1939	54	1,108	1,287	24,378	30,457	6,079
<b>Drugs, medicines, toilet preparations, insecticides, and related products, total.....</b>	1939	2,407	37,766	38,935	218,158	605,895	387,737
Drugs and medicines (including drug grinding).....	1939	1,094	22,386	23,898	115,273	364,985	249,713
Perfumes, cosmetics, and other toilet preparations.....	1939	539	10,363	9,644	58,510	147,466	88,956
Insecticides, fungicides, and related industrial and household chemical compounds.....	1939	774	5,017	5,393	44,376	93,444	49,068
<b>Soap and glycerin.....</b>	1939	264	13,624	18,861	161,003	302,634	141,632
<b>Rayon and allied products....</b>	1939	30	48,332	60,030	78,460	247,066	168,606
<b>Hardwood distillation, charcoal, and naval stores, total.....</b>	1939	823	5,094	3,731	23,848	38,319	14,471
Hardwood distillation and charcoal manufacture.....	1939	43	1,770	1,531	3,928	6,843	2,915
Wood naval stores.....	1939	25	2,353	1,807	6,324	14,114	7,500
Gum naval stores (processing but not gathering or warehousing).....	1939	755	971	334	13,396	17,362	3,956

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>2</sup> No comparable figures available for 1929 and 1935.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND  
FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>Chemicals, etc.—Continued</b>							
Fertilizers.....	1939	764	18,744	13,678	128,630	185,684	57,055
Industrial chemicals, total.....	1939	1,340	88,801	134,380	514,682	1,169,061	654,379
Tanning materials, natural dyes, mordants, assistants, and sizes.....	1939	158	2,716	3,003	23,860	42,165	18,304
Coal-tar products, crude and intermediate.....	1939	49	2,338	3,598	25,557	42,917	17,360
Plastic materials.....	1939	38	6,066	9,840	40,594	77,653	37,030
Explosives.....	1939	80	7,242	10,964	26,860	71,053	44,193
Salt.....	1939	40	3,737	4,235	9,599	27,530	17,961
Compressed and liquefied gases—not made in petroleum refineries or in natural gasoline plants.....	1939	379	3,960	5,854	13,532	53,365	39,833
Bone black, carbon black, and lampblack.....	1939	53	1,574	2,001	6,103	14,627	8,523
Chemicals not elsewhere classified.....	1939	543	60,268	94,884	368,636	839,750	471,115
Miscellaneous chemical products, total.....	1939	1,657	24,924	29,882	170,600	328,824	158,225
Printing ink.....	1939	206	2,572	3,701	25,166	49,132	23,966
Ammunition.....	1939	13	4,264	4,953	13,004	29,091	16,087
Cleaning and polishing preparations, blackings, and dressings.....	1939	637	5,128	5,667	37,670	89,767	52,097
Glue and gelatin.....	1939	80	3,039	3,942	18,794	34,332	15,538
Grease and tallow (except lubricating greases).....	1939	310	5,201	6,509	38,115	58,226	20,111
Lubricating oils and greases—not made in petroleum refineries.....	1939	232	2,128	2,713	28,931	49,057	20,126
Fireworks.....	1939	59	1,158	987	1,853	4,828	2,775
Candles.....	1939	28	840	817	3,338	6,329	2,991
Bluing.....	1939	13	55	56	386	1,142	756
Mucilage, paste, and other adhesives, except glue and rubber cement.....	1939	64	285	290	2,141	4,169	2,028
Writing ink.....	1939	15	254	247	1,202	2,951	1,749
Products of petroleum and coal, total <sup>4</sup> .....	1939	989	105,428	173,702	2,278,486	2,953,973	675,488
	1937	739	113,606	186,093	2,418,665	3,038,203	619,538
Petroleum refining.....	1939	485	72,840	128,214	1,933,264	2,461,127	527,862
Coke and byproducts, total.....	1939	112	21,693	32,481	261,217	346,978	85,761
Beehive coke.....	1939	20	685	701	3,567	4,781	1,214
Oven coke and coke-oven byproducts.....	1939	83	21,008	31,780	257,651	342,197	84,547
Paving and roofing materials, total.....	1939	360	10,485	12,522	80,433	140,581	60,148
Paving blocks and paving mixtures: asphalt, creosoted wood, and composition.....	1939	281	2,437	2,681	19,027	32,754	13,728
Roofing, built-up and roll; asphalt shingles; roof coating (except paint).....	1939	129	8,048	9,841	61,046	107,827	46,421
Fuel briquets.....	1939	32	410	485	3,571	5,287	1,716

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>4</sup> No comparable figures available for 1929 and 1935.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Rubber products, total</b> .....	1939	595	120,740	161,410	496,174	902,329	406,155
	1937	478	129,818	171,305	514,260	883,033	368,772
	1935	466	114,681	133,715	368,811	677,659	308,848
	1929	525	149,148	207,306	<sup>2</sup> 578,678	1,117,460	538,783
<b>Tires and inner tubes</b> .....	1939	53	54,115	89,774	349,557	580,929	231,372
<b>Rubber boots and shoes</b> .....	1939	13	14,861	16,802	20,749	49,981	29,231
<b>Miscellaneous rubber in- dustries, total</b> .....	1939	529	51,764	54,835	125,868	271,419	145,551
Reclaimed rubber.....	1939	10	1,072	1,477	2,992	6,894	3,902
Rubber products not elsewhere classified.....	1939	519	50,692	53,358	122,875	264,525	141,650
<b>Leather and leather products, total</b> .....	1939	3,508	327,663	294,290	805,911	1,389,514	533,602
	<sup>1</sup> 1937	3,249	328,651	508,027	801,229	1,476,009	533,730
	<sup>1</sup> 1937	3,364	331,955	311,293	809,469	1,401,513	592,043
	1935	3,506	310,755	279,740	694,293	1,224,431	530,139
	1929	4,285	318,472	359,461	<sup>2</sup> 1,132,022	1,906,201	774,179
<b>Leather, tanned, curried, and finished, total</b> .....	1939	446	47,252	56,783	229,044	346,438	117,394
Leather: tanned, curried, and finished—regular factories or jobbers engaging contractors.....	1939	335	41,795	50,570	222,741	329,728	106,987
Leather: tanned, curried, and finished—contract factories.....	1939	111	5,457	6,213	6,303	16,710	10,407
<b>Leather products, total</b> .....	1939	3,062	280,411	237,507	576,868	1,043,076	466,208
Industrial leather belting and packing leather.....	1939	190	2,337	2,861	13,596	24,410	10,814
Boot and shoe cut stock and findings.....	1939	520	18,845	17,196	90,487	129,399	38,912
Footwear (except rubber).....	1939	1,070	218,028	183,658	388,439	734,673	346,234
Leather gloves and mittens.....	1939	233	9,995	7,409	13,763	26,831	13,068
Suitcases, briefcases, bags, trunks, and other luggage.....	1939	329	8,326	7,919	19,215	36,591	17,377
Women's pocketbooks, hand bags, and purses.....	1939	286	14,048	11,239	32,378	55,807	22,929
Small leather goods.....	1939	118	3,615	2,751	7,372	14,334	6,962
Saddlery, harness, and whips.....	1939	156	2,755	2,388	6,877	12,118	6,242
Leather goods not elsewhere clas- sified.....	1939	160	2,462	2,087	4,241	8,911	4,671
<b>Stone, clay, and glass products, total</b> .....	1939	7,024	287,522	329,560	528,792	1,440,151	911,359
	1937	6,196	306,211	355,451	538,160	1,428,411	890,251
	1935	5,846	237,979	230,881	365,476	970,738	605,292
	1929	8,677	334,894	441,564	<sup>2</sup> 546,942	1,604,470	1,057,528
<b>Flat glass</b> .....	1939	37	16,739	24,009	33,849	1,02,389	68,540
<b>Glassware, pressed or blown, total</b> .....	1939	192	53,083	64,296	86,927	255,589	168,662
Glass containers.....	1939	77	25,753	34,181	59,893	153,272	98,378
Tableware, pressed or blown glass and glassware not elsewhere classified.....	1939	115	27,330	30,115	27,033	97,317	70,284
<b>Mirrors and other glass products made of pur- chased glass</b> .....	1939	557	10,012	10,615	26,455	49,886	23,432

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>2</sup> Excludes cost of contract work.

<sup>3</sup> 1937 figures in *italics* are comparable with 1939 statistics and exclude data for 115 establishments which have been transferred to another group. No adjustment was made for other years. 1937 statistics in roman type are comparable with statistics for earlier years.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND  
 FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>Stone, clay, etc.—Continued</b>							
<b>Cement</b> .....	1939	160	23,801	31,588	68,530	192,611	124,082
<b>Structural clay products, total</b> .....	1939	1,206	56,745	54,831	47,630	165,750	118,119
Brick and hollow structural tile.....	1939	800	29,069	26,340	22,470	78,153	55,084
Terra cotta.....	1939	12	1,099	1,299	757	3,175	2,418
Roofing tile.....	1939	16	628	616	376	1,825	1,449
Floor and wall tile (except quarry tile).....	1939	49	5,681	5,931	5,142	17,659	12,517
Sewer pipe and kindred products.....	1939	65	6,406	6,818	4,628	18,296	13,868
Clay refractories, including refractory cement (clay).....	1939	165	12,211	12,324	13,214	42,191	28,978
Clay products (except pottery) not elsewhere classified.....	1939	99	1,651	1,494	1,043	4,450	3,407
<b>Pottery and related products, total</b> .....	1939	290	33,105	37,459	28,927	98,884	69,957
Vitreous china plumbing fixtures.....	1939	25	4,534	6,316	6,982	21,979	14,997
Hotel china.....	1939	17	4,350	4,639	1,707	9,360	7,653
Whiteware.....	1939	31	11,728	13,150	8,157	27,801	19,644
Porcelain electrical supplies.....	1939	42	6,018	6,530	7,144	20,817	13,673
China firing and decorating (for the trade).....	1939	24	421	426	1,110	2,334	1,215
Pottery products not elsewhere classified.....	1939	151	6,054	6,398	3,818	16,593	12,776
<b>Concrete, gypsum, and plaster products</b> .....	1939	2,559	39,869	42,613	114,424	257,598	143,174
Concrete products.....	1939	2,040	17,363	18,770	65,685	130,393	64,709
Gypsum products.....	1939	68	4,936	6,666	16,694	46,242	29,548
Mineral wool.....	1939	58	1,885	1,821	3,535	8,238	4,708
Wallboard and wall plaster (except gypsum), building insulation (except mineral wool), and floor composition.....	1939	124	6,227	6,288	14,804	35,754	20,949
Lime.....	1939	269	9,458	9,069	13,706	36,971	23,265
<b>Monuments, tombstones, cut-stone, and stone products not elsewhere classified</b> .....	1939	1,244	18,516	22,000	25,287	75,812	50,525
<b>Miscellaneous nonmetallic mineral products, total</b> .....	1939	779	35,654	42,148	96,764	241,633	144,868
Abrasive wheels, stones, paper, cloth, and related products.....	1939	124	7,734	10,683	26,506	71,271	44,765
Asbestos products (except steam packing and pipe and boiler covering).....	1939	79	9,979	11,579	23,928	60,774	36,846
Steam and other packing; pipe and boiler covering.....	1939	134	5,907	7,190	17,608	37,170	19,562
Natural graphite, ground and refined.....	1939	6	56	66	852	1,251	399
Minerals and earths, ground or otherwise treated.....	1939	237	5,858	5,750	14,660	38,903	24,244
Sand-lime brick, block and tile.....	1939	27	346	414	638	1,916	1,278
Nonclay refractories.....	1939	46	4,792	5,316	11,598	26,906	15,308
Statuary and art goods (except stone and concrete), factory production.....	1939	126	983	1,150	975	3,440	2,465
<b>Iron and steel and their products, except machinery, total</b> .....	1939	8,994	966,367	1,313,633	3,635,871	6,591,530	2,955,660
	1937	8,382	1,140,929	1,619,788	4,056,338	7,445,350	3,389,012

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.<sup>4</sup> No comparable figures available for 1929 and 1935.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>Iron and steel, etc.—Continued</b>							
Blast furnaces, steel works, and rolling mills, total.....	1939	334	388,441	598,037	2,036,191	3,270,822	1,234,631
Blast-furnace products.....	1939	81	19,537	28,312	463,719	550,802	87,083
Steel works and rolling mills.....	1939	253	368,904	569,724	1,572,472	2,720,020	1,147,548
<b>Iron and steel foundry products, total.....</b>							
	1939	1,482	123,045	151,738	170,169	463,716	293,547
Gray iron and semisteel castings.....	1939	1,161	58,428	70,758	78,972	209,720	130,748
Malleable iron castings.....	1939	83	18,041	21,555	17,951	53,451	35,500
Steel castings.....	1939	164	30,088	41,942	45,232	135,406	90,234
Cast iron pipe and fittings.....	1939	74	16,488	17,483	28,014	65,079	37,065
<b>Tin cans and other tinware not elsewhere classified.....</b>							
	1939	248	31,770	36,398	249,044	372,616	123,572
<b>Wire products.....</b>							
	1939	800	54,870	68,235	180,770	348,228	167,458
Wire drawn from purchased rods.....	1939	95	21,969	29,966	99,982	176,803	76,521
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	1939	36	2,515	2,730	5,836	12,908	7,072
Wirework not elsewhere classified.....	1939	669	30,386	35,539	74,952	158,317	83,865
<b>Cutlery, tools, and hardware, total.....</b>							
	1939	1,196	73,664	84,057	116,121	319,455	203,334
Cutlery (except aluminum, silver, and plated cutlery) and edge tools.....	1939	266	15,399	16,797	18,756	59,924	41,168
Tools (except edge tools, machine tools, files, and saws).....	1939	387	15,343	18,002	27,355	75,200	47,935
Files.....	1939	22	3,205	3,839	2,453	11,294	8,841
Saws.....	1939	87	4,072	5,198	6,734	18,471	11,686
Hardware not elsewhere classified.....	1939	434	35,645	40,221	60,772	154,476	93,704
<b>Heating apparatus and plumbers' supplies, total.....</b>							
	1939	1,673	119,919	149,088	294,670	686,126	391,456
Enameled iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semivitreous china sanitary ware).....	1939	259	24,605	30,769	52,630	125,578	72,948
Oil burners, domestic and industrial.....	1939	130	1,498	1,893	10,273	18,468	8,195
Power boilers and associated products.....	1939	448	18,888	25,298	70,655	140,960	70,305
Steam and hot-water heating-apparatus (including hot-water furnaces).....	1939	68	8,493	9,922	17,165	45,378	28,213
Stoves, ranges, water heaters, and hot-air furnaces (except electric).....	1939	449	41,701	48,069	97,475	223,427	125,952
Steam fittings, regardless of material.....	1939	181	21,815	29,630	37,667	111,986	74,318
Heating and cooking apparatus, except electric, not elsewhere classified.....	1939	138	2,919	3,508	8,805	20,330	11,525
<b>Metal stamping, enameling, galvanizing, japanning, and lacquering, total.....</b>							
	1939	963	55,551	64,352	136,284	283,599	147,315
Vitreous enameled products, including kitchen, household, and hospital utensils.....	1939	55	10,809	11,442	20,348	44,239	23,891
Automobile stampings.....	1939	90	8,597	11,970	21,827	47,833	26,006

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND  
 FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Iron and steel, etc.—Continued</b>							
Stamped and pressed metal prod- ucts (except automobile stamp- ings).....	1939	655	33, 112	37, 535	89, 141	178, 395	89, 254
Enameling, japanning, and lac- quering.....	1939	80	1, 821	2, 062	2, 456	6, 936	4, 480
Galvanizing and other coating— carried on in plants not oper- ated in connection with rolling mills.....	1939	83	1, 212	1, 343	2, 513	6, 196	3, 683
<b>Fabricated structural steel and ornamental metal- work, total.....</b>	1939	1, 343	43, 217	58, 081	191, 475	332, 889	141, 414
Fabricated structural steel and ornamental metalwork, made in plants not operated in con- nection with rolling mills.....	1939	1, 138	35, 477	47, 550	172, 437	284, 670	112, 232
Doors, window sash, frames, molding, and trim (made of metal).....	1939	205	7, 740	10, 531	19, 037	48, 219	29, 182
<b>Miscellaneous iron and steel products, total.....</b>	1939	955	75, 890	103, 648	261, 147	514, 080	252, 933
Bolts, nuts, washers, and rivets— made in plants not operated in connection with rolling mills.....	1939	155	14, 331	18, 333	38, 709	84, 118	45, 409
Forgings, iron and steel—made in plants not operated in con- nection with rolling mills.....	1939	207	15, 372	22, 652	51, 974	104, 883	52, 910
Wrought pipes, welded and heavy riveted—made in plants not operated in connection with rolling mills.....	1939	49	8, 370	12, 306	41, 856	76, 865	34, 008
Springs, steel (except wire)—made in plants not operated in con- nection with rolling mills.....	1939	53	2, 940	4, 277	12, 796	23, 044	10, 249
Screw-machine products and wood screws.....	1939	345	16, 924	22, 106	32, 649	82, 807	50, 158
Steel barrels, kegs, and drums.....	1939	64	6, 072	7, 360	32, 328	49, 166	16, 838
Firearms.....	1939	23	5, 001	6, 846	3, 053	17, 712	14, 659
Safes and vaults.....	1939	16	1, 236	1, 589	2, 413	6, 084	3, 671
Cold-rolled steel sheets and strip and cold-finished steel bars made in plants not operated in connection with hot-rolling mills.....	1939	43	5, 644	8, 178	45, 369	70, 401	25, 032
<b>Nonferrous metals and their products, total<sup>4</sup>.....</b>	1939 1937	5, 600 5, 173	228, 753 255, 767	299, 220 336, 349	1, 748, 592 1, 934, 185	2, 572, 854 2, 779, 961	824, 263 845, 776
<b>Primary smelting and re- fining of nonferrous metals.....</b>	1939	63	27, 630	38, 411	819, 570	956, 572	137, 002
<b>Alloying and rolling and drawing of nonferrous metals, except aluminum..</b>	1939	188	38, 816	56, 282	280, 890	445, 060	164, 170
<b>Secondary smelting and re- fining of nonferrous met- als and alloys, total.....</b>	1939	174	4, 723	6, 053	160, 219	183, 822	23, 603
Secondary smelting and refining, gold, silver, and platinum.....	1939	66	1, 115	1, 687	94, 783	101, 784	7, 001
Secondary smelting and refining of nonferrous metals, not else- where classified.....	1939	108	3, 608	4, 366	65, 436	82, 038	16, 602

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.<sup>4</sup> No comparable figures available for 1929 and 1935.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND  
 FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Nonferrous metals, etc.—Con.</b>							
Clocks and watches, total.....	1939	116	20,287	23,407	39,191	94,638	55,446
Clocks, watches, and materials and parts, except watchcases.....	1939	74	17,878	20,467	35,204	84,846	49,642
Watchcases.....	1939	42	2,409	2,940	3,987	9,792	5,804
Jewelry, total.....	1939	1,058	14,438	17,609	52,846	99,037	46,191
Jewelry (precious metals).....	1939	886	11,358	14,243	34,597	71,419	36,822
Jewelers' findings and materials.....	1939	82	2,813	2,975	14,493	22,489	7,996
Lapidary work.....	1939	90	267	391	3,755	5,129	1,374
Silverware and plated ware.....	1939	150	12,105	15,304	24,787	62,771	37,984
Engraving on metal, plat- ing, and polishing, total.....	1939	737	9,625	11,249	8,978	34,032	25,054
Engraving on metal (except for printing purposes).....	1939	94	1,419	1,866	1,678	5,864	4,186
Electroplating, plating, and pol- ishing.....	1939	643	8,206	9,383	7,300	28,168	20,868
Lighting fixtures.....	1939	568	20,477	23,238	59,851	124,582	64,731
<b>Nonferrous metal products not elsewhere classified, total.....</b>							
1939	2,546	80,652	107,665	302,258	572,341	270,082	
Nonferrous metal foundries (ex- cept aluminum).....	1939	600	9,699	12,210	28,708	55,637	26,934
Aluminum ware, kitchen, hos- pital, and household (except electrical appliances).....	1939	32	6,297	7,775	17,207	37,125	19,918
Aluminum products (including rolling and drawing and extrud- ing), not elsewhere classified.....	1939	162	17,249	25,539	106,993	169,819	62,826
Collapsible tubes.....	1939	14	1,933	1,903	4,936	9,472	4,536
Gold and silver leaf and foil.....	1939	26	553	470	1,096	2,109	1,013
Tin and other foils (except gold and silver foil).....	1939	12	1,328	1,938	10,338	19,072	8,734
Sheet-metal work not specifically classified.....	1939	1,262	18,749	23,079	70,981	137,341	66,360
Nonferrous metal products not elsewhere classified.....	1939	438	24,834	34,751	62,005	141,766	79,761
<b>Electrical machinery, total.....</b>							
1939	2,014	256,467	335,820	727,436	1,727,390	999,954	
1937	1,597	306,003	407,961	797,772	1,899,905	1,102,133	
1935	1,589	224,437	240,952	475,687	1,161,403	685,716	
1929	1,861	343,138	474,203	<sup>a</sup> 1,008,341	2,397,765	1,389,424	
<b>Electrical equipment for in- dustrial use, total.....</b>							
1939	727	95,130	135,354	250,618	624,941	374,323	
Wiring devices and supplies.....	1939	146	14,564	16,906	44,506	94,305	49,800
Carbon products for the electrical industry, and manufactures of carbon or artificial graphite.....	1939	31	3,189	4,484	6,681	18,376	11,604
Electrical measuring instruments.....	1939	59	6,976	9,881	12,105	41,797	29,693
Generating, distribution, and industrial apparatus, and ap- paratus for incorporation in manufactured products, not elsewhere classified.....	1939	491	70,401	104,084	187,326	470,462	283,136
<b>Electrical appliances.....</b>							
1939	138	19,890	25,409	58,081	145,696	87,615	

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.<sup>2</sup> Excludes cost of contract work.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Number of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Electrical machinery—Con.</b>							
Insulated wire and cable.....	1939	79	15,696	18,638	70,125	120,390	50,265
Automotive electrical equipment.....	1939	84	17,495	24,896	42,041	109,762	67,721
Electric lamps.....	1939	55	9,622	10,689	28,571	84,828	56,257
Communication equipment and related products, total.....	1939	451	75,627	91,470	194,202	467,197	272,995
Radios, radio tubes, and phono- graphs.....	1939	224	43,508	47,026	145,850	275,870	130,020
Communication equipment.....	1939	227	32,119	44,444	48,352	191,326	142,975
Electrical products not else- where classified, total.....	1939	480	23,007	29,363	83,798	174,577	90,778
Batteries, storage and primary (dry and wet).....	1939	221	15,034	19,209	63,177	117,583	54,406
X-ray and therapeutic apparatus and electronic tubes.....	1939	84	1,959	2,744	5,755	17,945	12,190
Electrical products not elsewhere classified.....	1939	175	6,014	7,410	14,866	39,049	24,182
Machinery (except electrical), total <sup>2</sup> .....	1939	9,506	522,980	748,288	1,285,211	3,254,174	1,968,963
	1937	8,368	643,522	955,996	1,571,362	3,902,967	2,331,604
<b>Engines and turbines, total.</b>							
Steam engines, turbines, and water wheels.....	1939	18	3,902	6,349	9,551	24,751	15,200
Internal-combustion engines.....	1939	74	14,752	21,503	53,456	110,368	56,902
<b>Agricultural machinery and tractors, total.</b>							
Tractors.....	1939	30	31,275	40,846	135,628	253,951	118,325
Agricultural machinery (except tractors).....	1939	317	27,806	35,229	79,270	167,895	88,625
<b>Construction, mining, and related machinery, total.</b>							
Construction and similar machin- ery (except mining and oil-field machinery and tools).....	1939	190	17,259	25,198	63,376	140,138	76,762
Oil-field machinery and tools.....	1939	223	13,524	18,741	31,305	88,977	57,673
Mining machinery and equipment.....	1939	65	4,940	6,277	15,374	33,559	18,185
<b>Metalworking machinery, total.</b>							
Machine tools.....	1939	200	36,624	62,333	63,866	218,045	154,179
Machine-tool and other metal- working machinery accessories, metal-cutting and shaping tools, and machinists' precision tools.....	1939	954	25,161	41,347	31,410	125,630	94,220
Metalworking machinery and equipment, not elsewhere clas- sified.....	1939	178	15,899	25,089	34,750	98,975	64,226
<b>Special industry machinery, total.</b>							
Food-products machinery.....	1939	379	13,979	18,937	31,950	90,841	58,891
Textile machinery.....	1939	300	21,904	27,615	33,598	93,276	59,678
Woodworking machinery.....	1939	130	3,622	4,667	8,292	21,604	13,312

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>2</sup> No comparable figures available for 1929 and 1935.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Number of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Machinery, etc.—Continued</b>							
Paper-mill, pulp-mill, and paper-products machinery	1939	99	5,409	7,775	12,727	32,420	19,692
Printing-trades machinery and equipment	1939	231	9,376	14,647	15,053	55,582	40,529
Special industry machinery, not elsewhere classified	1939	207	10,388	15,161	19,836	55,785	35,949
<b>General industrial machinery, total</b>	1939	5,200	172,104	237,363	396,706	1,062,931	666,225
Measuring and dispensing pumps	1939	38	5,054	6,751	19,020	44,286	25,267
Pumping equipment and air compressors	1939	337	19,180	26,208	54,204	134,941	80,737
Elevators, escalators, and conveyors	1939	183	8,915	13,358	25,057	64,128	39,071
Cars and trucks, industrial	1939	55	2,732	3,149	7,801	17,320	9,519
Blowers; exhaust and ventilating fans	1939	77	3,885	5,371	11,768	28,606	16,839
Measuring instruments, mechanical (except electrical measuring instruments, watches, and clocks)	1939	68	6,692	8,874	13,177	39,684	26,507
Mechanical power-transmission equipment	1939	218	30,268	43,752	50,367	170,291	119,925
Stokers, mechanical, domestic and industrial	1939	61	3,549	4,789	9,857	24,545	14,688
Machine-shop products, not elsewhere classified	1939	2,125	60,717	81,660	141,493	360,334	218,841
Industrial machinery, not elsewhere classified	1939	579	21,936	31,178	52,964	140,628	87,664
Machine-shop repairs	1939	1,459	9,176	12,273	10,998	38,166	27,169
<b>Office and store machines, total</b>	1939	230	42,885	57,920	44,805	187,663	142,858
Office and store machines, not elsewhere classified	1939	123	36,204	49,982	29,143	150,170	121,027
Vending, amusement, and other coin-operated machines	1939	51	3,842	4,632	10,675	23,143	12,468
Scales and balances	1939	56	2,839	3,306	4,988	14,350	9,363
<b>Household and service-industry machines, total</b>	1939	472	53,171	72,302	204,259	391,792	187,533
Laundry equipment, domestic	1939	42	7,466	9,277	36,365	61,601	25,236
Commercial laundry, dry-cleaning, and pressing machinery	1939	82	2,705	3,477	8,821	21,839	13,018
Sewing machines, domestic and industrial	1939	39	7,840	11,157	8,610	29,707	21,096
Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment and complete air-conditioning units	1939	309	35,160	48,392	150,463	278,646	128,183
<b>Automobiles and automobile equipment, total</b>	1939	1,133	398,963	646,406	2,725,396	4,047,873	1,322,476
	<sup>1937</sup>	1,070	511,333	807,026	3,710,919	6,292,786	1,587,877
	<sup>1937</sup>	1,067	479,341	756,081	3,669,342	5,176,236	1,506,894
	1935	946	387,801	545,414	2,819,873	3,942,014	1,122,141
	1929	1,398	447,448	733,083	3,258,497	5,260,723	2,002,226
Motor vehicles, motor-vehicle bodies, parts and accessories	1939	1,054	397,537	644,905	2,720,561	4,039,931	1,319,370
Automobile trailers (for attachment to passenger cars)	1939	79	1,426	1,501	4,835	7,942	3,107

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>2</sup> Excludes cost of contract work.

<sup>3</sup> 1937 figures shown in *italics* are comparable with statistics for 1939 and include data for 3 establishments which were originally classified in another group for 1937 and previous years but which have now been reclassified in this group. Roman-type figures for 1937 do not include data for these 3 establishments and are comparable with statistics for earlier years.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND  
FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Cen- sus year	Number of estab- lish- ments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufac- ture (\$1,000) <sup>1</sup>
<b>Transportation equipment ex- cept automobiles, total</b> <sup>4</sup> -----	1939	968	157,097	239,254	411,377	882,897	471,520
	1937	888	150,885	221,624	448,164	852,785	404,620
<b>Railroad, equipment, total</b> .....	1939	158	30,993	44,271	129,588	215,807	86,219
Locomotives (including frames) and parts—railroad, mining and industrial.....	1939	15	6,470	9,657	25,927	47,426	21,499
Cars and car equipment—rail- road, street, and rapid-transit..	1939	143	24,523	34,615	103,661	168,382	64,721
<b>Aircraft and parts, includ- ing aircraft engines</b> .....	1939	125	48,638	77,488	96,250	279,497	188,247
<b>Ship and boatbuilding and repairing, total</b> .....	1939	608	69,241	107,371	158,374	338,272	179,898
Shipbuilding and ship repairing...	1939	406	66,611	104,473	153,415	327,387	173,972
Boatbuilding and boat repairing...	1939	202	2,630	2,897	4,958	10,885	5,926
<b>Motorcycles, bicycles, and parts</b> .....	1939	36	6,973	8,974	24,041	43,052	19,011
<b>Transportation equipment not elsewhere classified</b> .....	1939	41	1,252	1,150	3,124	6,269	3,145
<b>Miscellaneous industries, total</b> <sup>4</sup> .....	1939	7,699	238,827	258,325	469,167	1,162,958	693,791
	1937	6,311	239,802	260,452	442,907	1,077,573	634,666
<b>Professional and scientific instruments, photographic apparatus, and optical goods, total</b> .....	1939	499	38,324	53,089	75,590	244,617	169,027
Professional and scientific in- struments (except surgical and dental).....	1939	218	9,429	13,709	17,711	61,017	43,306
Photographic apparatus and ma- terials and projection equip- ment (except lenses).....	1939	160	17,271	25,287	42,556	133,899	91,343
Optical instruments and lenses...	1939	30	1,372	1,848	1,114	4,746	3,632
Ophthalmic goods; lenses and fittings.....	1939	91	10,252	12,246	14,209	44,955	30,745
<b>Surgical, medical, and dental instruments, equip- ment, and supplies, total</b> .....	1939	541	14,339	15,352	55,874	118,997	63,123
Surgical and medical instru- ments.....	1939	50	1,626	1,979	2,320	8,052	5,732
Surgical supplies and equipment not elsewhere classified; ortho- pedic appliances.....	1939	360	8,468	8,548	40,297	79,398	39,102
Dental equipment and supplies...	1939	131	4,245	4,825	13,258	31,547	18,289
<b>Musical instruments and parts, total</b> .....	1939	193	10,806	12,525	16,793	40,238	23,445
Pianos.....	1939	35	5,311	6,123	10,124	20,493	10,369
Organs.....	1939	34	989	1,054	1,297	3,421	2,124
Piano and organ parts and mate- rials.....	1939	23	1,315	1,431	1,927	4,772	2,844
Musical instruments, parts, and materials not elsewhere classified.	1939	101	3,191	3,917	3,445	11,552	8,108

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

<sup>4</sup> No comparable figures available for 1929 and 1935.

No. 923.—MANUFACTURES—SUMMARY FOR INDUSTRY GROUPS, 1929 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939—Continued

GROUP OR INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture (\$1,000) <sup>1</sup>
<b>Miscellaneous industries—Con.</b>							
<b>Toys and sporting and athletic goods, total.....</b>	1939	821	36,797	34,427	67,957	151,404	83,447
Games and toys (except dolls and children's vehicles).....	1939	343	15,610	12,657	24,910	55,401	30,491
Dolls (except rubber).....	1939	84	3,052	2,837	6,418	12,132	5,715
Children's vehicles.....	1939	44	4,319	4,713	9,940	19,117	9,177
Sporting and athletic goods not elsewhere classified.....	1939	350	13,816	14,221	26,690	64,754	38,064
<b>Pens, pencils, stencils, and artists' materials, total.....</b>	1939	499	12,591	12,974	31,359	76,399	45,040
Pens, mechanical pencils, and pen points.....	1939	70	4,463	4,329	8,700	24,881	16,181
Pencils (except mechanical) and crayons.....	1939	40	3,779	3,434	7,279	15,860	8,580
Hand stamps, stencils, and brands.....	1939	289	2,211	2,615	3,204	10,812	7,607
Artists' materials.....	1939	42	397	464	2,019	4,070	2,051
Carbon paper and inked ribbons.....	1939	58	1,741	2,132	10,157	20,777	10,620
<b>Buttons.....</b>	1939	316	10,972	8,623	12,473	29,817	17,344
<b>Costume jewelry and miscellaneous products, total.....</b>	1939	863	25,256	19,743	32,117	77,472	45,355
Costume jewelry and costume novelties (jewelry other than fine jewelry).....	1939	289	10,308	8,755	13,830	33,922	20,092
Jewelry cases and instrument cases.....	1939	132	5,127	4,691	6,479	16,670	10,191
Lamp shades.....	1939	128	2,671	1,715	4,384	8,376	3,991
Feathers, plumes, and artificial flowers.....	1939	314	6,650	4,582	7,424	18,504	11,080
<b>Miscellaneous industries, not elsewhere classified, total.....</b>	1939	3,967	89,742	101,592	177,003	424,013	247,010
Brooms.....	1939	320	3,787	2,757	6,052	11,842	5,790
Brushes.....	1939	245	7,891	7,989	25,255	48,487	23,212
Beauty-shop and barber-shop equipment.....	1939	72	1,986	1,818	5,366	13,006	7,640
Furs, dressed and dyed.....	1939	145	5,115	9,066	4,858	22,395	17,537
Signs, advertising displays, and advertising novelties.....	1939	1,386	17,206	20,557	32,493	87,625	55,132
Fabricated plastic products, not elsewhere classified.....	1939	216	15,094	17,683	31,747	71,904	40,157
Umbrellas, parasols, and canes.....	1939	90	2,862	2,193	6,869	11,520	4,651
Tobacco pipes and cigarette holders.....	1939	32	2,481	2,407	2,299	7,508	5,208
Soda fountains, beer dispensing equipment, and related products.....	1939	51	1,590	2,389	5,968	13,660	7,092
Models and patterns (except paper patterns).....	1939	683	5,566	9,037	4,228	22,329	18,101
Hair work.....	1939	42	322	261	739	1,401	662
Wool pulling.....	1939	17	836	1,101	9,615	13,122	3,507
Needles, pins, hooks and eyes, and slide and snap fasteners.....	1939	58	10,403	11,804	13,485	38,155	24,670
Fire extinguishers, chemical.....	1939	28	995	1,273	4,705	9,228	4,524
Miscellaneous fabricated products not elsewhere classified.....	1939	582	13,608	11,252	23,322	51,849	28,527

<sup>1</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 924.—MANUFACTURES—SUMMARY, BY STATES: 1939

[See general note, p. 811]

DIVISION AND STATE	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries (\$1,000)	Wages (\$1,000)	Cost of materials, etc., fuel, purchased electric energy, and contract work (\$1,000)	Value of products (\$1,000)	Value added by manufacture <sup>1</sup> (\$1,000)
<b>United States</b> .....	184,230	1,048,607	7,886,567	2,540,357	9,089,941	32,160,107	56,843,025	24,682,928
<b>New England</b> .....	16,136	120,328	953,670	284,339	1,025,006	2,463,320	4,891,666	2,428,346
Maine.....	1,210	6,339	75,656	18,592	68,434	192,945	345,369	152,423
New Hampshire.....	806	4,693	55,781	10,484	52,735	132,208	237,396	105,188
Vermont.....	717	2,759	21,759	6,041	21,232	51,214	103,154	51,941
Massachusetts.....	9,007	61,848	460,674	148,602	500,923	1,271,452	2,459,771	1,188,319
Rhode Island.....	1,460	12,002	106,275	27,930	105,407	278,102	516,391	238,289
Connecticut.....	2,936	32,787	233,525	77,690	276,274	537,399	1,229,586	692,187
<b>Middle Atlantic</b> .....	56,291	320,253	2,249,621	812,869	2,688,703	8,684,136	16,039,273	7,355,137
New York.....	34,506	151,892	957,854	396,693	1,169,785	3,792,505	7,134,400	3,341,895
New Jersey.....	7,964	62,884	433,471	162,964	521,569	1,804,834	3,428,947	1,524,114
Pennsylvania.....	13,801	105,977	858,296	253,221	1,008,349	2,986,797	5,475,925	2,489,120
<b>East North Central</b> .....	40,415	319,957	2,195,479	803,593	2,950,313	9,777,614	17,559,905	7,782,291
Ohio.....	10,070	87,692	698,397	220,750	812,676	2,459,192	4,584,666	2,152,474
Indiana.....	4,337	40,940	277,467	94,354	345,475	1,257,436	2,227,648	970,212
Illinois.....	12,980	92,327	596,476	238,215	750,239	2,593,266	4,794,861	2,201,595
Michigan.....	6,311	66,204	522,242	173,581	789,976	2,549,810	4,348,223	1,798,404
Wisconsin.....	6,717	32,794	200,897	76,692	251,947	917,902	1,604,507	676,605
<b>West North Central</b> .....	14,947	59,885	382,201	134,287	427,457	2,452,694	3,815,177	1,862,483
Minnesota.....	4,008	12,331	79,753	23,555	96,887	535,143	845,772	310,628
Iowa.....	2,670	11,601	65,314	23,532	73,466	473,737	718,532	244,795
Missouri.....	4,796	24,275	178,538	58,937	190,736	800,095	1,388,066	587,062
North Dakota.....	350	798	2,637	1,433	2,771	32,665	43,767	11,102
South Dakota.....	468	1,294	5,538	2,346	6,636	61,217	81,172	19,955
Nebraska.....	1,161	3,642	18,807	7,500	20,624	204,437	273,525	69,087
Kansas.....	1,494	6,074	31,614	11,985	36,938	345,401	464,354	118,952
<b>South Atlantic</b> .....	17,317	81,403	986,521	180,715	826,413	3,156,673	5,390,420	2,233,747
Delaware.....	429	2,356	20,392	6,093	21,960	59,570	114,754	55,183
Maryland.....	2,893	15,326	141,643	36,778	156,783	604,505	1,027,354	422,849
District of Columbia.....	497	3,572	7,877	8,548	11,772	35,558	70,875	44,317
Virginia.....	2,579	11,937	133,894	27,343	115,539	609,325	988,813	379,488
West Virginia.....	1,130	8,058	74,980	18,600	88,487	227,062	441,840	214,770
North Carolina.....	3,225	15,487	270,207	34,270	199,290	875,377	1,421,390	545,952
South Carolina.....	1,331	6,196	126,983	13,203	86,616	227,666	397,513	169,847
Georgia.....	3,150	12,361	157,804	24,105	108,083	394,087	677,403	283,314
Florida.....	2,083	5,930	52,732	11,776	37,883	123,523	241,539	118,016
<b>East South Central</b> .....	7,275	32,725	357,827	70,157	291,019	1,130,137	1,958,726	828,588
Kentucky.....	1,640	7,924	62,794	18,018	61,902	293,629	481,030	187,400
Tennessee.....	2,289	12,446	131,874	27,824	109,662	407,746	728,088	320,342
Alabama.....	2,052	8,700	116,800	17,669	92,018	327,287	574,671	247,384
Mississippi.....	1,294	3,655	46,359	6,647	27,437	101,475	174,937	73,462
<b>West South Central</b> .....	10,021	36,558	262,580	78,996	238,265	1,744,122	2,567,821	823,700
Arkansas.....	1,178	3,180	36,256	6,210	24,577	92,777	160,167	67,300
Louisiana.....	1,861	8,436	71,218	18,043	55,084	365,179	565,265	200,086
Oklahoma.....	1,606	5,414	28,114	11,079	30,465	209,050	312,168	103,118
Texas.....	5,376	19,528	126,992	43,663	128,139	1,077,115	1,590,221	463,105
<b>Mountain</b> .....	4,011	12,203	69,245	25,728	81,737	545,187	819,833	274,646
Montana.....	585	1,727	9,171	3,684	12,148	112,095	151,885	39,790
Idaho.....	549	1,355	10,877	2,613	12,754	58,705	90,475	31,770
Wyoming.....	310	792	3,484	1,680	4,757	29,794	45,423	15,629
Colorado.....	1,298	4,177	23,719	9,111	28,392	130,387	221,643	91,256
New Mexico.....	272	522	3,250	927	2,913	16,412	25,124	8,712
Arizona.....	332	1,110	6,096	2,612	7,163	65,488	97,529	32,041
Utah.....	560	2,286	11,555	4,591	11,908	123,452	167,172	43,720
Nevada.....	105	234	1,093	509	1,642	8,854	20,582	11,728
<b>Pacific</b> .....	17,817	65,295	429,423	149,674	561,026	2,206,224	3,800,204	1,593,980
Washington.....	3,240	10,812	90,324	25,086	118,326	350,003	636,560	280,647
Oregon.....	2,248	6,256	63,622	13,735	77,586	193,200	365,374	172,175
California.....	12,329	48,227	275,477	110,854	365,114	1,663,022	2,798,180	1,135,158

<sup>1</sup> Calculated by subtracting sum of cost of materials, containers, fuel, purchased electric energy, and contract work from value of products.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 925.—INVENTORIES IN THE HANDS OF MANUFACTURERS AT THE BEGINNING AND END OF 1937 AND 1939, AND BY INDUSTRY GROUPS, 1939

[In thousands of dollars. Statistics on inventories were not collected for any of the industries in the printing and publishing group, nor were inventory statistics collected for contract shops classified in the textile industries. The value of products of those industries for which inventory data were not collected amounted to \$2,946,966,000.]

	INVENTORIES						VALUE OF PRODUCTS		
	Beginning of year			End of year			Total	For establishments reporting inventories †	For establishments not reporting inventories ‡
	Total	Finished products 1	Materials, supplies, etc. 2	Total	Finished products 1	Materials, supplies, etc. 2			
1937	8,467,786	3,523,109	4,944,677	9,862,951	4,313,765	5,549,186	57,892,417	54,750,183	3,142,234
1939	8,926,468	3,959,996	4,966,472	9,632,850	3,963,094	5,729,256	53,995,059	52,094,455	1,901,605
Food and kindred products	1,268,054	774,081	491,993	1,361,080	784,230	577,449	10,618,026	10,257,211	360,815
Tobacco manufactures	170,675	91,793	157,882	188,937	24,008	159,929	3,322,189	3,311,085	2,154
Textile-mill products and other fiber manufactures	758,971	302,801	456,169	828,349	287,433	540,916	3,884,194	3,685,872	228,322
Apparel and other finished products made from fabrics and similar materials	283,909	128,310	160,598	347,978	145,584	202,394	3,102,998	2,490,084	682,904
Lumber and timber basic products	226,609	187,456	93,045	267,692	177,373	90,310	1,122,658	1,058,404	63,654
Furniture and finished lumber products	239,600	96,039	140,561	256,792	90,008	165,884	1,267,724	1,245,592	22,132
Paper and allied products	739,772	62,522	136,911	238,272	90,049	208,223	2,019,568	1,969,546	50,022
Chemicals and allied products	703,775	320,329	382,848	718,729	292,816	420,913	3,733,658	3,692,478	41,180
Products of petroleum and coal	481,322	282,329	198,995	479,098	286,006	194,492	2,863,973	2,844,374	106,700
Rubber products	146,382	76,387	69,976	169,858	82,187	87,371	902,329	898,370	3,958
Leather and leather products	237,334	90,989	146,346	263,106	91,567	171,601	1,388,614	1,362,947	25,667
Stone, clay, and glass products	264,212	483,280	110,962	246,182	144,659	121,523	1,440,151	1,388,192	56,959
Iron and steel and their products, except machinery	1,343,864	481,288	865,577	1,385,103	476,043	6,691,690	6,691,690	6,425,111	106,419
Nonferrous metals and their products	434,454	172,792	261,662	439,472	147,763	291,719	2,572,854	2,557,082	15,773
Electrical machinery	386,327	173,284	213,143	414,375	155,182	299,798	1,727,390	1,724,718	2,672
Machinery (except electrical)	942,902	439,444	603,458	996,908	428,455	567,373	3,254,174	3,233,366	20,808
Automobiles and automobile equipment	338,367	86,629	251,998	411,267	101,249	310,008	4,047,873	4,047,510	363
Transportation equipment except automobiles	140,742	12,417	128,325	214,011	13,833	200,186	882,897	879,553	3,344
Miscellaneous industries	217,406	83,266	134,151	237,289	85,186	152,103	1,162,958	1,119,098	43,860

1 Includes the value of goods produced by contract work on materials owned by the manufacturers reporting.

2 Includes the value of fuel, work in progress, and all other inventories.

3 Includes the value of products of establishments reporting no inventories on hand.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufacturers.

No. 926.—DENATURATED ALCOHOL:<sup>1</sup> 1910 TO 1946

YEAR ENDED JUNE 30—	Alcohol produced at industrial alcohol plants <sup>2</sup>	Denaturing plants operated	Ethyl alcohol withdrawn for denaturation <sup>3</sup>	DENATURATED ALCOHOL PRODUCED <sup>4</sup>		
				Total	Completely denatured	Specially denatured
				Proof gallons	Wine gallons	Wine gallons
1910.....		12	10,605,871	6,079,027	3,076,925	3,002,103
1915.....		23	25,411,719	13,986,469	5,386,647	8,599,822
1920.....	18,933,551	52	45,640,949	28,836,350	13,528,403	15,307,947
1925.....	166,165,518	91	152,254,039	81,808,273	46,983,970	34,824,303
1930.....	193,823,717	68	185,000,827	106,776,978	59,063,510	47,713,468
1935.....	180,645,920	39	163,009,786	97,031,074	38,746,679	58,284,395
1940.....	243,727,756	40	223,321,704	126,761,830	15,352,033	111,409,797
1941.....	298,845,417	43	274,887,261	153,610,433	17,676,172	135,834,261
1942.....	<sup>5</sup> 424,804,091	62	374,760,259	207,845,334	28,628,181	179,217,153
1943.....	<sup>5</sup> 447,786,568	76	408,303,779	222,894,419	24,369,788	198,524,631
1944.....	<sup>5</sup> 636,875,216	66	973,439,556	524,113,586	52,331,761	471,781,825
1945.....	<sup>5</sup> 683,431,544	65	971,446,910	527,095,537	33,087,533	494,008,004
1946.....	329,386,962	50	393,458,500	212,802,110	26,144,437	186,657,673

<sup>1</sup> Includes data for Hawaii for all years and data for Puerto Rico beginning with Aug. 1, 1928.

<sup>2</sup> Separate accounts for alcohol produced at industrial alcohol plants required commencing May 1, 1920.

<sup>3</sup> Through 1930, includes rum and spirits produced at distilleries for denaturation. 1935 through 1941, represents withdrawals of alcohol only for denaturation. 1942 through 1946, represents all products used for denaturation which were regarded, upon receipt at denaturing plants, as alcohol, whether originally produced as alcohol by industrial alcohol plants or as spirits or unfinished spirits by registered distilleries.

<sup>4</sup> Prior to 1943 includes denatured rum.

<sup>5</sup> Represents gross production. Net production—that is, gross production minus products used in redistillation—was 419,566,596 proof gallons for 1942, 364,698,976 proof gallons for 1943, 590,929,045 proof gallons for 1944, and 650,089,874 proof gallons for 1945.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

No. 927.—ETHYL ALCOHOL AND OTHER DISTILLED SPIRITS, EXCEPT BRANDY—  
MATERIALS USED IN PRODUCTION, BY KINDS: 1901 TO 1946

YEAR ENDED JUNE 30—	Molasses (thousand gallons)	GRAIN (THOUSANDS OF POUNDS) <sup>1</sup>				ETHYL SULPHATE	PINE-APPLE JUICE	OTHER MATERIALS <sup>2</sup>	
		Corn	Malt	Rye	Other <sup>3</sup>			Thousand gallons	Thousand pounds
1901-05, average.....	14,059	1,094,027	197,602	303,038	3,349				
1906-10, average.....	30,630	1,114,277	202,720	280,112	1,893				
1911.....	44,363	1,301,832	226,968	301,056	5,096				
1912.....	61,605	1,288,952	238,256	313,600	4,760				
1913.....	64,641	1,335,488	238,168	326,368	6,160				
1914.....	64,721	1,193,696	220,584	299,152	4,648				
1915.....	123,301	798,560	131,992	136,696	4,480				
1916.....	80,977	1,795,920	250,936	174,552	4,592			71,165	
1917.....	112,498	1,902,488	287,440	133,000	4,536			78,463	
1918.....	118,028	814,520	94,640	13,944	9,632			68,527	
1919.....	123,499	217,840	32,088	1,400	4,816			9,801	
1920.....	113,133	59,248	12,040	2,800	2,912			19,327	
1921.....	119,053	273,840	51,184	10,528	1,624			31,101	
1922.....	97,223	173,208	45,696	4,760	56			74,705	
1923.....	148,711	173,936	46,536	280				32,543	
1924.....	155,001	271,432	64,568	5,096	1,120			35,525	
1925.....	203,270	403,256	59,976	5,432	616			37,824	
1926.....	267,404	445,088	36,400	728	672			44,508	
1927.....	211,619	469,448	28,280	392				40,942	
1928.....	213,630	346,864	25,368	392	504			56,795	
1929.....	208,045	548,912	20,720	448				53,884	
1930.....	255,797	559,096	37,296	11,648	1,848	1,274		21,601	
1931.....	187,790	137,424	36,008	367,560	1,568	10,072	5,768	19,302	
1932.....	161,295	271,488	28,336	12,208	18,592	11,146	4,235	15,072	
1933.....	117,939	325,808	31,360	31,584	336	8,943	5,544	6,772	
1934.....	104,031	580,269	140,848	252,519	2,663	9,568	7,491	1,672	
1935.....	195,266	1,086,392	209,361	573,413	3,099	13,699	5,317	1,190	
1936.....	179,123	1,782,205	372,421	718,789	3,716	24,403	6,790	8,092	
1937.....	208,071	2,026,560	367,312	651,457	3,673	25,493	3,568	12,248	
1938.....	166,722	1,110,331	206,625	339,066	2,689	26,577	2,007	27	
1939.....	163,222	1,012,868	183,411	307,742	3,432	35,389	2,344	26,207	
1940.....	198,929	1,059,019	186,468	314,371	2,383	45,786	3,256	13,801	
1941.....	225,349	1,307,455	251,065	373,997	2,527	53,400	1,831	2,365	
1942.....	286,174	2,335,469	333,155	384,190	114,806	71,259	1,988	2,859	
1943.....	183,039	2,797,590	558,854	117,008	2,370,391	78,299	3,237	3,574	
1944.....	263,889	320,126	727,200	217,398	6,393,230	94,467	4,918	8,680	
1945.....	242,786	1,600,028	962,002	651,649	6,404,941	91,621	2,766	57,949	
1946.....	117,520	1,370,400	537,373	463,821	1,968,362	103,306	2,374	152,899	

<sup>1</sup> Conversion factor used was 56 pounds per bushel when reported in bushels.

<sup>2</sup> Wheat, barley, rice, etc., also mixtures of corn, malt, and rye.

<sup>3</sup> Diamalt, sulphite liquor, manioc meal, maguey juice, maple sirup, cider, corn sirup, potatoes, crude-alcohol mixture, cellulose pulp, and chemical mixtures, etc.

Source: Treasury Department: 1901 to 1933, Bureau of Industrial Alcohol; Statistics Concerning Intoxicating Liquors. 1934 and subsequent years, Bureau of Internal Revenue; annual and special reports.

No. 928.—DISTILLED SPIRITS, MALT LIQUORS, AND WINES—APPARENT AVERAGE ANNUAL PER CAPITA CONSUMPTION IN THE CONTINENTAL UNITED STATES: 1850 TO 1945

[In gallons, except distilled spirits which is shown in tax gallons]

FISCAL YEAR	DISTILLED SPIRITS			MALT LIQUORS			WINES		
	Total	Domes- tic	Im- ported	Total	Domes- tic	Im- ported	Total	Domes- tic	Im- ported
1850	2.24	2.02	.22	1.58	1.57	-.01	.27	.01	.26
1860	2.86	2.67	.19	3.22	3.18	-.04	.34	.06	.28
1870	2.07	1.89	.18	5.31	5.28	.03	.32	.08	.24
1871-80 <sup>1</sup>	1.30	1.35	.04	6.93	6.90	-.03	.47	.31	.16
1881-90 <sup>1</sup>	1.34	1.31	.03	11.37	11.34	-.03	.48	.39	.09
1891-95 <sup>1</sup>	1.37	1.35	.02	15.20	15.15	-.05	.59	.32	.27
1896-1900 <sup>1</sup>	1.12	1.10	.02	15.53	15.49	-.04	.36	.31	.05
1901-05 <sup>1</sup>	1.39	1.36	.03	17.34	17.29	-.05	.47	.40	.07
1906-10 <sup>1</sup>	1.43	1.39	.04	19.81	19.73	-.08	.62	.53	.09
1911	1.46	1.42	.04	20.69	20.61	-.08	.67	.60	.07
1912	1.45	1.41	.04	20.02	19.95	-.07	.58	.52	.06
1913	1.51	1.47	.04	20.72	20.64	-.08	.56	.49	.07
1914	1.44	1.40	.04	20.69	20.62	-.07	.53	.46	.07
1915	1.26	1.23	.03	18.40	18.37	-.03	.33	.27	.06
1916	1.37	1.33	.04	17.78	17.76	-.02	.47	.42	.05
1917	1.62	1.59	.03	18.17	18.15	-.02	.41	.36	.05
1918	.87	.86	.01	14.77	14.76	-.01	.49	.46	.03
1919	.79	.79	( <sup>2</sup> )	8.00	8.00	( <sup>2</sup> )	.51	.49	.02
1920	.22	.22	( <sup>2</sup> )	2.61	2.61	( <sup>2</sup> )	.12	.12	( <sup>2</sup> )
1921	.32	.32	( <sup>2</sup> )	.....	.....	.....	.19	.18	.01
1922 <sup>3</sup>	.18	.18	( <sup>2</sup> )	.....	.....	.....	.05	.05	.01
1923 <sup>3</sup>	.11	.11	( <sup>2</sup> )	.....	.....	.....	.13	.13	( <sup>2</sup> )
1924 <sup>3</sup>	.10	.10	( <sup>2</sup> )	.....	.....	.....	.08	.08	( <sup>2</sup> )
1925 <sup>3</sup>	.09	.09	( <sup>2</sup> )	.....	.....	.....	.03	.03	( <sup>2</sup> )
1926 <sup>3</sup>	.09	.09	( <sup>2</sup> )	.....	.....	.....	.05	.05	( <sup>2</sup> )
1927 <sup>3</sup>	.08	.08	( <sup>2</sup> )	.....	.....	.....	.04	.04	( <sup>2</sup> )
1928 <sup>3</sup>	.09	.09	( <sup>2</sup> )	.....	.....	.....	.04	.04	( <sup>2</sup> )
1929 <sup>3</sup>	.09	.09	( <sup>2</sup> )	.....	.....	.....	.09	.09	( <sup>2</sup> )
1930 <sup>3</sup>	.08	.08	( <sup>2</sup> )	.....	.....	.....	.03	.03	( <sup>2</sup> )
1931 <sup>3</sup>	.07	.07	( <sup>2</sup> )	.....	.....	.....	.05	.05	( <sup>2</sup> )
1932 <sup>3</sup>	.06	.06	( <sup>2</sup> )	.....	.....	.....	.04	.04	( <sup>2</sup> )
1933 <sup>3</sup>	.05	.05	( <sup>2</sup> )	.....	.....	.....	.01	.01	( <sup>2</sup> )
1934 <sup>3</sup>	.33	.30	.03	1.56	1.55	.01	.01	.12	.02
1935	.70	.67	.03	10.45	10.44	.01	.30	.28	.02
1936	.81	.73	.08	11.93	11.92	.01	.39	.37	.02
1937	1.03	.90	.13	13.47	13.45	.02	.52	.49	.03
1938	1.00	.89	.11	13.02	13.00	.02	.51	.48	.03
1939	.93	.84	.09	12.41	12.39	.02	.55	.52	.03
1940	1.02	.93	.09	12.58	12.57	.01	.66	.63	.03
1941	1.04	.96	.08	12.42	12.41	.01	.70	.68	.02
1942	1.13	1.06	.07	14.18	14.17	.01	.79	.78	.01
1943	1.11	1.00	.11	15.96	15.93	.03	.84	.83	.01
1944	1.03	.72	.31	17.97	17.92	.05	.73	.66	.07
1945	1.22	1.05	.17	18.86	18.79	.07	.73	.70	.03

<sup>1</sup> Average for the period.

<sup>2</sup> Less than .005.

<sup>3</sup> Includes quantities withdrawn for certain manufacturing, compounding, medicinal, and sacramental uses.

Source: Department of Commerce, Bureau of Foreign and Domestic Commerce; Industrial Reference Service; Foreign Trade in Beverages and Beverage Materials, Nov. 1945 and July 1947. Data prior to 1922 published in the Statistical Abstract, 1921, p. 616.

No. 929.—ALCOHOLIC BEVERAGES—PRODUCTION, TAX-PAID WITHDRAWALS, AND STOCKS: YEARS ENDED JUNE 30, 1940 TO 1946

[Includes data for Alaska, Hawaii, and Puerto Rico]

CLASS	Unit	1940	1941	1942	1943	1944	1945	1946
<b>Fermented malt liquor:</b>								
Production	Thous. of bbl. <sup>1</sup>	54,892	55,214	63,717	71,018	81,726	86,604	84,978
Tax-paid withdrawals	do	53,014	52,799	60,856	68,636	76,970	79,591	81,287
Stocks on hand June 30	do	9,019	9,038	8,935	8,286	8,862	9,262	8,035
<b>Distilled spirits, total:</b>								
Production <sup>2</sup>	Thous. of tax gal. <sup>3</sup>	143,455	175,209	157,982	4 39,917	4 23,805	4 123,205	4 275,148
Tax-paid withdrawals <sup>4</sup>	do	128,326	130,552	144,208	136,837	90,464	142,331	178,131
Stocks on hand June 30 <sup>5</sup>	do	525,395	561,424	587,751	476,345	376,278	338,173	420,262
<b>Whiskey:</b>								
Production	do	98,993	121,852	120,257	19,530		41,562	147,465
Tax-paid withdrawals	do	81,267	80,542	84,709	87,914	58,833	63,891	63,227
Stocks on hand June 30	do	480,938	504,081	516,919	424,825	348,646	307,588	374,072
<b>Rectified spirits and wines, production, total:</b>								
Whiskey, production	Thous. of proof gal.	47,657	54,158	67,771	70,125	67,686	118,863	150,879
do	do	37,977	44,317	55,962	60,795	57,862	101,045	124,727
<b>Still wines:<sup>6</sup></b>								
Production <sup>7</sup>	Thous. of wine gal. <sup>8</sup>	212,368	286,371	313,706	195,225	264,853	314,983	379,936
Tax-paid withdrawals	do	82,177	88,592	102,016	108,426	84,673	88,792	107,965
Stocks on hand June 30 <sup>9</sup>	do	93,245	117,887	133,196	91,031	94,313	102,725	102,014
<b>Sparkling wines:<sup>10</sup></b>								
Production	Thous. of half pints <sup>11</sup>	9,635	18,211	24,582	20,348	30,192	31,017	40,569
Tax-paid withdrawals	do	8,377	14,464	17,560	22,071	26,961	25,269	35,721
Stocks on hand June 30	do	13,208	15,872	20,992	17,648	18,715	22,634	24,498

<sup>1</sup> Barrels of not more than 31 wine gallons.      <sup>2</sup> Excludes ethyl alcohol.

<sup>3</sup> A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon. For spirits of less than 100 proof the tax gallon is equivalent to the wine gallon.

<sup>4</sup> Excludes high-proof spirits and unfinished spirits produced at registered distilleries for industrial purposes.

<sup>5</sup> Includes ethyl alcohol.

<sup>6</sup> Excludes vermouth.

<sup>7</sup> Production represents total amount removed from fermenters, including distilling material (standard wine produced with excessive water or residue materials). In 1946, 260,240,000 gallons of distilling materials were produced.

<sup>8</sup> Standard United States gallon.

<sup>9</sup> Excludes distilling materials.

<sup>10</sup> Includes champagne, other sparkling wines, and artificially carbonated wines.

<sup>11</sup> Tax is payable on each ½ pint or fraction thereof in each bottle or container.

No. 930.—TOBACCO, LEAF—AMOUNTS CONSUMED IN THE MANUFACTURE OF CIGARS, CIGARETTES, CHEWING AND SMOKING TOBACCO, AND SNUFF

[All figures in thousands of pounds. Figures represent the equivalent in unstemmed leaf tobacco of stemmed leaf or scraps, cuttings, and clippings. In the following table the tobacco used in the manufacture of cigars and cigarettes was converted on the basis of 3 pounds of stemmed leaf or scraps, etc., to 4 pounds of unstemmed beginning 1915 (conversion prior to 1915 was at the ratio of 3 to 5) and of tobacco and snuff beginning 1903. For 1896 to 1902, tobacco used in manufactured tobacco and snuff was shown only under two heads, namely, "leaf" and "scraps." It is probable that stemmed leaf was included with unstemmed tobacco under the head of "leaf" without the one kind being converted to the equivalent in the other. The conversion ratio of 3 to 4 was applied only to "scraps" for these years. Data exclude tobacco used in bonded manufacturing warehouses]

CALENDAR YEAR OR YEARLY AVERAGE	Total	Cigars	Cigarettes	Tobacco and snuff	CALENDAR YEAR	Total	Cigars	Cigarettes	Tobacco and snuff
1896-1900	359,053	87,851	16,235	254,967	1934	775,530	111,123	375,383	289,024
1901-1905	451,461	124,411	12,444	314,606	1935	775,932	118,742	399,458	262,731
1906-1910	524,193	139,206	22,079	362,908	1936	847,367	126,578	453,327	267,462
1911-1915	578,283	151,890	52,207	374,186	1937	872,924	128,653	479,961	264,309
1916-1920	650,460	155,312	130,320	364,828	1938	865,302	118,751	483,840	262,710
1921-1925	672,077	151,421	198,069	322,588	1939	885,299	122,681	509,133	253,485
1926-1930	762,540	149,240	312,533	300,767	1940	922,716	126,835	535,218	260,663
1931-1935	740,934	112,296	345,985	282,652	1941	1,009,085	136,066	626,842	246,178
1936-1940	878,722	124,700	492,296	261,726	1942	1,131,065	140,679	754,550	235,837
1930	779,806	137,901	347,915	293,990	1943	1,228,703	131,896	800,459	236,349
1931	752,404	127,628	329,962	294,813	1944	1,254,541	129,882	920,418	204,241
1932	690,134	104,288	299,029	286,817	1945	1,291,176	128,390	944,286	218,499
1933	710,668	104,699	326,093	279,876					

Source of tables 929 and 930: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

## No. 931.—TOBACCO PRODUCTS—PRODUCTION, BY KIND: 1901 TO 1945

[Compiled from monthly returns of manufacturers. Data relate to products manufactured in continental United States, excluding those manufactured in Customs bonded manufacturing warehouses, class 6. There were 98,891,710 large cigars manufactured in these warehouses in 1945. Large cigars are those weighing more than 3 pounds per thousand]

CALENDAR YEAR OR YEARLY AVERAGE	TOBACCO AND SNUFF (THOUSANDS OF POUNDS)						CIGARS (THOUSANDS)		CIGARETTES (THOUSANDS)	
	Total	Plug	Twist	Fine cut	Smoking <sup>1</sup>	Snuff	Large	Small	Large	Small
1901-1905	346,841	175,981	11,903	138,402	20,556	6,513,095	716,720	7,143	3,227,606	
1906-1910	413,054	167,460	13,524	12,525	192,700	6,883,272	1,059,501	16,113	6,192,571	
1911-1915	437,346	158,529	15,017	10,795	221,865	31,140	7,087,530	1,055,664	15,095	14,802,416
1916-1920	456,584	159,869	14,846	9,768	237,808	34,805	7,364,937	810,327	20,020	41,565,670
1921-1925	409,457	115,445	10,105	6,972	239,151	37,785	6,691,913	557,300	16,704	65,903,991
1926-1930	389,244	99,470	8,374	5,821	235,421	40,159	6,360,650	414,044	10,479	109,361,216
1931-1935	349,785	64,662	5,404	3,660	239,072	36,887	4,648,368	245,412	20,417	121,702,676
1936-1940	344,331	54,402	6,029	4,703	241,561	37,636	5,184,661	164,652	2,956	174,117,549
1935	342,728	60,588	5,604	4,683	235,757	36,095	4,685,370	177,822	2,504	139,966,180
1936	347,977	59,165	6,372	5,068	239,349	38,022	5,172,279	180,006	2,458	158,893,958
1937	340,579	58,331	6,774	4,999	233,384	37,141	5,303,369	198,585	3,066	169,069,320
1938	345,369	54,495	5,659	4,572	243,470	37,173	5,014,758	152,990	2,638	171,686,383
1939	343,307	51,263	5,735	4,701	243,640	37,970	5,197,627	156,940	4,369	180,660,824
1940	344,423	48,759	5,605	4,176	248,011	37,872	5,235,271	134,738	2,249	189,371,258
1941	342,427	50,230	5,614	5,069	241,897	39,616	5,610,176	146,711	1,790	217,934,925
1942	330,413	54,300	6,024	5,084	224,002	41,003	5,840,805	133,150	2,503	257,520,863
1943	327,089	58,945	6,257	4,460	214,249	43,179	5,363,027	125,480	6,111	296,173,333
1944	306,935	61,655	6,498	4,092	192,728	41,962	5,198,679	123,340	26,870	323,583,888
1945	330,502	59,704	6,723	3,970	216,271	43,834	5,274,675	98,167	82,416	332,164,670

<sup>1</sup> Includes scrap chewing tobacco.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

## No. 932.—TOBACCO PRODUCTS—NUMBER OF FACTORIES, 1946, AND PRODUCTION, 1945, BY STATES

[See headnote, table 931]

STATE	NUMBER OF FACTORIES JAN. 1, 1946, MAKING—			PRODUCTION IN 1945 (CALENDAR YEAR)				
	Tobacco and snuff <sup>1</sup>	Cigars	Cigarettes	Tobacco and snuff (1,000 pounds)	Cigars (thousands)		Cigarettes (thousands)	
					Large	Small	Large	Small
Total	394	2,799	62	330,502	5,274,675	98,167	82,416	332,164,670
California	19	103	5	448	97,362			4,432,573
Connecticut	4	73		13	33,940			
Florida		271	2		803,460		162	466
Illinois	52	293		11,740	35,916			
Indiana	10	33		50	152,382			
Kentucky	13	22	5	30,767	73,345			19,263,842
Louisiana	1	11		4	60,479			
Massachusetts	17	129	2	267	61,478			2,035
Michigan	17	77	2	7,558	58,066			2,490
Minnesota	5	42		18	11,074			
Missouri	9	45	1	43,166	31,425			39,699
New Hampshire		14			68,144			
New Jersey	10	90	3	10,111	384,903			16,128,442
New York	97	626	19	2,327	344,973	2,854	13,606	2,843,787
North Carolina	8	7	8	122,609	28,439		55	176,379,326
Ohio	29	118	1	30,517	258,787			32,634
Pennsylvania	43	490	5	7,294	2,135,917		68,593	7,119,891
South Carolina		3			152,209			
Tennessee	10	8		22,678	47,986			
Virginia	6	10	9	28,858	178,157	95,313		105,919,485
West Virginia	3	18		9,533	63,213			
All other	41	316		2,544	193,020			

<sup>1</sup> Factories producing a taxable product, excluding 184 "quasi" manufacturers.

Source: Treasury Department, Bureau of Internal Revenue; Annual Report of the Commissioner.

## No. 933.—COTTON SPINDLES, COTTON CONSUMPTION, AND STOCKS

[Statistics for 1915 to 1946 relate to 12 months ended July 31 and those for prior years to 12 months ended Aug. 31. Consumption and stocks are expressed in running bales, counting round as half bales, except that all figures, 1840 to 1870, inclusive, and foreign cotton for all years are in equivalent 500-pound bales]

YEAR	COTTON SPINDLES (THOUSANDS)					Spindles using cotton with other fibers (thousands) <sup>1</sup>	Active cotton spindle hours (thousands)	COTTON CONSUMED, EXCLUDING LINTERS <sup>2</sup> (THOUSANDS OF BALES)			
	Total in place	Active <sup>1</sup>						United States	Cotton-growing States	New England	Other States
		United States	Cotton-growing States	New England	Other States						
1840.....	( <sup>3</sup> )	2, 285	181	1, 597	506	( <sup>3</sup> )	( <sup>3</sup> )	237	71	159	67
1850.....	( <sup>3</sup> )	3, 998	265	2, 959	775	( <sup>3</sup> )	( <sup>3</sup> )	576	78	431	7
1860.....	( <sup>3</sup> )	5, 236	324	3, 869	1, 053	( <sup>3</sup> )	( <sup>3</sup> )	845	94	567	184
1870.....	( <sup>3</sup> )	7, 132	328	5, 498	1, 306	( <sup>3</sup> )	( <sup>3</sup> )	797	69	551	177
1880.....	( <sup>3</sup> )	10, 653	4 561	4 8, 632	4 1, 460	( <sup>3</sup> )	( <sup>3</sup> )	4 1, 570	4 189	4 1, 129	4 252
1890.....	( <sup>3</sup> )	14, 384	1, 570	10, 934	1, 880	( <sup>3</sup> )	( <sup>3</sup> )	2, 518	539	1, 502	477
1900.....	( <sup>3</sup> )	19, 472	4, 368	13, 171	1, 933	( <sup>3</sup> )	( <sup>3</sup> )	3, 873	1, 523	1, 909	440
1910.....	28, 929	28, 267	10, 494	15, 735	2, 038	( <sup>3</sup> )	( <sup>3</sup> )	4, 622	2, 234	1, 995	393
1920.....	35, 834	35, 481	15, 231	18, 287	1, 963	402	( <sup>3</sup> )	6, 420	3, 583	2, 397	440
1925.....	37, 929	35, 032	17, 292	15, 975	1, 765	251	91, 055	6, 193	4, 220	1, 639	335
1930.....	34, 025	31, 245	18, 586	11, 351	1, 308	177	87, 515	6, 106	4, 749	1, 143	214
1935.....	30, 093	26, 701	18, 212	7, 763	726	88	72, 526	5, 361	4, 306	818	237
1938.....	26, 372	24, 774	18, 128	5, 919	727	90	74, 902	5, 748	4, 881	708	160
1939.....	25, 261	23, 731	17, 666	5, 408	657	116	87, 696	6, 858	5, 810	859	189
1940.....	24, 750	23, 586	17, 641	5, 279	666	103	97, 006	7, 784	6, 647	918	219
1941.....	24, 335	23, 389	17, 653	5, 088	649	101	111, 775	9, 722	8, 289	1, 147	285
1942.....	23, 971	23, 608	17, 800	5, 138	670	127	131, 161	11, 170	9, 526	1, 313	331
1943.....	23, 401	23, 429	17, 746	5, 043	641	213	129, 709	11, 100	9, 640	1, 156	305
1944.....	23, 293	23, 019	17, 652	4, 784	582	240	118, 283	9, 943	8, 739	950	254
1945.....	23, 128	22, 675	17, 610	4, 511	554	256	111, 898	9, 568	8, 455	891	222
1946.....	23, 862	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	105, 368	9, 163	8, 074	854	235

YEARLY AVERAGE OR YEAR	CONSUMPTION (THOUSANDS OF BALES)						STOCKS IN CONSUMING ESTABLISHMENTS AT END OF YEAR (THOUSANDS OF BALES)				
	Cotton, excluding lintners						Cotton, excluding lintners <sup>5</sup>				
	Total	Domestic				Foreign	Linters	Total	Domestic	Foreign	Linters
		Total	Upland	Sea Island	American-Egyptian						
1906-1910.....	6 4, 829	6 4, 680	6 4, 616	6 64	149	7 163	6 731	6 673	58	7 39	
1911-1915.....	5, 257	5, 051	5, 078	75	206	293	822	738	84	86	
1916-1920.....	6, 388	6, 105	6, 034	71	282	734	1, 452	1, 352	100	179	
1921-1925.....	5, 869	5, 577	5, 531	9	37	292	599	1, 003	911	102	
1926-1930.....	6, 735	6, 434	6, 419	1	15	301	815	1, 150	1, 050	100	
1931-1935.....	5, 466	5, 325	5, 311	1	14	140	720	1, 116	1, 061	55	
1936-1940.....	6, 938	6, 799	6, 780	2	18	139	836	7, 133	7, 060	74	
1935.....	5, 861	5, 241	5, 229	1	11	120	719	789	749	40	
1936.....	6, 351	6, 220	6, 198	( <sup>3</sup> )	21	131	734	897	855	42	
1937.....	7, 950	7, 768	7, 747	( <sup>3</sup> )	20	182	819	1, 286	1, 218	87	
1938.....	5, 745	5, 616	5, 608	2	6	132	715	10, 908	10, 821	87	
1939.....	6, 858	6, 736	6, 714	3	19	122	851	12, 483	12, 406	76	
1940.....	7, 784	7, 655	7, 631	3	21	128	1, 061	10, 094	9, 999	96	
1941.....	9, 722	9, 576	9, 545	3	27	146	1, 350	11, 581	11, 441	140	
1942.....	11, 170	10, 974	10, 922	4	47	196	1, 488	9, 900	9, 765	135	
1943.....	11, 100	10, 930	10, 874	6	50	170	1, 301	9, 792	9, 704	88	
1944.....	9, 943	9, 829	9, 782	3	44	114	1, 365	10, 159	10, 041	115	
1945.....	9, 568	9, 448	9, 404	1	44	120	1, 481	10, 339	10, 215	124	
1946.....	9, 163	8, 966	8, 946	1	19	197	1, 055	6, 746	6, 593	153	

<sup>1</sup> Active cotton spindles represent sum of greatest number reported by each mill as active at any time during year regardless of length of time operated. Spindles consuming cotton mixed with other fibers represent total number reported as producing cotton blends at any time during year. Collection of these data were discontinued at close of reporting period, July 31, 1945. Beginning Aug. 1945, data on number of cotton spindles active last day of each month by type of fiber spun were collected. On July 31, 1946, there were 21,578,000 spindles active on cotton, 575,000 on synthetic fiber, 393,000 on blends with cotton, and 231,000 on other fibers and other blends. Of 21,578,000 spindles active on cotton, 16,869,000 were in "Cotton-growing States," 4,173,000 in "New England States," and 536,000 in "Other States."

<sup>2</sup> Includes linters for 1840 to 1908. Figures for all years include foreign and domestic cotton.

<sup>3</sup> Not available. <sup>4</sup> Cotton mills only.

<sup>5</sup> Includes stocks held in public storage and at compresses beginning 1938.

<sup>6</sup> Includes linters for 1906 to 1908. <sup>7</sup> Average, 1909 and 1910.

<sup>8</sup> "Upland" includes "American-Egyptian" beginning 1912 (first year produced). <sup>9</sup> Less than 500 bales.

Source: Dept. of Commerce, Bureau of Census; annual report, Cotton Production and Distribution.

No. 934.—COTTON SPINDLE ACTIVITY, 1944, 1945, 1946, AND COTTON CONSUMPTION, 1942 TO 1946, BY REGION AND STATE

[Years ended July 31. Consumption includes domestic and foreign cotton and is in running bales counting round as half bales, except foreign cotton which is in equivalent 500-pound bales]

REGION AND STATE	COTTON SPINDLES IN PLACE (THOUSANDS)			ACTIVE COTTON SPINDLE HOURS (MILLIONS)			COTTON CONSUMED, EXCLUDING LINTERS (THOUSANDS OF BALES)				
	1944	1945	1946	1944	1945	1946	1942	1943	1944	1945	1946
<b>United States.....</b>	<b>23, 293</b>	<b>23, 128</b>	<b>23, 862</b>	<b>118, 283</b>	<b>111, 898</b>	<b>105, 368</b>	<b>11, 170</b>	<b>11, 100</b>	<b>9, 943</b>	<b>9, 568</b>	<b>9, 163</b>
Cotton-growing States.....	17, 681	17, 607	18, 128	98, 842	94, 249	88, 446	9, 526	9, 640	8, 739	8, 455	8, 074
New England.....	4, 987	4, 931	5, 125	17, 426	15, 831	15, 230	1, 313	1, 156	950	891	854
Other States.....	625	590	609	2, 015	1, 819	1, 692	331	305	254	222	235
Alabama.....	1, 808	1, 804	1, 819	10, 198	9, 616	9, 588	1, 299	1, 301	1, 176	1, 164	1, 128
Connecticut.....	486	480	501	1, 425	1, 327	1, 196	94	78	62	57	59
Georgia.....	3, 100	3, 064	3, 177	17, 277	16, 596	15, 814	2, 225	2, 296	2, 045	2, 010	1, 971
Maine.....	602	602	602	2, 117	2, 007	1, 976	215	182	153	149	138
Massachusetts.....	2, 751	2, 694	2, 789	9, 882	9, 017	8, 714	692	625	513	485	470
New Hampshire.....	282	.....	.....	1, 320	.....	.....	159	146	125	112	.....
New York.....	298	268	288	937	869	844	134	119	103	91	90
North Carolina.....	5, 726	5, 719	5, 848	31, 165	30, 071	27, 797	2, 832	2, 854	2, 660	2, 550	2, 382
Rhode Island.....	832	825	802	2, 536	2, 222	2, 148	148	121	95	86	81
South Carolina.....	5, 331	5, 314	5, 522	31, 311	29, 673	27, 334	2, 150	2, 190	2, 039	1, 952	1, 823
Tennessee.....	545	533	562	3, 264	2, 980	2, 704	273	263	222	221	208
Texas.....	239	239	242	1, 055	1, 028	1, 058	254	267	208	191	198
Virginia.....	623	620	646	2, 980	2, 770	2, 692	252	260	231	226	197
All other States.....	671	958	1, 004	2, 818	3, 722	3, 503	441	397	312	274	418

Source: Dept. of Commerce, Bureau of Census; annual report, Cotton Production and Distribution.

No. 935.—COTTON AND RAYON MILL MACHINERY—NUMBER OF MACHINES IN PLACE, BY KIND AND BY REGION AND STATE: FEBRUARY 28, 1942

[Machinery in place is that which is set up in operating position]

REGION AND STATE	Cards	Combs	ROVING MACHINERY				Spinning spindles	Twisting spindles	Looms
			Slubbers	Speeders	Intermediates	Jacks			
<b>United States.....</b>	<b>90, 582</b>	<b>7, 245</b>	<b>637, 529</b>	<b>1, 962, 368</b>	<b>700, 060</b>	<b>524, 948</b>	<b>24, 185, 947</b>	<b>3, 427, 293</b>	<b>522, 127</b>
Cotton-growing States.....	72, 141	3, 828	524, 619	1, 493, 816	520, 330	232, 444	18, 184, 663	2, 612, 863	363, 376
North Carolina.....	24, 339	2, 591	161, 786	539, 540	162, 410	148, 002	5, 861, 613	1, 173, 469	85, 383
South Carolina.....	16, 969	499	129, 672	491, 417	136, 000	17, 768	5, 620, 037	364, 376	144, 770
Georgia.....	15, 692	264	124, 558	224, 347	103, 000	9, 668	3, 154, 956	648, 122	54, 404
Alabama.....	8, 365	168	72, 405	104, 520	50, 276	18, 120	1, 813, 716	224, 414	34, 870
Other cotton-growing States <sup>1</sup> .....	6, 776	306	36, 198	133, 992	68, 644	38, 886	1, 734, 341	202, 482	43, 949
<b>New England<sup>2</sup>.....</b>	<b>15, 441</b>	<b>3, 219</b>	<b>90, 686</b>	<b>392, 722</b>	<b>156, 412</b>	<b>282, 780</b>	<b>5, 297, 814</b>	<b>723, 078</b>	<b>117, 020</b>
Massachusetts.....	8, 671	2, 171	46, 228	269, 876	98, 220	195, 692	2, 992, 490	405, 150	56, 790
Rhode Island, Connecticut.....	3, 179	798	16, 864	71, 592	27, 412	73, 512	1, 301, 620	264, 800	35, 029
Middle Atlantic <sup>3</sup> .....	2, 616	180	18, 303	64, 058	20, 084	8, 212	589, 436	87, 372	30, 483
Midwestern <sup>4</sup> .....	384	18	3, 916	12, 272	3, 234	1, 512	114, 034	3, 980	2, 243

<sup>1</sup> Includes Arkansas, California, Kentucky, Louisiana, Mississippi, Oklahoma, Tennessee, Texas, and Virginia.

<sup>2</sup> Includes Maine, New Hampshire, and Vermont, not shown separately.

<sup>3</sup> Includes Delaware, Maryland, New Jersey, New York, and Pennsylvania.

<sup>4</sup> Includes Illinois, Indiana, Michigan, Ohio, and Wisconsin.

Source: Department of Commerce, Bureau of the Census; compiled from manufacturers' reports to War Production Board and published in Facts for Industry Series 32-16-1.

## No. 936.—WOOL MANUFACTURING EQUIPMENT, BY TYPE: 1899 TO 1943

[Represents equipment in possession of wool manufacturing establishments, regardless of condition, 1943 data based on reports of machinery "in place," and include estimates of number in possession but not in place. Data for 1899, 1914, and 1929 reported in Census of Manufactures, and exclude mills whose product was valued at less than \$500 in 1899 and 1914, and less than \$5,000 in 1929; 1943 inventory included all mills, regardless of size]

TYPE	1899	1914	1929	1943
Rag pickers <sup>1</sup> .....	(?)	1,769	1,495	1,346
Garnetts <sup>1</sup> .....	(?)	413	437	577
Cards (sets), except shoddy cards.....	(?)	(?)	8,831	7,172
Woolen.....	7,766	6,819	6,610	5,247
Worsted <sup>1</sup> .....	(?)	(?)	2,221	1,925
Combs.....	1,451	2,425	2,461	2,613
Spinning spindles, total.....	3,220,792	4,307,365	4,850,608	3,642,902
Woolen <sup>1</sup> .....	2,225,803	2,079,626	2,303,207	1,661,818
Worsted.....	994,899	2,227,739	2,547,401	1,981,084
Twisting spindles, total <sup>1</sup> .....	442,672	876,783	917,146	798,220
Woolen.....	98,252	91,792	95,778	144,030
Worsted.....	344,420	784,991	821,368	654,190
Looms, except carpet and rug <sup>2</sup> .....	63,294	76,789	60,554	48,210
Carpet and rug looms.....	9,796	9,821	10,267	6,557

<sup>1</sup> Data for 1899, 1914, and 1929 include estimates to provide for these machines in knitting mills. 1929 data also include estimates on number of woolen spinning spindles and worsted cards in knitting mills.

<sup>2</sup> Data not available.

<sup>3</sup> 1943 and other years not strictly comparable. Census of Manufactures for 1899, 1914, and 1929 called for a report on looms from those mills whose principal products were wool and hair goods while 1943 inquiry covered all mills consuming weaving yarns spun on woolen or worsted spinning spindles. Includes pile fabric looms conforming with these definitions.

Source: Department of Commerce, Bureau of the Census; 1943 data published in Facts for Industry Series M15H.

## No. 937.—WOOL MANUFACTURING EQUIPMENT IN PLACE, BY REGION AND STATE: 1943

[Machinery in place is that which is set up in operating position]

REGION AND STATE	Worsted combs	Woolen spinning spindles	Worsted spinning spindles	Woolen and worsted looms	WOOL CARPET AND RUG LOOMS	
					Broad	Narrow
<b>United States</b> .....	<b>2,582</b>	<b>1,653,550</b>	<b>1,957,593</b>	<b>42,213</b>	<b>2,422</b>	<b>3,488</b>
New England.....	1,804	855,471	1,390,135	25,699	340	669
Connecticut.....	(1)	127,664	15,192	2,588	(1)	(1)
Maine.....	(1)	152,943	96,312	3,466	-----	(1)
Massachusetts.....	1,141	336,318	698,331	10,781	(1)	(2)
New Hampshire.....	(1)	122,071	62,864	2,610	-----	-----
Rhode Island.....	560	74,962	497,050	5,336	-----	-----
Vermont.....	-----	42,113	20,336	918	-----	-----
Middle Atlantic.....	672	414,504	454,330	9,548	1,886	2,577
New Jersey.....	405	66,965	156,434	2,597	193	291
New York.....	61	206,966	82,144	2,371	1,216	1,278
Pennsylvania.....	206	140,573	215,752	4,580	477	1,008
Southern <sup>3</sup> .....	-----	192,654	58,312	3,557	196	242
North Central <sup>3</sup> .....	106	160,245	43,436	2,658	-----	-----
Western <sup>4</sup> .....	-----	30,676	11,350	751	-----	-----

<sup>1</sup> Not shown separately to avoid disclosing information for individual establishments.

<sup>2</sup> Ala., Del., Ga., Ky., N. C., S. C., Tenn., Texas, Va., W. Va., Md., and Okla.

<sup>3</sup> Ill., Ind., Iowa, Mich., Minn., Mo., Ohio, and Wis.

<sup>4</sup> Calif., Oreg., Utah, Wash., and Wyo.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M15H.

## No. 938.—COTTON MANUFACTURES—PRODUCTION BY KIND: 1939 TO 1946

[Data for 1941-46 collected to meet requirements of war agencies; not strictly comparable with Census of Manufactures for 1939. 1946 data preliminary]

[In thousands of linear yards]

PRODUCT	1939 <sup>1</sup>	1941	1943	1944	1945	1946
<b>Cotton woven goods over 12 inches in width, except tire fabrics, total<sup>2</sup>.....</b>	<b>8,287,249</b>	<b>10,431,979</b>	<b>10,573,294</b>	<b>9,546,722</b>	<b>8,720,550</b>	<b>9,111,002</b>
Cotton duck.....	173,979	338,063	550,472	431,924	436,513	234,456
Narrow sheeting and allied coarse and medium yarn fabrics.....	1,585,034	2,110,024	2,869,511	2,467,486	2,234,890	2,190,678
Print-cloth yarn fabrics.....	2,999,356	3,530,336	3,298,124	3,078,126	2,810,429	2,880,806
Napped fabrics, total.....	451,412	535,133	446,781	440,040	418,769	450,586
Flannel, moleskin and duvetyn <sup>3</sup> .....	313,346	316,745	308,348	289,003	282,120	294,513
Blankets, except crib, total <sup>4</sup> .....	74,774	101,940	63,195	54,667	41,697	43,411
All-cotton, total.....	58,407	82,301	49,323	43,825	36,390	37,924
Not jacquard.....	45,452	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Jacquard.....	12,955	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Part-wool (blankets, except all-cotton, containing less than 25 percent, by weight, of wool or similar fibers)—jacquard and not jacquard <sup>6</sup> .....	16,367	19,639	13,872	10,842	5,307	5,487
Crib blankets, all cotton.....	10,750	( <sup>7</sup> )	11,795	14,150	16,637	20,635
Crib blankets, all fibers.....	( <sup>8</sup> )	( <sup>9</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )
Blanketing (made for sale as piece goods), all cotton.....	5,507	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )
Other napped fabrics.....	47,035	116,448	63,443	82,220	78,315	92,027
Colored yarn cotton goods and related fabrics.....	633,659	909,699	696,471	662,554	517,831	616,773
Fine cotton-goods (all combed or part-combed cotton fabrics, including fabrics having rayon or other synthetic fiber or silk decorations and fine carded goods).....	1,036,206	1,270,113	1,335,739	1,209,250	1,142,801	1,272,273
Towels, toweling, washcloths, and terry-woven fabrics other than towels.....	482,641	531,405	416,695	342,578	352,632	413,217
Wide cotton fabrics.....	557,475	679,329	586,351	534,394	493,425	562,020
Specialties and all other fabrics.....	317,487	527,877	373,150	380,370	313,759	490,193

<sup>1</sup> Data collected in 1939 Census were published in square yards, although the major fabric classifications included data in terms of linear yards.

<sup>2</sup> In the gray except blankets and blanketings. All figures for 1941-46 represent goods in the gray.

<sup>3</sup> Includes outing and interlining flannels, canton flannels, moleskin (heavy-filling sateens), duvetyns and suede.

<sup>4</sup> Data for interlining flannels, workshirt flannels, moleskins and suede included with all other napped fabrics.

<sup>5</sup> For production of wool-and-cotton mixed blankets and blanketing containing 25 to 98 percent wool, see table 942.

<sup>6</sup> 1939 data are for finished fabrics. 1941-46 are for goods in the gray.

<sup>7</sup> Includes a small quantity of cotton and rayon blankets. <sup>8</sup> Data not available. <sup>9</sup> Includes blanketing.

<sup>10</sup> Data for crib blankets not collected separately. Included with other blankets according to fiber content.

<sup>11</sup> Includes fabrics containing 51 percent or more cotton by weight, balance rayon.

Source: Department of Commerce, Bureau of the Census; 1939 from Biennial Census of Manufactures; 1941-46 compiled from manufacturers' reports to War Production Board and Civilian Production Administration and published in Facts for Industry Series 32-2.

No. 939.—COTTON AND RAYON WOVEN GOODS, BLEACHED, DYED OR PRINTED:  
1939 TO 1946

[Data cover bleaching, dyeing, and printing of cotton and rayon woven textiles. Data for 1941-46 collected to meet requirements of war agencies, not strictly comparable with Census of Manufactures for 1939]

[In thousands of linear yards]

PRODUCT	1939 <sup>1</sup>	1941	1943	1945	1946 (prel.)
<b>Bleached, dyed or printed goods, total</b> .....	6,302,775	(2)	9,034,432	8,018,473	8,658,360
Cotton.....	5,950,065	6,519,520	7,403,108	6,448,112	6,941,348
Rayon <sup>2</sup> .....	1,252,710	(2)	1,631,324	1,570,361	1,717,012
<b>Bleached and white finished goods, total</b> .....	<sup>4</sup> 2,174,352	(2)	3,900,383	3,354,832	3,579,090
Cotton.....	2,174,352	3,054,821	3,681,604	3,151,186	3,380,226
Rayon <sup>2</sup> .....	(2)	(2)	218,779	203,646	198,864
<b>Plain dyed and finished goods, total</b> .....	<sup>4</sup> 2,404,894	(2)	3,533,410	3,180,052	3,039,957
Cotton.....	1,431,938	2,112,435	2,479,416	2,127,721	1,883,361
Rayon <sup>2</sup> .....	<sup>4</sup> 972,956	(2)	1,053,994	1,052,361	1,156,596
<b>Printed and finished goods, total</b> <sup>5</sup> .....	1,723,529	(2)	1,600,639	1,483,559	2,039,313
Cotton.....	1,443,775	1,352,264	1,242,088	1,169,205	1,677,761
Rayon <sup>2</sup> .....	279,754	(2)	358,551	314,354	361,552

<sup>1</sup> Cotton fabric data for 1939 include cotton, linen and cotton-warp mixtures. Rayon fabric data include rayon and silk, including mixtures.

<sup>2</sup> Complete data for finishing rayon fabrics in 1941 are not available.

<sup>3</sup> Rayon fabrics are defined as fabrics containing 51 percent or more rayon by weight. Rayon means synthetic yarns made by viscose, cuprammonium and cellulose acetate processes. An unknown quantity of fabrics made from nylon and other synthetic fibers are also included in the rayon yardage.

<sup>4</sup> White finished rayon goods are included with rayon dyed goods.

<sup>5</sup> Includes roller, screen, flock and block printed fabrics.

Source: Department of Commerce, Bureau of Census; 1939 from Biennial Census of Manufactures; 1941-46, compiled from manufacturers' reports to War Production Board and Civilian Production Administration and published in Facts for Industry Series M15G.

No. 940.—PYROXYLIN SPREAD, SHIPMENTS BY TYPE OF GOODS, AND CAPACITY:  
1935 TO 1946

[Based on monthly figures of processors who coat or impregnate fabrics or paper (except shade cloth) with soluble cotton or pyroxylin preparations, either separately or in combination with other materials. "Light" cotton fabrics include sheetings and print cloths; "Heavy" cotton fabrics include drills, ducks, sateens, broken twills, and moleskins]

[Quantity and value figures in thousands]

YEARLY AVERAGE OR YEAR	Number of establishments	Pyroxylin spread (pounds)	SHIPMENTS								Capacity (linear yards) <sup>1</sup>
			Light cotton fabrics		Heavy cotton fabrics		Custom coating		Nonfabric material		
			Linear yards	Value	Linear yards	Value	Linear yards	Value	Linear yards	Value	
1935-39.....	21	58,851	33,828	\$8,114	22,132	\$11,865	(2)	(2)	-----	-----	87,851
1940.....	21	59,656	33,986	7,932	26,652	13,117	(2)	(2)	-----	-----	87,611
1941.....	21	82,331	48,112	12,450	39,945	20,420	(2)	(2)	-----	-----	87,443
1942.....	21	58,306	37,335	11,510	28,297	16,426	(2)	(2)	-----	-----	87,615
1943.....	21	49,444	34,311	8,186	25,464	15,577	(2)	(2)	-----	-----	94,415
1944.....	21	54,882	38,759	12,434	26,747	15,496	(2)	(2)	-----	-----	97,759
1945.....	29	59,941	34,532	11,355	17,453	11,825	<sup>3</sup> 22,532	<sup>3</sup> \$4,928	<sup>4</sup> 2,378	<sup>4</sup> \$592	<sup>5</sup> 185,526
1946.....	28	79,209	48,336	19,862	27,554	21,303	<sup>3</sup> 23,692	<sup>3</sup> 6,508	<sup>4</sup> 4,762	<sup>4</sup> 1,716	<sup>5</sup> 202,724

<sup>1</sup> Based on maximum quantity of 1.27 to 1.30 sateen coated to a finished weight of 17½ ounces per linear yard, in a month of 350 working hours.

<sup>2</sup> Data for "Custom coating" included with "Light cotton fabrics" and "Heavy cotton fabrics."

<sup>3</sup> Data for "Fabrics other than cotton" included with "Custom coating" to avoid disclosing data for individual establishments.

<sup>4</sup> Data not collected prior to January 1945.

<sup>5</sup> Based on all machines suitable for pyroxylin coating, assuming 600 working hours per month and entire production on 53"—1.32 sateen coated to a finished weight of 17½ ounces per linear yard assuming 40 percent solids. No comparative data available from 1935 to 1944.

Source: Department of Commerce, Bureau of the Census; annual summary of monthly reports on pyroxylin-coated fabrics and paper, Facts for Industry Series M15F.

No. 941.—RAYON BROAD WOVEN FABRICS—PRODUCTION, BY TYPE: JULY 1943 TO DECEMBER 1946

[Data cover production of rayon broad woven fabrics containing by weight 51 percent or more rayon. Fabrics reported are either 100 percent rayon or rayon mixtures containing 51 percent or more rayon with addition of cotton or other fibers. However, if wool fibers are added to extent of 25 percent or more, they are classed as woolen mixtures and are not included with fabrics listed. After Census of Manufactures for 1939, detailed data for this industry were not collected until 1943. These data were collected to meet requirements of war agencies and are not comparable with Census of Manufactures data]

[In thousands of linear yards]

PRODUCT	July-Dec. 1943	1944	1945	1946 (prel.)
<b>Rayon broad woven fabrics, total</b> 1.....	<b>807, 631</b>	<b>1, 602, 633</b>	<b>1, 552, 105</b>	<b>1, 710, 603</b>
<b>100 percent filament rayon fabrics, total</b> .....	<b>566, 574</b>	<b>1, 103, 210</b>	<b>1, 028, 708</b>	<b>1, 047, 143</b>
Flat fabrics, total.....	358, 178	668, 398	590, 655	553, 854
Bright viscose taffetas.....	26, 893	48, 724	44, 266	45, 865
Pigment viscose taffetas.....	43, 512	81, 482	76, 349	76, 638
Acetate taffetas.....	38, 506	86, 446	85, 721	77, 685
Cross-dyed taffetas.....	9, 359	21, 113	21, 800	23, 180
Rayon parachute fabrics.....	70, 967	76, 173	62, 023	(2)
Jersey weaves.....	(2)	5, 364	5, 998	9, 891
Sand weaves.....	(2)	15, 959	15, 287	(2)
Sharkskins.....	(2)	(2)	(2)	9, 261
Twills and serges.....	61, 211	137, 462	104, 487	126, 235
Viscose satins.....	4, 946	17, 758	16, 875	16, 139
Acetate satins.....	64, 644	119, 332	113, 167	114, 621
All other flat fabrics.....	38, 140	48, 585	53, 702	51, 339
Twisted yarn fabrics, total.....	208, 396	444, 812	429, 053	493, 289
Crepe satins.....	4, 944	19, 382	21, 029	25, 731
Flat crepes.....	34, 412	72, 246	30, 965	
Faille.....	(2)	(2)	31, 044	86, 843
Canton crepes.....	2, 511	8, 522	9, 823	
French crepes.....	38, 999	84, 708	84, 905	97, 554
Plied yarn fabrics, plain weave.....	78, 042	148, 197	135, 498	84, 223
Plied yarn fabrics, fancy weave.....				52, 874
Marquisettes.....	17, 882	39, 295	44, 237	55, 229
Ninons and voiles.....	17, 289	39, 338	38, 012	41, 580
Other sheers (georgettes, triple sheers, etc.).....	14, 317	33, 124	33, 595	37, 809
All other twisted yarn fabrics.....	(2)	(2)	(2)	11, 446
<b>100 percent spun rayon fabrics, total</b> .....	<b>80, 872</b>	<b>156, 141</b>	<b>161, 996</b>	<b>190, 891</b>
Twills (including serges, gabardines, etc.).....	35, 130	82, 505	76, 130	33, 888
Ribbed and corded fabrics (poplins, bedford cord, etc.).....				3, 325
Challis.....	3, 950			17, 410
Linen type flakes.....	7, 282	23, 766	25, 385	24, 115
Plied yarn fabrics.....	6, 667	17, 895	21, 409	48, 816
All other 100 percent spun rayon fabrics.....	27, 843	31, 975	39, 072	63, 337
<b>Combination filament and spun rayon fabrics, total</b> .....	<b>71, 662</b>	<b>154, 398</b>	<b>159, 100</b>	<b>172, 338</b>
Poplins and failles.....	(3)	38, 834	34, 323	62, 399
Shantung.....	13, 465	27, 897	23, 024	22, 112
Fujis.....	18, 667	47, 912	61, 137	64, 018
All other filament and spun rayon.....	39, 530	39, 815	40, 616	23, 809
<b>Pile, upholstery, drapery, tapestry, and tie fabrics, total</b> 4.....	<b>15, 571</b>	<b>29, 226</b>	<b>31, 842</b>	<b>46, 383</b>
Velvets, plushes and other pile fabrics.....	4, 084	8, 346	8, 134	9, 536
Upholstery, drapery, and tapestry fabrics.....	2, 925	4, 164	5, 042	16, 035
Yarn-dyed tie fabrics.....				14, 299
Non-yarn-dyed tie fabrics.....	8, 562	16, 727	18, 666	6, 513
<b>All other rayon mixtures, total</b> .....	<b>72, 952</b>	<b>159, 658</b>	<b>170, 459</b>	<b>253, 848</b>
Rayon and wool.....	11, 468	24, 921	27, 921	39, 229
Filament rayon and cotton.....				81, 851
Spun rayon and cotton.....	48, 337	96, 488	97, 621	83, 501
Rayon and other fibers.....	13, 147	38, 249	44, 917	49, 287
<b>Silk, nylon, glass, and other fabrics, total</b> 5.....	<b>40, 354</b>	<b>83, 920</b>	<b>67, 306</b>	<b>60, 940</b>
100 percent nylon fabrics.....	33, 395	64, 399	43, 332	20, 969
100 percent silk fabrics.....	1, 739	1, 650	1, 891	9, 307
Other woven fabrics, not classified above.....	5, 220	17, 871	22, 095	30, 664

1 Includes estimated production for a few mills not reporting; estimates distributed by fabric classification.

2 Included in "All other flat fabrics."

3 Included in "All other filament and spun rayon."

4 Fabrics containing 51 percent or more rayon by weight, without separation as to type of yarn used; includes filament rayon, spun rayon and mixtures of rayon and other fiber.

5 Includes fabrics made of casein, other synthetic fibers and mixtures of rayon and other fibers containing less than 51 percent of rayon.

Source: Department of Commerce, Bureau of the Census; compiled from manufacturers' reports to War Production Board and Civilian Production Administration and published in Facts for Industry Series 32-3.

No. 942.—WOOLEN AND WORSTED MANUFACTURES—PRODUCTION, BY KIND,  
1939 TO 1946

[Woolen and worsted woven goods defined as fabrics containing by weight 25 percent or more wool fiber. Wool fiber means fibers as defined by Wool Products Labeling Act of 1939. Data beginning with 1942 not strictly comparable with those published in Census of Manufactures for 1939. Detailed information on military fabrics required by war agencies, and in most cases, collected by type of fabric rather than by end use. Consultations with military agencies provided basis for estimating end use of each type of fabric. Estimates occurred primarily in men's wear fabrics, and involved less than 15 percent of total apparel fabrics produced. Production figures for women's and children's wear fabrics collected by weight of fabric instead of end use. In Census of Manufactures for 1939 data collected from this industry on a square-yard basis; present series requires reporting of linear yards, with narrow fabrics converted to a 54-inch width. 1939 data converted to a 54-inch linear yard measure by dividing quantity of square yards by 1½, excepting blankets which were converted to a 72-inch linear yard measure by dividing quantities of square yards by 2]

PRODUCT	1939	1942	1943	1944	1945	1946
	Thousands of linear yards <sup>1</sup>					
<b>Woven goods (except woven felt).....</b>	<b>371, 848</b>	<b>527, 736</b>	<b>536, 429</b>	<b>527, 995</b>	<b>493, 431</b>	<b>603, 521</b>
<b>Apparel fabrics <sup>2</sup>.....</b>	<b>321, 008</b>	<b>456, 787</b>	<b>440, 573</b>	<b>440, 680</b>	<b>401, 434</b>	<b>524, 044</b>
Men's wear.....	178, 856	277, 004	256, 769	217, 778	204, 191	227, 795
Men's wear suitings and pantings.....	149, 788	184, 263	166, 282	163, 735	151, 123	187, 962
Men's wear shirtings.....	1, 880	48, 629	46, 007	21, 194	25, 227	18, 445
Men's wear overcoatings and topcoatings.....	27, 188	44, 112	44, 480	32, 849	27, 841	21, 388
Women's and children's wear <sup>3</sup> .....	107, 080	107, 602	132, 097	170, 467	141, 443	234, 551
Weighing up to 8.9 ounces.....	( <sup>4</sup> )	( <sup>4</sup> )	23, 507	37, 123	21, 992	42, 807
Weighing 9-12.9 ounces.....	( <sup>4</sup> )	( <sup>4</sup> )	49, 805	76, 140	78, 151	127, 066
Weighing over 13 ounces.....	( <sup>4</sup> )	( <sup>4</sup> )	58, 785	57, 204	41, 300	64, 678
General use fabrics.....	25, 668	63, 394	44, 026	47, 064	48, 100	52, 256
Melton, mackinaw, snow and ski suit cloths.....	<sup>5</sup> 8, 892	12, 107	9, 705	15, 978	17, 278	17, 904
Linings and interlinings.....	6, 204	46, 032	27, 918	22, 358	23, 662	20, 834
Bathrobe flannels.....	10, 572	5, 255	6, 403	8, 728	7, 160	13, 518
Other apparel fabrics.....	9, 404	8, 787	7, 681	5, 371	7, 700	9, 442
<b>Nonapparel fabrics (except woven felts).....</b>	<b>50, 840</b>	<b>70, 949</b>	<b>95, 856</b>	<b>87, 315</b>	<b>91, 997</b>	<b>79, 477</b>
Blankets.....	19, 576	64, 096	89, 302	78, 887	80, 167	48, 749
98 percent or more wool or similar animal fibers.....	( <sup>4</sup> )	( <sup>4</sup> )	66, 303	52, 713	52, 894	18, 455
50 percent but less than 98 percent wool or similar animal fibers.....	( <sup>4</sup> )	( <sup>4</sup> )	6, 800	7, 381	7, 778	11, 074
25 percent but less than 50 percent wool or similar animal fibers.....	( <sup>4</sup> )	( <sup>4</sup> )	16, 199	18, 793	19, 495	19, 220
Upholstery fabrics.....	5, 688	1, 882	1, 904	4, 162	7, 817	28, 390
Bunting.....	( <sup>4</sup> )	2, 452	527	1, 499	( <sup>6</sup> )	( <sup>6</sup> )
Other nonapparel.....	25, 576	2, 519	4, 123	2, 767	4, 013	2, 320
	Thousands of pounds					
Papermakers' felts.....	5, 164	( <sup>7</sup> )	5, 074	5, 643	5, 819	6, 595
Other woven felts.....	1, 576	7 8, 024	3, 668	3, 655	3, 182	3, 291

<sup>1</sup> Measure used in 1939 was square yards; data converted to a 54-inch linear yard measure, excepting blankets which have been converted to a 72-inch linear yard measure. Data for 1942-46 on narrow fabrics converted by reporting companies to a 54-inch linear yard measure.

<sup>2</sup> Includes data for military fabrics reported by types. Estimates as to end use classification made on less than 15 percent of total quantity of apparel fabrics.

<sup>3</sup> Data for 1939 and for 1942 collected as to end use; 1943-46 data collected by weight of fabric.

<sup>4</sup> Data not available.

<sup>5</sup> An unknown quantity of these fabrics included in the women's and children's wear classifications.

<sup>6</sup> Included in other nonapparel fabric classification.

<sup>7</sup> Includes data for papermakers' felts not collected separately for 1942.

Source: Department of Commerce, Bureau of the Census; 1939 from Biennial Census of Manufactures; 1942-46 compiled from manufacturers' reports to War Production Board and Civilian Production Administration and published in Facts for Industry Series M15H.

No. 943.—KNIT GOODS: CLOTH, UNDERWEAR, AND OUTERWEAR—PRODUCTION, BY TYPE: 1943 TO 1946

PRODUCT	Unit	1943	1944	1945	1946
Knit cloth for sale, total <sup>1</sup> .....	Million pounds.....	113. 3	125. 9	130. 0	148. 1
Warp knit fabrics.....	do.....	22. 6	28. 6	28. 1	34. 3
Circular knit fabrics.....	do.....	90. 7	97. 3	101. 9	113. 8
Knit underwear: <sup>2</sup>					
Knit rayon underwear and night wear, total.....	Thousand dozens....	12, 923. 7	14, 981. 6	15, 235. 7	16, 144. 7
Made from circular knit tubing.....	do.....	9, 528. 7	11, 155. 6	10, 725. 4	10, 675. 7
Made from warp knit fabric.....	do.....	3, 395. 0	3, 826. 0	4, 510. 3	5, 469. 0
Knit cotton and wool underwear, total.....	do.....	36, 964. 0	37, 496. 7	38, 231. 9	37, 687. 6
Union suits.....	do.....	3, 575. 9	3, 329. 1	2, 634. 3	3, 131. 3
Undershirts.....	do.....	do	13, 286. 5	13, 456. 8	10, 811. 5
Drawers.....	do.....	19, 757. 3	2, 396. 9	1, 894. 3	1, 166. 5
Shirts, briefs, vests, and panties.....	do.....	13, 630. 8	18, 484. 2	20, 246. 5	22, 678. 3
Knit outerwear: <sup>3</sup>					
Sweaters, jackets, and jerseys.....	do.....	do	8, 809	8, 773	9, 285
Bathing suits and trunks.....	do.....	do	895	779	901
Knit headwear and neckwear.....	do.....	do	2, 534	2, 523	2, 378

<sup>1</sup> Data account for practically entire production.

<sup>2</sup> Data account for approximately 90 percent of total production.

<sup>3</sup> Data account for approximately 93 percent of total production. 1943 data not available.

Source: Dept. of Commerce, Bureau of Census; published in Facts for Industry Series M15K, M67C, and M67G.

No. 944.—WOMEN'S AND CHILDREN'S CLOTHING—PRODUCTION, BY TYPE: 1943, 1944, AND 1946

[No data available for 1945]

TYPE OF GARMENT	Unit	1943 <sup>1</sup>	1944 <sup>1</sup>	1946 <sup>2</sup>
Women's and misses' blouses.....	Thousand dozens.....	6, 734	6, 328	6, 067
Women's and misses' unit price dresses.....	Thousand units.....	139, 409	135, 225	132, 899
Women's and misses' dozen price dresses.....	Thousand dozens.....	7, 889	6, 879	6, 491
Women's and misses' suits.....	Thousand units.....	13, 041	13, 340	17, 240
Women's and misses' skirts.....	Thousand dozens.....	2, 428	1, 841	1, 771
Women's and misses' untrimmed coats.....	Thousand units.....	21, 670	20, 310	20, 012
Women's and misses' fur-trimmed coats.....	do.....	3, 431	2, 387	1, 673
Women's and misses' slips and petticoats.....	Thousand dozens.....	9, 088	8, 009	9, 390
Women's and misses' raincoats.....	do.....	( <sup>3</sup> )	250	297
Corsets and allied garments.....	do.....	5, 375	9, 005	( <sup>3</sup> )
Children's dresses.....	Thousand units.....	70, 695	70, 943	( <sup>3</sup> )
Children's coats.....	do.....	9, 507	13, 294	( <sup>3</sup> )
Other children's outerwear.....	Thousand dozens.....	5, 547	6, 719	( <sup>3</sup> )

<sup>1</sup> Includes estimates for firms (excused from filing during 1943 and 1944) with 1943 sales of less than \$150,000.

<sup>2</sup> Preliminary. <sup>3</sup> No data available.

Source: Dept. of Commerce, Bureau of Census; published in Facts for Industry Series M67H, M67J, and M67K.

No. 945.—MEN'S AND BOYS' CLOTHING—SELECTED GARMENTS CUT: 1937, 1939, AND 1946

[Leaders indicate comparable data not available]

TYPE OF GARMENT	Unit	1937	1939	1946
Suits.....	Thousand units.....	23, 743	27, 354	27, 053
Men's and youths' <sup>1</sup> .....	do.....	20, 733	24, 737	24, 078
Boys'.....	do.....	3, 010	2, 617	2, 975
Separate trousers, wool.....	do.....	do	do	31, 102
Men's and youths' <sup>1</sup> .....	do.....	do	do	25, 681
Boys'.....	do.....	do	do	5, 421
Separate coats.....	do.....	do	do	8, 033
Men's and youths' <sup>1</sup> .....	do.....	do	do	6, 977
Boys'.....	do.....	do	do	1, 056
Overcoats and topcoats.....	do.....	do	do	8, 289
Men's and youths' <sup>1</sup> .....	do.....	6, 169	5, 644	8, 086
Boys'.....	do.....	do	do	203
Dress and sport shirts.....	Thousand dozens.....	14, 251	15, 361	16, 061
Men's and youths' <sup>1</sup> .....	do.....	12, 027	13, 362	13, 878
Boys'.....	do.....	2, 224	1, 999	2, 183
Separate trousers, cotton and rayon.....	Thousand units.....	do	do	37, 012
Men's and youths' <sup>1</sup> .....	do.....	do	do	24, 005
Boys'.....	do.....	do	do	13, 007
Overalls.....	Thousand dozens.....	4, 114	3, 973	5, 616
Men's and youths' <sup>1</sup> .....	do.....	do	do	3, 219
Boys'.....	do.....	do	do	2, 397
Work shirts (includes flannel).....	do.....	6, 062	6, 850	7, 145
Men's and youths' <sup>1</sup> .....	do.....	do	do	6, 359
Boys'.....	do.....	do	do	786

<sup>1</sup> Includes polo, tennis, and basque shirts of knitted fabrics.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M67B.

## No. 946.—HOSIERY—PRODUCTION, BY TYPE: 1941 TO 1946

[In thousands of dozens of pairs]

TYPE	1941	1942	1943	1944	1945	1946
<b>Total, all types</b> .....	<b>149,968</b>	<b>147,902</b>	<b>149,282</b>	<b>141,435</b>	<b>135,841</b>	<b>157,383</b>
Women's full-fashioned, total.....	41,819	35,082	37,998	36,595	34,740	40,323
All-silk.....	18,901	379	12	1	(1)	1,602
Silk leg, with cotton or rayon welt.....	11,544	2,940	45	6		387
All-nylon.....	6,999	798	4		2,697	23,319
Nylon leg, with cotton or rayon welt.....	2,106	2,785	17	2	359	3,078
All-rayon.....	1,472	25,167	27,126	25,991	24,061	7,575
Rayon leg, with cotton welt.....			8,357	10,301	7,353	3,826
Cotton.....	428	2,474	1,814	210	162	347
All other yarns, and mixtures.....	368	540	622	83	78	189
Seamless, total (incl. men's full-fashioned).....	108,150	112,820	111,284	104,840	101,100	117,060
Women's seamless.....	15,655	15,192	13,043	9,462	7,420	9,832
Men's full-fashioned.....	91	102	62	99	118	171
Men's seamless half-hose.....	36,998	38,040	36,766	36,204	35,030	26,734
Silk.....	608	92	36	1		69
Nylon.....	148	118	1		6	230
Rayon.....	14,823	14,954	10,752	9,124	8,180	8,566
Cotton.....	17,937	19,889	18,755	15,914	14,875	13,182
Wool.....	3,372	3,568	7,222	11,165	11,969	4,687
Men's slack socks.....	12,917	14,392	15,724	12,608	13,564	25,413
Cotton bundle goods.....	5,154	5,803	5,693	5,902	5,248	5,216
Woolen bundle goods.....	2,392	2,482	3,083	3,267	3,704	2,104
Athletic socks.....	1,073	1,057	1,164	1,192	847	2,302
Children's and infants'.....	6,906	6,117	4,546	5,224	6,281	8,150
Anklets, total.....	26,958	29,636	31,202	30,882	28,888	37,138
Misses' and women's.....	17,648	20,365	22,015	20,637	18,816	25,012
Men's and boys'.....	2,144	1,498	1,797	1,052	1,986	3,015
Infants'.....	7,166	7,773	6,790	8,294	8,086	9,111

<sup>1</sup> Less than 500 dozens.

Source: National Association of Hosiery Manufacturers, New York, New York; published annually in Hosiery Statistics.

## No. 947.—SHOES AND SLIPPERS (OTHER THAN RUBBER)—PRODUCTION BY CLASS: 1914 TO 1946

[In thousands of pairs. Data for 1925 and subsequent years compiled from monthly reports of manufacturers representing almost entire production in U. S. 1946 data preliminary]

CLASS	1914	1919	1925	1930	1935	1940	1942	1945	1946
<b>Total</b> .....	<b>292,666</b>	<b>331,225</b>	<b>323,553</b>	<b>304,170</b>	<b>383,761</b>	<b>404,151</b>	<b>483,870</b>	<b>486,226</b>	<b>528,960</b>
Leather uppers:									
Men's <sup>1</sup> .....	98,031	95,017	86,546	77,147	99,525	102,383	142,975	107,742	106,044
Youths' and boys'.....	22,896	26,504	21,021	18,530	17,847	15,276	17,107	14,237	20,515
Women's.....	80,916	104,813	104,782	112,629	145,231	151,944	181,685	120,150	181,321
Misses'.....								21,836	25,999
Children's.....	48,322	48,538	38,691	32,037	37,276	40,750	41,285	20,172	25,141
Infants'.....	15,477	16,669	24,587	18,558	21,167	21,750	25,657	30,848	34,731
Athletic <sup>1</sup> .....	(2)	586	5,914	1,728	1,961	4,454	5,793	2,808	5,954
Part-leather.....	(3)	(3)	(3)	(2)	2,891	9,482	11,387	5,599	15,597
Non-leather <sup>4</sup> .....	(2)	11,056	8,564	2,593	3,671	6,395	4,715	91,867	45,901
Slippers <sup>5</sup> .....	(2)	23,899	34,994	42,055	46,387	43,326	68,008	65,357	65,357
All other footwear.....	27,024	28,042	9,549	5,964	12,138	5,331	9,940	3,459	2,610

<sup>1</sup> Figures beginning with 1930 not strictly comparable with earlier years owing to fact that large quantities of heavy footwear now included with men's shoes were included with "Athletic" prior to 1927. Men's shoes include Government shoes beginning with 1941.<sup>2</sup> Not reported separately; included with "all other."<sup>3</sup> Not reported separately; included with various classes of boots and shoes.<sup>4</sup> Includes footwear with fabric uppers and rubber soles made on conventional shoe machinery.<sup>5</sup> Includes slippers and moccasins (all leather and part leather, felt, etc.) for house wear.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M68A.

No. 948.—PRINTING AND PUBLISHING—RECEIPTS AND CIRCULATION: 1929 TO 1939

CLASS	VALUE (THOUSANDS OF DOLLARS)		
	1929	1937	1939
Aggregate value and receipts <sup>1</sup> .....	2,676,262	2,173,062	2,149,603
Newspapers and periodicals, printed and published or published only.....	1,580,565	1,269,524	1,254,715
Newspapers.....	1,073,119	861,689	845,687
Subscriptions and sales.....	275,781	287,508	306,192
Advertising.....	797,338	574,180	539,495
Periodicals.....	507,445	407,835	409,027
Subscriptions and sales.....	184,545	171,961	184,672
Advertising.....	322,900	235,874	224,455
Books <sup>1</sup> .....	243,867	230,799	239,987
Printed and published or published only.....	185,870	159,868	149,380
Printed for publication by others <sup>1,2</sup> .....	57,998	70,871	90,607
Pamphlets, printed and published or published only.....	13,145	8,389	15,000
Maps, atlases and globe covers <sup>1</sup> .....	(3)	8,283	8,262
Printed and published or published only.....	(3)	6,495	4,964
Made for others <sup>1</sup> .....	(3)	1,788	3,298
Greeting cards <sup>1</sup> .....	(4)	32,637	44,286
Printed and published or published only.....	(3)	(3)	28,314
Printed for others <sup>1</sup> .....	(3)	(3)	15,972
Souvenir cards.....	(4)	(5)	1,412
Newspapers and periodicals printed for others <sup>1</sup> .....	71,521	31,772	87,852
Labels, tags, and seals <sup>3</sup> .....	7,384	51,874	53,085
Other commercial printing.....	759,781	487,399	442,810
Manifolding done in printing establishments.....	(3)	2,446	2,186

CLASS	AGGREGATE CIRCULATION PER ISSUE (AVERAGE FOR THE YEAR)					
	1929	1931	1933	1935	1937	1939
Newspapers:						
Daily:						
Morning.....	15,741,769	15,480,287	14,781,657	15,983,996	17,311,078	17,152,208
Evening.....	26,273,692	25,813,372	22,848,688	24,886,550	26,033,858	25,813,827
Sunday.....	29,011,648	27,453,465	26,453,894	29,196,006	32,713,298	33,006,875
Triweekly.....	287,162	184,380	140,497	120,601	231,365	219,121
Semiweekly.....	1,580,221	1,352,720	1,026,567	1,723,630	1,719,820	1,989,744
Weekly.....	18,883,551	16,173,234	12,048,317	15,185,366	17,286,731	18,294,604
Periodicals:						
Daily.....	932,363	830,992	793,936	681,697	790,722	1,979,417
Triweekly.....	24,625	31,314	25,206	22,327	32,978	27,152
Semiweekly.....	1,401,963	1,284,406	1,810,522	2,129,010	2,556,002	2,994,810
Weekly.....	34,494,799	30,781,548	39,865,192	42,648,210	56,115,124	55,825,296
Semimonthly.....	9,168,458	6,375,456	4,692,507	5,507,919	7,547,644	8,135,260
Monthly.....	133,048,488	122,070,528	103,192,794	102,193,740	124,520,846	134,766,467
Quarterly.....	20,605,002	19,575,617	23,237,557	23,277,089	25,808,324	26,238,181
Other classes.....	2,345,897	1,977,550	1,741,779	2,160,680	6,903,152	9,725,925

<sup>1</sup> The inclusion of "Books and pamphlets printed for publication by others," "Maps, atlases and globe covers made for others," "Greeting cards printed for others," "Newspapers and periodicals printed for publication by others," etc. results in duplication in the aggregate value and receipts, as follows: 1937, \$158,466,000; 1939, \$201,627,000. (No separate data available for greeting cards for 1937.) These amounts represent receipts by commercial printers for work done by them for other printers or for publishers, and consequently enter twice into the aggregate value and receipts.

<sup>2</sup> Includes "Pamphlets printed for publication by others."

<sup>3</sup> No data.

<sup>4</sup> Included with "Other commercial printing."

<sup>5</sup> Included with "Greeting cards."

<sup>6</sup> In addition, labels, tags, and seals were produced by methods other than letterpress, as follows: 1937, \$25,693,000; 1939, \$29,944,000. 1929 figures are not available.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 949.—CHEMICALS—PRODUCTION, BY KIND, 1939 to 1946

[Data for chemicals shown are restricted to a selected group comprised for the most part of inorganic chemicals and related products which are sufficiently important economically to justify publication. Data for production by Government-owned arsenals, ordnance works, and certain plants operated for Government by private industry are excluded, except that data for chemicals manufactured by Tennessee Valley Authority are included]

CHEMICAL AND BASIS	Unit	1939	1941	1943	1945	1946
Ammonia, synthetic anhydrous.....	Short tons..	310,822	501,271	<sup>1</sup> 543,380	<sup>1</sup> 548,655	<sup>1</sup> 725,537
Ammonium nitrate, original solution (100%NH <sub>4</sub> NO <sub>3</sub> ).....	do.....	( <sup>2</sup> )		383,358	421,487	724,899
Ammonium sulfate, synthetic (technical) <sup>3</sup> .....	M pounds..	( <sup>2</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	177,726	313,306
Calcium arsenate (100%Ca <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> ).....	do.....	<sup>5</sup> 41,349	56,136	74,854	( <sup>4</sup> )	35,392
Calcium carbide (commercial).....	Short tons..	( <sup>2</sup> )	370,294	659,021	672,568	570,138
Calcium phosphate:						
Monobasic (100%CaH <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> ).....	M pounds..	74,076	<sup>6</sup> 71,508	70,298	62,726	74,986
Dibasic (100%CaHPO <sub>4</sub> ).....	do.....	( <sup>2</sup> )		36,949	58,931	71,587
Carbon, activated <sup>6</sup> .....	do.....	32,336		<sup>7</sup> 69,249	62,577	65,102
Carbon dioxide:						
Liquid and gas.....	do.....	( <sup>2</sup> )	160,267	206,426	236,084	217,241
Solid (dry ice).....	do.....	356,894	437,754	563,812	659,169	644,609
Chlorine, gas.....	Short tons..	514,401	800,833	1,214,416	1,192,081	1,165,126
Chrome green (C. P.).....	M pounds..	10,029	<sup>7</sup> 11,885	<sup>7</sup> 8,351	9,068	17,871
Chrome yellow and orange (C. P.).....	do.....	<sup>8</sup> 38,933	47,903	38,338	<sup>9</sup> 44,080	43,122
Copper acetoarsenite (Paris green).....	do.....	( <sup>2</sup> )		3,888	( <sup>1</sup> )	
Hydrochloric acid (100%HCl).....	Short tons..	123,831	227,686	342,475	407,551	341,580
Hydrofluoric acid, anhydrous and technical (100%H <sub>2</sub> F <sub>2</sub> ).....	M pounds..	14,842		45,438	86,377	42,921
Hydrogen.....	Mil. cu. ft....	( <sup>2</sup> )	15,882	22,976	22,247	17,605
Lead arsenate (acid and basic).....	M pounds..	59,569	75,912	73,955	70,522	56,667
Methanol (natural) (100%CH <sub>3</sub> OH).....	M gallons...	4,005	4,820	3,881	2,814	2,306
Molybdate chrome orange (C. P.).....	M pounds..	( <sup>2</sup> )		1,752	2,280	4,896
Nitric acid (100%HNO <sub>3</sub> ).....	Short tons..	167,740	346,977	483,197	447,088	573,827
Oxygen.....	Mil. cu. ft....	( <sup>2</sup> )	8,682	16,530	13,943	10,868
Phosphoric acid:						
Total (50%H <sub>3</sub> PO <sub>4</sub> ).....	Short tons..	( <sup>2</sup> )	662,659	636,847	730,943	894,615
From phosphorus (50%H <sub>3</sub> PO <sub>4</sub> ).....	do.....	( <sup>2</sup> )	299,542	285,527	364,850	440,056
From phosphate rock (50%H <sub>3</sub> PO <sub>4</sub> ).....	do.....	( <sup>2</sup> )	363,117	351,320	366,093	454,559
Silica gel, desiccant and aviation gas catalyst grades.....	M pounds..			47,091	133,973	49,632
Silver nitrate (100%AgNO <sub>3</sub> ).....	M ounces...	( <sup>2</sup> )	<sup>10</sup> 35,872	47,351	57,812	47,857
Soda ash (commercial sodium carbonate):						
Ammonia soda process.....						
Total wet and dry (98-100%Na <sub>2</sub> CO <sub>3</sub> ) <sup>11</sup> .....	Short tons..	2,826,000	3,606,826	4,407,600	4,375,017	4,284,231
Finished light (98-100%Na <sub>2</sub> CO <sub>3</sub> ) <sup>12</sup> .....	do.....			2,305,776	2,285,532	2,079,959
Finished dense (98-100%Na <sub>2</sub> CO <sub>3</sub> ).....	do.....			1,387,952	1,444,022	1,546,746
Natural (Na <sub>2</sub> CO <sub>3</sub> equivalent) <sup>13</sup> .....	do.....	121,898	117,674	163,523	181,733	209,411
Sodium bicarbonate (refined) (100%NaHCO <sub>3</sub> ).....	do.....	<sup>7</sup> 150,913	169,446	172,998	174,949	188,945
Sodium bichromate and chromate.....	do.....	58,164	83,415	81,963	80,672	85,490
Sodium hydroxide (caustic soda): <sup>14</sup>						
Electrolytic process.....						
Liquid (100%NaOH).....	do.....	512,492	743,219	1,115,200	1,129,312	1,129,956
Solid (100%NaOH).....	do.....			228,749	213,449	192,952
Lime-soda process.....						
Liquid (100%NaOH).....	do.....	532,914	685,994	663,492	734,993	742,932
Solid (100%NaOH).....	do.....			241,624	244,015	226,849
Sodium phosphate:						
Monobasic (100%NaH <sub>2</sub> PO <sub>4</sub> ).....	do.....	( <sup>2</sup> )	7,161	10,885	14,783	11,961
Dibasic (100%Na <sub>2</sub> HPO <sub>4</sub> ).....	do.....	32,382	22,519	45,899	62,673	59,328
Tribasic (100%Na <sub>3</sub> PO <sub>4</sub> ).....	do.....	116,731	86,315	72,632	88,731	94,953
Meta (100%NaPO <sub>3</sub> ).....	do.....	( <sup>2</sup> )	13,132	18,019	27,925	26,088
Tetra (100%Na <sub>4</sub> P <sub>3</sub> O <sub>7</sub> ).....	do.....	48,691	49,288	30,037	43,447	52,149
Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous).....	do.....	( <sup>2</sup> )	386,189	361,863	410,686	412,857
Sodium sulfate:						
Anhydrous (refined) (100%Na <sub>2</sub> SO <sub>4</sub> ).....	do.....	( <sup>2</sup> )	56,922	76,608	91,340	122,573
Glauber's salt (100%Na <sub>2</sub> SO <sub>4</sub> · 10H <sub>2</sub> O) <sup>15</sup> .....	do.....	( <sup>2</sup> )	164,067	212,067	200,732	167,153
Salt cake (crude) (commercial) <sup>15</sup> .....	do.....	( <sup>2</sup> )	531,488	564,941	543,371	527,746

For footnotes, see next page.

No. 949.—CHEMICALS—PRODUCTION, BY KIND, 1939 TO 1946—Continued

CHEMICALS AND BASIS	Unit	1939	1941	1943	1945	1946
Sulfuric acid:						
Gross (100% H <sub>2</sub> SO <sub>4</sub> ) <sup>15</sup> .....	Short tons.....	4, 795, 003	6, 770, 084	8, 442, 145	9, 522, 136	9, 202, 959
Chamber process (100% H <sub>2</sub> SO <sub>4</sub> ).....	do.....	2, 120, 963	3, 011, 929	3, 147, 590	3, 169, 197	3, 004, 680
Contact process (gross) (100% H <sub>2</sub> SO <sub>4</sub> ) <sup>15</sup> .....	do.....	2, 674, 040	3, 758, 155	5, 294, 555	6, 352, 939	6, 198, 279
Contact process (new) (100% H <sub>2</sub> SO <sub>4</sub> ) <sup>15</sup> .....	do.....	-----	-----	4, 703, 193	5, 517, 873	5, 653, 875
Fortified spent acid (100% H <sub>2</sub> SO <sub>4</sub> ).....	do.....	-----	-----	591, 322	835, 066	544, 404
Zinc yellow (zinc chromate) (C. P.).....	do.....	-----	-----	12, 958	12, 326	-----

- <sup>1</sup> Includes data for small amount of aqua ammonia reported by one company.
- <sup>2</sup> No comparable data.
- <sup>3</sup> Excludes by-product coke-oven production.
- <sup>4</sup> Not shown separately to avoid disclosure of individual operations.
- <sup>5</sup> Proportion of estimate, 5 percent.
- <sup>6</sup> Includes data for deodorizing, decolorizing, and water purification grades. Data for gas-mask solvent recovery grades excluded.
- <sup>7</sup> Proportion of estimate, 3 percent or less.
- <sup>8</sup> Includes data for molybdate chrome orange.
- <sup>9</sup> About 1 percent of production represents data for pulp colors, and flushed and reduced chrome yellow.
- <sup>10</sup> Proportion of estimate, 4 percent.
- <sup>11</sup> Includes quantities diverted to manufacture of caustic soda and sodium bicarbonate and quantities processed to finished light and finished dense soda ash.
- <sup>12</sup> Excludes quantities converted to finished dense soda ash.
- <sup>13</sup> Collected in cooperation with Bureau of Mines.
- <sup>14</sup> Excludes quantities later evaporated to solid caustic and reported as such.
- <sup>15</sup> Includes sulfuric acid of oleum grades.

Source: Department of Commerce, Bureau of the Census; 1939 from Biennial Census of Manufactures; 1941-46 compiled from manufacturers' reports and published in Facts for Industry Series M10A. Monthly data published currently.

No. 950.—SYNTHETIC ORGANIC CHEMICALS—PRODUCTION AND SALES, BY GROUP: 1944 AND 1945

GROUP	1944			1945		
	Production (1,000 lb.)	Sales (1,000 lb.)	Sales value (\$1,000)	Production (1,000 lb.)	Sales (1,000 lb.)	Sales value (\$1,000)
<b>ORGANIC CHEMICALS, CYCLIC<sup>1</sup></b>						
Intermediates.....	2, 143, 305	1, 555, 749	184, 660	2, 188, 643	1, 248, 478	140, 974
Finished products.....	2, 662, 565	2, 382, 683	696, 639	2, 814, 057	2, 471, 526	772, 757
Dyes.....	151, 653	150, 049	110, 748	144, 296	137, 417	102, 408
Color index.....	109, 870	108, 320	59, 861	108, 490	101, 734	58, 921
Prototype.....	26, 314	26, 062	32, 027	21, 076	21, 828	27, 198
Ungrouped.....	15, 469	15, 667	18, 860	14, 730	14, 355	16, 349
Color lakes and toners.....	19, 197	18, 401	13, 793	22, 570	21, 155	16, 947
Medicinals.....	35, 353	33, 103	94, 039	39, 068	35, 282	144, 310
Flavor and perfume materials.....	11, 726	11, 050	14, 565	12, 691	11, 023	14, 774
Plastic materials.....	404, 113	380, 822	83, 264	406, 742	378, 908	94, 939
Rubber processing chemicals.....	73, 774	66, 260	27, 446	80, 080	69, 485	28, 768
Elastomers (synthetic rubbers).....	1, 500, 993	1, 395, 136	268, 315	1, 620, 062	1, 600, 087	278, 577
Miscellaneous <sup>2</sup> .....	465, 766	327, 862	84, 469	488, 548	318, 169	92, 034
<b>ORGANIC CHEMICALS, ACYCLIC</b>						
Intermediates and finished products.....	10, 123, 680	6, 122, 761	1, 123, 322	9, 652, 448	5, 609, 180	929, 761
Medicinals.....	3, 398	3, 109	17, 766	4, 870	4, 664	17, 402
Flavor and perfume materials <sup>3</sup> .....	4, 553	4, 514	4, 546	5, 386	5, 060	5, 438
Plastic materials.....	378, 239	316, 566	128, 078	401, 492	374, 187	172, 158
Rubber-processing chemicals.....	18, 865	18, 465	14, 629	20, 873	21, 671	15, 185
Elastomers (synthetic rubbers).....	256, 917	233, 301	85, 435	284, 034	284, 039	81, 402
Miscellaneous <sup>2</sup> .....	9, 461, 708	5, 546, 866	872, 878	8, 935, 793	4, 919, 559	638, 176

<sup>1</sup> Includes alicyclic, heterocyclic, and terpenoid compounds as well as benzenoid (coal-tar) chemicals.

<sup>2</sup> Includes plasticizers and surface-active agents.

<sup>3</sup> Includes acyclic flavor and perfume materials and chemically modified essential oils.

Source: United States Tariff Commission; annual report, Synthetic Organic Chemicals, United States Production and Sales.

No. 951.—INDUSTRIAL EXPLOSIVES MANUFACTURED AND SOLD IN THE UNITED STATES: 1923 TO 1945

[In thousands of pounds. Excludes exports]

YEAR	Total	Permissible explosives <sup>1</sup>	High explosives other than permissible	BLACK BLASTING POWDER		USE	Total	Permissible explosives <sup>1</sup>	High explosives other than permissible	Black blasting powder
				Granular	Pellet					
1923	529, 728	60, 371	267, 405	201, 951		1944	464, 111	102, 538	318, 613	42, 960
1924	495, 533	55, 134	273, 323	467, 076		Coal mining	219, 279	101, 825	77, 493	39, 961
1925	501, 752	58, 353	286, 435	156, 964	(2)	Metal mining	102, 438	4	102, 304	70
1926	535, 890	67, 685	310, 518	157, 687	(2)	Quarrying and nonmetallic mineral mining	72, 433	513	70, 331	1, 589
1927	499, 011	63, 847	303, 468	131, 696	(2)	Railway and other construction work	60, 390	177	59, 095	1, 117
1928	475, 251	60, 708	292, 735	98, 004	23, 754	All other purposes	9, 571	19	9, 329	223
1929	509, 708	62, 669	326, 993	86, 818	33, 227	1945	457, 311	97, 407	322, 956	36, 948
1930	445, 090	53, 826	291, 391	63, 139	36, 735	Coal mining	223, 440	96, 848	91, 551	35, 041
1931	337, 565	41, 578	216, 157	46, 300	33, 530	Metal mining	89, 328	15	89, 292	21
1932	233, 887	32, 225	137, 908	35, 793	27, 961	Quarrying and nonmetallic mineral mining	74, 866	447	73, 031	1, 338
1933	255, 987	33, 927	157, 849	33, 887	30, 323	Railway and other construction work	55, 998	78	55, 641	279
1934	314, 768	39, 208	206, 625	37, 193	31, 742	All other purposes	13, 678	19	13, 441	218
1935	308, 381	39, 170	200, 324	34, 223	34, 665	1941	481, 927	70, 612	351, 857	27, 882
1936	391, 605	47, 859	262, 047	40, 420	41, 278	1942	499, 255	84, 022	359, 699	24, 167
1937	404, 744	49, 579	288, 924	29, 837	36, 404	1943	477, 651	92, 656	338, 573	19, 814
1938	332, 130	41, 859	238, 576	23, 552	28, 143	1944	404, 111	102, 538	318, 613	16, 282
1939	386, 438	49, 950	278, 250	28, 322	29, 915	1945	457, 311	97, 407	322, 956	12, 303
1940	423, 369	58, 436	305, 180	29, 084	30, 670					24, 644

<sup>1</sup> Represents type of high explosives approved by Bureau of Mines as suitable for use in coal mines provided specifications of use are followed.

<sup>2</sup> Pellet powder (first manufactured for general sale in 1925) included with granular powder.

Source: Department of the Interior, Bureau of Mines; Production of Explosives in the United States.

No. 952.—ASPHALT AND TAR ROOFING AND SIDING PRODUCTS—SHIPMENTS: 1928 TO 1946

PRODUCT AND UNIT OF MEASURE	1928	1933	1938	1941	1942	1943	1944	1945	1946
<b>Asphalt roofing, total</b>									
1,000 squares	36, 540	24, 737	34, 610	42, 383	54, 211	51, 349	48, 889	49, 157	60, 864
Smooth-surfaced.....do.	16, 075	13, 838	15, 027	14, 980	21, 632	19, 236	16, 336	15, 832	19, 421
Mineral-surfaced.....do.	9, 608	5, 685	8, 799	12, 135	16, 511	16, 688	14, 337	13, 532	13, 717
Strip shingles.....do.	9, 002	4, 223	9, 054	13, 242	13, 908	13, 014	15, 426	16, 924	24, 505
Individual shingles.....do.	1, 855	991	1, 730	2, 026	2, 411	2, 790	2, 809	3, 221	3, 221
<b>Asphalt sidings, total</b> .....do.	(1)	(1)	2 590	1, 062	1, 139	2, 338	4, 148	4, 254	4, 954
Roll form.....do.	(1)	(1)	(1)	763	905	2, 140	3, 862	3, 851	4, 599
Shingle form.....do.	(1)	(1)	(1)	299	234	198	286	403	3, 595
Mineral-surfaced insulating board base siding.....1,000 squares	(1)	(1)	(1)	830	720	1, 012	1, 725	1, 885	2, 444
<b>Asphalt board products</b>									
1,000 sq. ft.	(1)	(1)	(1)	(1)	(1)	(1)	73, 929	91, 564	70, 092
<b>Saturated felts, total</b> .....do.									
tons of 2,000 lb.	(1)	(1)	(1)	(1)	(1)	(1)	312, 890	327, 266	296, 087
Asphalt.....do.	(1)	(1)	(1)	(1)	(1)	(1)	264, 092	273, 179	223, 978
Tar.....do.	(1)	(1)	(1)	(1)	(1)	(1)	48, 798	54, 087	72, 109
<b>Saturated and coated sheathings, total</b> .....do.									
tons of 2,000 lb.	(1)	(1)	(1)	(1)	(1)	(1)	10, 561	14, 221	15, 690
Asphalt.....do.	(1)	(1)	(1)	(1)	(1)	(1)	8, 476	11, 881	(9)
Tar.....do.	(1)	(1)	(1)	(1)	(1)	(1)	2, 085	2, 340	(9)

<sup>1</sup> Not available.

<sup>2</sup> Represents brick and all other types of siding.

<sup>3</sup> Not shown separately, to avoid disclosing operations of individual companies.

Source: Department of Commerce, Bureau of the Census; Facts for Industry Series M26D.

**No. 953.—RUBBER (NATURAL, RECLAIMED, AND SYNTHETIC)—NEW SUPPLY, DISTRIBUTION, AND STOCKS: 1939 TO 1946**

[In tons of 2,240 pounds. Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic includes GR-S, Neoprene, Butyl, and Butadiene-Acrylonitrile; reclaimed includes natural rubber reclaims for 1939-43 and both natural and synthetic rubber reclaims for 1944-46]

ITEM	1939	1940	1941 <sup>1</sup>	1942 <sup>2</sup>	1943	1944	1945	1946
<b>New supply, total</b> .....	637, 770	1, 030, 535	1, 311, 761	591, 071	591, 109	1, 142, 138	1, 209, 761	1, 444, 034
<b>Domestic production, total</b> .....	187, 994	211, 911	282, 555	307, 525	536, 072	1, 023, 367	1, 064, 218	1, 035, 650
Natural.....					859	130	536	12
Reclaimed.....	186, 000	208, 971	274, 202	285, 114	303, 991	260, 607	243, 309	295, 612
Synthetic.....	1, 994	2, 940	8, 353	22, 411	231, 722	762, 050	820, 373	740, 026
<b>Imports, total</b> .....	499, 776	818, 624	1, 029, 176	289, 546	55, 037	118, 771	145, 543	408, 384
Natural.....	499, 616	818, 624	1, 029, 176	282, 653	54, 970	107, 704	135, 136	400, 675
Reclaimed.....	8	( <sup>3</sup> )		893	67	24	( <sup>3</sup> )	
Synthetic.....	162					11, 043	10, 407	7, 709
<b>Distribution, total</b> .....	1, 789, 686	1, 860, 051	1, 052, 359	691, 920	834, 248	1, 087, 597	1, 143, 979	1, 406, 425
<b>Domestic consumption, total</b> .....	1, 763, 951	1, 841, 648	1, 032, 490	649, 240	779, 607	961, 896	1, 040, 045	1, 314, 706
Natural.....	592, 000	648, 500	775, 000	376, 791	317, 634	144, 113	105, 429	277, 597
Reclaimed.....	170, 000	190, 244	251, 231	254, 820	291, 082	251, 083	241, 036	275, 410
Synthetic.....	1, 961	2, 904	6, 259	17, 629	170, 891	566, 670	693, 580	761, 699
<b>Exports, total</b> .....	25, 785	18, 403	19, 899	42, 680	54, 641	125, 731	103, 934	91, 719
Natural.....	13, 125	7, 060	5, 376	10, 856	20, 815	9, 665	6, 743	4, 338
Reclaimed.....	12, 610	11, 343	13, 851	30, 405	15, 678	11, 800	13, 413	14, 461
Synthetic.....	( <sup>3</sup> )	( <sup>3</sup> )	672	1, 419	13, 143	104, 266	83, 778	72, 920
<b>Stocks, end of year, total</b> <sup>4</sup> .....	151, 050	1, 321, 594	571, 160	469, 554	233, 090	287, 514	350, 324	387, 703
Natural.....	125, 800	288, 864	7, 527, 708	422, 714	139, 594	93, 650	118, 715	237, 467
Reclaimed.....	25, 250	32, 630	41, 750	42, 532	46, 201	43, 832	28, 165	33, 666
Synthetic.....		100	1, 702	4, 608	47, 295	160, 032	203, 454	116, 570

<sup>1</sup> Data for synthetic estimated.

<sup>2</sup> Excludes small amounts of Butyl.

<sup>3</sup> Less than 0.5 long tons.

<sup>4</sup> Allocations for export, 1941 and 1942, actual exports begin with 1943. <sup>5</sup> Not available but believed to be negligible. <sup>6</sup> Differences between "new supply" and "distribution" not precisely comparable with "stocks" due to year-end and inventory adjustments. <sup>7</sup> After allowance for fire loss of Government rubber, Oct. 11, 1941.

<sup>8</sup> Includes stocks shipped for export which had not yet cleared port.

Source: 1939-40, natural and reclaimed, Department of Commerce; synthetic, Tariff Commission. 1941-46, Office of Temporary Controls, Civilian Production Administration, and predecessor agencies. Published in Facts for Industry Series 26-1. Refer inquiries to Department of Commerce, Bureau of Census.

**No. 954.—RUBBER TIRES AND TUBES—PRODUCTION, BY TYPE: 1943 TO 1946**

TYPE	1943	1944	1945	1946
<b>TIRES (UNITS)</b>				
Airplane.....	1, 032, 789	1, 414, 622	820, 556	258, 739
Truck and bus.....	12, 923, 444	14, 624, 328	16, 354, 445	15, 837, 039
Tractor-implement.....	914, 136	2, 105, 032	2, 695, 317	4, 811, 814
Industrial pneumatic.....	217, 641	599, 853	686, 070	1, 110, 168
Industrial solid.....	( <sup>1</sup> )	<sup>2</sup> 2, 866, 315	2, 572, 324	1, 494, 090
Passenger.....	7, 810, 801	18, 899, 022	28, 292, 112	66, 508, 256
Motorcycle.....				
Bicycle.....				
	4, 281, 871	4, 277, 674	5, 054, 477	9, 061, 296
<b>TUBES (UNITS)</b>				
Airplane.....	956, 129	1, 231, 113	525, 101	237, 952
Truck and bus.....	12, 362, 747	12, 464, 926	16, 063, 134	14, 858, 778
Tractor-implement.....	699, 409	1, 816, 518	2, 673, 414	4, 360, 864
Industrial.....	231, 705	516, 992	629, 225	1, 108, 183
Passenger.....	2, 926, 739	14, 980, 644	25, 810, 530	62, 392, 262
Motorcycle.....				
Bicycle.....				
	3, 844, 554	4, 841, 385	5, 741, 118	9, 757, 194
Camelback (tons of 2,240 lbs.) <sup>3</sup> .....	4, 105, 676	157, 936	135, 673	76, 247

<sup>1</sup> Not available.

<sup>2</sup> Incomplete; cured-on type reported for May-Dec. only.

<sup>3</sup> Rubber compound for retreading worn tires. <sup>4</sup> Reported by Rubber Mrs. Assn. Inc. as shipments.

Source: Office of Temporary Controls, Civilian Production Administration, and predecessor agencies; published in Facts for Industry Series 26-2. Refer inquiries to Department of Commerce, Bureau of Census.

**No. 955.—LEATHER—PRODUCTION, BY PRINCIPAL TYPES OF RAW STOCK:  
1935 TO 1946**

[Cattle hide in thousands of hides, other figures in thousands of skins]

YEAR	Cattle hide	Calf and kip	Goat and kid	Sheep and lamb <sup>1</sup>	YEAR	Cattle hide	Calf and kip	Goat and kid	Sheep and lamb <sup>1</sup>
1935.....	21, 932	14, 140	48, 260	38, 465	1941.....	28, 099	13, 098	45, 355	51, 865
1936.....	22, 628	13, 127	47, 363	37, 942	1942.....	30, 822	12, 264	41, 122	53, 634
1937.....	22, 380	12, 027	46, 554	34, 232	1943.....	25, 656	11, 112	37, 351	53, 815
1938.....	19, 047	12, 991	31, 905	28, 941	1944.....	26, 114	10, 930	34, 666	53, 959
1939.....	22, 095	14, 027	40, 419	39, 384	1945.....	27, 576	11, 636	24, 026	51, 847
1940.....	21, 013	11, 387	37, 697	37, 920	1946.....	26, 927	10, 882	24, 152	47, 990

<sup>1</sup> Prior to 1940, data include skivers and exclude fleshers; beginning 1940, they include fleshers and exclude skivers.

Source: Tanners' Council of America. Monthly figures published in Survey of Current Business.

**No. 956.—LEATHER—PRODUCTION, BY KIND: 1937 AND 1939**

PRODUCT	Unit	1937		1939		1937	1939
		Quantity (thousands of unit specified)	Produced in regular factories—quantity (thousands of unit specified)	Produced in contract factories on commission—quantity (thousands of unit specified)	Value (thousands of dollars)	Produced in regular factories—value (thousands of dollars)	
<b>Total value</b>						<b>372, 458</b>	<b>322, 359</b>
Sole and belting leather:							
Oak, union, chrome, and combination sole	Pound	251, 086	201, 021	40, 317	84, 074	60, 049	
Horse—sole	Square feet	3, 042	3, 960		825	938	
Belting butts—curried	Pound	9, 236	6, 107		6, 365	3, 661	
Offal	do.	94, 438	88, 687	176	18, 948	16, 314	
Harness leather:							
Union black	do.	5, 855	1, 335		1, 816	387	
Oak black and russet	do.	8, 642	6, 332		2, 675	1, 880	
Bag, case, and strap leather—finished grains	Square feet	21, 522	21, 245		5, 316	4, 888	
Collar, skirting, lace and latigo leather	do.	( <sup>1</sup> )	9, 414		2, 805	2, 334	
Welting leather—cattle	Pound	7, 240	7, 933		2, 298	2, 491	
Upholstery leather—finished:							
Wholehide grains and machine-buffed	Square feet	20, 871	17, 791	} 5, 596	5, 227	4, 036	
Splits	do.	13, 868	10, 193		1, 911	1, 171	
Upper leather:							
Cattle, including kip sides	do.	322, 567	362, 921	7, 689	64, 508	66, 458	
Calf and whole kip, except kip sides	do.	119, 905	123, 140	10, 330	35, 706	34, 482	
Goat and kid	do.	173, 350	141, 410	12, 419	39, 133	26, 515	
Kangaroo and wallaby	do.	5, 138	5, 529		1, 634	1, 419	
Wax and finished splits	do.	57, 756	39, 330	( <sup>2</sup> )	8, 537	3, 634	
Other upper leather	do.				4, 152	3, 820	
Glove and garment leather:							
Cabretta	Square feet	( <sup>1</sup> )	8, 326	13, 994	1, 054	1, 792	
Sheep and lamb, except shearlings	do.	91, 996	99, 515	43, 271	10, 072	10, 317	
Shearlings	do.	22, 772	19, 050	( <sup>2</sup> )	4, 878	3, 648	
Other glove and garment leather	do.				6, 636	5, 857	
Fancy and bookbinders leather	do.				6, 880	5, 572	
Lining leather:							
Sheep and lamb—shoe stock	Square feet	85, 202	60, 522	26, 716	9, 210	5, 812	
Goat and kid	do.	27, 114	44, 650	9, 624	4, 755	8, 136	
Other lining leather	do.	7, 969	12, 371	1, 664	1, 466	1, 985	
Patent upper leather (cattle, including kip sides)—japanned	do.	49, 874	29, 080	22, 206	9, 326	6, 078	
Splits, other than wax and finished upper and upholstery	do.	94, 890	112, 399	25, 787	10, 230	7, 968	
Skivers	do.	24, 865	22, 985	8, 386	2, 304	2, 259	
Finishing or currying of tanned leather	do.	( <sup>1</sup> )	10, 990	54, 550	( <sup>1</sup> )	3, 396	
Leather, tanned, curried, or finished on a commission basis for leather manufacturers, dealers, and jobbers	do.						
Other leather	Square feet		28, 414	34, 617	( <sup>1</sup> )	13, 623	
Rough leather:							
Belting butts—rough, for sale as such	Pound	10, 955	6, 109		5, 829	2, 707	
Upholstery leather—russet, for sale as such	Square feet	27, 244	28, 205	( <sup>2</sup> )	2, 923	3, 053	
Other rough leather	do.				1, 612	866	

<sup>1</sup> Not available.

<sup>2</sup> Figure for "Upholstery leather—finished" includes both rough and finished upholstery leather which cannot be shown separately without disclosing production of individual establishments.

<sup>3</sup> Not shown to avoid disclosing, exactly or approximately, production of individual establishments.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 957.—PRESSED AND BLOWN GLASSWARE—QUANTITY AND VALUE OF SHIPMENTS: 1945

PRODUCT	Quantity	Value (1,000 dollars)	PRODUCT	Quantity	Value (1,000 dollars)
Shipments, total value.....		168,094			
Selected nonheat-resistant and non-heat-tempered tableware and kitchenware:			Heat-tempered, machine-made tableware.....	1,000 dozens 4,743	3,471
Tableware:	1,000 dozens		Art, decorative, and novelty glassware, total.....		10,785
Hand-made, pressed, total.....		4,837	Machine-made.....		2,118
Tumblers.....	357	498	Hand-made.....		8,667
Goblets and other stemware.....	1,337	763			
Plates, cups, and saucers.....	308	1,303			
Other tableware.....		2,273	Lighting glassware, total.....		37,055
Hand-made, blown, total.....		9,752	Electric light and electronic tube blanks.....	1,305	16,567
Tumblers.....	1,279	2,406	Electric shades, reflectors and torchiers.....		4,049
Goblets and other stemware.....	2,182	7,002	Fluorescent tubes.....		3,788
Other tableware.....	146	344	All other lighting glassware.....		12,651
Machine-made tumblers, goblets and other stemware.....	67,131	20,011			
Kitchenware, machine made:			Technical and scientific glassware, total.....	1,000 pounds	20,766
Bowls, refrigerator dishes, jars.....	29,499	1,667	Tubing (excluding fluorescent and industrial).....	28,018	6,492
	1,000 pieces		All other technical and scientific glassware, except electronic tubal blanks.....		14,274
Heat-resistant tableware and kitchenware, total.....		20,167	Other pressed and blown glassware.....		39,583
Machine-made, total.....		17,378			
Custard cups, casseroles and pie plates.....	57,407	6,893			
Other tableware and kitchenware.....	172,344	10,485			
Hand-made, total.....		2,789			
Coffee, tea, and other beverage makers.....	3,227	1,458			
Other tableware and kitchenware.....	1,933	1,331			

<sup>1</sup> Estimates account for 11 to 16 percent of total.

<sup>2</sup> Estimates account for 4 to 10 percent of total.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M77E.

No. 958.—GLASS CONTAINERS—DIRECT EXPORTS AND DOMESTIC PRODUCTION AND SHIPMENTS, BY KIND: 1945 AND 1946

[In thousand gross]

ITEM	1945		1946	
	Production	Shipments	Production	Shipments
Total.....	105,267	106,318	115,664	116,084
Direct exports.....		2,311		2,537
Domestic production and shipments:				
Narrow-neck, total.....	63,788	62,322	67,594	65,935
Food.....		8,887		10,479
Medicinal and health supplies.....		12,331		13,864
Chemical, household, and industrial.....	34,900	6,962	38,596	6,938
Toiletries and cosmetics.....		6,353		6,986
Beverage, returnable.....	6,959	6,806	6,950	6,456
Beer, returnable.....	6,227	5,940	6,396	5,904
Beer, nonreturnable.....	4,598	4,418		858
Liquor.....	8,683	8,261	10,657	10,413
Wine.....	2,421	2,364	4,137	4,017
Wide-mouth, total.....	41,479	41,685	48,070	47,612
Food.....		28,333		33,628
Medicinal and health supplies.....		3,155		3,457
Chemical, household, and industrial.....	34,636	1,338	40,386	1,332
Toiletries and cosmetics.....		1,790		1,656
Dairy products.....	3,558	3,608	3,963	3,897
Fruit jars.....	2,083	2,245	2,431	2,418
Jelly glasses.....	223	213	222	175
Packers' tumblers.....	979	1,003	1,068	1,049

Source: Department of Commerce, Bureau of the Census; published in Facts For Industry Series M77C.

No. 959.—STRUCTURAL CLAY PRODUCTS—PRODUCTION AND SHIPMENTS, BY KIND:  
1943 TO 1946

PRODUCT AND UNIT OF MEASURE	1943	1944	1945	1946
Unglazed brick:				
Production.....1,000 standard bricks.....	1,917,983	1,878,397	2,289,442	4,868,763
Shipments: Quantity.....do.....	2,403,120	2,004,817	2,374,672	4,643,787
Value.....1,000 dollars.....	31,971	28,793	39,191	91,926
Unglazed hollow facing tile:				
Production.....1,000 brick equivalent.....	85,874	81,875	89,069	100,422
Shipments: Quantity.....do.....	96,519	92,624	98,793	100,966
Value.....1,000 dollars.....	1,956	1,935	2,275	2,711
Glazed hollow facing tile:				
Production.....1,000 brick equivalent.....	51,332	70,634	85,491	174,744
Shipments: Quantity.....do.....	58,265	80,668	92,651	171,866
Value.....1,000 dollars.....	2,057	3,176	3,856	8,052
Vitrified paving brick:				
Production.....1,000 bricks.....	26,619	14,280	14,504	22,792
Shipments: Quantity.....do.....	33,259	21,848	22,507	25,376
Value.....1,000 dollars.....	948	653	692	833
Unglazed structural tile:				
Production.....short tons.....	844,940	715,986	738,518	1,273,199
Shipments: Quantity.....do.....	988,367	800,790	797,954	1,243,661
Value.....1,000 dollars.....	6,710	5,714	6,392	11,490
Vitrified clay sewer pipe:				
Production.....short tons.....	927,090	738,932	697,508	1,080,761
Shipments: Quantity.....do.....	908,214	781,829	776,517	1,077,584
Value.....1,000 dollars.....	19,047	17,387	18,333	30,288
FLOOR AND WALL TILE AND ACCESSORIES	1939			
Glazed—				
Production.....1,000 square feet.....	1,656,672	1,29,195	24,678	43,612
Shipments: Quantity.....do.....	(2)	1,30,527	24,670	43,291
Value.....1,000 dollars.....	(2)	1,7,675	7,350	15,262
Unglazed (except quarry tile)—				
Production.....1,000 square feet.....	(1)	(1)	8,680	12,802
Shipments: Quantity.....do.....	(2)	(1)	8,492	12,973
Value.....1,000 dollars.....	(2)	(1)	2,095	3,447
Quarry tile:				
Production.....1,000 square feet.....	(2)	(2)	(2)	5,114
Shipments: Quantity.....do.....	(2)	(2)	(2)	5,409
Value.....1,000 dollars.....	(2)	(2)	(2)	797
Drain tile:				
Production.....short tons.....	487,119	412,496	435,819	464,718
Shipments: Quantity.....do.....	(2)	421,947	443,910	464,086
Value.....1,000 dollars.....	(2)	4,422	4,491	5,613
All other clay construction products, <sup>3</sup> value of shipments				
1,000 dollars.....	(2)	3,449	4,178	8,337

<sup>1</sup> "Unglazed (except quarry tile)" included with "Glazed."

<sup>2</sup> Not available.

<sup>3</sup> Includes glazed brick, flooring brick, roofing tile, flue lining, chimney pipe, tops and thimbles, terra cotta, wall coping, meter boxes, segment blocks, liner plates, silo and corn-crib tile, and conduits.

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M26A and M26B.

No. 960.—PIG IRON AND FERRO-ALLOYS—PRODUCTION, BY DISPOSITION, KIND, AND FUEL AND MATERIALS USED: 1900 TO 1945

[In thousands of short tons (2,000 lbs.)]

ITEM	1900	1910	1915	1920	1925	1930	1935	1940	1944	1945
<b>Total pig iron and ferro-alloys</b> .....	15,444	30,530	33,506	41,357	41,105	35,562	23,937	47,399	62,866	54,919
By disposition:										
For sale.....	( <sup>1</sup> )	( <sup>1</sup> )	9,613	12,011	10,070	7,933	4,505	6,837	9,506	8,351
For maker's use.....	( <sup>1</sup> )	( <sup>1</sup> )	23,893	29,346	31,034	27,630	19,433	40,561	53,361	46,569
By kind:										
Basic.....	1,201	10,175	14,664	18,746	22,027	20,601	15,253	33,988	45,886	39,867
Bessemer and low-phosphorus.....	8,936	12,595	11,786	13,510	10,550	8,193	4,747	7,835	10,232	8,570
Foundry (incl. ferro-silicon).....	3,781	5,892	5,425	6,673	6,059	4,436	2,137	2,791	3,029	3,067
Malleable.....	194	944	930	1,468	1,740	1,760	1,350	1,832	2,495	2,350
Forge.....	888	632	354	356	270	57	6	4		
Ferromanganese, spiegeleisen, and all other.....	442	342	347	604	458	517	444	949	1,225	1,066
By fuel:										
Coke <sup>2</sup> .....	13,135	29,409	33,080	40,656	40,885	35,455	23,854	47,312	62,807	54,871
Anthracite.....	1,878	727	95	339						
Charcoal.....	431	444	332	362	220	109	84	86	59	48
Materials used:										
Iron ore, briquettes, etc.....	27,027	57,948	61,753	74,424	73,304	<sup>3</sup> 60,101	<sup>3</sup> 39,405	<sup>3</sup> 79,672	<sup>3</sup> 105,224	<sup>3</sup> 91,276
Cinder, scale, scrap, etc.....	1,792	3,136	5,021	5,585	5,619	<sup>3</sup> 7,052	<sup>3</sup> 4,768	<sup>3</sup> 7,480	<sup>3</sup> 10,168	<sup>3</sup> 9,749
Coke <sup>4</sup> .....	( <sup>1</sup> )	( <sup>1</sup> )	33,329	42,046	39,296	<sup>3</sup> 31,168	<sup>3</sup> 20,272	<sup>3</sup> 40,451	<sup>3</sup> 55,212	<sup>3</sup> 48,065
Limestone.....	8,313	16,271	16,565	19,964	16,973	<sup>3</sup> 12,431	<sup>3</sup> 8,425	<sup>3</sup> 16,678	<sup>3</sup> 23,732	<sup>3</sup> 20,863
Total number furnaces Dec. 31.....	406	473	445	452	395	300	258	231	243	241
Furnaces in blast Dec. 31 <sup>5</sup> .....	232	206	310	216	238	97	124	206	218	201

<sup>1</sup> Not available.      <sup>2</sup> Includes pig iron and ferro-alloys made in electric furnaces.  
<sup>3</sup> Materials consumed in manufacture of pig iron only.      <sup>4</sup> Coke and bituminous coal 1900 to 1925.  
<sup>5</sup> Or as of Jan. 1 of following year.

Source: American Iron and Steel Institute, annual report.

No. 961.—PIG IRON AND FERRO-ALLOYS—PRODUCTION BY STATES: 1938 TO 1945

[In thousands of short tons (2,000 pounds)]

STATE	1938	1939	1940	1941	1942	1943	1944	1945
<b>Grand total</b> .....	21,460	35,677	47,399	56,687	60,903	62,770	62,866	54,919
<b>Pig iron, total</b> .....	20,772	34,809	46,072	55,101	59,076	60,811	61,007	53,223
Pennsylvania.....	5,416	9,809	14,288	16,895	18,065	18,575	18,510	16,171
Ohio.....	4,716	8,033	9,970	12,787	13,140	13,725	13,371	11,259
Indiana, Michigan.....	2,629	4,787	6,689	7,725	8,114	8,208	8,474	7,436
Illinois.....	1,855	2,969	4,047	5,355	5,850	5,950	5,686	5,045
Maryland, Virginia, West Virginia, Kentucky, Tennessee, Texas.....	2,031	3,117	3,576	3,727	4,391	4,595	4,781	4,327
Alabama.....	2,266	2,936	3,419	3,696	4,032	3,780	3,949	3,582
Massachusetts, New York.....	1,460	2,423	3,113	3,758	4,221	4,178	3,947	3,295
Minnesota, Iowa, Colorado, Utah, California.....	399	735	971	1,158	1,212	1,800	2,289	2,109
<b>Ferro-alloys, total</b> .....	689	868	1,327	1,586	1,827	1,959	1,859	1,696
Pennsylvania.....	185	310	515	620	627	603	637	573
New York, New Jersey.....	213	192	323	494	540	544	478	449
Virginia, West Virginia, South Carolina, Alabama, Tennessee.....	120	128	143	160	308	422	380	322
Ohio, Indiana, Illinois, Iowa, Colorado, Washington.....	171	239	345	311	352	391	363	351

Source: American Iron and Steel Institute, annual report.

No. 962.—PIG IRON AND FERRO-ALLOYS AND STEEL INGOTS AND CASTINGS—  
PRODUCTION, EXPORTS, AND IMPORTS: 1871 TO 1945

[In short tons (2,000 pounds). Prior to 1901 exports and imports are for years ended June 30 following year specified; calendar years thereafter. Imports are imports for consumption beginning with 1933. All production figures are for calendar years. For figures for earlier years, see Abstract for 1931]

YEARLY AVERAGE OR YEAR	PIG IRON AND FERRO-ALLOYS			Steel ingots and castings, production <sup>1</sup>	YEAR	PIG IRON AND FERRO-ALLOYS			Steel ingots and castings, production <sup>1</sup>
	Production	Exports of domestic	Imports			Production	Exports of domestic	Imports	
1871-1875...	2,518,088	8,301	154,102	<sup>2</sup> 436,575	1929.....	47,727,661	60,199	250,522	63,205,490
1876-1880...	2,870,295	3,816	309,792	899,896	1930.....	35,562,429	28,385	204,340	45,533,421
1881-1885...	4,817,228	5,948	304,325	1,850,540	1931.....	20,637,516	17,280	115,965	29,058,961
1886-1890...	7,928,829	13,890	257,566	3,687,895	1932.....	9,835,227	7,771	163,144	15,322,901
1891-1895...	9,108,976	25,741	61,351	5,230,824	1933.....	14,947,074	12,625	219,838	26,020,229
1896-1900...	12,870,969	251,180	38,425	9,452,731	1934.....	18,075,202	15,091	176,273	29,181,924
1901-1905...	20,428,425	50,921	352,537	17,212,083	1935.....	23,937,423	19,840	211,901	38,183,705
1906-1910...	26,907,689	88,052	308,040	24,826,797	1936.....	34,752,689	26,439	284,487	53,499,999
1911-1915...	30,820,405	226,252	148,681	31,783,886	1937.....	41,882,550	916,160	180,625	56,636,945
1916-1920...	41,451,650	463,931	119,718	46,838,598	1938.....	21,460,164	615,904	80,008	31,751,990
1921-1925...	34,132,119	41,444	405,785	41,138,917	1939.....	35,677,097	238,224	129,497	52,798,714
1926-1930...	42,215,094	58,316	289,090	54,186,963	1940.....	47,398,529	685,617	45,603	66,982,686
1931-1935...	17,486,488	14,521	177,424	27,653,544	1941.....	50,686,004	610,729	28,844	82,839,259
1936-1940...	36,174,206	476,409	144,024	52,334,066	1942.....	60,903,304	150,151	31,606	86,031,931
1926.....	44,097,456	32,039	576,003	54,089,015	1943.....	62,769,948	231,068	28,056	88,836,512
1927.....	40,953,622	62,607	196,592	50,327,407	1944.....	62,866,198	185,526	34,190	89,641,800
1928.....	42,734,400	108,352	217,932	57,729,482	1945.....	54,919,029	122,957	74,104	79,701,648

<sup>1</sup> Beginning 1934, includes only steel castings produced in foundries producing steel ingots.

<sup>2</sup> 1875 only.

Source: Production, American Iron and Steel Institute, annual report. Exports and imports, Dept. of Commerce, Bur. of Foreign and Domestic Commerce through April 1941 and Bur. of Census thereafter; annual report, Foreign Commerce and Navigation of the United States.

No. 963.—ROLLED AND MISCELLANEOUS STEEL PRODUCTS—PRODUCTION, BY  
KIND: 1920 TO 1945

[In short tons (2,000 pounds)]

KIND	1920	1925	1930	1935	1940	1944	1945
<b>Hot-rolled products, total.....</b>	<b>36,229,607</b>	<b>37,393,395</b>	<b>33,054,568</b>	<b>26,840,298</b>	<b>48,660,369</b>	<b>65,803,979</b>	<b>59,811,669</b>
Plates.....	5,325,749	4,203,865	4,102,362	1,629,987	4,323,408	13,123,423	7,245,888
Sheets.....	3,232,769	4,588,452	3,932,944	5,796,624	11,705,956	10,359,080	12,067,487
Black plate.....	1,899,833	2,192,261	2,120,144	2,307,462	521,924	556	941
Strip.....	656,907	1,398,471	2,174,885	2,965,300	2,077,744	2,593,107	2,542,935
Strip and sheets for cold reduced black plate and tin plate.....	(1)	(1)	(1)	(1)	3,103,627	4,177,865	4,436,924
Hoops.....	373,453	229,655	89,425	100,634	97,074	68,596	51,891
Cotton ties and baling bands.....	435,525	398,905	51,737	27,685	44,918	35,892	34,216
Bars—merchant.....	6,865,869	6,338,433	4,627,810	4,142,944	6,459,263	10,532,250	9,649,412
Bars—concrete.....	641,138	917,937	952,169	624,243	1,425,998	628,944	834,806
Structural shapes.....	3,703,558	4,036,626	3,933,970	1,959,709	4,232,346	4,676,481	4,467,164
Sheet piling.....	23,202	64,136	118,275	145,929	186,125	128,879	188,639
Rails.....	2,916,610	3,119,488	2,098,021	796,921	1,678,986	2,490,656	2,417,520
Long splice bars and tie plate bars.....	644,930	921,241	679,157	300,471	515,928	862,383	856,638
Skelp.....	3,606,724	3,617,340	3,003,892	1,514,328	2,709,000	3,049,682	2,894,023
Blanks or pierced billets for seamless tubes.....	(2)	(2)	1,397,935	1,067,776	2,320,966	3,677,631	3,384,489
Wire rods.....	3,513,336	3,186,015	2,630,432	2,733,689	4,351,848	4,646,298	4,531,157
Rolled forging billets.....	501,014	386,179	340,581	380,697	919,826	3,762,575	3,566,697
Blooms, billets, etc. for export.....	152,832	209	10,623	44,759	1,677,905	468,088	178,600
Rolled steel car wheels.....	(2)	(2)	(2)	83,714	191,102	291,529	291,375
All other.....	1,736,308	1,794,182	790,206	217,426	116,425	280,064	170,867
<b>Miscellaneous products:<sup>3</sup></b>							
Tin plate and ternplate.....	1,619,010	1,856,730	1,882,619	1,996,960	2,738,581	2,647,978	2,827,483
Galvanized sheets.....	935,680	1,269,556	1,170,681	1,151,743	1,695,300	1,370,973	1,676,181
Galvanized formed products.....	71,947	89,110	73,047	67,245	84,854	95,112	88,717
Wire (plain).....	(1)	(1)	(1)	2,177,816	3,071,824	3,069,813	3,544,826
Wire nails.....	822,475	772,687	478,071	443,596	648,593	614,184	583,048
Cut nails and spikes.....	42,229	36,805	22,996	19,748	24,377	15,564	15,279
Pipes and tubes (black).....	(1)	(1)	(1)	2,276,544	4,272,684	6,406,423	6,030,243
Forgings made by rolling mills.....	604,916	434,414	453,978	435,390	463,101	4,076,298	4,165,746

<sup>1</sup> Not available.

<sup>2</sup> Included in all other.

<sup>3</sup> These are mostly further elaborations of products listed above.

<sup>4</sup> Including forged axles.

Source: American Iron and Steel Institute, annual report.

No. 964.—STEEL—PRODUCTION OF INGOTS AND STEEL FOR CASTINGS:  
1890 TO 1945

[In short tons (2,000 pounds)]

YEAR	Total <sup>1</sup>	OPEN HEARTH			Bessemer	Electric	Crucible
		Total	Basic	Acid			
1890.....	4,790,820	574,820	(?)	(?)	4,131,536	(?)	79,716
1900.....	11,410,928	3,805,911	2,850,502	955,409	7,486,942	(?)	112,629
1910.....	29,226,309	18,485,600	17,127,408	1,357,642	10,542,305	58,398	136,979
1915.....	36,009,160	26,520,594	24,985,772	1,534,822	9,281,679	77,741	127,436
1920.....	47,188,886	36,592,522	35,140,810	1,451,712	9,949,057	566,370	80,937
1925.....	50,840,747	42,598,627	41,537,823	1,060,804	7,530,837	689,373	21,910
1930.....	45,583,421	39,255,073	38,380,514	874,559	5,639,714	686,111	2,523
1935.....	38,183,705	34,401,280	34,004,585	396,695	3,175,235	606,471	719
1936.....	53,499,999	48,780,463	48,288,605	471,858	3,873,472	865,150	914
1937.....	50,636,945	51,824,979	51,265,211	559,768	3,863,918	947,002	1,046
1938.....	31,751,990	29,080,016	28,774,999	305,017	2,106,340	565,627	7
1939.....	52,798,714	48,409,800	47,828,700	581,100	3,358,916	1,029,067	931
1940.....	66,982,686	61,573,083	60,882,840	690,243	3,708,573	1,700,006	1,024
1941.....	82,839,259	74,389,619	73,312,851	1,076,768	5,578,071	2,869,256	2,313
1942.....	86,031,931	76,501,957	75,183,065	1,318,892	5,553,424	3,974,540	2,010
1943.....	88,836,512	78,621,804	77,207,870	1,413,934	5,625,492	4,589,070	146
1944.....	89,641,600	80,363,955	79,168,294	1,195,659	5,039,923	4,237,699	25
1945.....	79,701,648	71,939,602	71,069,876	869,726	4,305,318	3,456,704	24

<sup>1</sup> Includes all other grades not shown separately, as follows: 1890, 4,248 tons; 1900, 5,445; 1910, 3,577; 1915, 1,710. Beginning 1935, figures include only that part of steel for castings which was made in foundries producing steel ingots.

<sup>2</sup> Not available.

Source: American Iron and Steel Institute, annual report.

No. 965.—BLAST FURNACES AND STEEL MILLS—SUMMARY 1889 TO 1939

[Data for years prior to 1937 include figures for steel castings, thereafter such data are excluded]

YEAR	Number of establishments	Wage-earners (average number)	Wages (\$1,000)	Value of products (\$1,000) <sup>1</sup>	Value added by manufacture (\$1,000) <sup>2</sup>	Primary horse-power
1889.....	719	171,181	89,273	478,688	151,415	784,358
1899.....	668	222,490	120,820	803,968	281,569	1,597,816
1909.....	654	278,505	187,807	1,377,152	399,013	3,274,285
1919.....	695	416,748	711,407	3,623,369	1,321,607	5,399,574
1923.....	658	424,913	696,761	4,161,938	1,289,910	5,999,941
1925.....	595	399,914	660,297	3,711,354	1,281,976	6,143,927
1927.....	602	389,270	645,534	3,488,744	1,219,534	6,781,058
1929.....	591	419,534	730,974	4,137,214	1,622,837	7,532,530
1931.....	526	278,206	357,645	1,714,214	623,199	(?)
1933.....	466	288,945	270,367	1,357,574	481,529	(?)
1935.....	468	374,808	458,584	2,305,970	893,681	(?)
1937.....	352	461,118	755,427	3,818,789	1,503,959	(?)
1939.....	334	388,441	598,037	3,270,822	1,234,631	4,944,118
Blast furnaces:						
1937 <sup>4</sup> .....	87	23,075	38,001	672,525	127,644	(?)
1939 <sup>4</sup> .....	81	19,537	28,312	550,802	87,083	(?)
Steel works and rolling mills:						
1937.....	265	438,043	717,425	3,146,263	1,376,314	(?)
1939.....	253	368,904	569,724	2,720,020	1,147,548	(?)

<sup>1</sup> Includes much duplication.

<sup>2</sup> Value of products less cost of materials, supplies, fuel, and purchased electric energy. Beginning 1935, deductions include, in addition, cost of contract work.

<sup>3</sup> No data.

<sup>4</sup> Includes data for 5 establishments in 1937 and 2 in 1939 engaged in production of sintered ore and flue dust and operated independently of blast furnaces.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 966.—IRON AND STEEL CASTINGS—SHIPMENTS: 1943 TO 1946

[In short tons. For malleable iron castings, data represent complete coverage. Data for gray iron castings represent approximately 93 percent (for pressure pipe and soil pipe, practically complete) coverage for 1943, and complete coverage for 1944-46. For steel castings, data represent about 94 percent coverage for 1943 and 1944, and complete coverage for 1945 and 1946]

YEAR	Malleable iron castings	GRAY IRON CASTINGS				STEEL CASTINGS		
		Total	Pressure pipe and fittings	Soil pipe and fittings	All other gray iron castings	Total	Grade of Steel	
							Carbon	Alloy
1943-----	844,639	9,217,800	541,446	159,330	8,517,024	<sup>1</sup> 1,198,328	<sup>1</sup> 861,110	<sup>1</sup> 337,218
1944-----	378,233	9,794,541	507,525	181,956	9,105,060	2,445,421	1,825,130	620,291
1945-----	790,731	9,578,295	602,663	203,033	8,772,599	1,942,477	1,434,473	508,004
1946-----	752,028	10,269,657	786,314	409,214	9,074,129	1,432,049	1,112,243	319,806

<sup>1</sup> For July through December only.

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M21A, M21B, and M22A.

## No. 967.—STEEL CASTINGS FOR SALE—PRODUCTION AND ORDERS BOOKED BY TYPE OF CASTING: 1920 TO 1946

[In short tons. Approximate coverage of industry is as follows: 1920-30, 80 percent; 1935, 90 percent; 1938, 95 percent; 1939-44, 96 percent; 1945-46, 100 percent]

YEAR	PRODUCTION			ORDERS BOOKED LESS CANCELLATIONS		
	Total	Railway specialties	Miscellaneous	Total	Railway specialties	Miscellaneous
1920-----	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	997,358	429,643	667,715
1925-----				981,343	423,647	557,696
1930-----	991,872	368,690	623,182	884,433	333,199	551,234
1935-----	398,988	94,329	304,659	400,167	97,357	302,800
1938-----	342,737	88,898	253,839	333,278	87,917	245,361
1939-----	594,147	193,682	400,465	685,074	260,511	424,563
1940-----	797,947	290,255	507,692	816,919	266,418	550,501
1941-----	1,316,027	471,810	844,217	1,561,864	560,286	1,001,578
1942-----	1,679,178	309,352	1,369,826	2,187,347	219,145	1,968,202
1943-----	1,923,645	248,664	1,679,981	2,333,420	352,760	1,980,660
1944-----	1,843,386	338,007	1,505,379	1,914,294	322,630	1,591,664
1945-----	<sup>1</sup> 1,484,957	<sup>2</sup> 311,833	<sup>2</sup> 1,173,124	<sup>1</sup> 1,529,912	<sup>3</sup> 352,382	<sup>3</sup> 1,177,530
1946-----	<sup>1</sup> 1,043,358	<sup>2</sup> 286,131	<sup>2</sup> 757,227	<sup>3</sup> 1,069,842	<sup>3</sup> 283,511	<sup>3</sup> 786,331

<sup>1</sup> Not available.

<sup>2</sup> Shipments beginning with last quarter of 1945.

<sup>3</sup> Calculated from data on shipments and unfilled orders.

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M22A.

## No. 968.—MALLEABLE IRON CASTINGS—PRODUCTION, SHIPMENTS AND ORDERS BOOKED: 1925 TO 1946

[In short tons. Statistics represent coverage of approximately 90 percent for 1928-43. Thereafter coverage is complete and represents reports from 115 foundries]

YEAR	Production	SHIPMENTS			NEW ORDERS LESS CANCELLATIONS		
		Total	To outside trades	For use by own company or by an affiliate or subsidiary, or parent company	Total	For outside trades	For use by own company or by an affiliate or subsidiary, or parent company
1925-----	793,199	794,174			750,761		
1930-----	471,923	475,371	( <sup>1</sup> )	( <sup>1</sup> )	432,722	( <sup>1</sup> )	( <sup>1</sup> )
1935-----	466,395	455,208			452,611		
1936-----	571,696	554,670	378,900	175,770	576,334	398,665	177,669
1937-----	602,278	596,622	420,937	175,685	549,972	384,689	165,283
1938-----	289,914	296,003	208,597	87,406	289,384	203,172	86,212
1939-----	480,578	466,068	331,421	134,347	489,482	354,249	135,233
1940-----	565,923	556,209	400,818	155,391	571,929	414,310	157,619
1941-----	843,038	832,173	619,365	212,808	884,881	663,688	221,193
1942-----	768,496	746,068	590,804	155,204	859,102	703,167	155,935
1943-----	849,764	844,639	653,884	190,755	1,054,224	826,422	227,802
1944-----	889,820	878,233	619,588	258,645	969,483	685,611	283,872
1945-----	( <sup>1</sup> )	790,731	520,887	269,844	766,711	426,159	340,552
1946-----	( <sup>1</sup> )	752,028	452,355	299,673	( <sup>1</sup> )	483,368	( <sup>1</sup> )

<sup>1</sup> Not available.

Source: Department of Commerce, Bureau of the Census. Monthly data published in Facts for Industry Series M21B.

No. 969.—IRON AND STEEL, FINISHED ROLLED—PRODUCTION, EXPORTS, AND IMPORTS: 1876 TO 1945

[In short tons (2,000 pounds). Imports are imports for consumption beginning with 1933; general imports in earlier years. Blank spaces indicate no data available]

YEARLY AVERAGE OR YEAR (CALENDAR YEAR)	Total production, finished rolled products	RAILS			PLATES AND SHEETS			Merchant bar production <sup>2</sup>
		Production	Exports	Imports	Production	Exports	Imports <sup>1</sup>	
1876-1880		1,020,426	4,974	67,033				
1881-1885		1,426,581	4,464	131,009				
1886-1890	<sup>3</sup> 5,911,600	1,915,511	8,148	55,748	<sup>4</sup> 767,104		8,975	
1891-1895	6,129,591	1,416,493	15,288	1,173	846,516	1,691	26,761	
1896-1900	9,142,067	2,107,734	260,420	2,687	1,639,544	34,714	5,344	
1901-1905	15,311,416	3,242,555	252,836	48,392	3,017,980	44,246	6,007	<sup>4</sup> 4,024,833
1906-1910	20,730,629	3,627,104	339,622	4,439	4,540,590	177,622	4,588	3,897,499
1911-1915	24,920,038	3,091,824	424,247	26,589	6,028,088	466,372	3,220	4,222,754
1916-1920	34,505,924	2,945,047	616,920	23,959	9,235,794	1,016,396	1,765	7,050,773
1921-1925	30,458,732	2,794,109	274,737	35,530	8,875,380	488,464	4,265	5,375,343
1926-1930	39,562,938	2,971,808	178,699	22,228	11,797,300	536,823	27,580	7,080,924
1931-1935	20,002,332	828,436	46,310	5,780	6,891,694	181,332	14,569	3,356,504
1936-1940	38,066,554	1,384,946	193,217	6,511	13,664,259	791,090	8,963	6,217,207
1928	42,182,466	2,965,192	213,836	15,701	12,326,775	585,376	34,496	8,097,290
1929	45,997,746	3,048,795	163,587	6,884	13,928,670	605,804	31,876	8,314,316
1930	33,054,568	2,098,021	106,600	9,304	10,155,450	388,475	31,904	5,579,979
1931	21,477,001	1,296,681	37,081	5,608	6,764,331	215,970	18,936	3,454,076
1932	11,705,219	450,874	12,678	6,341	3,856,505	88,515	24,922	1,903,441
1933	18,743,296	466,252	46,459	7,171	6,962,648	121,902	10,643	2,973,555
1934	34,245,847	1,131,451	77,458	3,442	7,140,913	226,537	5,204	3,684,162
1935	26,840,298	796,921	57,873	6,337	9,734,073	253,738	13,141	4,767,187
1936	37,857,544	1,366,228	82,270	8,700	13,610,595	346,753	25,796	6,822,492
1937	41,178,356	1,619,228	165,964	9,294	15,721,261	385,199	10,095	6,755,012
1938	23,568,951	697,642	92,648	4,059	8,566,233	573,817	7,167	3,484,923
1939	39,067,553	1,312,647	66,183	8,718	13,931,919	729,866	1,606	6,138,350
1940	48,660,369	1,678,866	289,020	1,780	16,551,288	1,420,311	1,563	7,885,261
1941	62,324,187	1,927,851	169,542	7,672	20,293,071	1,054,180	125	10,978,698
1942	62,445,914	2,096,159	256,159	14,435	21,237,072	1,964,824	254	11,939,982
1943	63,292,673	2,126,996	311,861	7,384	22,543,040	1,531,567	468	11,858,047
1944	65,809,979	2,490,566	316,915	9,893	23,463,059	1,246,556	5,665	11,161,194
1945	59,811,669	2,417,520	327,994	32,474	19,314,316	1,341,954	2,751	10,484,218

YEARLY AVERAGE OR YEAR (CALENDAR YEAR)	Skelp production	WIRE RODS			STRUCTURAL SHAPES			All other finished rolled production <sup>2</sup>
		Production	Exports	Imports	Production	Exports	Imports	
1891-1895		709,238		38,980	<sup>6</sup> 481,457			2,772,234
1896-1900		1,018,997		<sup>6</sup> 18,124	20,257	772,149		3,603,643
1901-1905	<sup>4</sup> 1,608,314	1,781,114	18,306	20,597	1,348,246	<sup>6</sup> 54,742		1,415,004
1906-1910	2,868,915	2,303,540	16,011	17,248	2,169,385	135,616	12,440	2,323,500
1911-1915	1,551,942	2,933,601	84,252	13,198	<sup>7</sup> 2,739,958	297,798	7,114	3,392,518
1916-1920	3,123,005	3,336,179	162,072	4,188	3,340,000	376,744	3,143	5,477,829
1921-1925	3,345,985	2,836,325	31,408	4,803	3,199,711	224,177	31,317	4,031,879
1926-1930	3,752,372	3,148,573	35,639	16,996	4,489,127	311,101	160,219	6,322,836
1931-1935	1,248,507	2,065,158	25,456	12,505	1,631,689	66,574	45,874	3,980,346
1936-1940	2,282,301	3,424,361	97,413	12,261	3,317,886	237,283	49,232	7,825,593
1928	3,773,260	3,450,514	43,258	21,614	4,587,680	332,511	183,413	6,981,765
1929	3,939,307	3,510,538	47,320	17,531	5,351,382	447,817	166,010	7,904,738
1930	3,003,892	2,630,432	44,552	9,904	3,935,970	273,101	134,773	5,652,824
1931	1,679,194	2,065,974	35,980	7,968	2,310,401	136,332	51,008	3,906,344
1932	680,511	1,328,523	16,596	8,886	1,049,605	36,468	40,933	2,435,670
1933	1,113,857	2,266,986	18,902	14,940	1,242,592	35,877	32,812	3,717,306
1934	1,254,643	1,930,617	26,580	11,956	1,596,045	60,903	28,026	4,508,016
1935	1,514,328	2,733,689	29,223	18,794	1,959,709	64,191	46,593	5,334,391
1936	2,415,394	3,357,626	39,057	21,180	3,245,346	98,143	68,974	7,039,863
1937	2,563,445	3,370,405	67,209	17,717	3,670,068	208,072	87,666	7,488,937
1938	1,403,540	3,631,680	24,957	5,914	2,082,685	142,822	44,379	5,032,298
1939	2,330,128	3,680,297	35,224	11,975	3,358,985	182,731	44,277	8,315,227
1940	2,709,000	4,361,848	320,621	4,465	4,232,346	554,644	859	11,251,640
1941	3,637,574	5,268,423	187,326	119	5,724,236	365,233	366	14,494,334
1942	2,900,741	4,632,017	145,251	57	5,816,321	229,757	168	13,823,622
1943	3,022,398	4,693,798	176,039	31	4,575,844	239,985	169	14,472,550
1944	3,049,682	4,646,298	123,804	2	4,676,481	235,692	28,017	16,316,609
1945	2,894,023	4,591,157	109,334	2,197	4,467,164	368,301	2,682	15,703,271

<sup>1</sup> Includes skelp beginning 1922.  
<sup>2</sup> Merchant bars include concrete reinforcement bars and, beginning 1934, certain miscellaneous bars previously included in "All other finished rolled production."  
<sup>3</sup> Average for years 1887-90.  
<sup>4</sup> Average for years 1902-05.  
<sup>5</sup> Average for years 1892-95.  
<sup>6</sup> Average for period July 1, 1897, to Dec. 31, 1900.  
<sup>7</sup> Average for period July 1, 1903, to Dec. 31, 1905.  
<sup>8</sup> Small structural forms not included in 1911.

Source: Production, American Iron and Steel Institute, annual report. Exports and imports, Dept. of Commerce, Bureau of Foreign and Domestic Commerce through April 1941, Bureau of Census thereafter; annual report, Foreign Commerce and Navigation of the United States.

## NO. 970.—IRON AND STEEL—AGGREGATE EXPORTS: 1890 TO 1945

[Covers products listed in table 971; excludes data for highly elaborated products of iron and steel. Value figures through 1921 exclude, and those beginning 1922 include data for small items for which quantity figures are not available. Ferromanganese data included for all years. Data for steam and hot-water heating boilers and radiators, formerly classified as heavy iron and steel products, excluded beginning with 1922]

[Quantities in thousands of long tons (2,240 pounds); values in thousands of dollars]

YEAR	Quantity	Value	YEAR	Quantity	Value	YEAR	Quantity	Value
1890	52		1922	1,995	136,334	1934	2,813	88,691
1895	89		1923	2,010	167,247	1935	3,064	88,414
1900	1,164	42,518	1924	1,806	150,494	1936	3,157	112,692
1905	1,010	33,813	1925	1,763	144,262	1937	7,579	302,360
1910	1,538	63,436	1926	2,167	174,145	1938	5,148	185,432
1914	1,560	63,409	1927	2,183	160,609	1939	6,084	236,947
1915	3,533	140,993	1928	2,865	179,881	1940	10,603	524,426
1917	6,439	507,041	1929	3,038	200,203	1941	7,168	506,901
1918	5,375	558,279	1930	1,983	139,039	1942	6,596	598,939
1919	4,400	410,164	1931	969	63,226	1943	6,469	621,847
1920	4,935	453,376	1932	595	28,857	1944	5,489	560,178
1921	2,213	214,830	1933	1,341	45,534	1945	4,647	461,631

## NO. 971.—IRON AND STEEL—EXPORTS, BY KIND: 1942 TO 1945

ARTICLE	QUANTITY IN LONG TONS (2,240 POUNDS)				VALUE IN THOUSANDS OF DOLLARS			
	1942	1943	1944	1945	1942	1943	1944	1945
Total	6,595,652	6,468,627	5,488,944	4,647,281	598,939	621,847	560,178	461,631
Pig iron, not including ferro-alloys	98,792	128,812	145,070	81,221	3,145	4,291	4,307	2,390
Ferromanganese and spiegeleisen	6,450	11,449	7,715	2,883	979	1,728	108	258
Other ferro-alloys	13,069	30,167	7,123	4,804	6,459	5,513	9,307	3,442
Scrap	126,549	49,013	85,432	85,477	3,322	1,071	1,911	2,589
Ingot, blooms, sheet bars, skelp, etc.	2,113,661	1,946,715	1,128,988	312,751	100,008	97,688	87,120	17,045
Iron and steel bars and alloy steel bars	568,873	561,393	581,889	538,126	79,467	84,693	72,787	50,558
Wire rods	129,688	157,178	110,536	97,619	7,498	9,224	6,078	5,493
Galvanized sheets	89,653	64,658	84,931	156,023	8,022	5,801	7,305	15,159
Plates, iron and steel	394,101	652,249	295,121	191,090	29,313	45,437	19,102	13,404
Black steel sheets	710,161	624,840	697,259	662,878	57,317	47,833	58,114	53,201
Black iron sheets	13,340	4,152	16,854	11,460	1,120	338	1,382	944
Hoop, band, and strip steel	198,235	178,594	189,245	127,164	25,479	27,994	27,012	14,359
Tin plate, terneplate, etc.	593,776	396,586	436,632	471,150	70,661	46,615	52,306	55,513
Structural shapes, plain material	170,649	167,673	148,259	255,725	9,318	9,467	8,670	14,420
Structural materials, fabricated	44,797	67,697	80,356	248,148	5,790	8,937	10,337	31,904
Tanks, complete and knocked down	24,951	26,037	39,076	29,796	3,320	4,207	5,233	4,394
Metal lath	1,032	474	568	1,689	198	102	104	331
Steel rails	228,713	278,447	282,960	292,862	11,515	12,880	12,989	14,434
Rail fastenings, switches, frogs, etc.	49,543	86,790	120,180	115,688	4,926	8,502	11,719	11,654
Boiler tubes	27,071	50,623	69,635	47,075	4,473	9,174	14,616	8,140
Casing and oil-line pipe	122,166	101,102	177,338	229,259	12,300	10,649	20,071	24,523
Seamless black pipe, except casing and oil-line	54,720	74,420	40,239	19,265	7,122	8,935	6,337	2,355
Black and galvanized welded pipe	141,116	131,368	117,525	108,588	14,627	14,470	12,908	12,394
Cast-iron pipe and fittings	20,683	26,172	38,359	66,012	2,076	3,253	5,323	5,323
Malleable-iron screwed pipe fittings	4,486	5,183	4,061	3,287	1,894	2,145	1,782	1,534
All other iron and steel pipe and fittings, n. o. s.	104,096	116,933	101,034	55,172	19,408	26,966	26,374	18,229
Barbed-wire and woven-wire fencing	146,936	22,932	29,002	31,400	13,792	2,494	3,350	4,325
Plain and galvanized wire	133,179	145,351	126,018	108,527	17,211	21,418	17,815	13,323
Woven-wire screen cloth	4,476	3,503	4,256	3,364	1,676	2,444	2,685	2,047
Wire rope and wire strand	33,090	34,751	34,099	28,220	14,381	16,952	16,270	12,301
Electric welding rods	4,564	7,765	12,342	12,620	1,869	2,595	3,168	2,398
Wire, other, and manufactures thereof	20,232	23,706	28,507	10,824	6,210	8,382	8,456	5,911
Wire nails	21,945	36,746	38,103	27,914	2,219	3,378	3,498	2,871
Nails other than wire, tacks, staples	7,022	7,563	9,926	9,802	1,287	1,681	2,043	2,296
Horseshoes	63	139	266	1,501	12	23	46	260
Bolts, nuts, rivets, and washers <sup>1</sup>	30,041	48,667	50,100	37,325	9,884	14,318	14,008	10,638
Car wheels and axles	50,470	97,004	74,935	74,961	5,859	11,831	9,356	8,700
Iron castings	22,315	21,316	20,478	41,826	3,395	4,196	3,957	4,520
Steel castings	11,005	17,945	14,546	9,239	4,046	6,430	5,694	2,658
Forgings	60,544	62,515	46,170	25,466	27,338	28,199	18,605	5,184

<sup>1</sup> Except railroad.

No. 972.—IRON AND STEEL—AVERAGE ANNUAL PRICES, BY CLASS OR KIND:  
1891 TO 1946

[Prices of pig iron, rails, and billets, and wire rods in dollars per long ton (2,240 pounds); other prices in dollars per 100 pounds]

YEAR	PIG IRON			Open hearth rails at mills in Pennsylvania <sup>2</sup>	Open hearth steel billets, Pittsburgh <sup>3</sup>	Wire rods, Pittsburgh	Merchant bars, Pittsburgh	Iron bars (best refined), Pittsburgh <sup>4</sup>	Tank plates, Pittsburgh	Structural shapes, Pittsburgh <sup>5</sup>	Composite finished steel
	Basic, The Valleys	Southern, No. 2, Cincinnati	Local, No. 2, Chicago <sup>1</sup>								
1891-1895	-----	11.74	12.80	27.27	20.89	-----	-----	1.46	-----	-----	-----
1896-1900	-----	12.56	14.30	24.96	21.08	-----	6 1.46	1.50	1.61	6 1.63	-----
1901-1905	-----	15.80	17.50	27.87	25.76	-----	1.47	1.77	1.60	1.63	-----
1906-1910	16.87	17.66	19.42	28.00	26.60	-----	1.47	1.75	1.57	1.58	1.77
1911-1915	13.66	14.10	14.72	28.00	22.43	-----	1.31	1.47	1.32	1.32	1.54
1916	19.76	18.67	20.26	32.00	43.95	-----	2.67	2.13	3.53	2.55	2.67
1917	38.90	38.95	41.31	38.00	70.96	-----	3.64	3.83	5.88	3.67	4.19
1918	32.50	36.56	33.25	55.00	47.33	-----	2.89	4.31	3.24	2.99	3.54
1919	27.67	32.17	29.11	47.29	40.54	53.98	2.50	4.10	2.72	2.52	3.12
1920	42.25	44.52	42.52	52.42	56.14	69.55	3.22	4.75	3.28	2.95	3.74
1921	21.73	26.68	22.93	44.06	34.46	45.94	1.87	4.47	1.98	1.94	2.44
1922	24.20	23.93	24.85	40.75	33.90	40.49	1.72	3.35	1.72	1.71	2.12
1923	25.81	27.87	28.16	43.00	41.75	50.39	2.36	3.50	2.43	2.43	2.70
1924	20.24	23.91	22.10	43.00	37.99	48.31	2.20	4.00	2.12	2.19	2.51
1925	19.59	23.74	22.09	43.00	35.62	46.05	2.02	4.52	1.91	1.99	2.63
1926	18.55	24.71	21.64	43.00	35.00	45.00	2.00	4.62	1.88	1.95	2.32
1927	17.70	21.16	19.68	43.00	33.27	42.44	1.84	4.68	1.82	1.83	2.20
1928	16.66	19.70	18.54	43.00	32.67	42.55	1.87	4.64	1.87	1.87	2.17
1929	18.19	18.51	20.00	43.00	34.66	41.50	1.92	4.13	1.93	1.92	2.29
1930	17.98	16.16	18.47	43.00	31.84	36.91	1.71	4.11	1.69	1.69	2.11
1931	15.85	14.52	17.35	43.00	29.36	35.03	1.63	3.69	1.62	1.62	1.96
1932	13.98	13.84	15.87	42.44	26.52	37.00	1.57	3.35	1.57	1.57	1.87
1933	15.24	16.31	16.47	39.25	26.00	35.15	1.64	3.35	1.61	1.68	1.85
1934	17.69	18.80	18.19	36.37	27.10	37.37	1.81	3.50	1.78	1.78	2.05
1935	18.17	19.34	18.68	36.37	27.25	38.21	1.81	3.50	1.80	1.80	2.07
1936	19.10	19.99	19.60	36.59	29.68	39.12	1.95	3.70	1.85	1.85	2.12
1937	22.99	23.20	23.49	41.86	36.45	46.27	2.40	4.50	2.21	2.21	2.54
1938	21.70	22.18	22.20	41.77	35.45	44.93	2.35	4.50	2.17	2.17	2.46
1939	21.09	21.64	21.69	40.00	34.00	43.00	2.19	4.40	2.10	2.10	2.31
1940	22.53	23.06	23.03	40.00	34.00	44.80	2.15	4.64	2.10	2.10	2.30
1941	23.50	24.02	24.00	40.00	34.00	44.80	2.15	5.00	2.10	2.10	2.30
1942	23.50	24.52	24.00	40.00	34.00	44.80	2.15	5.00	2.10	2.10	2.28
1943	23.50	24.25	24.00	40.00	34.00	44.80	2.15	5.14	2.10	2.10	2.29
1944	23.50	24.81	24.00	40.00	34.00	44.80	2.15	5.85	2.10	2.10	2.27
1945	24.52	26.19	25.02	42.44	35.21	46.85	2.21	5.40	2.21	2.10	2.42
1946	27.14	29.80	27.64	43.67	38.62	51.30	2.43	7.00	2.47	2.32	2.68

<sup>1</sup> At furnace after 1907.

<sup>2</sup> Bessemer rails prior to Oct. 22, 1921.

<sup>3</sup> Bessemer billets prior to 1927.

<sup>4</sup> Muck iron in 1891.

<sup>5</sup> Beams prior to Mar. 19, 1929.

<sup>6</sup> Average for 1898-1900.

<sup>7</sup> Average for week of Dec. 25, 1945.

<sup>8</sup> Average for week of Dec. 24, 1946.

<sup>9</sup> Double refined iron bars.

Source: Steel and The Iron Age, annual review issues; and American Iron and Steel Institute, annual report.

No. 973.—MAGNESIUM—PRODUCTION OF SEMIFABRICATED PRODUCTS: 1940 TO 1946

[Thousands of pounds]

CLASS	1940	1941	1942	1943	1944	1945	1946
Total	5,476	13,675	15,164	14,262	13,418	89,770	15,114
Castings:							
Sand	3,974	11,945	32,024	59,123	75,221	42,471	7,149
Permanent mold			20,387	81,337	123,004	39,592	532
Die	699	768	1,346	2,866	2,362	1,689	791
Sheet, strip, and plate	395	485	887	1,680	2,308	2,900	3,411
Extrusions	411	451	475	1,029	9,198	3,118	3,231
Forgings	26	26	45	227	425		

<sup>1</sup> Excludes extruded sheet stock, forging stock, powder, and sticks.

<sup>2</sup> Represents extrusions, including forging stock; forgings data not available.

Source: 1940 and 1941, Department of Interior, Bureau of Mines; Minerals Yearbook 1942 and subsequent years, Department of Commerce, Bureau of the Census; Facts for Industry Series, M24G.

## No. 974.—BRASS MILL PRODUCTION: 1942 TO 1946

[Thousands of pounds]

CLASS	1942 (July-Dec.)	1943	1944	1945	1946 (Apr.-Dec.)
All products.....	2, 402, 892	5, 610, 026	5, 013, 514	3, 782, 354	1, 834, 090
Alloyed products.....	2, 180, 474	5, 226, 179	4, 618, 353	3, 312, 409	1, 351, 772
Plate, sheet, and strip.....	1, 568, 082	3, 994, 819	3, 272, 926	2, 051, 366	640, 371
Rod and wire.....	457, 354	943, 870	1, 018, 479	989, 362	677, 320
Tubes.....	155, 038	287, 490	326, 948	271, 771	134, 081
Unalloyed products.....	222, 418	383, 847	395, 161	469, 855	2 482, 318

<sup>1</sup> Includes estimated production amounting to less than 1 percent.<sup>2</sup> Includes 84,338 pounds of copper water tubing.

Source: Civilian Production Administration; published in Facts for Industry Series 10-1. Refer inquiries to Department of Commerce, Bureau of the Census.

No. 975.—NONFERROUS METALS AND ALLOYS, AND FINISHED PRODUCTS THEREOF—  
PRODUCTION, BY KIND: 1935, 1937, AND 1939

[Covers products made for sale and interplant transfer, excluding those made for consumption in same works. Data represent production of commodities specified, whether made as primary or as secondary products by industries reporting them. Census designations of industries in which these commodities are made are as follows: "Alloying; and rolling and drawing of nonferrous metals, except aluminum"; "Secondary smelting and refining of nonferrous metals, not elsewhere classified"; "Nonferrous metal foundries (except aluminum)"; and "Nonferrous metal products not elsewhere classified." No data are included for production of copper, lead, zinc, and other nonferrous metals from the ore nor of secondary metals by establishments engaged in primary smelting and refining of nonferrous metals]

KIND	TONS (2,000 POUNDS)			VALUE (\$1,000)		
	1935	1937	1939	1935	1937	1939
Ingot and pigs:						
Brass and bronze.....	74, 388	138, 762	114, 208	<sup>1</sup> 14, 381	34, 348	25, 102
Antifriction-bearing metal.....	19, 638	40, 970	20, 900	<sup>1</sup> 6, 520	11, 674	7, 439
Solders, all kinds.....	38, 950	58, 546	56, 617	<sup>1</sup> 16, 720	28, 622	25, 409
Type metal.....	28, 381	34, 756	31, 901	<sup>1</sup> 4, 234	6, 258	5, 673
Copper, secondary.....	29, 281	39, 890	44, 458	4, 935	9, 499	9, 827
Lead, secondary.....	129, 512	125, 520	148, 822	11, 429	15, 437	15, 909
Zinc, secondary.....	31, 058	47, 918	44, 485	3, 044	6, 221	4, 955
Tin, secondary.....	2, 746	4, 924	5, 450	<sup>1</sup> 2, 712	4, 983	5, 422
Plates and sheets:						
Brass and bronze.....	153, 304	195, 822	186, 548	44, 606	78, 798	68, 452
Copper.....	93, 014	104, 366	105, 211	26, 143	36, 350	36, 282
Lead.....	17, 332	22, 503	23, 407	2, 309	3, 776	3, 440
Zinc.....	49, 931	63, 744	60, 998	8, 131	12, 342	10, 027
Nickel-alloys.....	14, 881	17, 899	25, 515	7, 713	10, 795	12, 145
Rods:						
Brass and bronze.....	94, 261	139, 743	135, 156	23, 894	43, 240	36, 949
Copper.....	111, 334	199, 374	204, 903	22, 387	44, 080	45, 364
Nickel-alloys and other nonferrous metals and alloys.....				6, 400	8, 760	8, 731
Extruded shapes.....				5, 966	6, 077	4, 668
Tubing (seamless) and pipe:						
Brass and bronze.....	47, 834	78, 865	70, 183	16, 626	34, 870	29, 735
Copper.....	33, 992	57, 999	67, 330	12, 039	26, 282	29, 380
Lead.....	16, 829	22, 965	17, 923	2, 455	3, 028	2, 706
Nickel-alloys.....	1, 304	1, 918	2, 478	1, 522	2, 165	2, 524
Other tubing, including brazed.....	( <sup>2</sup> )	( <sup>2</sup> )	3, 189	1, 399	2, 183	1, 547
Wire and wire products <sup>3</sup> .....				40, 459	83, 860	67, 848
Castings, rough:						
Brass and bronze.....	51, 598	126, 281	93, 371	<sup>4</sup> 19, 156	49, 354	37, 712
Copper.....	1, 820	3, 901	3, 296	<sup>4</sup> 771	2, 214	1, 777
Nickel-alloys <sup>5</sup> .....	1, 194	1, 513	1, 139	<sup>4</sup> 1, 123	1, 470	1, 087
Bells, cast.....				( <sup>2</sup> )	158	145
Finished products:						
Bearings and bushings (including antifriction linings).....				21, 209	43, 255	37, 192
Die castings.....				20, 267	28, 073	28, 559
Castings, finished.....				4, 356	3, 475	3, 823
Forged and hot-pressed parts.....				2, 723	6, 837	5, 931
Fittings.....				( <sup>2</sup> )	6, 094	9, 247
Spun ware.....				( <sup>2</sup> )	2, 321	3, 557
Powder.....				( <sup>2</sup> )	( <sup>2</sup> )	1, 792

<sup>1</sup> Not including the value of ingots and pigs for which no quantity was reported as follows: Brass and bronze, \$197,000; antifriction-bearing metal, \$1,186,000; solders, \$2,010,000; type metal, \$214,000; secondary tin, \$44,000.<sup>2</sup> Data not available.<sup>3</sup> Reported by establishments classified in this industry only.<sup>4</sup> Not including the value of castings for which no quantity was reported as follows: Brass and bronze, \$14,303,000; copper, \$644,000; nickel alloys, \$27,000.<sup>5</sup> Other than heat-corrosion resistant.

Source: Dept. of Commerce, Bur. of the Census; reports of Biennial Census of Manufactures.

NO. 976.—SELECTED METAL PRODUCTS—FACTORY SHIPMENTS: 1945 AND 1946

[Leaders indicate no data available]

PRODUCT AND UNIT OF MEASURE	1945		1946	
	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
<b>Containers and closures:</b>				
Steel shipping barrels and drums.....number..	32, 193, 045		31, 649, 398	
Steel packages, kegs, and pails.....do.....	62, 294, 787		55, 560, 197	
Metal cans.....short tons of steel consumed..	2, 438, 897		2, 759, 519	
Food.....do.....	2, 027, 600		2, 305, 359	
Non-food.....do.....	411, 297		454, 160	
Crowns.....gross.....			288, 559, 772	
Closures (except crowns).....1, 000.....			16, 786, 698	
Commercial.....do.....			15, 985, 158	
Home canning.....do.....	1 980, 485		801, 540	
<b>Heating and cooking equipment:</b>				
<b>Domestic cooking stoves and ranges.....number.....</b>				
Electric.....do.....			3, 376, 011	220, 851
Gas, including bungalow.....do.....			576, 723	55, 089
Liquid fuel.....do.....	958, 614		1, 782, 138	114, 476
Coal and wood.....do.....	618, 670		516, 308	15, 300
Combination.....do.....	358, 899		405, 190	21, 059
Combination.....do.....	59, 848		115, 652	14, 927
<b>Domestic heating stoves.....do.....</b>				
Gas.....do.....	2, 953, 427		4, 204, 604	79, 536
Liquid fuel.....do.....	745, 591		1, 258, 249	16, 356
Coal and wood.....do.....	579, 125		1, 319, 052	39, 206
Coal and wood.....do.....	1, 628, 711		1, 627, 303	23, 974
<b>Water heaters.....do.....</b>				
Electric.....do.....	1 1, 466, 237		2, 847, 142	98, 719
Electric.....do.....	1 170, 818		496, 912	25, 662
Non-electric.....do.....	1 1, 295, 419		2, 350, 230	73, 057
Direct-fired.....do.....	1 1, 160, 635		2, 063, 088	65, 435
Indirect.....do.....	1 134, 784		287, 142	7, 622
Range boilers.....do.....	795, 526		1, 013, 541	9, 340
Cast iron boilers.....1, 000 pounds.....	206, 112		249, 765	28, 689
Cast iron radiators and convectors.....1, 000 sq. ft. heating surf. ....	1 16, 900		38, 358	14, 787
<b>Oil burners.....number.....</b>				
Residential.....do.....	182, 130		579, 453	
Non-residential.....do.....	151, 380		542, 147	
Mechanical stokers.....do.....	30, 750		37, 306	
Mechanical stokers.....do.....	130, 824		190, 917	
Warm air furnaces.....do.....	372, 169	37, 939	691, 032	87, 211
Forced air.....do.....	78, 236	12, 639	239, 702	45, 196
Gravity air.....do.....	293, 933	25, 299	451, 330	42, 015
<b>Construction machinery:</b>				
Power cranes and shovels.....do.....			5, 696	81, 324
Road const. and maint. mach.....do.....				88, 610
Dozers.....number.....			18, 036	20, 190
Tracklaying tractors.....do.....			25, 929	81, 356
Mixers, pavers, related equip.....do.....				32, 638
Misc. construction machinery.....do.....				25, 022
<b>Plumbing fixtures:</b>				
Bathtubs, cast iron and steel.....number.....	263, 102		1, 034, 660	
Lavatories.....do.....	990, 929		1, 769, 115	
Vitreous china.....do.....	847, 957		1, 016, 565	
Cast iron and steel.....do.....	142, 972		752, 550	
Kitchen sinks.....do.....	652, 565		2, 129, 912	
Vitreous china.....do.....	493, 794		326, 948	
Cast iron.....do.....	119, 094		897, 586	
Steel.....do.....	39, 677		905, 378	
<b>Transportation equipment:</b>				
Truck trailers.....do.....			73, 001	151, 384
Complete trailers.....do.....			67, 386	142, 801
Trailer chassis only.....do.....			5, 615	8, 583
Trailer coaches (housing types).....do.....			47, 103	74, 584
Complete aircraft (civilian).....do.....	1 16, 225		34, 874	170, 800
Aircraft engines (civilian).....do.....			40, 822	56, 217
<b>Miscellaneous:</b>				
Lawn mowers.....do.....	74, 500	1, 470	1, 483, 218	31, 424
Domestic water systems.....do.....	390, 130	23, 557	625, 729	40, 774
Wheelbarrows.....do.....	505, 417	3, 251	561, 981	3, 866
Electric power plants (10 kw or under).....do.....	158, 989	45, 129	113, 056	19, 016
Wind driven.....do.....	22, 559	1, 307	42, 740	1, 466
Other.....do.....	136, 430	43, 822	70, 316	17, 550
Scales and balances.....do.....				31, 935
Electric lamps.....1, 000.....	1, 250, 689	144, 148	1, 367, 500	143, 865
Sewing machines.....number.....			482, 753	36, 199
Domestic.....do.....			359, 649	16, 110
Industrial.....do.....			123, 104	20, 088

<sup>1</sup> Data represent production rather than shipments.

Source: Department of Commerce, Bureau of Census; Facts for Industry Series. Data for power cranes and shovels from Power Crane and Shovel Assn. Data on electric stoves and electric water heaters for 1946 from National Electric Manufacturers' Assn. and Bureau of Census. Data on home canning closures, heating and cooking equipment, and water heaters for 1945 from WPB and Bureau of Census. Data on cast iron boilers, and cast iron radiators and convectors for 1945 from WPB.

## No. 977.—MACHINERY—VALUE OF THE PRINCIPAL CLASSES MANUFACTURED

[In thousands of dollars. The various classes of machinery listed are products of a number of industries, such as "Industrial machinery, not elsewhere classified," "Motor vehicles, motor-vehicle bodies, parts and accessories," "Agricultural machinery (except tractors)," etc. This table is not an industry presentation, but a special presentation giving value of products for groups designated. The values are in part duplicated in other tables in this Abstract such as tables 978 and 982.]

CLASS	1929	1933	1935	1937	1939
Agricultural machinery.....	167,673	17,109	68,916	114,340	96,207
Aircraft (begun and completed within year).....	52,157	15,860	17,454	38,664	75,873
Bakers' machinery and equipment.....	21,730	7,332	11,869	18,120	17,583
Blowers and fans.....	25,243	6,955	15,830	26,282	24,561
Bottlers' machinery, except for dairies.....	11,082	9,157	8,264	21,135	11,959
Canning machinery.....	8,535	3,139	8,271	11,840	4,103
Cash registers, adding, calculating, and card-tabulating machines, and typewriters.....	151,583	46,577	83,217	118,552	95,712
Cement and concrete machinery (not including cement-making, etc.).....	4,132	224	1,809	4,053	1,739
Cement-making machinery.....	4,387	545	1,646	2,065	3,035
Clay-working machinery (brick, pottery, etc.).....	4,402	591	1,071	2,727	2,059
Coin-operated commodity or vending machines.....	8,821	5,472	5,989	8,978	6,154
Commercial laundry, dry-cleaning, and pressing machinery.....	36,110	7,993	14,241	21,969	20,727
Confectionery and ice-cream machinery.....	3,674	2,667	5,052	7,217	6,985
Construction and similar machinery.....	160,683	25,858	61,708	133,869	115,298
Cotton-ginning machinery.....	11,760	2,165	4,892	11,300	5,115
Dairy machinery.....	16,593	8,327	14,864	18,462	15,467
Electrical machinery (generators, motors, and fans, including parts).....	285,974	73,405	151,501	296,690	219,910
Elevators, escalators, and conveyors:					
Automobile lifts.....	( <sup>5</sup> )	1,869	4,013	3,786	4,254
Conveying and elevating machinery.....	48,537	11,413	22,045	33,911	29,773
Elevators, escalators, and dumb-waiters.....	44,044	8,322	9,110	21,235	16,989
Engines (steam or internal-combustion), turbines, and water wheels <sup>6</sup> .....	129,175	25,874	61,555	113,851	113,572
Flour-mill and grain-mill machinery.....	3,286	2,354	5,187	6,916	6,087
Foundry machinery.....	10,639	1,957	5,585	9,156	6,804
Glass-making machinery.....	3,688	1,895	3,543	4,729	4,459
Lawn mowers.....	10,953	3,467	4,987	8,427	9,691
Leather-working machinery, other than shoe.....	1,249	747	1,005	1,220	1,265
Locomotives.....	82,909	2,748	21,735	65,163	43,411
Machine tools.....	147,316	16,457	64,515	162,046	166,649
Metalworking machinery.....	92,358	23,151	80,346	131,664	107,709
Mining machinery (not including well drilling or dredging).....	40,325	8,107	21,195	29,124	34,380
Motorcycles, side cars, bicycles, and parts.....	21,198	( <sup>5</sup> )	22,807	39,827	38,917
Motor vehicles and chassis.....	3,412,056	928,650	2,152,986	2,848,786	2,275,254
Oil-field machinery, tools, and equipment.....	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	120,888	81,562
Oil-mill machinery, cottonseed and other.....	2,533	2,110	2,790	4,677	2,931
Oil-refinery machinery.....	30,210	4,807	7,951	14,816	16,360
Packing-house machinery.....	6,663	2,756	5,317	7,029	6,023
Paper-mill and pulp-mill machinery.....	30,456	8,696	14,829	33,177	21,516
Printers' machinery.....	64,860	13,598	30,377	46,682	31,749
Pumps, pumping equipment, and air compressors:					
Measuring and dispensing pumps.....	132,747	10,343	18,092	38,893	31,767
Pumps and pumping equipment.....		25,322	46,118	82,982	79,230
Air compressors.....	39,683	7,214	15,891	28,328	21,232
Refrigerators, mechanical.....	167,149	90,694	152,513	243,865	198,977
Refrigerating and ice-making machinery.....		4,115	6,570	9,534	6,541
Rubber-working machinery.....	13,552	3,347	4,883	12,271	13,685
Scales and balances.....	25,385	6,805	12,191	17,169	13,544
Sewing machines.....	37,378	10,274	18,250	24,503	20,304
Shoe machinery.....	12,317	8,130	10,245	10,903	10,603
Stokers, mechanical.....	14,054	5,629	11,537	22,176	20,275
Sugar-mill machinery.....	5,046	794	1,260	4,344	2,935
Textile machinery and parts.....	115,525	57,892	64,899	110,696	85,601
Tobacco-manufacturers' machinery.....	5,018	1,106	1,693	3,679	3,837
Vacuum cleaners (electric).....	35,108	14,411	24,191	36,029	44,150
Washing machines, clothes wringers, driers, and ironing machines for domestic use.....	79,011	42,422	59,513	73,291	66,282
Well-drilling machinery (excluding oil-well).....	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	3,834	1,519
Windmills.....	4,063	1,400	1,833	2,613	1,929
Woodworking machinery.....	35,151	6,100	12,542	23,118	23,413

<sup>1</sup> Not strictly comparable with figures for earlier years.

<sup>2</sup> Includes postal meters.

<sup>3</sup> Excludes dry-cleaning machinery.

<sup>4</sup> Not including mining dredges.

<sup>5</sup> No comparable data.

<sup>6</sup> Not including motor-vehicle or aircraft engines.

<sup>7</sup> Includes dredging.

<sup>8</sup> Includes mine conveying and elevating machinery.

<sup>9</sup> Not strictly comparable with figures for 1939.

<sup>10</sup> Includes parts and attachments.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

## No. 1978.—ELECTRICAL MACHINERY GROUP—VALUE, BY CLASSES: 1933 TO 1939

[In thousands of dollars]

PRODUCT	1933	1935	1937	1939
<b>Electrical machinery, total</b> .....	<b>648, 671</b>	<b>1, 124, 848</b>	<b>1, 935, 844</b>	<b>1, 754, 068</b>
<b>Wiring devices and supplies</b> .....	<b>38, 948</b>	<b>63, 559</b>	<b>109, 529</b>	<b>109, 140</b>
Wiring devices.....	17, 796	24, 583	32, 003	34, 788
Wiring supplies.....	4, 702	12, 345	23, 607	25, 099
Insulators and insulating materials.....	(1)	(1)	2 6, 344	3 3, 024
Conduits and fittings.....	14, 692	23, 095	39, 445	38, 497
Lighting arresters and choke coils.....	1, 592	2, 871	5, 983	5, 412
Relays (excluding industrial motor-control and telephone).....	160	664	2, 088	1, 421
<b>Carbon products for the electrical industry, and manu- factures of carbon or artificial graphite</b> .....	<b>8, 997</b>	<b>12, 470</b>	<b>20, 432</b>	<b>18, 585</b>
Brushes and plates, rods, and powder for making brushes.....	2, 282	4, 150	6, 511	5, 330
Electrodes.....				10, 102
Other carbon and graphite products.....	6, 715	8, 320	13, 921	3, 153
<b>Electrical measuring instruments</b> .....	<b>9, 162</b>	<b>22, 822</b>	<b>39, 026</b>	<b>37, 145</b>
Measuring instruments and meters.....	9, 162	22, 822	36, 879	32, 689
Analizers for testing the electrical and other equipment of internal- combustion engines and radio apparatus.....	(1)	(1)	2, 147	4, 456
<b>Generating, distribution, and industrial apparatus, and ap- paratus for incorporation in manufactured products, not elsewhere classified</b> .....	<b>120, 961</b>	<b>241, 564</b>	<b>492, 735</b>	<b>404, 583</b>
Generating apparatus and parts, except railway and vehicle power generators.....	2 14, 129	2 40, 976	60, 952	46, 850
Transformers, current-limiting reactors, and feeder-voltage regula- tors (except measuring-instrument transformers).....	4 13, 094	23, 881	83, 613	65, 064
Rotating converting apparatus.....	2, 201	5, 862	10, 928	4, 816
Motors, except railway and vehicle motors (not including starters and controllers).....	45, 606	72, 668	153, 295	123, 050
Fractional-horsepower.....	23, 746	32, 365	71, 723	55, 037
Number..... thousands	3, 818	7, 019	20, 666	11, 856
1 hp. and over.....	17, 197	34, 662	67, 400	52, 049
Direct-current.....	3, 622	8, 489	15, 629	11, 675
Alternating-current.....	13, 574	26, 073	51, 771	40, 375
Number..... thousands	172	294	521	457
Other motors and parts and supplies.....	6 4, 663	15, 740	14, 172	15, 904
Control apparatus (except railway and vehicle controllers, all types).....	15, 165	28, 230	47, 388	46, 040
Fuses and fuse blocks (except high-voltage and power types, 2,300 volts and over).....	4, 825	5, 013	7, 117	6, 879
Industrial and commercial apparatus and appliances.....	9, 698	23, 747	40, 697	34, 901
Switchboard apparatus (circuit breakers, panelboards, switch- boards, and switches).....	16, 243	36, 188	88, 743	76, 983
Panelboards and distribution boards.....	(1)	7, 896	16, 692	14, 451
Knife, power, and other switches.....	(1)	5, 882	13, 649	15, 447
Circuit breakers, including attachments and parts.....	(1)	8, 019	22, 452	17, 199
Power switchboards and parts.....	(1)	9, 008	21, 221	18, 133
Power switching equipment, power connectors, and distribu- tion cut-outs and fuse links for 2,300 to 15,000 volts, a. c. service.....	(1)	5, 884	14, 730	11, 752
<b>Electrical appliances</b> .....	<b>39, 770</b>	<b>80, 891</b>	<b>130, 783</b>	<b>124, 327</b>
Fans (direct motor-driven).....	2, 437	6, 695	15, 565	8, 286
Domestic cooking and heating equipment and other household ap- pliances.....	36, 707	72, 457	112, 151	112, 248
Water heaters (for permanent installation).....	432	3, 530	5, 605	3, 453
Cooking and heating appliances.....	14, 735	31, 689	54, 615	48, 443
Mixers, whippers, and juicers.....	(1)	9, 737	7, 372	6, 546
Number..... thousands	(1)	(1)	1, 053	1, 086
Vacuum cleaners.....	14, 411	24, 191	36, 029	44, 160
Number..... thousands	555	1, 112	1, 515	1, 445
Other.....	7, 129	3, 410	8, 530	9, 646
Commercial cooking apparatus and other commercial or domestic appliances.....	625	1, 739	3, 067	3, 792
<b>Insulated wire and cable</b> .....	<b>65, 637</b>	<b>122, 226</b>	<b>245, 342</b>	<b>204, 430</b>
Rubber insulated.....	25, 789	46, 242	90, 432	67, 435
Cotton insulated, including weatherproof and slow-burning.....	7, 248	12, 344	22, 680	20, 856
Asbestos-insulated.....		3, 041	6, 530	4, 476
Paper-insulated.....	6, 032	8, 129	33, 420	20, 783
Varnished-cambrie insulated.....	1, 979	4, 121	9, 140	5, 796
Magnet.....	10, 141	16, 899	29, 805	25, 431
Armored cable or conductor.....	4, 411	6, 845	8, 917	12, 985
Ignition-cable sets or wire assemblies for internal-combustion engines.....	(1)	(1)	13, 389	7, 714
Other.....	10, 039	24, 606	31, 028	38, 952

For footnotes, see next page.

## No. 978.—ELECTRICAL MACHINERY GROUP—VALUE, BY CLASSES: 1933 TO 1939—Continued

[In thousands of dollars]

PRODUCT	1933	1935	1937	1939
<b>Automotive electrical equipment</b> .....	32,464	65,828	114,149	106,634
Automotive generators for battery charging (not including auto- motive starter-motors).....	( <sup>8</sup> )	( <sup>8</sup> )	22,359	14,940
Automotive starter-motors, railway motors and control equipment, motors, generators, and control equipment for gasoline-electric and oil-electric buses, trucks, and locomotives, and for storage battery trucks.....	<sup>9</sup> 9,032	<sup>10</sup> 25,300	33,590	21,958
Ignition apparatus for internal-combustion engines.....	23,432	40,528	58,201	69,727
<b>Electric lamps</b> .....	49,849	64,774	77,891	79,304
Incandescent-filament lamps.....	11 49,849	62,703	74,304	73,119
Other lamps.....		2,072	3,588	6,185
<b>Radios, radio tubes, and phonographs</b> .....	119,235	206,633	288,620	284,476
Radio sets, complete (cabinet, chassis, speaker, and tubes).....	71,961	134,674	176,736	161,391
For home and general use (except radio-phonograph combina- tions and audio-television).....	56,240	104,816	131,526	111,848
Covering standard broadcast band.....	50,096	19,793	33,194	48,418
Number..... thousands.....	2,781	1,457	2,280	5,361
Socket-power-operated.....	48,164	14,908	29,529	35,436
Number..... thousands.....	2,689	1,250	2,045	4,209
Battery-operated (excluding batteries).....	1,932	4,885	3,665	12,982
Number..... thousands.....	93	187	235	1,153
Extending beyond standard broadcast band.....	5,071	85,023	98,332	63,429
Number..... thousands.....	116	2,961	3,663	2,895
Socket-power-operated.....	( <sup>1</sup> )	77,994	91,472	60,324
Number..... thousands.....	( <sup>1</sup> )	2,701	3,290	2,683
Battery-operated (excluding batteries).....	( <sup>1</sup> )	7,028	6,860	3,105
Number..... thousands.....	( <sup>1</sup> )	260	273	212
Not reported by kind.....	1,073			
Radio-phonograph combinations.....	1,408	2,461	4,567	17,193
Number..... thousands.....	30	23	58	476
Automobile sets, including all accessory equipment.....	13,598	25,556	38,679	27,716
Number..... thousands.....	700	1,222	1,891	1,687
All other receiving sets.....	715	1,841	1,963	4,634
Radio tubes (made for own use or for sale).....	27,027	31,562	42,797	35,575
Radio receiving tubes for use as initial equipment.....	9,345	16,021	23,769	22,935
Number..... thousands.....	23,417	41,462	70,746	78,194
Radio receiving tubes for renewal and replacement.....	15,870	12,954	15,482	10,012
Number..... thousands.....	39,442	36,769	41,472	31,527
Radio transmitting tubes.....	1,812	2,587	3,547	2,629
Number..... thousands.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	450
Transmitters (including all associated equipment except tubes).....	1,363	5,770	8,876	7,333
Phonographs and accessories.....	2,973	6,081	15,493	12 48,917
Other.....	15,910	28,545	44,718	31,260
<b>Communication equipment</b> .....	27,612	87,613	193,611	165,867
Radio apparatus.....	( <sup>13</sup> )	31,882	55,685	52,583
Signaling apparatus, electric (other than railway).....	6,432	12,146	22,043	19,789
Telephone and telegraph apparatus (not including wireless).....	21,180	43,584	115,883	94,496
<b>Batteries, storage and primary (dry and wet)</b> .....	67,444	85,718	102,877	111,217
Storage batteries.....	52,129	65,901	78,259	81,122
Dry batteries (cells).....	14 12,929	15,307	20,680	25,900
Wet primary batteries and parts and supplies for dry batteries and wet primary batteries.....	2,386	4,510	3,947	4,195
<b>X-ray and therapeutic apparatus and electronic tubes</b> .....	4,681	12,020	20,397	21,431
Electrotherapeutic and electromedical apparatus.....	4,389	4,680	6,534	6,326
X-ray apparatus (exclusive of X-ray tubes).....		4,563	10,506	
Nonradio electronic tubes and X-ray tubes.....	15 293	2,777	4,098	4,600
Electrical products not elsewhere classified.....	63,910	58,732	100,451	85,923

<sup>1</sup> No data.<sup>2</sup> Includes porcelain and trolley-line insulators for 1937 and earlier years.<sup>3</sup> Includes automotive generators for battery charging; for 1937 and 1939, data are included in "Automotive electrical equipment" industry.<sup>4</sup> Includes radio transformers; for 1935, 1937, and 1939, data are included in radio apparatus in "Communication equipment" industry.<sup>5</sup> Includes motors which in later years are included in other motors and parts and supplies.<sup>6</sup> Includes motors not reported by kind. See note 5 also.<sup>7</sup> Other motors only; parts and supplies included with automotive starter motors in "Automotive electrical equipment" industry.<sup>8</sup> See note 3.<sup>9</sup> Automotive starter motors only.<sup>10</sup> Automotive starter motors and parts and supplies for other motors, see note 7.<sup>11</sup> Includes X-ray tubes; for later years data are included in nonradio electronic tubes and X-ray tubes in "X-ray and therapeutic apparatus and electronic tubes" industry.<sup>12</sup> Includes phonographs for electrical reproduction of records, included in prior years in "Other."<sup>13</sup> No data for radio parts. See note 4 also.<sup>14</sup> Includes parts and supplies.<sup>15</sup> See note 11.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 979.—FARM MACHINES AND EQUIPMENT (COMPLETE UNITS, ATTACHMENTS AND PARTS)—SALES, BY CLASS: 1943 TO 1946

[In thousands of dollars. Excludes data for tractors for nonfarm use]

CLASS	1943	1944	1945	1946
<b>Total</b> .....	<b>378,341</b>	<b>659,014</b>	<b>750,547</b>	<b>886,451</b>
Farm machines and equipment (complete units).....	233,077	468,387	533,950	658,452
Attachments and parts.....	145,264	190,627	216,597	227,999
COMPLETE UNITS, ATTACHMENTS, AND PARTS				
Plows and listers.....	25,197	35,886	40,163	45,658
Harrows, rollers, pulverizers, and stalk cutters.....	10,824	22,514	22,599	32,414
Planting, seeding, and fertilizing machinery.....	16,358	35,110	43,286	52,062
Cultivators and weeders.....	16,172	30,713	33,567	34,203
Sprayers and dusters.....	8,366	13,085	14,715	24,274
Harvesting machinery.....	49,270	79,786	99,361	110,545
Haying machinery.....	26,115	44,743	49,456	57,839
Machines for preparing crops for market or for use.....	14,567	21,311	25,230	34,685
Farm elevators and blowers.....	3,495	4,585	6,144	11,121
Tractors for farm use.....	114,691	247,112	262,999	303,006
Farm wagons, trucks, and other farm transportation equipment.....	6,685	10,913	15,864	27,426
Farm dairy machines and equipment.....	25,024	36,127	46,752	49,548
Barn equipment.....	4,836	6,986	7,087	9,626
Barnyard equipment.....	4,052	7,184	8,087	8,792
Farm poultry equipment.....	17,989	21,326	24,868	23,928
Miscellaneous farm equipment.....	34,700	41,633	50,369	61,324

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M35A.

No. 980.—FARM MACHINES AND EQUIPMENT, ATTACHMENTS, AND PARTS—SALES: 1929 to 1946

[In thousands of dollars. Includes data for tractors for nonfarm use; for figures excluding these data, see table 979. Survey suspended 1932-34]

YEAR	Total	Farm machines and equipment	Attachments and parts	YEAR	Total	Farm machines and equipment	Attachments and parts
1929.....	517,015	434,754	82,261	1940.....	497,823	396,371	101,452
1930.....	439,812	361,218	78,594	1941.....	671,398	538,963	132,435
1931.....	223,427	171,731	51,696	1942.....	659,028	447,187	211,841
1935.....	294,546	234,959	59,587	1943.....	636,989	375,869	261,130
1936.....	402,875	327,941	74,934	1944.....	1,067,840	731,220	336,620
1937.....	517,475	436,878	80,797	1945.....	1,046,926	740,867	306,059
1938.....	435,806	346,133	89,673	1946.....	1,015,862	733,073	282,784
1939.....	420,797	330,894	89,903				

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M35A.

No. 981.—TRACTORS, ATTACHMENTS, AND PARTS (FARM AND NONFARM)—SALES,  
BY KIND: 1943 TO 1946

[Value in thousands of dollars]

YEAR AND TYPE OF PRODUCT	Total value	COMPLETE UNITS				ATTACHMENTS AND PARTS	
		Farm		Nonfarm		Farm value	Non-farm value
		Number	Value	Number	Value		
<b>Total:</b>							
1943	373,340	107,009	64,030	37,120	142,793	50,662	115,855
1944	655,938	258,117	170,153	53,877	262,832	76,959	145,994
1945	559,378	263,164	177,578	52,488	206,917	85,421	89,462
1946	432,418	361,358	211,422	31,747	74,626	91,584	54,786
<b>Wheel type:</b>							
1943	101,361	94,550	55,944	9,317	7,273	35,874	2,270
1944	236,395	235,453	157,519	14,502	12,594	59,007	7,275
1945	260,069	224,985	153,170	18,707	15,726	74,695	6,478
1946	267,798	243,271	172,243	12,067	11,447	77,766	6,342
<b>Tracklaying type:</b>							
1943	269,959	2,006	6,688	27,746	135,506	14,211	113,554
1944	416,137	6,221	10,415	38,966	250,168	16,866	138,658
1945	303,269	11,149	20,974	32,849	191,033	8,400	82,862
1946	138,683	8,898	17,294	17,367	62,780	10,401	48,208
<b>Garden type:</b>							
1943	2,020	9,553	1,398	57	14	577	31
1944	3,406	16,443	2,219	409	70	1,086	31
1945	6,040	27,030	3,434	932	158	2,326	122
1946	25,937	109,189	21,885	2,313	399	3,417	236

Source: Department of Commerce, Bureau of the Census; published in Facts for Industry Series M37A.

No. 982.—MACHINE TOOLS—PRODUCTION, BY KIND: 1937 AND 1939

PRODUCT	NUMBER		VALUE (THOUSANDS OF DOLLARS)	
	1937	1939	1937	1939
<b>Machine tools and replacement and repair parts, total value</b>			169,683	181,613
Boring machines	927	1,128	6,715	8,902
Boring mills (vertical-work revolving, including vertical turret lathes)	529	365	4,345	5,265
Broaching machines	594	470	2,237	2,296
Cutting-off machines			1,723	1,121
Drilling machines	(1)	17,000	17,256	12,373
Filing machines	673	305	118	56
Gear-cutting machines	1,855	1,420	10,860	9,449
Gear-chamfering machines	(1)	139	(1)	462
Gear-tooth grinding, shaving, or burnishing machines	(1)	171	(1)	1,331
Grinding machines			28,177	30,273
Keyseaters (except broaching)	(1)	402	(1)	81
Honing machines		357		1,359
Lapping machines	147	218	692	515
<b>Lathes:</b>				
Bench (plain and screw-cutting)	14,663	15,191	1,911	2,288
Engine	7,261	6,557	12,709	13,564
Automatic single-spindle (horizontal or vertical)	(1)	1,896	10,079	8,474
Automatic multiple-spindle (horizontal or vertical)	1,398	981	13,637	10,135
Turret	3,138	2,660	13,532	12,951
Polishing and buffing (bench and pedestal)	(1)	(1)		268
Other, including hand or speed	(1)	(1)	3,246	2,428
<b>Milling machines</b>	5,061	2 5,334	19,586	23,136
Planers	136	161	1,556	4,484
Shapers	893	1,163	1,982	1,892
Threading machines	(1)	(1)	4,179	3,536
Other machine tools			7,505	10,000
Replacements, and repair parts for machine tools for sale as such			7,637	10,173
Rebuilt machine tools reported separately				4,792

<sup>1</sup> Data incomplete or no comparable data.

<sup>2</sup> Excludes number for hand-feed milling machines for which a value of \$129,000 was reported.

Source: Department of Commerce, Bureau of the Census; reports of Biennial Census of Manufactures.

No. 983.—AIR CONDITIONING AND COMMERCIAL REFRIGERATION EQUIPMENT—  
SHIPMENTS BY MANUFACTURERS: 1940 AND 1944

[Value figures in thousands of dollars. Statistics cover types normally sold as standard items and more important types of components and accessories. Data include a very limited amount of certain types specifically designed for special uses. Excluded are less important components and accessories such as switches, delivery drawers, accumulators, valves, and surge drums and tanks. Companies included account for approximately 99 percent of the total value of equipment shipped during 1944]

PRODUCT	SHIPMENTS OF COMPLETE UNITS				ENCLOSURES ONLY	
	Self-contained units		Remote units		Number	Value
	Number	Value	Number	Value		
<b>1940, total unitary equipment.....</b>	<b>258,074</b>	<b>47,657</b>	<b>1 80,722</b>	<b>28,484</b>	<b>165,759</b>	<b>11,770</b>
Walk-in coolers.....	387	254	4,769	2,452	3,734	1,410
Reach-in refrigerators.....	6,284	1,411	14,358	4,064	8,020	1,972
Bottled beverage-cooling equipment.....	73,898	10,250	4,499	1,004	76,757	1,882
Display cases.....	9,981	4,270	26,382	12,011	6,577	2,592
Bulk beverage-dispensing equipment.....	14,241	3,327	6,263	1,244	9,513	842
Soda fountain equipment and ice cream cabinets.....	64,237	12,155	20,618	6,462	1,157	459
Soda fountain equipment.....	1,107	339	7,158	4,538	564	415
Ice cream cabinets, hardening and dispensing.....	61,604	10,438	12,677	1,502	593	74
Counter freezers.....	1,526	1,378	783	422		
Frozen food cabinets.....	9,231	1,861	377	98	136	9
Farm and dairy-milk coolers.....	(2)	(2)	(2)	(2)	(2)	(2)
Drinking-water coolers.....	41,994	4,467	2,852	165	24,584	638
Ice-making machines.....	403	486	682	142	5,510	160
Air-conditioning units—store type.....	5,880	4,467				
Absorption systems.....			(1)	881		
Cold-storage doors.....					12,575	910
Miscellaneous air-conditioning and refrigeration equipment <sup>2</sup> .....	31,478	4,710	22	9	18,190	865
<b>1944, total unitary equipment.....</b>	<b>125,473</b>	<b>40,387</b>	<b>1 27,553</b>	<b>12,207</b>	<b>41,833</b>	<b>7,651</b>
Walk-in coolers.....	1,117	1,120	4,565	3,962	2,094	3,363
Reach-in refrigerators.....	19,445	5,134	4,855	1,849	2,050	574
Bottled beverage-cooling equipment <sup>4</sup> .....	424	120	505	163	2,646	106
Display cases.....	3,446	2,083	4,154	2,103	1,472	658
Bulk beverage-dispensing equipment.....	172	88	157	133	299	20
Soda fountain equipment and ice cream cabinets.....	5,377	2,464	1,496	760	168	55
Soda fountain equipment.....	193	106	310	266	(5)	(5)
Ice cream cabinets, hardening and dispensing.....	2,232	490	428	151	(5)	(5)
Counter freezers.....	2,952	1,857	758	333		
Frozen food cabinets.....	2,277	746	12	8	14	5
Farm and dairy-milk coolers.....	27,311	4,530	1,241	226	3,781	236
Drinking-water coolers.....	46,135	6,090	9,760	472	2,488	71
Laboratory and industrial freezing equipment.....	1,100	981	(5)	(5)	91	28
Ice-making machines.....	2,857	3,221	808	130	739	175
Air-conditioning units—store type.....	4,468	3,615				
Absorption systems.....			(1)	2,410		
Cold storage doors.....					25,091	2,359
Special refrigeration units and systems for war purposes.....	11,015	10,133	(5)	(5)		
Miscellaneous air-conditioning and refrigeration equipment.....	329	71				

PRODUCT	1940				1944			
	Total shipments <sup>7</sup>		Domestic shipments		Total shipments <sup>7</sup>		Domestic shipments	
	Number	Value	Number	Value	Number	Value	Number	Value
<b>Total components and accessories.....</b>		<b>45,405</b>		<b>42,483</b>		<b>47,847</b>		<b>45,844</b>
Condensing units.....	211,021	18,808	197,564	17,423	189,578	21,872	182,348	21,080
Ammonia refrigerants.....	985	964	902	893	1,431	2,481	1,352	2,380
Refrigerants except ammonia.....	210,036	17,844	196,662	16,530	188,147	19,391	180,996	18,701
Air-cooled.....	187,468	12,313	175,153	11,323	177,717	15,282	171,217	14,753
Water-cooled.....	22,568	5,531	21,509	5,207	10,430	4,110	9,779	3,948
Compressors and compressor units.....	84,989	7,084	63,096	6,344	78,025	6,633	76,225	6,192
Centrifugal refrigeration machines.....	112	2,404	101	2,237	70	1,736	70	1,736
Heat-exchanger equipment.....		17,110		16,478		17,606		16,835
Evaporative condensers.....	2,413	1,769	2,212	1,666	1,626	1,691	1,486	1,577
Unit coolers.....	63,417	7,076	60,826	6,721	58,921	6,621	56,802	6,407
Other heat-exchanger equipment.....		8,265		8,091		9,284		8,852

<sup>1</sup> Number of absorption systems not included in total.  
<sup>2</sup> Not requested for 1940. <sup>3</sup> Consists mostly of room coolers.  
<sup>4</sup> Excludes coin-operated equipment, which is included in miscellaneous.  
<sup>5</sup> Not shown separately to avoid disclosing operations of individual companies.  
<sup>6</sup> Included in data for self-contained units to avoid disclosures.  
<sup>7</sup> Includes export shipments, not shown separately.

## No. 984.—MOTION-PICTURE PRODUCTION—SUMMARY: 1921 to 1939

[All money figures are in thousands of dollars. Represents activities of motion-picture studios and laboratories. Excludes distribution of films and their projection in theaters. No data included for establishments which reported less than \$5,000 as cost of work done. The motion-picture industry has been canvassed, since 1921, in connection with the Biennial Census of Manufactures. It is not, however, a manufacturing industry, but was treated as such prior to 1931]

YEAR AND STATE	Number of establishments	PERSONS ENGAGED		SALARIES AND WAGES		Cost of contract work	Cost of studio supplies, fuel, etc. <sup>1</sup>	Cost of production
		Salaried officers and employees	Wage earners (average for year)	Salaries	Wages			
UNITED STATES								
1921.....	127	4,400	6,259	22,963	14,740	563	31,190	77,397
1923.....	97	3,496	6,408	21,824	16,601	1,609	30,657	86,418
1925.....	132	5,945	5,573	35,951	13,066	5,369	33,258	93,636
1927.....	142	7,598	8,415	56,299	18,637	15,477	34,867	134,343
1929.....	142	8,818	10,784	60,168	24,860	11,312	38,441	184,102
1931.....	140	<sup>2</sup> 14,830		<sup>2</sup> 70,637		12,016	32,222	154,436
1933.....	92	<sup>3</sup> 8,260	10,777	<sup>3</sup> 52,948	18,395	4,028	26,153	119,343
1935.....	129	12,675	14,917	79,743	24,686	5,145	29,541	161,865
1937.....	83	13,060	19,338	102,393	37,158	7,013	35,575	197,741
1939.....	178	9,635	24,052	93,341	45,736	3,645	43,052	215,700
STATES, 1939								
California.....	93	8,690	21,573	89,885	41,096	2,024	31,118	186,849
Los Angeles.....	65	4,554	9,597	43,880	19,701	832	20,464	95,320
Remainder of State.....	28	4,136	11,976	46,205	21,396	1,192	10,654	91,529
Illinois.....	9	53	72	162	97	2	226	530
Michigan.....	5	125	138	336	334	35	680	1,765
Missouri.....	5	20	11	43	0	1	32	172
New York.....	43	577	1,268	2,478	2,397	1,632	6,541	18,060
Other States.....	23	170	990	437	1,803	51	4,455	8,325

## PRODUCTS, BY KIND AND COST, AND RECEIPTS FOR WORK DONE

ITEM	1933	1935	1937	1939	ITEM	1933	1935	1937	1939
<b>Total cost of work done.....</b>	<b>119,343</b>	<b>161,865</b>	<b>197,741</b>	<b>215,700</b>	Unfinished productions, cost.....	14,581	15,684	33,075	38,301
Negative films, cost.....	82,280	118,673	131,755	148,632	Laboratory work:				
Theatrical:					Positive films, cost.....	7,625	6,046	8,218	6,416
Number.....	1,059	1,094	3,942	( <sup>4</sup> )	Receipts for work done for other.....	11,835	15,089	15,318	18,594
Cost.....	<sup>5</sup> 77,536	<sup>5</sup> 110,975	<sup>5</sup> 126,039	142,602	Value of other work done.....	1,520	1,818	3,468	2,337
Advertising, cost.....	<sup>6</sup> 4,576	<sup>6</sup> 4,940	<sup>6</sup> 4,540	1,708	Receipts for use of studio facilities.....	1,502	4,554	5,907	1,420
Industrial, cost.....	( <sup>6</sup> )	( <sup>6</sup> )		2,175					
Educational, cost.....	168	324		726					
Other films, cost.....		<sup>6</sup> 2,434	<sup>7</sup> 1,176	1,426					

<sup>1</sup> Includes cost of studio supplies, containers for films, fuel, and purchased electric energy.

<sup>2</sup> Data cover "productive employees" only. These include all wage earners and a part, but not all, of the salaried employees. Figures are not, therefore, comparable with either the wage-earner figures or with the total number of persons engaged. Data for other years cover all classes of employees.

<sup>3</sup> Does not include data for salaried officers of corporations.

<sup>4</sup> Data incomplete.

<sup>5</sup> "News reels" included with "advertising."

<sup>6</sup> Figure for "industrial" included in that for "other films."

<sup>7</sup> Combined to avoid disclosing approximations of data for individual establishments.

Source: Department of Commerce, Bureau of the Census; Biennial Census report, Motion Pictures.

No. 985.—ALASKA—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939

[Figures for 1939 do not include data for plants reporting products valued at less than \$2,000; those for earlier years cover all plants having products valued at \$500 or more. This increase in minimum value-of-products limit resulted in some reduction in "Number of establishments" reported as compared with what it would have been had minimum of \$500 been retained, but did not seriously impair comparableness of figures for 1939 with those for earlier years. Comparable figures for earlier years are given for all industries for which such figures are available]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy	Value of products	Value added by manufacture <sup>1</sup>
				Dollars	Dollars	Dollars	Dollars
<b>All industries, total</b> -----	<sup>2</sup> 1939	230	4,816	6,883,988	20,916,757	38,815,436	17,898,679
	1919	147	6,575	8,839,452	19,482,485	41,495,243	22,012,758
	1909	152	3,099	1,948,026	5,119,613	11,340,105	6,220,492
	1899	48	2,260	1,374,680	1,702,583	4,194,421	2,431,838
Boat building and repairing-----	1939	7	34	23,950	59,800	149,739	89,939
	1909	6	8	2,440	3,139	10,330	7,191
Bread and other bakery products...	1939	24	51	67,497	233,216	408,464	175,248
	1909	8	24	41,900	71,099	141,110	70,011
Fish canning and processing-----	1939	140	4,308	6,288,175	19,990,289	36,367,663	16,377,374
	1919	104	6,085	8,130,659	18,535,578	39,190,922	20,625,344
	1909	46	2,717	1,487,587	4,083,094	9,189,982	5,136,888
	1899	36	2,092	<sup>3</sup> 1,248,000	<sup>3</sup> 1,588,000	<sup>3</sup> 3,821,000	<sup>3</sup> 2,233,000
Ice, manufactured-----	1939	4	12	18,566	10,080	77,776	67,696
Lumber and timber products-----	1939	21	250	237,376	309,416	900,111	590,695
	1919	22	222	327,292	311,439	950,256	638,817
	1909	22	131	108,201	168,504	400,272	231,768
	1899	10	78	<sup>3</sup> 56,000	<sup>3</sup> 67,000	<sup>3</sup> 155,000	<sup>3</sup> 88,000
Machine shops-----	1939	7	10	20,250	44,951	112,702	67,761
Printing and publishing-----	1939	15	109	129,701	81,916	415,877	333,961
	1909	16	64	100,403	36,392	238,192	191,800
All other industries-----	1939	<sup>4</sup> 12	40	48,473	137,080	389,104	196,015
	1919	21	268	375,501	635,463	1,384,065	748,597
	1909	54	155	237,495	787,385	1,370,219	582,834
	1899	2	90	<sup>3</sup> 76,000	<sup>3</sup> 108,000	<sup>3</sup> 218,000	<sup>3</sup> 110,000

<sup>1</sup> Value of products less cost of materials, etc., fuel, and purchased electric energy.

<sup>2</sup> Figures for 1939 cover the 12-month period ended Sept. 30, 1939.

<sup>3</sup> Exact figures not available.

<sup>4</sup> Beverages, nonalcoholic, 1 establishment; concrete products, 2; confectionery, 1; ice cream, 2; liquors, malt, 2; sheet-metal work, 2; wire netting, 2. Figures for these industries are combined to avoid disclosing data reported by individual establishments.

Source: Department of Commerce, Bureau of the Census; Reports of Census of Manufactures, 1939.

No. 986.—HAWAII—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939

[See headnote, table 985]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture <sup>1</sup>
				Dollars	Dollars	Dollars	Dollars
<b>All industries, total</b> -----	1939	474	17,002	11,453,311	75,651,675	134,005,284	58,353,589
	<sup>2</sup> 1919	496	9,969	6,636,763	81,178,956	133,096,412	51,917,456
	<sup>2</sup> 1909	500	5,904	2,108,903	25,817,734	47,403,880	21,586,146
	<sup>2</sup> 1899	222	3,655	1,473,000	12,251,000	23,364,000	11,103,000
Food and kindred products: <sup>3</sup>							
Bread and other bakery products...	1939	76	534	413,558	1,625,458	2,949,064	1,323,606
	1919	30	195	87,958	826,838	1,129,294	302,456
	1909	46	107	35,560	219,575	343,520	123,945
	1899	8	4	1,000	5,000	10,000	5,000
Beverages, alcoholic (distilled liquors, malt liquors, sake, and wines). <sup>4</sup>	1939	<sup>5</sup> 9	254	249,569	705,194	2,118,907	1,413,713
Beverages, nonalcoholic-----	1939	27	121	97,355	356,302	816,235	459,933
	1919	32	157	88,534	251,763	518,569	266,806
	1909	22	83	35,391	74,312	194,273	119,961
	1899	7	35	11,000	25,000	89,000	64,000

For footnotes see p. 881.

## No. 986.—HAWAII—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939—Continued

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture <sup>1</sup>
				Dollars	Dollars	Dollars	Dollars
Food and kindred products—Con.							
Cane sugar <sup>6</sup> .....	1939	35	4,371	2,894,420	30,482,432	49,250,987	18,768,555
	1919	43	3,143	2,027,128	45,890,268	80,236,244	34,336,976
	1909	46	2,517	781,280	18,721,621	35,949,822	17,228,201
	1899	44	2,369	748,000	9,778,000	19,255,000	9,477,000
Coffee deparchemizing.....	1939	9	39	19,555	401,422	464,321	62,899
	1919	10	39	20,516	875,463	1,050,752	175,289
	1909	5	71	12,100	250,705	207,263	46,558
	1899	6	47	9,000	60,000	95,000	35,000
Confectionery.....	1939	9	25	17,891	56,176	98,354	42,178
	1919	20	102	51,279	393,147	587,330	194,183
	1909	6	21	6,330	23,574	43,162	10,588
Fruit canning and preserving.....	1939	18	7,949	4,577,867	24,549,416	48,692,282	24,142,866
	1919	9	2,855	1,391,522	10,772,745	18,997,975	8,225,230
	1909	10	816	174,502	926,591	1,591,073	664,482
Canned pineapple and pineapple juice.	1939	9	7,900	4,552,667	24,462,105	48,540,806	24,078,701
Jellies, preserves, etc.....	1939	9	49	25,200	87,311	151,476	64,165
Ice cream.....	1939	10	111	89,004	598,154	1,262,777	664,623
Ice, manufactured.....	1939	6	66	85,797	42,940	228,642	185,702
	1909	5	40	23,963	21,386	107,111	85,725
	1899	4	19	12,000	16,000	57,000	41,000
Macaroni and noodles.....	1939	8	26	16,499	40,503	86,067	45,564
	1919	4	17	8,936	76,517	97,799	21,282
Native foods.....	1939	56	121	64,080	331,861	599,010	267,149
Fish cakes.....	1939	4	26	18,967	67,921	110,005	42,084
Poi.....	1939	34	86	30,283	173,283	343,561	170,278
Sugar and rice cakes.....	1939	8	4	2,184	68,725	105,136	36,411
Tofu.....	1939	10	5	3,646	21,932	40,308	18,376
Pickled fruits and vegetables; vegetable sauces.	1939	6	4	1,337	16,390	38,224	21,834
	1919	3	4	1,447	22,816	34,481	11,565
	1909	6	13	2,522	17,133	33,572	16,439
Potato chips; taro chips.....	1939	6	17	9,433	23,621	45,372	21,751
Chemicals and fertilizers.....	1939	6	189	180,084	1,525,294	2,160,108	634,814
Clothing, men's (including shirts) and women's.	1939	16	303	149,125	479,079	797,089	298,010
	1919	15	26	11,868	37,060	79,402	41,442
	1909	4	3	600	3,985	7,630	3,645
Concrete products; stone products; lime; pottery. <sup>4</sup>	1939	87	122	107,366	440,146	810,871	370,725
Footwear.....	1939	6	34	17,899	55,178	88,929	33,751
	1919	12	23	12,513	33,622	64,419	30,797
	1909	14	81	17,159	78,120	126,475	48,855
	1899	14	39	11,000	20,000	47,000	27,000
Furniture.....	1939	12	71	66,348	97,951	243,247	145,296
	1919	5	10	9,345	8,523	20,169	20,646
	1909	6	54	14,741	38,663	69,752	31,959
Furniture, household (except upholstered).	1939	4	9	7,264	6,876	23,036	16,160
Furniture, upholstered.....	1939	4	34	28,088	54,629	128,458	73,829
Furniture and fixtures, office and store.	1939	4	29	30,996	36,446	91,753	55,307
Iron castings; steel products; machine-shop products. <sup>4</sup>	1939	97	95	117,839	148,708	358,163	209,455
Jewelry; silverware; electroplating <sup>4</sup> .	1939	108	28	20,447	21,767	106,419	84,662
	1919	6	36	26,414	46,432	107,963	61,631
	1909	6	54	24,143	51,006	111,335	60,329
Mattresses and bed springs.....	1939	5	18	11,610	56,677	94,605	37,928
	1919	5	15	11,844	30,389	54,035	23,646
	1909	6	21	7,511	16,137	37,908	21,771
	1899	11	36	31,722	82,572	155,984	73,412
Picture frames; Venetian blinds <sup>4</sup> .....	1939	10	161	181,556	462,568	824,498	361,640
Planing-mill products <sup>12</sup> .....	1939	8	135	118,717	422,916	612,906	189,990
	1909	8	254	109,647	97,459	281,325	183,866
	1899	3	35	22,000	42,000	91,000	49,000
Printing, publishing, and allied activities.	1939	56	783	880,421	963,976	4,147,337	3,183,361
	1919	49	576	407,055	377,109	1,338,955	961,846
	1909	37	319	146,830	102,442	434,779	332,337
	1899	10	132	22,000	33,000	200,000	167,000
Newspaper publishing and printing, or publishing only.	1939	25	573	636,178	570,920	2,928,138	2,357,218

For footnotes, see p. 881.

No. 986.—HAWAII—MANUFACTURES, BY INDUSTRIES: 1899 TO 1939—Continued

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture <sup>1</sup>
Printing, publishing, and allied activities—Con.				<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Periodical publishing and printing, or publishing only.....	1939	6	8	5,293	19,001	42,073	23,072
Book publishing and printing or publishing only; job printing; lithographing; photoengraving <sup>4</sup>	1939	13 25	203	238,950	374,055	1,177,123	803,071
Signs, neon.....	1939	3	7	8,492	19,523	45,766	26,238
Soap.....	1939	3	3	1,639	8,592	20,347	11,755
Wood products, not elsewhere classified.....	1939	8	95	50,823	37,365	108,576	71,211
All other industries.....	1939	14 48	1,422	1,086,672	12,022,425	17,413,083	5,390,658
	1919	245	2,636	2,361,687	21,103,448	28,157,119	7,053,671
	1909	273	1,450	716,624	5,175,025	7,774,880	2,599,855
	1899	126	975	637,000	2,272,000	3,510,000	1,238,000

<sup>1</sup> Value of products less cost of materials, etc., fuel, purchased electric energy, and contract work.

<sup>2</sup> Figures include data for coffee roasting and spice grinding which are no longer treated as manufacturing activities.

<sup>3</sup> Except butter and cheese, canned tuna, rice cleaning and polishing, meat packing and sausage manufacturing, and vegetable oils and sirups. See note 14.

<sup>4</sup> Combined to avoid disclosing, exactly or approximately, data for individual establishments or companies.

<sup>5</sup> Distilled liquors, 1 establishment; malt liquors, 2; sake, 5; wines, 1.

<sup>6</sup> Figures for this industry relate solely to sugar mills, and do not include data for sugarcane plantations.

<sup>7</sup> Reported as confectionery and ice cream.

<sup>8</sup> Concrete products, 2 establishments; stone products, 2; lime, 2; pottery, 1.

<sup>9</sup> Iron castings, 1 establishment; steel products, 4; machine-shop products, 2.

<sup>10</sup> Jewelry, 6 establishments; silverware, 1; electroplating, 1.

<sup>11</sup> Picture frames, 1 establishment; Venetian blinds, 3.

<sup>12</sup> Products of planing mills not operated in conjunction with sawmills.

<sup>13</sup> Book publishing and printing, or publishing only, 2 establishments; job printing, 21; lithographing, 1; photoengraving, 1.

<sup>14</sup> Boat building and repairing, 5 establishments; brooms, 2; butter and cheese, 3; canned tuna, 3; caskets, 1; cushions, pillows, and quilts, 1; drugs, medicines, perfumes, 3; insulation board, 1; lighting fixtures, 1; machinery, farm, 1; machinery, sugar-mill, 1; mats, 1; meat packing, sausage manufacturing, 6; paper goods, 5; prepared feeds, 1; rice cleaning and polishing, 2; skirts, hula, 1; suitcases and trunks, 1; tin cans, 7; vegetable oils and sirups, 2. Figures for these industries are combined to avoid disclosing data reported by individual establishments.

Source: Department of Commerce, Bureau of the Census; Reports of Census of Manufactures, 1939.

## No. 987.—PUERTO RICO—MANUFACTURES, BY INDUSTRIES: 1909 TO 1939

[See headnote, table 985]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture <sup>1</sup>
				Dollars	Dollars	Dollars	Dollars
<b>All industries, total</b> .....	1939	798	23,484	9,220,251	76,280,773	111,499,641	35,218,868
	<sup>2</sup> 1919	619	15,985	6,765,604	59,985,058	85,506,834	25,521,776
	<sup>2</sup> 1909	939	15,582	3,639,196	21,500,618	36,749,742	15,249,124
Food and kindred products: <sup>3</sup>							
Bread and other bakery products.	1939	219	1,470	530,573	1,853,111	3,067,773	1,214,662
	1919	152	880	514,140	3,420,050	4,761,192	1,335,142
	1909	258	1,197	366,107	1,173,745	1,729,886	556,141
Bread and other bakery products, except crackers.	1939	212	1,143	400,129	1,614,952	2,636,533	1,021,581
Crackers.....	1939	7	327	70,444	238,159	431,240	193,081
Beverages, nonalcoholic.....	1939	10	93	30,702	145,466	277,014	131,548
	1919	11	56	20,739	49,647	134,402	84,765
Candy; chocolate and cocoa.....	1939	6	42	10,620	79,546	198,559	29,013
	1909	4	12	3,086	26,814	39,969	13,165
Cane sugar—except refineries <sup>4</sup> .....	1939	40	7,765	4,501,813	38,880,800	55,377,402	16,496,602
	1919	55	7,490	2,832,022	40,139,359	56,411,932	16,272,573
	1909	108	5,062	1,227,585	12,280,994	20,569,348	8,288,354
Cane-sugar refining <sup>4</sup> .....	1939	4	1,893	239,313	10,340,938	12,510,477	2,169,539
Canned fruits and vegetables.....	1939	5	304	35,432	135,375	239,149	103,774
	1909	4	48	4,831	20,930	38,003	11,073
Cheese.....	1939	3	9	3,020	36,795	48,958	12,163
Corn meal.....	1939	4	8	2,180	21,991	30,241	8,250
	1919	10	11	5,085	84,558	115,916	31,358
	1909	-----	4	597	9,017	12,401	3,384
Ice cream and ices.....	1939	6	27	11,960	43,584	70,927	27,343
Ice, manufactured.....	1939	25	285	107,939	118,697	500,765	382,068
	1919	13	86	35,882	86,112	248,889	102,777
	1909	6	38	9,965	20,427	99,927	70,500
Liquors, distilled.....	1939	9	340	152,695	930,927	1,918,934	988,007
	1909	14	58	15,871	144,129	1,117,084	972,955
Liquors, rectified or blended.....	1939	28	316	89,754	1,550,465	2,108,363	647,898
Vermicelli, soup paste, and noodles.	1939	8	154	69,156	249,382	420,844	171,462
Wines.....	1939	4	43	8,026	25,932	46,137	20,205
Caskets.....	1939	6	8	2,568	6,439	16,735	10,296
Drugs and medicines.....	1939	13	64	19,025	91,771	180,504	88,733
	1919	10	20	7,333	116,479	193,181	76,702
Fertilizers.....	1939	8	235	107,792	3,163,761	3,863,043	699,282
Furniture and showcases.....	1939	<sup>5</sup> 45	687	171,549	379,336	744,202	364,866
Leather and leather goods.....	1939	<sup>6</sup> 12	53	15,390	54,899	98,930	44,031
	1919	31	140	67,555	135,878	326,595	140,717
	1909	66	358	72,639	191,220	370,463	179,234
Lime.....	1939	8	90	27,203	62,407	150,777	88,370
	1919	19	62	19,074	21,150	58,014	36,855
	1909	12	28	2,842	7,812	14,149	6,337
Machinery.....	1939	6	475	271,972	488,548	1,146,696	668,148

For footnotes, see p. 883.

No. 987.—PUERTO RICO—MANUFACTURES, BY INDUSTRIES: 1909 TO 1939—  
Continued

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, etc., fuel, electric energy, contract work	Value of products	Value added by manufacture <sup>1</sup>
				Dollars	Dollars	Dollars	Dollars
Metal products.....	1939	7 11	144	63,735	53,890	170,237	116,347
	1919	5	271	192,610	388,077	749,268	361,191
	1909	6	188	63,566	63,634	178,210	120,576
Needlework industries.....	1939	136	6,378	1,575,814	1,323,273	20,778,267	11,454,904
Perfumes, cosmetics, and other toilet preparations.	1939	13	74	19,000	141,850	234,978	98,128
Planing-mill products <sup>12</sup> .....	1939	12	110	55,131	129,285	258,390	129,105
	1909	8	123	39,996	178,418	268,719	90,301
Printing, publishing, and allied activities.	1939	59	654	329,217	559,860	1,606,975	1,047,115
	1919	35	311	187,100	260,638	671,587	410,949
	1909	43	353	97,720	146,772	370,559	223,787
Newspapers.....	1939	12	201	119,676	250,669	840,978	590,309
Periodicals.....	1939	5	50	35,121	51,026	131,252	79,626
Books; job printing; photo-engraving.	1939	13 42	402	174,420	257,565	634,745	377,180
Stone and clay products.....	1939	15	164	62,045	95,168	254,623	150,455
	1919	8	21	6,771	5,242	30,063	24,821
Floor and wall tiles (except quarry).	1939	9	117	45,742	58,898	132,365	73,467
Brick and hollow structural tile; sewer pipe; other concrete and stone products.	1939	14 6	47	16,303	36,270	122,258	85,988
Textile products and other fibre manufactures.	1939	15 10	308	161,591	290,116	571,023	280,907
Tobacco products.....	1939	47	445	123,615	451,554	740,694	289,140
	1919	183	5,098	2,267,204	3,039,541	8,134,534	5,094,993
	1909	282	7,025	1,479,567	2,059,315	6,060,393	4,001,078
Cigars and cigarettes.....	1939	42	415	119,706	435,681	713,484	277,803
Tobacco, chewing and smoking...	1939	5	30	3,909	15,873	27,210	11,337
Other industries.....	1939	16 26	847	420,231	2,575,607	3,868,024	1,292,417
	1919	87	1,539	610,089	12,182,318	13,671,261	1,488,943
	1909	123	1,088	254,934	5,168,382	5,880,631	712,249

<sup>1</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work.  
<sup>2</sup> Figures include data for coffee cleaning and polishing, which is now treated as an agricultural activity and therefore was not covered by the 1939 Census of Manufactures.

<sup>3</sup> Except "Liquors, malt," and "Foods, miscellaneous." See footnote 16.

<sup>4</sup> The figures for this industry do not include data for sugar-cane plantations.

<sup>5</sup> Household furniture, 40 establishments; mattresses, 2; office furniture, 1; show cases, 2.

<sup>6</sup> Footwear, except rubber, 9 establishments; leather, tan, 1; saddlery, 1; other goods, 1.

<sup>7</sup> Aluminum products, 1 establishment; ornamental ironwork, 3; sheet-metal work, 3; tin cans, 3; watch parts, 1.

<sup>8</sup> Reported as "Foundry and machine-shop products."

<sup>9</sup> Estimated in part by use of ratios derived from reports made for corresponding classes of establishments operated in the United States.

<sup>10</sup> As part of the establishments engaged in contract work reported receipts for work done on materials owned by others, and part reported actual values of goods made, all returns have been converted to estimated value of products.

<sup>11</sup> This figure is inflated to the extent to which it includes amounts paid for outside work.

<sup>12</sup> Products of planing mills not reported in conjunction with sawmills.

<sup>13</sup> Books, 1 establishment; job printing, 40; photoengraving, 1.

<sup>14</sup> Brick and hollow structural tile, 2 establishments; sewer pipe, 1; other concrete and stone products, 3.

<sup>15</sup> Awnings, 1 establishment; hats, felt and linen, 2; hats, straw, 4; hosiery, full-fashioned, 1; rugs, string, 1; rugs, wool, 1.

<sup>16</sup> Bus bodies, 1 establishment; buttons, pearl, 2; compressed and liquefied gases, 2; cottonseed oil and meal, 1; diamond cutting, 1; foods, miscellaneous, 5; liquors, malt, 2; matches, 1; novelties, mahogany, 1; oxcarts and truck bodies, 1; paperboard containers, 1; salt, 1; signs, neon, 1; soap, 2; tires, retreading, 1; trunks, 3.

Source: Department of Commerce, Bureau of the Census; Reports of Census of Manufactures, 1939.

No. 988.—PATENT APPLICATIONS AND PATENTS AND CERTIFICATES OF REGISTRATION ISSUED SINCE INITIATION OF THE PATENT SYSTEM: 1836 TO 1946

[Number of patents granted prior to July 28, 1836, was 9,957. Data include patents issued to citizens of United States and residents of foreign countries]

CALENDAR YEAR OR PERIOD	Patent applications <sup>1</sup>	PATENTS ISSUED					CERTIFICATES OF REGISTRATION ISSUED				
		Total	Patents	Plant patents	Designs	Reissues	Total	Trade-marks	Trade-mark renewals	Labels	Prints
1836-1850 <sup>2</sup>	14,062	8,387	7,864	-----	4,340	5,183	-----	-----	-----	-----	-----
1851-1860	44,302	25,087	23,140	-----	1,025	922	-----	-----	-----	-----	-----
1861-1870	128,763	85,910	79,612	-----	3,181	3,117	<sup>6</sup> 121	<sup>6</sup> 121	-----	-----	-----
1871-1880	206,436	138,355	125,520	-----	7,535	5,300	10,395	8,017	-----	72,378	-----
1881-1890	352,475	217,821	207,850	-----	8,357	1,614	14,660	10,636	-----	4,024	-----
1891-1900	410,049	234,966	220,840	-----	13,374	742	18,794	16,903	-----	51,606	<sup>9</sup> 285
1901-1905	253,417	148,291	143,791	-----	3,953	547	18,590	12,768	-----	4,579	1,243
1906-1910	307,187	175,618	171,560	-----	3,297	761	32,076	32,060	-----	2,856	1,459
1911-1915	350,937	194,387	186,241	-----	7,295	851	32,381	27,369	-----	3,522	1,490
1916-1920	368,737	207,108	197,044	-----	8,486	978	35,364	30,681	-----	3,411	1,272
1921-1925	427,127	217,525	203,977	-----	12,326	1,222	81,566	68,881	<sup>10</sup> 2,278	7,361	3,048
1926-1930	459,904	234,857	219,384	-----	13,796	1,677	96,729	71,469	12,067	8,736	4,457
1931-1935	342,861	256,219	239,092	161	15,079	1,887	72,783	52,432	9,282	8,466	2,603
1936-1940	359,544	229,514	200,902	275	26,458	1,879	71,786	52,700	8,409	8,128	2,540
1907	58,762	36,620	35,880	-----	589	151	8,860	7,878	-----	667	315
1908	61,475	33,682	32,757	-----	757	168	6,029	5,191	-----	618	220
1909	65,839	37,421	36,574	-----	687	160	4,824	4,184	-----	492	148
1910	64,629	35,930	35,168	-----	639	123	4,729	4,239	-----	370	120
1911	69,121	34,084	32,917	-----	1,010	157	5,112	4,205	-----	659	249
1912	70,976	37,731	36,231	-----	1,342	158	5,896	5,020	-----	633	248
1913	70,367	35,788	33,941	-----	1,683	164	6,063	5,065	-----	708	293
1914	70,404	41,850	39,945	-----	1,715	190	7,874	6,817	-----	719	338
1915	70,069	44,934	43,207	-----	1,545	182	7,436	6,262	-----	803	371
1916	71,033	45,927	43,970	-----	1,759	198	8,087	6,791	-----	894	432
1917	70,373	42,760	41,069	-----	1,512	179	6,197	5,339	-----	613	245
1918	59,800	39,941	38,569	-----	1,207	165	4,912	4,061	-----	654	107
1919	80,638	38,598	36,872	-----	1,523	203	4,874	4,208	-----	520	146
1920	86,803	39,882	37,184	-----	2,485	233	11,204	10,282	-----	780	252
1921	93,595	41,401	37,885	-----	3,277	229	13,605	11,654	-----	1,495	466
1922	89,028	40,297	38,414	-----	1,627	256	14,992	12,793	-----	1,612	587
1923	79,189	40,787	38,634	-----	1,927	226	16,725	14,845	-----	1,291	619
1924	80,888	45,500	42,594	-----	2,071	235	17,562	15,749	-----	1,278	535
1925	84,627	49,540	46,450	-----	2,824	266	18,682	13,840	2,278	1,725	839
1926	86,116	47,627	44,750	-----	2,602	275	21,819	14,064	4,282	1,636	887
1927	92,122	44,444	41,731	-----	2,387	320	20,548	14,586	3,063	1,807	1,092
1928	92,725	45,899	42,376	-----	3,188	335	19,084	14,142	2,049	1,921	972
1929	94,738	48,565	45,284	-----	2,907	374	18,087	14,526	1,008	1,711	842
1930	94,203	48,322	45,243	-----	2,712	367	17,191	13,251	1,665	1,611	664
1931	84,423	55,105	51,766	5	2,937	395	15,328	11,407	1,643	1,683	565
1932	71,864	56,856	53,473	46	2,944	393	13,196	9,613	1,687	1,443	453
1933	60,633	51,563	48,786	33	2,411	333	12,758	9,140	1,665	1,470	433
1934	61,672	47,753	44,429	32	2,921	371	16,053	11,375	2,407	1,786	495
1935	64,369	44,944	40,638	46	3,866	395	15,438	10,897	1,880	2,084	577
1936	69,585	44,820	39,793	49	4,556	422	14,804	10,732	1,886	1,740	446
1937	72,984	43,271	37,695	55	5,137	384	15,276	11,254	1,524	1,850	648
1938	75,429	43,493	38,076	41	5,027	349	13,564	10,212	1,051	1,762	539
1939	71,689	49,080	43,090	45	5,593	352	14,337	10,526	1,399	1,807	605
1940	69,857	48,850	42,243	85	6,145	372	13,805	9,985	2,549	11,969	11,302
1941	59,901	47,978	41,121	62	6,486	309	11,299	8,534	2,765	(11)	(11)
1942	50,057	42,510	38,467	65	3,728	250	9,691	6,797	2,894	(11)	(11)
1943	48,724	33,523	31,074	67	2,229	173	9,432	5,596	3,836	(11)	(11)
1944	59,472	31,197	28,073	38	2,916	170	10,079	6,027	4,052	(11)	(11)
1945	76,119	29,364	25,702	17	3,524	121	11,703	7,493	4,210	(11)	(11)
1946	91,972	24,775	21,819	56	2,779	121	13,841	8,116	5,725	(11)	(11)

<sup>1</sup> Figures include patents for inventions, designs, and reissues of patents. Includes applications without fees.

<sup>2</sup> Data are for period from July 28, 1836, to Dec. 31, 1850, except as otherwise specified.

<sup>3</sup> Data are for 11 years beginning 1840; records prior to this date are not available.

<sup>4</sup> Data are for 8 years beginning 1843.

<sup>5</sup> Data are for 13 years beginning 1838.

<sup>6</sup> Data are for the year 1870.

<sup>7</sup> Data are for 7 years beginning 1874.

<sup>8</sup> Registration of labels suspended from May 27, 1891, to June 9, 1896.

<sup>9</sup> Data are for 8 years; first print registered Mar. 7, 1893.

<sup>10</sup> Data are for the year 1925.

<sup>11</sup> Figures for 1940 are for the six-months period ended June 30, 1940. On July 1, 1940, jurisdiction of prints and labels was transferred to the Copyright Office, Library of Congress, and data concerning them are compiled by that organization. (See table 991.)

Source: Department of Commerce, United States Patent Office; records (not published elsewhere). Fiscal year figures published in Annual Report of the Secretary.

No. 989.—PATENTS ISSUED TO CITIZENS OF THE UNITED STATES: 1937 TO 1946

STATE OR OTHER AREA	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
<b>Total.....</b>	<b>37,236</b>	<b>37,352</b>	<b>42,372</b>	<b>42,319</b>	<b>42,345</b>	<b>38,299</b>	<b>30,704</b>	<b>23,441</b>	<b>27,124</b>	<b>22,982</b>
Alabama.....	103	104	126	107	98	86	55	80	116	63
Arizona.....	44	43	62	40	50	34	40	30	29	30
Arkansas.....	47	46	67	45	57	50	33	33	25	32
California.....	2,464	2,448	2,933	2,911	2,915	2,780	2,326	2,108	2,223	2,042
Colorado.....	178	185	204	215	235	167	134	139	108	85
Connecticut.....	1,072	1,062	1,325	1,325	1,289	1,292	1,114	987	916	728
Delaware.....	274	298	325	333	315	339	297	279	300	314
Florida.....	178	230	221	255	241	255	171	181	148	127
Georgia.....	144	130	147	139	151	175	156	108	89	82
Idaho.....	39	31	37	44	67	43	35	26	16	27
Illinois.....	4,060	4,023	4,617	4,591	4,554	4,116	3,393	3,128	2,871	2,325
Indiana.....	899	985	1,100	1,063	1,008	997	839	742	643	562
Iowa.....	309	296	384	377	338	281	259	183	183	159
Kansas.....	168	178	203	218	216	171	132	121	106	92
Kentucky.....	124	160	172	167	174	148	108	115	103	80
Louisiana.....	101	121	152	181	135	135	106	131	92	95
Maine.....	81	68	84	84	76	59	69	60	59	58
Maryland.....	447	433	455	432	465	384	337	365	340	310
Massachusetts.....	1,869	1,817	2,009	2,046	2,080	1,827	1,506	1,378	1,259	1,106
Michigan.....	2,175	2,153	2,590	2,556	2,492	2,327	1,876	1,697	1,607	1,189
Minnesota.....	486	508	580	652	664	570	468	451	368	265
Mississippi.....	30	35	41	57	37	40	37	35	27	20
Missouri.....	751	768	750	825	935	770	640	538	515	356
Montana.....	49	63	57	61	51	43	24	32	25	19
Nebraska.....	124	137	136	103	109	74	66	66	44	47
Nevada.....	12	13	17	12	14	12	14	17	13	11
New Hampshire.....	140	140	137	97	101	107	81	73	67	45
New Jersey.....	2,961	2,892	3,300	3,143	3,322	3,202	2,563	2,409	2,427	2,218
New Mexico.....	34	29	43	36	37	33	25	45	17	45
New York.....	7,879	7,878	8,783	9,144	9,305	7,877	5,506	5,180	4,882	4,882
North Carolina.....	143	158	155	164	164	140	109	103	106	77
North Dakota.....	20	22	27	23	31	31	74	8	16	10
Ohio.....	3,109	3,009	3,593	3,484	3,344	3,270	2,592	2,440	2,362	1,864
Oklahoma.....	259	283	349	359	324	333	274	263	330	201
Oregon.....	195	184	191	195	211	189	132	134	132	120
Pennsylvania.....	3,032	3,154	3,308	3,143	3,166	3,039	2,813	2,127	2,050	1,701
Rhode Island.....	310	360	311	328	370	334	258	220	338	249
South Carolina.....	60	49	58	70	56	54	50	37	44	29
South Dakota.....	32	33	39	46	31	23	17	24	12	13
Tennessee.....	203	190	300	191	194	168	138	137	109	97
Texas.....	582	632	727	860	795	722	602	522	485	414
Utah.....	58	47	49	53	76	39	43	37	43	21
Vermont.....	46	41	54	42	42	47	36	51	32	27
Virginia.....	180	205	230	235	204	259	190	200	150	159
Washington.....	301	286	372	353	367	311	239	199	228	180
West Virginia.....	149	181	182	209	163	170	103	127	109	102
Wisconsin.....	918	878	941	966	1,012	966	808	812	665	490
Wyoming.....	25	25	23	20	37	22	24	17	17	13
Alaska.....	7	7	6	4	5	5	3	3	2	5
Canal Zone.....	1	4	3		1	6	3	5	3	2
District of Columbia.....	249	282	261	248	208	214	205	206	203	202
Hawaii.....	45	30	33	39	39	18	22	13	16	17
Philippine Islands.....	9	3	6	13	4	1	5	5		
Puerto Rico.....	4	4	5	3	6	4	3	1	4	2
U. S. Army.....	1	1	2	1	1	18	19	13	22	12
U. S. Navy.....	21	35	38	18	18	22	30	20	21	59
U. S. Marine Corps.....		5	2	1			2		4	2

Source: Department of Commerce, United States Patent Office; records (not published elsewhere).

## No. 990.—PATENTS GRANTED TO RESIDENTS OF FOREIGN COUNTRIES: 1936 TO 1946

COUNTRY	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
<b>Total</b> .....	<b>5,734</b>	<b>5,638</b>	<b>5,776</b>	<b>6,338</b>	<b>6,148</b>	<b>5,311</b>	<b>3,943</b>	<b>2,625</b>	<b>2,564</b>	<b>2,112</b>	<b>1,656</b>
Argentina.....	29	27	21	22	24	23	24	16	23	25	23
Australia.....	70	44	68	46	36	36	42	25	27	21	29
Austria.....	102	105	112	120	63	26	7	5	-----	-----	1
Belgium.....	56	54	71	65	52	44	25	30	15	13	1
Brazil.....	7	3	3	4	9	10	9	5	11	9	6
Canada.....	420	418	367	345	372	355	310	259	200	255	223
Czechoslovakia.....	49	46	54	49	54	32	10	13	6	1	1
Cuba.....	10	15	15	11	16	16	13	14	18	15	9
Denmark.....	38	30	41	54	44	33	17	16	16	6	1
England.....	1,262	1,178	1,250	1,288	1,308	1,142	1,000	743	843	905	820
Finland.....	4	7	6	6	5	7	2	2	-----	11	1
France.....	607	559	533	634	376	334	210	182	134	100	39
Germany.....	2,068	2,106	2,205	2,480	2,595	2,218	1,468	722	641	243	100
Hungary.....	27	28	25	48	63	37	29	11	26	7	3
Ireland.....	4	7	6	12	17	5	4	3	6	3	3
Italy.....	83	88	82	91	97	92	82	27	52	28	10
Japan.....	51	68	87	67	44	36	20	7	15	5	9
Mexico.....	23	18	20	23	19	19	15	12	9	6	12
Netherlands.....	181	192	195	238	236	203	134	93	62	20	9
New Zealand.....	19	21	22	20	14	12	10	8	2	6	4
Norway.....	37	24	31	26	25	28	14	14	10	6	1
Poland.....	11	16	10	16	16	4	5	3	-----	-----	1
Scotland.....	56	41	48	47	31	35	25	29	20	29	33
Spain.....	31	21	11	8	8	4	2	5	2	10	4
Sweden.....	221	186	181	242	226	208	159	126	104	117	91
Switzerland.....	274	251	215	286	233	279	249	192	175	219	175
Union of South Africa.....	18	22	21	17	23	21	7	15	14	11	21
Union of Soviet Socialist Republics.....	5	4	-----	1	8	2	4	6	-----	-----	-----
Wales.....	11	8	13	12	5	4	6	7	9	9	5
All other countries.....	60	51	63	70	79	46	41	35	64	32	21

Source: Department of Commerce, United States Patent Office; records (not published elsewhere).

## No. 991.—REGISTRATION OF COPYRIGHTS BY SUBJECT MATTER: FISCAL YEARS, 1942 TO 1946

SUBJECT MATTER OF COPYRIGHT	1942	1943	1944	1945	1946
<b>Total</b> .....	<b>182,232</b>	<b>160,789</b>	<b>169,269</b>	<b>178,848</b>	<b>202,144</b>
Books.....	50,276	40,457	40,682	40,544	47,800
Printed in the United States.....	49,116	39,784	39,998	39,754	43,737
Books proper.....	10,377	8,658	7,585	6,962	7,679
Pamphlets, leaflets, etc.....	33,620	27,558	27,683	27,936	30,554
Contributions to newspapers and periodicals.....	5,119	3,568	4,780	4,856	5,504
Printed abroad in a foreign language.....	651	156	82	111	3,513
English books registered for ad interim copyright.....	509	517	602	679	610
Periodicals (numbers).....	45,145	42,995	44,364	45,763	43,289
Lectures, sermons, addresses.....	963	629	1,126	1,177	1,129
Dramatic or dramatic-musical compositions.....	4,803	3,681	4,875	4,714	5,556
Musical compositions.....	50,023	48,348	52,087	57,835	63,367
Maps.....	1,217	737	494	857	1,304
Works of art, models, or designs.....	2,110	1,649	1,743	1,821	3,094
Reproductions of works of art.....	321	221	173	186	317
Drawings or plastic works of a scientific or technical character.....	2,086	1,911	1,957	1,554	1,777
Photographs.....	1,502	1,042	1,270	1,258	1,752
Commercial prints and labels.....	7,162	5,385	5,953	7,403	7,975
Prints and pictorial illustrations.....	2,917	2,317	2,426	2,634	5,384
Motion picture photoplays.....	871	693	604	615	774
Motion pictures not photoplays.....	1,348	1,074	1,268	1,120	1,250
Renewals of commercial prints and labels.....	27	20	44	30	33
Renewals of all other classes.....	11,461	9,630	10,203	11,337	12,483

Source: The Library of Congress, Annual Report.