

## Group 19.—TRANSPORTATION EQUIPMENT EXCEPT AUTOMOBILES

**Description of the group of industries.**—This group of industries embraces establishments primarily engaged in manufacturing equipment for transportation by air, land, and water. However, establishments producing automobiles and automobile equipment are included in the "Automobiles and automobile equipment" group.

The "Transportation equipment except automobiles" group comprises the following industries:

1. Locomotives (including frames) and parts—railroad, mining, and industrial.
2. Cars and car equipment—railroad, street, and rapid-transit.
3. Aircraft and parts, including aircraft engines.
4. Shipbuilding and ship repairing.
5. Boat building and boat repairing.
6. Motorcycles, bicycles, and parts.
7. Transportation equipment not elsewhere classified (horse-drawn vehicles and parts; wheelbarrows, etc.).

For a detailed explanation of the scope of each of these industries, see reports for the industries.

Prior to the Census of Manufactures for 1939, ship and boat building and repairing were included in a single industry, "Ship and boat building and repairing." For 1939, however, this industry was divided into (a) the "Shipbuilding and ship repairing" industry,

which includes establishments primarily engaged in building or repairing ships of 5 gross tons and over, and (b) the "Boat building and boat repairing" industry, which embraces establishments whose major activity is the building or repairing of boats of less than 5 gross tons. A special tabulation was made of the reports for 1937 in order to obtain figures comparable with the 1939 statistics for each of these industries.

At censuses prior to that for 1939, the manufacture of aircraft engines was treated as part of the "Engines, turbines, water wheels, and windmills" industry rather than as part of the "Aircraft and parts" industry. Since establishments primarily engaged in the manufacture of aircraft engines are now included in the more extensive "Aircraft and parts (including aircraft engines)" industry, a special tabulation was made of the 1937 reports showing aircraft engines as the major product in order to obtain figures for 1937 comparable with those for 1939. For years prior to 1937, however, no adjustment has been made and data for plants which in the earlier years were primarily engaged in manufacturing aircraft engines are not, therefore, included in the statistics for this group for those years.

SUMMARY FOR GROUP 19.—TRANSPORTATION EQUIPMENT EXCEPT AUTOMOBILES, 1923 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1939.....	968	157,097	\$239,253,940	\$411,377,100	\$882,896,840	\$471,510,740	131,924
1937 <sup>5</sup> .....	888	150,835	221,024,255	448,704,456	852,784,654	404,020,078	( <sup>6</sup> )
1937 <sup>7</sup> .....	875	144,504	211,150,254	430,413,447	809,053,032	379,239,555	( <sup>6</sup> )
1935.....	867	88,170	100,539,585	163,191,730	348,103,281	184,911,501	( <sup>6</sup> )
1933.....	852	59,758	64,331,770	79,217,914	189,030,293	109,821,379	( <sup>6</sup> )
1931 <sup>8</sup> .....	876	53,875	119,414,119	168,061,788	307,904,295	199,342,807	( <sup>6</sup> )
1931 <sup>9</sup> .....	881	34,085	113,003,471	108,485,681	368,923,190	200,457,509	( <sup>6</sup> )
1929.....	1,028	128,124	201,261,296	409,653,903	754,876,235	345,222,332	190,979
1927.....	927	117,712	181,804,632	301,736,948	662,393,305	300,626,357	212,564
1925.....	956	125,153	185,417,131	401,976,305	695,059,760	293,083,455	226,545
1923 <sup>10</sup> .....	1,193	191,135	238,615,244	662,994,090	1,115,652,967	452,568,907	219,024
SUBGROUPS AND INDUSTRIES							
SUMMARY FOR SUBGROUPS AND FOR INDUSTRIES							
<b>RAILROAD EQUIPMENT SUBGROUP:</b>							
1939.....	158	30,993	\$44,271,156	\$129,588,023	\$215,807,467	\$ 86,219,444	86,044
1937.....	167	49,469	74,121,245	265,770,751	407,445,049	141,674,298	( <sup>6</sup> )
<b>Locomotives (including frames) and parts: railroad, mining, and industrial—</b>							
1939.....	15	6,470	9,659,650	25,926,789	47,425,590	21,498,801	23,415
1937.....	13	9,000	14,845,259	39,266,202	72,123,158	32,856,956	( <sup>6</sup> )
<b>Cars and car equipment—railroad, street, and rapid-transit—</b>							
1939.....	143	24,523	34,614,506	103,661,234	168,381,877	64,720,643	63,529
1937.....	154	40,466	59,275,936	226,504,549	335,321,891	108,817,342	( <sup>6</sup> )
<b>AIRCRAFT AND PARTS:</b>							
<b>Aircraft and parts, including aircraft engines—</b>							
1939.....	125	48,698	77,488,188	96,250,233	279,496,844	183,246,611	6,250
1937 <sup>10</sup> .....	105	30,384	43,826,910	56,556,229	149,699,766	93,143,627	( <sup>6</sup> )

See footnotes at end of table.

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SUMMARY FOR GROUP 19.—TRANSPORTATION EQUIPMENT EXCEPT AUTOMOBILES, 1923 TO 1939, AND FOR SUBGROUPS AND INDUSTRIES, 1939 AND 1937—Continued

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
SUMMARY FOR SUBGROUPS AND FOR INDUSTRIES—continued							
<b>SHIP AND BOAT BUILDING AND REPAIRING:</b>							
1939	608	69,241	\$107,370,748	\$168,373,778	\$338,271,641	\$179,897,863	34,036
1937	544	62,274	93,746,576	101,411,087	250,457,198	149,046,111	( <sup>5</sup> )
<b>Shipbuilding and ship repairing—</b>							
1939	406	66,611	104,473,303	163,415,481	327,387,099	173,971,618	33,163
1937	353	59,462	90,514,434	95,686,557	238,385,193	142,698,630	( <sup>5</sup> )
<b>Boat building and boat repairing—</b>							
1939	202	2,630	2,897,445	4,958,297	10,884,542	5,926,245	872
1937	191	2,822	3,232,142	5,724,530	12,072,005	6,347,475	( <sup>5</sup> )
<b>MOTORCYCLES, BICYCLES, AND PARTS:</b>							
1939	36	6,973	8,073,875	24,041,357	43,052,278	19,010,921	1,836
1937	29	6,938	8,206,866	19,793,292	36,044,287	16,260,995	( <sup>5</sup> )
<b>TRANSPORTATION EQUIPMENT NOT ELSEWHERE CLASSIFIED:</b>							
1939	41	1,252	1,149,973	3,123,709	6,268,610	3,144,901	2,860
1937	43	1,823	1,722,656	4,633,097	9,138,244	4,505,147	( <sup>5</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> The 1937 figures in *italics* include data for 13 establishments which in that year were primarily engaged in manufacturing aircraft engines. These establishments were originally classified for 1937 in the "Machinery (except electrical)" group but have been reclassified in the "Transportation equipment except automobiles" group to obtain 1937 figures comparable with those for 1939. However, the figures for years prior to 1937 have not been adjusted to include data for such establishments.  
<sup>6</sup> Not called for on schedule.  
<sup>7</sup> Data not available.  
<sup>8</sup> The 1931 figures in *italics* exclude data for 5 establishments which in that year were primarily engaged in the manufacture of horse-drawn lunch wagons. Such establishments were originally classified in this group but have been reclassified in the Forest Products group. The *italics* figures for 1931 are thus comparable with the figures for subsequent years; the roman-type figures for 1931 are comparable with the figures for prior years.  
<sup>9</sup> No comparable data are available for years prior to 1923.  
<sup>10</sup> Revised to include data for 13 establishments which in 1937 were primarily engaged in the manufacture of aircraft engines. These establishments were originally classified in the "Engines, turbines, water wheels, and windmills" industry.

GROUP 19.—GENERAL STATISTICS IN DETAIL FOR TRANSPORTATION EQUIPMENT (EXCEPT AUTOMOBILES) GROUP, BY INDUSTRIES: 1939

[Numbers at head of columns are industry numbers. See footnote 1]

ITEM	Total for the group	RAILROAD EQUIPMENT		1921	SHIP AND BOAT BUILDING AND REPAIRING		1941	1999
		1911	1912		1931	1932		
Number of establishments <sup>1</sup>	968	15	143	125	406	202	36	41
Proprietors and firm members	435	4	1	30	198	108	8	20
Persons reported by manufacturing industries, total <sup>2</sup>	189,068	8,310	28,792	63,994	75,118	3,000	8,302	1,543
Salaried officers of corporations <sup>3</sup>	1,113	24	45	348	483	92	70	51
Manufacturing:								
Salaried employees <sup>3</sup>	27,098	1,465	3,010	13,423	7,175	224	735	167
Wage earners (average for the year) <sup>4</sup>	157,097	6,470	24,523	48,638	66,011	2,030	6,973	1,252
Distribution	2,719	311	192	1,172	396	93	512	73
Construction	795	37	109	282	345		12	10
Other	246	3	4	131	108			
Salaries and wages, total <sup>5</sup>	\$309,843,437	\$13,813,435	\$44,108,727	\$108,285,547	\$126,244,783	\$3,802,465	\$11,863,153	\$1,725,327
Salaried officers <sup>3</sup>	7,527,891	173,913	300,978	2,787,890	3,108,546	377,955	619,347	159,223
Manufacturing:								
Salaries <sup>3</sup>	56,124,182	3,220,689	8,578,385	25,188,704	17,091,104	302,393	1,374,115	278,702
Wages	239,253,940	9,656,050	34,614,506	77,488,188	104,473,303	2,897,445	8,973,375	1,149,973
Distribution	5,200,972	683,291	456,865	1,960,577	980,429	133,072	875,269	131,300
Construction	1,457,474	75,892	155,314	730,354	471,367		20,547	4,000
Other	279,028	3,000	3,229	99,765	170,034	1,000		2,000
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	411,377,100	25,926,789	103,661,234	99,250,233	153,415,481	4,958,297	24,041,357	3,123,709
Materials and supplies	392,842,513	24,827,867	101,277,366	86,924,768	148,639,860	4,836,782	23,314,775	3,021,105
Fuel	4,840,796	765,511	1,486,138	551,382	1,656,789	36,403	200,758	50,755
Purchased electric energy	5,311,905	230,574	883,660	1,305,537	2,480,747	73,248	290,578	47,691
Contract work	8,381,886	102,837	11,080	7,468,546	638,085	11,804	145,246	4,288
Value of products	882,896,840	47,425,590	168,381,877	270,406,844	327,387,099	10,884,542	43,052,278	6,268,610
Value added by manufacture <sup>6</sup>	471,519,740	21,498,801	64,720,643	183,246,611	173,971,618	5,926,245	19,010,921	3,144,901

<sup>1</sup> The numbers at the head of the columns represent the following industries: 1911, Locomotives (Including Frames) and Parts; Railroad, Mining and Industrial; 1912, Cars and Car Equipment—Railroad, Street, and Rapid-Transit; 1921, Aircraft and Parts, Including Aircraft Engines; 1931, Shipbuilding and Ship Repairing; 1932, Boatbuilding and Boat Repairing; 1941, Motorcycles, Bicycles, and Parts; 1999, Transportation Equipment Not Elsewhere Classified.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

# LOCOMOTIVES (INCLUDING FRAMES) AND PARTS: RAILROAD, MINING, AND INDUSTRIAL

[A preliminary report for this industry was issued November 28, 1940]

**Description of the industry.**—This industry embraces establishments, other than railroad shops, primarily engaged in the production of railroad and mining and industrial locomotives. The tables, except tables 3 and 4, do not include any data for railroad shops or for

establishments which produce locomotives as secondary products, but tables 3 and 4 include production data for locomotives and parts made as secondary products in other industries and for number and value of locomotives built in railroad shops.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1904 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939	15	6,470	\$9,656,650	\$25,926,789	\$47,425,590	\$21,498,801	23,416
1937	13	9,000	14,845,259	39,266,202	72,123,158	32,856,956	( <sup>5</sup> )
1935	14	3,790	3,971,648	9,493,244	17,383,347	7,890,103	( <sup>5</sup> )
1933	13	2,374	1,862,529	4,266,218	6,927,300	2,661,082	( <sup>5</sup> )
1931	16	5,443	5,589,610	14,870,591	22,118,636	7,248,045	( <sup>5</sup> )
1929	10	11,045	17,994,078	52,808,092	83,858,258	31,050,166	28,693
1927	17	12,961	17,048,206	45,088,450	76,719,403	31,030,953	44,920
1925	18	12,809	18,218,843	41,717,142	65,380,134	23,671,992	40,268
1923	10	30,672	61,866,976	124,261,528	215,392,951	61,131,423	30,635
1921	22	16,583	20,472,715	55,411,656	102,023,353	46,611,702	( <sup>5</sup> )
1919	17	26,715	38,798,641	72,375,950	156,269,730	83,893,780	37,420
1914	19	17,391	11,085,375	23,546,118	43,374,141	19,828,023	44,692
1909	10	14,909	8,914,266	15,059,983	31,582,302	16,522,319	33,551
1904	15	24,806	15,798,432	27,702,930	59,552,092	31,849,162	27,782

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Cost of contract work is included in the figures for 1939, 1937, and 1935 but not for prior years.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.  
<sup>7</sup> No comparable data available for prior years.

**TABLE 2.—GENERAL STATISTICS IN DETAIL FOR THE UNITED STATES: 1939<sup>1</sup>**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	1939
Number of establishments <sup>2</sup>	15
Proprietors and firm members	4
Persons reported by manufacturing establishments, total <sup>3</sup>	8,310
Salaried officers of corporations <sup>4</sup>	24
Manufacturing:	
Salaried employees <sup>4</sup>	1,465
Wage earners (average for the year) <sup>2</sup>	6,470
Distribution	311
Construction	37
Other	3
Salaries and wages, total <sup>4</sup>	\$13,813,435
Salaried officers <sup>4</sup>	173,913
Manufacturing:	
Salaries <sup>4</sup>	3,220,689
Wages	9,656,650
Distribution	683,291
Construction	75,892
Other	3,000
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	25,926,789
Materials and supplies	24,827,867
Fuel	705,511
Purchased electric energy	230,574
Contract work	102,837
Value of products	47,425,590
Value added by manufacture <sup>6</sup>	21,498,801

<sup>1</sup> Figures for individual States withheld to avoid disclosing, exactly or approximately, data reported by individual establishments.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> Alabama, 1 establishment; Georgia, 1; Illinois, 2; Iowa, 1; Maryland, 1; New York, 1; Ohio, 3; Pennsylvania, 4; Virginia, 1.  
<sup>4</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>5</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>6</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

	1939	1937
Locomotives (Including Frames) and Parts: Railroad, Mining, and Industrial industry, all products, total value	\$47,425,590	\$72,123,158
Locomotives and parts made in this industry	38,765,702	65,518,194
Miscellaneous products not specified	2,862,842	2,279,815
Receipts for contract and repair work	506,496	215,391
Other products (not classified in this industry)	5,290,550	4,109,759
Locomotives and parts, total value	38,765,702	76,594,389
Locomotives and parts made in this industry	38,765,702	65,518,194
Locomotives and parts made as secondary products in other industries and locomotives built in railroad shops	14,816,981	11,076,195

<sup>1</sup> Castings, power shovels, drag lines, and cranes, Diesel power plants, industrial cars, and trucks, etc.

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

PRODUCT	1939	1937
Total value	\$53,582,683	\$76,504,389
Railroad locomotives <sup>2</sup> :		
Diesel-electric—		
Number	261	103
Value	\$21,841,147	\$13,920,943
Steam—		
Number	91	401
Value	\$13,258,646	\$43,082,585
Straight-electric—		
Number	21	( <sup>3</sup> )
Value	\$4,859,492	( <sup>3</sup> )
Other—		
Number	22	( <sup>3</sup> )
Value	\$1,107,577	( <sup>3</sup> )
Mining and industrial locomotives <sup>2</sup> :		
Storage-battery—		
Number	201	451
Value	\$871,518	\$3,680,763
Trolley—		
Number	88	
Value	\$636,367	
Diesel-mechanical—		
Number	55	
Value	\$355,671	
Diesel-electric—		
Number	9	4190
Value	\$108,682	\$844,252
Gasoline-mechanical—		
Number	66	
Value	\$238,090	
Steam or steam-storage—		
Number	12	50
Value	\$134,097	\$1,088,189
Other railroad and mining and industrial locomotives, including those not reported as to kind <sup>3</sup> :		
Number		23
Value		\$2,595,991
Locomotive parts and assemblies, value	\$10,171,420	\$11,431,365

<sup>1</sup> Includes \$8,777,498, value of locomotives and parts made in the "Cars and car equipment—railroad, street, and rapid-transit" industry and locomotives made in railroad repair shops, and \$6,039,483, value of those made in other industries.  
<sup>2</sup> At the Census of Manufactures for 1939, a locomotive for shipment to points within the continental United States was considered a railroad locomotive if it met the requirements of the Interstate Commerce Commission (as to construction, equipment, and appurtenances) for locomotives operating at any time on railroad or railway tracks subject to I. C. C. regulation. Similarly, a locomotive for shipment to points outside the continental United States was considered a railroad locomotive if it had construction, equipment, and safety devices usually associated with the concept of a railroad locomotive. Units which do not meet these requirements are classified as mining and industrial locomotives. Previous to the census for 1939 the above-mentioned distinctions were not incorporated in the reporting instructions and manufacturers classified locomotives as "railroad" or as "mining and industrial" according to their interpretation of the terms.  
<sup>3</sup> The 1937 data for "Railroad locomotives" other than Diesel-electric and steam are included in the figures for "Other railroad and mining and industrial locomotives, including those not reported as to kind."  
<sup>4</sup> Segregation not requested on schedule for 1937.

TABLE 5.—CONSUMPTION OF SELECTED MATERIALS, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939<sup>1</sup>

KIND	Quantity	Cost
	Long tons	
Pig iron.....	7,824	\$183,370
Iron and steel scrap, excluding "home" or "plant" scrap produced and reworked in the same plant during the year.....	5,448	98,815
	Short tons	
Iron and steel bars and small shapes, not including alloy and stainless.....	9,058	754,231
Alloy steel, except stainless.....	1,291	125,333
Stainless steel.....	20	13,881
Structural shapes.....	2,449	130,044
Sheets and strip (except stainless steel).....	4,801	294,048
Plates (except stainless steel).....	16,732	839,078
Castings (purchased as such).....	16,316	4,616,774
Iron and steel pipe and tubing.....	2,216	205,096

<sup>1</sup> The establishments which reported data on consumption of the selected materials accounted for 96 percent of the total value of products of the industry.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	6,470	4,004	4,886	4,098	5,485	6,264	7,124	7,558	7,588	7,211	6,918	6,987	7,620
1937.....	9,000	7,085	7,818	8,413	8,752	8,927	9,033	9,500	9,662	9,804	9,991	9,681	9,269
1929.....	11,045	8,039	8,564	9,690	11,378	12,122	12,218	12,749	12,201	11,682	11,538	11,241	11,045
Ohio.....	835	617	604	649	689	752	859	955	1,006	1,075	1,070	863	886
Pennsylvania.....	1,623	825	830	883	1,219	1,591	1,998	2,290	2,201	1,959	1,745	1,829	2,105

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	15
Reporting expenditures for plant and equipment.....	11
Value of products:	
Total for the industry.....	\$47,425,590
Reporting expenditures for plant and equipment.....	46,061,903
Expenditures for plant and equipment:	
Total for the industry.....	757,466
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	47,667
Expenditures for new machinery and operating equipment.....	704,089
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	5,710

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$15,316,227	\$13,086,250
Finished products.....	4,804,813	1,149,733
Materials, supplies, etc.....	10,421,414	11,946,523
End of year, total.....	18,073,699	23,240,180
Finished products.....	5,514,058	2,187,451
Materials, supplies, etc.....	12,559,641	21,052,735
Value of products for the industry, total.....	47,425,590	72,123,158
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	47,186,891	72,123,158
Value for establishments not reporting inventories.....	238,699	

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929		1939	1929
Number of establishments.....	15	16	Prime movers—Continued.		
Number of establishments reporting power equipment.....	15	16	Prime movers not driving generators—Continued.		
Prime movers, aggregate:			Steam turbines—		
Number.....	66	60	Number.....	9	( <sup>3</sup> )
Horsepower.....	23,415	28,693	Horsepower.....	790	
Prime movers, driving generators, total—			Prime movers not driving generators, ordinarily idle (included above), horsepower.....	625	29
Number.....	18	154	Generators, kilowatt rating, total.....	10,300	13,330
Horsepower.....	15,015	127,538	Generators, driven by—		
Steam engines—			Steam engines, kilowatt rating.....	3,525	
Number.....	10	142	Steam turbines, kilowatt rating.....	5,875	( <sup>3</sup> )
Horsepower.....	5,100	116,087	Diesel and semi-Diesel engines, kilowatt rating.....	900	
Steam turbines—			Generators, ordinarily idle (included above), kilowatt rating.....	600	( <sup>4</sup> )
Number.....	6	112	Electric motors, total:		
Horsepower.....	8,675	111,461	Number.....	9,598	7,433
Diesel and semi-Diesel engines—			Horsepower.....	139,706	137,299
Number.....	2		Driven by purchased energy—		
Horsepower.....	1,240	16	Number.....	2,272	4,165
Other internal-combustion engines <sup>2</sup> —			Horsepower.....	23,774	69,789
Number.....		11,155	Driven by energy generated in establishments reporting—		
Horsepower.....			Number.....	7,326	3,268
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	900		Horsepower.....	115,932	67,510
Prime movers not driving generators, total:		( <sup>3</sup> )	Electric energy (kilowatt-hours):		
Number.....	48		Generated in plant.....	15,416,209	( <sup>4</sup> )
Horsepower.....	8,400		Sold.....	2,078,933	( <sup>3</sup> )
Steam engines—			Purchased.....	23,379,419	41,077,668
Number.....	39				
Horsepower.....	7,610				

<sup>1</sup> Includes data for prime movers not driving generators.

<sup>2</sup> Gas, gasoline, etc.

<sup>3</sup> Not called for on schedule.

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

# CARS AND CAR EQUIPMENT—RAILROAD, STREET, AND RAPID-TRANSIT

[A preliminary report for this industry was issued December 5, 1940]

**Description of the industry.**—This industry embraces establishments, other than railroad shops, primarily engaged in building, rebuilding, and repairing railroad, street, and rapid-transit cars for operation on rails for freight and for passenger service and establishments primarily engaged in manufacturing car equipment and parts not elsewhere classified. Establishments manufacturing industrial and mine cars are classified

in the "Mining machinery and equipment" industry.

The tables, except tables 3, 4, and 6, do not include any data for railroad shops or for plants which produce cars as secondary products, but tables 3, 4, and 6 include production data for cars and car equipment made as secondary products in other industries and for number and value only of cars made in railroad shops.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1939	143	24,523	\$34,614,500	\$103,061,234	\$168,381,877	\$64,720,043	63,520
1937	154	40,466	59,275,986	226,504,549	335,321,891	108,817,342	(5)
1935	150	21,481	25,755,674	61,732,184	100,542,275	38,810,091	(9)
1933	138	14,266	14,710,122	27,310,737	46,147,507	18,836,770	(5)
1931	152	18,785	25,553,260	59,753,800	90,657,122	30,903,253	(9)
1929	147	40,015	63,387,382	223,880,307	328,220,204	104,330,807	97,000
1927	135	38,031	60,624,856	209,112,561	312,508,598	103,306,037	99,060
1925	141	50,393	77,246,992	266,053,564	300,771,210	124,717,706	113,382
1923	139	80,560	129,178,010	413,660,102	604,350,341	190,690,239	113,130
1921	118	48,033	70,944,834	211,938,355	340,536,225	128,597,870	(5)
1919	106	55,218	82,416,737	368,143,487	556,064,807	188,521,320	96,863
1914	117	58,128	43,860,606	138,549,938	205,270,622	66,720,684	111,077
1909	124	46,669	29,312,171	83,013,331	131,539,493	48,526,162	101,673
1904	87	38,788	23,047,400	80,998,670	122,019,506	41,029,930	59,454
1899	85	37,038	18,938,170	65,709,610	97,815,548	32,105,938	37,455

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Indiana	Iowa	Kansas	Louisiana	Missouri
Number of establishments <sup>1</sup>	143	20	14	5	8	3	11
Proprietors and firm members	1		1				
Persons reported by manufacturing establishments, total <sup>2</sup>	28,792	6,609	3,029	57	265	106	2,287
Salaried officers of corporations <sup>2</sup>	45	10	4				0
Manufacturing:							
Salaried employees <sup>2</sup>	3,910	985	454	3	20	12	378
Wage earners (average for the year) <sup>3</sup>	24,523	5,545	2,511	54	236	04	1,809
Distribution	192	67	29				20
Construction	109		31				12
Other	4	2					2
Salaries and wages, total <sup>2</sup>	\$44,108,727	\$10,179,008	\$4,772,274	\$102,163	\$383,943	\$155,563	\$3,275,017
Salaried officers <sup>2</sup>	309,978	45,497	24,830				51,000
Manufacturing:							
Salaries <sup>2</sup>	8,578,335	2,189,621	1,049,575	5,251	57,918	27,065	761,887
Wages	34,614,500	7,800,680	3,563,878	96,912	320,025	127,801	2,418,575
Distribution	456,365	81,937	62,914				15,710
Construction	155,314		41,077			607	25,583
Other	3,229	1,273					1,956
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	103,061,234	20,923,887	12,206,177	119,042	352,646	103,830	7,228,578
Materials and supplies	101,277,366	20,520,170	11,851,705	116,372	331,152	97,215	7,026,358
Fuel	1,489,138	201,127	225,442	70	7,021	2,310	132,943
Purchased electric energy	883,660	112,590	120,760	2,600	13,873	4,305	69,277
Contract work	11,080		8,280				
Value of products	168,381,877	34,894,720	23,206,510	221,596	784,289	278,622	11,010,956
Value added by manufacture <sup>4</sup>	64,720,043	13,970,833	11,000,333	102,554	431,643	174,702	3,782,373

See footnotes at end of table.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Nebraska	Ohio	Oklahoma	Pennsylvania	Texas	Wisconsin	Other States <sup>1</sup>
Number of establishments <sup>1</sup> .....	4	6	4	14	4	4	40
Proprietors and firm members.....							
Persons reported by manufacturing establishments, total <sup>2</sup> .....	207	1,054	45	5,807	58	329	8,880
Salaried officers of corporations <sup>3</sup> .....		3		13			9
Manufacturing:							
Salaried employees <sup>4</sup> .....	15	159	5	1,035	7	17	820
Wage earners (average for the year) <sup>5</sup> .....	192	885	40	4,718	51	312	8,017
Distribution.....		5		37			34
Construction.....		2		64			
Other.....							
Salaries and wages, total <sup>2</sup> .....	\$270,638	\$1,562,581	\$62,411	\$9,080,788	\$84,684	\$488,833	\$13,090,829
Salaried officers <sup>3</sup> .....		22,810		101,086			54,555
Manufacturing:							
Salaries <sup>4</sup> .....	24,841	333,379	9,399	2,279,447	13,431	53,697	1,773,124
Wages.....	245,792	1,190,670	53,012	6,416,217	71,253	435,130	11,778,465
Distribution.....		11,707		200,423			83,698
Construction.....		4,015		83,015			1,017
Other.....							
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	373,573	5,018,358	36,176	27,811,218	59,013	500,506	28,928,200
Materials and supplies.....	366,733	4,906,045	34,008	27,242,562	53,488	487,283	28,242,466
Fuel.....	2,308	47,480	241	389,769	1,236	3,590	384,651
Purchased electric energy.....	4,532	63,933	1,027	178,917	4,230	9,633	297,984
Contract work.....							2,800
Value of products.....	704,807	8,128,197	99,633	40,577,213	161,588	997,474	47,316,272
Value added by manufacture <sup>6</sup> .....	331,234	3,109,830	69,457	12,765,905	102,575	496,908	18,388,672

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Alabama, 1 establishment; Arkansas, 1; California, 5; Colorado, 1; Delaware, 2; Florida, 1; Georgia, 2; Idaho, 1; Maryland, 3; Massachusetts, 1; Michigan, 2; Minnesota, 4; New Jersey, 3; New York, 7; North Carolina, 1; South Carolina, 1; Tennessee, 1; Virginia, 3; Washington, 4; West Virginia, 1; Wyoming, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Cars and Car Equipment—Railroad, Street, and Rapid-Transit Industry, all products, total value.....	\$108,381,877	\$335,321,891
Cars and car equipment made in this industry.....	110,413,614	247,051,911
Miscellaneous products not specified.....	2,530,880	24,376,887
Receipts for contract and repair work.....	44,994,256	53,582,637
Other products (not classified in this industry).....	10,443,127	10,310,456
Cars and car equipment—railroad, street, and rapid-transit, total value.....	\$123,527,355	\$297,110,045
Cars and car equipment—railroad, street, and rapid-transit made in this industry.....	110,413,614	247,051,911
Cars and car equipment—railroad, street, and rapid-transit made in other industries, including cars made in railroad shops.....	13,113,741	50,058,134

<sup>1</sup> Gray-iron castings, structural steel, railroad locomotives, air-conditioning sets, mine and industrial cars.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$123,527,355	\$297,110,045
Cars, total value.....	\$90,633,282	\$255,532,576
Steam-railroad cars:		
Total number.....	26,403	91,267
Total value.....	\$87,185,818	\$245,724,319
Passenger service—		
Number.....	283	513
Value.....	\$18,912,402	\$24,555,460
Freight service—		
Total number.....	26,180	90,764
Total value.....	\$68,273,416	\$221,168,859
Box cars—		
Number.....	12,123	35,332
Value.....	\$33,490,411	\$85,522,191

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Cars—Continued.		
Steam-railroad cars—Continued.		
Freight service—Continued.		
Hopper cars—		
Number.....	7,364	10,025
Value.....	\$16,639,204	\$45,206,376
Gondola cars—		
Number.....	3,525	15,659
Value.....	\$8,702,057	\$39,074,946
Refrigerator cars and stock cars <sup>1</sup> —		
Number.....	864	6,904
Value.....	\$3,164,167	\$21,749,930
Flat cars—		
Number.....	846	1,645
Value.....	\$1,850,470	\$3,453,358
Cabooses—		
Number.....	130	267
Value.....	\$445,426	\$913,214
Other cars, including tank cars and cars not reported as to kind—		
Number.....	1,328	11,122
Value.....	\$3,891,076	\$25,248,844
Electric-railroad cars and self-propelled cars <sup>2</sup> :		
Number.....	171	676
Value.....	\$1,782,191	\$9,808,257
Trackless trolley cars (trolley buses):		
Number.....	143	( <sup>3</sup> )
Value.....	\$1,665,273	
Car parts, value.....	\$32,894,073	\$41,577,409

<sup>1</sup> Includes \$12,273,775, the value of 4,440 cars made in the "Locomotives (including frames) and parts: railroad, mining and industrial" industry and \$39,966, the value of cars and car parts made as secondary products in other industries.  
<sup>2</sup> Includes data for 100 baggage and express, 10 chair, and 43 dining and buffet cars, valued at \$1,549,735, \$1,036,164, and \$2,864,643, respectively.  
<sup>3</sup> Combined for 1939 to avoid disclosing data for individual establishments. The 1937 figures represent 6,082 refrigerator cars valued at \$20,200,369 and 822 stock cars valued at \$1,543,601.  
<sup>4</sup> Combined to avoid disclosing data for individual establishments.  
<sup>5</sup> Not called for separately for 1937. Data for the value of those separately reported are included in the figure for "Car parts."  
<sup>6</sup> Includes approximately \$12,853,553 increase in work in process.  
<sup>7</sup> Includes the value of lightweight articulated trains, which cannot be shown separately without disclosing data for individual establishments, and the value of trackless trolley cars so far as separately reported.

TABLE 5.—CONSUMPTION OF SELECTED MATERIALS, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939<sup>1</sup>

KIND	QUANTITY AND COST REPORTED		Quantity not reported, cost
	Quantity	Cost	
Pig iron.....	Long tons 2,911	\$80,607	-----
Iron and steel scrap, excluding "home" or "plant" scrap produced and reworked in the same plant during the year.....	109,352	1,514,504	-----
Iron and steel bars and small shapes, not including alloy and stainless.....	Short tons 29,692	1,470,691	\$12,495
Alloy steel, except stainless.....	4,754	362,668	-----
Stainless steel.....	1,361	1,038,184	-----
Structural shapes.....	53,159	2,374,180	-----
Sheets and strip (except stainless steel).....	29,699	1,460,720	-----
Plates (except stainless steel).....	130,049	5,808,558	-----
Castings (purchased as such).....	32,131	4,484,972	38,452
Iron and steel pipe and tubing.....	1,218	116,881	68,407

<sup>1</sup> The establishments which reported data on consumption of the selected materials accounted for 79 percent of the total value of products of the industry. The remaining establishments, which accounted for 21 percent of the total value of products of the industry, did not report consumption of the selected materials.

In addition to the data shown in the table, 19,368 short tons costing \$941,854 were reported in combination for the following items: Structural shapes, sheets and strip (except stainless steel), and plates (except stainless steel). A additional amounts (quantity not reported and kinds not specified) of the selected materials were reported as costing \$1,408,606. This latter figure does not include any castings or iron and steel pipe and tubing.

TABLE 6.—NUMBER OF CARS BUILT, BY CLASS, TYPE OF CONSTRUCTION, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

	Census year	NUMBER				Value
		Total	Steel under-frame	Steel body with wood interior	All steel	
Aggregate.....	1939 1937	26,634 91,943	2,037 10,190	9,080 29,424	15,517 52,329	\$58,968,009 255,532,576
Steam-railroad cars, total.....	1939 1937	26,468 91,297	2,037 10,185	9,080 29,424	15,349 51,658	87,185,818 245,724,319
Passenger service (including baggage, express, and mail).....	1939 1937	283 513	-----	-----	283 473	18,012,402 24,555,400
Freight service.....	1939 1937	20,180 90,754	2,037 10,185	9,080 29,384	15,066 51,185	68,273,416 221,168,859
Electric-railroad cars and self-propelled cars.....	1939 1937	171 676	-----	(1)	171 671	1,782,191 9,809,257

<sup>1</sup> Included with "All steel" to avoid disclosing, exactly or approximately, data reported by individual establishments.

TABLE 7.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[SEE GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	24,523	21,361	24,131	24,230	24,387	23,956	23,062	21,235	21,556	22,744	26,012	29,674	31,026
1937.....	40,466	32,346	35,947	39,945	42,166	44,344	45,835	44,538	44,846	42,796	41,160	38,836	32,828
1929.....	40,015	30,373	34,083	37,676	40,740	42,810	42,099	41,796	42,184	42,225	41,367	41,653	43,167
California.....	1,756	1,821	1,942	1,981	1,978	1,947	1,699	1,516	1,517	1,541	1,832	1,800	1,492
Illinois.....	5,545	4,094	5,178	5,444	6,389	6,461	6,462	5,805	5,703	5,615	5,433	4,943	5,120
Indiana.....	2,511	1,897	2,321	2,712	2,414	2,341	2,000	2,308	2,308	2,000	2,614	3,460	3,762
Iowa.....	54	53	53	53	53	53	53	53	53	53	57	55	55
Kansas.....	236	293	287	284	247	227	203	182	216	241	220	213	213
Louisiana.....	94	96	90	93	97	103	87	86	85	89	108	105	93
Maryland.....	113	103	103	101	101	100	102	102	102	112	120	134	175
Minnesota.....	218	200	214	218	221	216	218	199	216	225	249	220	219
Missouri.....	1,869	2,433	2,472	1,467	1,602	1,780	1,050	1,400	1,200	1,539	1,036	2,131	2,757
Nebraska.....	192	188	190	190	189	189	191	188	194	194	202	192	192
New Jersey.....	277	169	177	207	242	201	254	402	382	315	334	259	380
New York.....	1,804	1,091	2,114	1,706	1,888	1,873	2,006	1,510	1,434	1,297	1,840	1,934	2,055
Ohio.....	885	632	832	983	567	696	760	724	703	684	944	1,496	1,598
Oklahoma.....	40	42	44	46	48	45	46	42	36	32	32	34	34
Pennsylvania.....	4,718	3,131	3,499	3,867	3,921	3,445	3,665	3,891	4,298	5,258	5,709	7,605	8,325
Texas.....	51	50	55	50	52	51	45	45	44	53	62	55	45
Virginia.....	538	510	573	700	658	495	445	401	406	446	523	635	670
Washington.....	583	401	455	509	580	626	636	593	660	645	652	586	593
Wisconsin.....	312	296	289	302	302	315	319	320	320	317	316	317	324

TABLE 8.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	143
Reporting expenditures for plant and equipment.....	73
Value of products:	
Total for the industry.....	\$168,381,877
Reporting expenditures for plant and equipment.....	159,875,120
Expenditures for plant and equipment:	
Total for the industry.....	2,689,524
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	730,220
Expenditures for new machinery and operating equipment.....	1,928,649
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	30,055

TABLE 9.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$21,052,170	\$31,559,748
Finished products.....	1,019,443	4,630,031
Materials, supplies, etc.....	20,032,727	26,929,717
End of year, total.....	44,159,059	43,654,988
Finished products.....	1,275,671	6,491,843
Materials, supplies, etc.....	42,883,388	37,163,145
Value of products for the industry, total.....	168,381,877	335,321,891
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	168,055,837	334,853,031
Value for establishments not reporting inventories..	326,040	468,860

TABLE 10.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929		1939	1929
Number of establishments.....	143	147	Prime movers—Continued.		
Number of establishments reporting power equipment.....	143	136	Prime movers not driving generators—Continued.		
Prime movers, aggregate:			Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—		
Number.....	133	217	Number.....	1	} (3)
Horsepower.....	63,529	97,900	Horsepower.....	450	
Prime movers, driving generators, total—			Prime movers not driving generators, ordinarily idle (included above), horsepower.....	1,380	
Number.....	44	1217	Generators, kilowatt rating, total.....	29,471	49,764
Horsepower.....	43,196	197,900	Generators, driven by—		
Steam engines—			Steam engines, kilowatt rating.....	4,796	} (3)
Number.....	21	1100	Steam turbines, kilowatt rating.....	24,675	
Horsepower.....	7,422	146,174	Generators, ordinarily idle (included above), kilowatt rating.....	3,825	(4)
Steam turbines—			Electric motors, total:		
Number.....	23	139	Number.....	17,657	15,527
Horsepower.....	35,774	149,848	Horsepower.....	244,873	235,960
Diesel and semi-Diesel engines—			Driven by purchased energy—		
Number.....		19	Number.....	11,832	8,997
Horsepower.....		1,878	Horsepower.....	159,093	140,555
Other internal-combustion engines <sup>2</sup> —			Driven by energy generated in establishments reporting—		
Number.....			Number.....	5,825	6,530
Horsepower.....			Horsepower.....	85,780	95,405
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	5,730		Electric energy (kilowatt-hours):		
Prime movers not driving generators, total—		(3)	Generated in plant.....	29,389,870	(4)
Number.....	89		Sold.....	1,002,140	(3)
Horsepower.....	20,333		Purchased.....	59,289,263	79,120,489
Steam engines—					
Number.....	88				
Horsepower.....	10,883				

<sup>1</sup> Includes data for prime movers not driving generators.

<sup>2</sup> Gas, gasoline, etc.

<sup>3</sup> Not called for on schedule.

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

## AIRCRAFT AND PARTS, INCLUDING AIRCRAFT ENGINES

[Preliminary reports for this industry were issued October 30, 1940, and on subsequent dates]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of complete aircraft, both heavier-than-air and lighter-than-air, including gliders, balloons, and parachutes. This industry also includes the manufacture of parts especially designed for aircraft, such as aircraft engines, propellers, propeller blades, and pontoons. It does not include establishments primarily engaged in the manufacture of aeronautical instruments or establishments primarily engaged in the manufacture of aeronautical electrical equipment. No data for establishments operated by the Federal Government are included.

At censuses prior to that for 1939, the manufacture of aircraft engines was treated as part of the "Engines, turbines, water wheels, and windmills" industry rather than as part of the "Aircraft and parts" industry. Since establishments primarily engaged in the manufacture of aircraft engines are now included in the more extensive "Aircraft and parts, including aircraft engines" industry, a special tabulation was made of the 1937 reports showing aircraft engines as the major product in order to obtain figures for 1937 comparable with those for 1939. For years prior to 1937 no adjustment has been made and data for plants which in the earlier years were primarily engaged in manufacturing aircraft engines are not, therefore, included in the statistics for this industry for those years.

The total value of products for the industry includes some duplication due to the fact that the products of establishments engaged in the manufacture of parts are to some extent used by other establishments in the industry in the manufacture of subassemblies and complete aircraft. To hold this duplication to a minimum, manufacturers of complete aircraft were requested to exclude from the reported values of aircraft the cost

of the engines, propellers, and power-plant accessories, and the values of these items, therefore, are not duplicated in the total value of products of the industry. In order not to distort the figure for "Value added by manufacture," the cost of purchased engines, propellers, and power-plant accessories is not included in the "Cost of materials." See footnote 4, table 1, below.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products <sup>4</sup>	Value added by manufacture <sup>5</sup>	Horse-power of prime movers
1939	125	48,638	\$77,488,188	\$96,250,233	\$279,496,844	\$183,246,011	8,250
1937 <sup>6</sup>	105	50,334	73,326,910	56,556,229	149,699,756	95,145,527	(?)
1937 <sup>6</sup>	92	24,003	33,352,911	38,805,220	106,568,254	67,763,034	(?)
1935	79	11,384	14,892,800	14,360,682	45,347,030	30,986,348	(?)
1933	64	7,816	10,307,590	7,956,663	26,460,092	18,503,429	(?)
1931	101	9,870	15,480,647	13,101,494	40,278,278	27,176,784	(?)
1929	132	14,710	21,923,844	27,368,103	71,152,024	43,784,821	312
1927	70	4,422	6,857,014	7,517,183	21,161,853	13,644,070	260
1925	44	2,701	4,222,151	2,869,967	12,524,719	9,654,752	334
1923	33	2,901	4,521,040	3,829,574	12,945,263	9,115,689	75
1921	21	1,395	2,202,307	2,407,395	6,641,988	4,234,593	(?)
1919	31	3,543	4,906,740	7,126,965	14,372,643	7,245,678	325
1914 <sup>7</sup>	16	168	134,827	133,939	789,872	665,933	94

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Since 1935 manufacturers of aircraft have been instructed to include in the values of aircraft the value of instruments and accessories but not the value of power plants (engines, propellers, and power-plant accessories) installed therein. For 1931 and 1933, manufacturers of aircraft were instructed to report the value of aircraft not including the value of engines installed therein. For 1929 and previous years manufacturers of aircraft were instructed to report total selling values at the plant. To the extent that these changes in the wording of the questionnaires for the respective years affect the data, the figures for value of products are not strictly comparable.

<sup>5</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>6</sup> The 1937 figures in *italics* include data for 13 establishments which in that year were primarily engaged in manufacturing aircraft engines. These establishments were originally classified for 1937 in the "Engines, turbines, water wheels, and windmills" industry but have been reclassified to obtain 1937 figures comparable with the 1939 figures for the "Aircraft and parts, including aircraft engines" industry. However, the figures for years prior to 1937 have not been adjusted to include data for such establishments.

<sup>7</sup> Not called for on schedule.

<sup>8</sup> Data not available.

<sup>9</sup> No comparable data are available for prior years.

# AIRCRAFT AND PARTS, INCLUDING AIRCRAFT ENGINES

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**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Kansas	Michigan	New York	Ohio	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	125	32	4	9	18	18	10	34
Proprietors and firm members.....	36	18	4	8	5	5	3	2
Persons reported by manufacturing establishments, total <sup>3</sup> .....	63,994	23,777	1,310	1,336	7,802	1,046	1,733	26,991
Salaried officers of corporations <sup>4</sup> .....	348	144	13	11	46	25	24	85
Manufacturing:								
Salaried employees <sup>5</sup> .....	13,423	7,106	210	301	1,376	189	330	3,806
Wage earners (average for the year) <sup>6</sup> .....	48,638	16,036	923	962	6,262	754	1,265	22,437
Distribution.....	1,172	343	110	62	111	66	12	384
Construction.....	282	68	40	5	3	3	9	159
Other.....	131	80	5	7	9	9	12	30
Salaries and wages, total <sup>7</sup> .....	\$108,285,547	\$39,151,676	\$1,667,504	\$2,317,683	\$13,389,943	\$1,634,270	\$2,401,768	\$47,722,753
Salaried officers <sup>8</sup> .....	2,787,899	1,162,334	60,378	93,962	460,094	112,594	123,072	785,465
Manufacturing:								
Salaries <sup>9</sup> .....	25,188,764	12,081,194	288,884	574,536	3,095,292	374,554	614,859	8,159,445
Wages.....	77,488,188	25,220,925	1,060,399	1,507,692	9,892,488	1,040,335	1,567,948	37,449,421
Distribution.....	1,990,577	549,741	171,415	141,493	222,902	95,816	77,693	731,517
Construction.....	730,354	100,282	44,427	4	600	18,106	18,106	566,849
Other.....	96,765	47,200	3,001	9,187	9,187	10,321	10,321	30,056
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	96,250,233	29,224,810	960,168	2,622,968	10,200,381	2,448,923	1,939,748	48,853,235
Materials and supplies.....	86,924,768	28,794,203	927,448	2,503,132	9,957,014	2,408,892	1,874,402	47,928,133
Fuel.....	551,382	65,309	10,033	51,088	89,939	10,751	27,414	295,948
Purchased electric energy.....	1,305,537	365,293	21,787	68,748	153,423	20,280	37,842	629,154
Contract work.....	7,468,546	(9)	(9)	(9)	(9)	(9)	(9)	(9)
Value of products.....	279,496,844	89,327,595	3,417,718	5,612,250	30,398,311	5,267,694	5,093,345	140,339,631
Value added by manufacture <sup>7</sup> .....	183,246,611	60,102,785	2,457,650	2,989,282	20,197,930	2,809,071	3,153,597	91,536,396

<sup>1</sup> Connecticut, 8 establishments; Delaware, 1; Illinois, 4; Indiana, 2; Maryland, 3; Massachusetts, 1; Missouri, 5; New Jersey, 7; Oklahoma, 1; Tennessee, 1; Washington, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Cost of contract work, \$7,468,546, not included in figure for "Materials and supplies."  
<sup>6</sup> Data for contract work withheld to avoid disclosing, exactly or approximately, data reported by individual establishments; included in figure for "Materials and supplies."  
<sup>7</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

	1939	1937
Aircraft and Parts, Including Aircraft Engines Industry, all products, total value.....	\$279,496,844	\$140,609,756
Aircraft and parts, including aircraft engines and experimental work, made in this industry.....	269,952,521	144,577,405
Miscellaneous products not specified.....	3,421,522	2,021,029
Receipts for contract work and repair work.....	3,514,263	2,146,041
Other products (not classified in this industry).....	1,260,533	955,281
Aircraft and parts, including aircraft engines and experimental work, aggregate value.....	\$279,956,255	\$146,836,793
Aircraft and parts, including aircraft engines and experimental work, made in this industry.....	269,952,521	144,577,405
Aircraft and parts, including aircraft engines, made as secondary products in other industries.....	10,003,734	2,259,388

<sup>1</sup> Bearings, auto parts and accessories, engines (other than aircraft), radio speakers, etc.

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

PRODUCT	1939	1937
Aggregate value.....	\$279,956,255	\$146,836,793
Aircraft both begun and completed within the year, total value <sup>1</sup> .....	\$75,872,587	\$38,604,153
Military aircraft, value.....	\$62,373,715	\$3,100
Civil aircraft:		\$38,604,153
Total number.....	3,770	
Total value.....	\$13,498,872	
Cabin, single-engine airplanes <sup>2</sup> :		
1- to 3-place <sup>3</sup> :		
Number.....	3,433	1,691
Value.....	\$3,495,412	\$4,176,893
4-place and larger <sup>3</sup> :		
Number.....	228	505
Value.....	\$1,494,528	\$2,537,074
Other <sup>4</sup> :		
Number.....	109	904
Value.....	\$8,508,932	\$31,950,186
Value of work done during year on aircraft under construction <sup>5</sup> .....	\$66,673,329	\$33,775,653
Aircraft engines and engine parts, total value.....	\$74,282,354	\$38,574,961
Engines:		
Number.....	11,172	6,214
Value.....	(9)	\$28,570,971
Engine parts, value <sup>6</sup> .....	(9)	\$9,997,980
Propellers, propeller blades and parts, pontoons, and parachutes.....	\$14,513,948	\$9,129,299
Aircraft parts other than listed above.....	\$37,223,073	\$19,951,198
Experimental work.....	\$11,385,964	\$6,741,539

See footnotes for this table in next column.

**TABLE 5.—AIRCRAFT ENGINES—PRODUCTION, BY NUMBER, RATED CAPACITY IN DETAIL, AND VALUE, FOR THE UNITED STATES: 1933 TO 1939**

YEAR	NUMBER, BY HORSEPOWER CAPACITY, RATED OR NORMAL, NOT OVERLOAD							Total rated horsepower capacity	Total value
	Total	20 or more but under 50	50 or more but under 100	100 or more but under 200	200 or more but under 400	400 or more but under 1,000	1,000 or more but under 5,000		
1939.....	11,172	(1)	(1)	(1)	(1)	(1)	(1)	(2)	(1)
1937.....	6,214	1,584	126	373	1,276	2,838	17	2,699,385	\$28,570,971
1935.....	2,866	204	173	314	427	1,748	-----	1,269,751	12,610,285
1933.....	1,822	15	15	18	329	1,445	-----	428,625	\$8,651,247

<sup>1</sup> Withheld to avoid disclosing, exactly or approximately, data for individual establishments.  
<sup>2</sup> Not called for on schedule.  
<sup>3</sup> Of the 2,838 engines, 507 were 400 horsepower or more, but under 600 horsepower, the remaining 2,331 being 600 horsepower or more, but under 1,000 horsepower.  
<sup>4</sup> Not including engines, valued at \$67,875, not reported by number or horsepower rating.

**FOOTNOTES FOR TABLE 4**

<sup>1</sup> The values of aircraft do not include the cost of engines, propellers, and power-plant accessories installed therein. See text.  
<sup>2</sup> Civil aircraft and military aircraft were not called for separately for 1937.  
<sup>3</sup> The 1939 data for 1- to 3- and 4-place and larger cabin, single-engine airplanes and for other aircraft begun and completed within the year refer to civil aircraft only. The 1937 data for these items, however, refer to both civil and military aircraft and are therefore not comparable with the corresponding 1939 figures.  
<sup>4</sup> The figures for "Other" aircraft include cabin, multiengine airplanes, seaplanes, amphibians, open-cockpit airplanes, autogiros, and balloons.  
<sup>5</sup> The term "aircraft under construction" includes all aircraft (1) begun prior to the census year and completed during the census year; (2) begun prior to the census year and not completed during the census year; (3) begun during the census year and not completed at the close of the census year. Only the value of the work done during the census year is included in the above tables.  
<sup>6</sup> The following civil aircraft were reported as begun prior to 1939 and completed in 1939: 64 cabin, single-engine, 1- to 3-place airplanes, value \$78,614; 55 cabin, single-engine, 4-place and larger airplanes, value \$428,799; and 62 other aircraft (cabin, multiengine airplanes, amphibians, seaplanes, and open-cockpit airplanes), value \$4,444,537. Military aircraft begun prior to 1939 and completed in 1939 were valued at \$39,060,951. For 1937, "aircraft under construction" cannot be segregated into those begun prior to 1937 and completed in 1937 and those begun prior to or in 1937 but not completed by the end of 1937.  
<sup>7</sup> Data withheld to avoid disclosing, exactly or approximately, the output of individual establishments.  
<sup>8</sup> Called for as engine parts and attachments in 1937 and as power-plant accessories and parts for aircraft engines in 1939.

## CENSUS OF MANUFACTURES: 1939

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937,<sup>1</sup> AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	48,638	34,433	36,512	38,188	41,101	44,567	48,057	49,832	51,535	52,946	56,289	62,601	67,589
1937	30,384	26,404	28,472	28,558	30,666	31,321	32,121	32,272	31,780	30,720	30,988	31,508	30,276
California	16,036	10,643	10,939	12,043	13,755	15,400	16,722	17,062	17,052	17,273	17,845	20,058	23,041
Connecticut	5,397	4,115	4,262	4,495	4,526	4,811	5,112	5,269	5,461	5,633	6,366	7,139	7,581
Illinois	71	47	51	46	44	35	43	50	68	73	120	136	137
Kansas	923	531	586	700	869	951	963	1,038	1,081	1,094	1,118	1,085	1,057
Maryland	7,772	3,196	3,941	4,484	4,844	5,430	6,393	7,838	9,589	10,731	11,770	12,535	12,507
Michigan	962	804	809	815	794	837	1,056	1,300	1,203	1,089	820	972	1,032
Missouri	440	886	900	215	231	249	300	351	379	446	440	423	456
New Jersey	4,568	3,893	4,051	4,185	4,293	4,417	4,466	4,547	4,542	4,560	4,991	5,437	5,829
New York	6,262	5,913	6,230	6,193	6,506	6,885	7,251	6,263	5,539	5,091	5,576	6,323	7,359
Ohio	754	557	581	619	636	681	742	773	816	840	858	939	1,004
Pennsylvania	1,265	832	889	1,008	1,118	1,241	1,317	1,381	1,371	1,328	1,314	1,637	1,740

<sup>1</sup> No strictly comparable figures available for 1929.

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	125
Reporting expenditures for plant and equipment	107
Value of products:	
Total for the industry	\$279,496,844
Reporting expenditures for plant and equipment	271,836,869
Expenditures for plant and equipment:	
Total for the industry	22,580,284
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	6,702,273
Expenditures for new machinery and operating equipment	14,728,323
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	1,149,688

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$61,271,859	\$36,072,808
Finished products	1,922,673	5,000,557
Materials, supplies, etc.	59,349,186	31,072,251
End of year, total	67,751,888	59,425,592
Finished products	2,230,332	8,383,484
Materials, supplies, etc.	95,521,056	51,042,108
Value of products for the industry, total	279,496,844	149,699,756
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	270,413,429	148,705,255
Value for establishments not reporting inventories	83,416	934,501

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments	125
Number of establishments reporting power equipment	125
Prime movers, aggregate:	
Number	18
Horsepower	6,250
Prime movers, driving generators, total—	
Number	8
Horsepower	5,185
Steam engines—	
Number	4
Horsepower	1,785
Diesel and semi-Diesel engines—	
Number	4
Horsepower	3,400
Prime movers not driving generators, total—	
Number	10
Horsepower	1,065
Steam engines—	
Number	1
Horsepower	375
Steam turbines—	
Number	8
Horsepower	625
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—	
Number	1
Horsepower	65
Generators, kilowatt rating, total	4,468
Generators, driven by—	
Steam engines, kilowatt rating	1,668
Diesel and semi-Diesel engines, kilowatt rating	2,800
Electric motors, total:	
Number	22,885
Horsepower	86,278
Driven by purchased energy—	
Number	22,880
Horsepower	86,098
Driven by energy generated in establishments reporting—	
Number	46
Horsepower	180
Electric energy (kilowatt-hours):	
Generated in plant	6,000
Purchased	117,190,003

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.

## SHIP AND BOAT BUILDING AND REPAIRING

**Description of the subgroup of industries.**—This subgroup of industries embraces establishments primarily engaged in building or repairing all classes of boats and vessels.

Prior to the Census of Manufactures for 1939, ship and boat building and repairing were treated as a single industry, "Ship and boat building and repairing." For 1939, however, this industry forms a subgroup composed of (a) the "Shipbuilding and ship repairing" industry, which includes establishments primarily engaged in building or repairing ships of 5 gross tons and over, and (b) the "Boat building and boat repairing" industry, which embraces establishments whose major activity is the building or repairing of boats of less than 5 gross tons. A special tabulation was made of the reports for 1937 in order to obtain figures comparable with the statistics for each of these industries for 1939

**SUMMARY FOR THE SHIP AND BOAT BUILDING AND REPAIRING  
SUBGROUP FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939.....	608	69,241	\$107,370,748	\$158,373,778	\$338,271,641	\$179,897,868	34,035
1937.....	544	62,274	93,740,576	101,411,087	250,457,198	149,046,111	( <sup>5</sup> )
1935.....	556	44,830	55,421,801	61,109,408	154,899,887	93,790,479	( <sup>5</sup> )
1933.....	395	30,885	33,890,080	31,172,125	92,696,191	61,524,066	( <sup>5</sup> )
1931.....	518	45,262	62,028,150	72,321,989	186,993,411	114,671,422	( <sup>5</sup> )
1929.....	624	55,089	88,274,153	85,848,690	231,300,165	145,451,476	54,427
1927.....	559	55,014	87,081,444	78,626,391	211,127,067	132,509,676	55,203
1925.....	565	50,224	74,275,019	66,298,964	177,181,960	110,882,996	57,006
1923.....	567	62,287	90,719,525	84,557,675	213,232,382	128,674,707	57,530
1921.....	640	106,445	155,943,490	169,368,425	400,834,105	231,465,680	( <sup>5</sup> )
1919.....	1,075	387,446	597,446,648	710,522,676	1,622,361,261	911,838,585	128,290
1914.....	1,147	44,489	32,931,156	38,596,970	88,082,071	50,085,101	85,020
1909.....	1,353	40,508	25,267,686	31,214,358	73,360,315	42,145,957	70,738
1904.....	1,097	50,754	29,241,087	37,463,179	82,769,239	45,306,060	71,125
1899.....	1,107	46,747	24,824,738	33,474,806	74,632,277	41,057,381	58,244

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Cost of contract work is included in the figures for 1939, 1937, and 1935 but is not included for prior years.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.

For years prior to 1937, however, no segregation has been made. The combined data for prior years for both shipbuilding and ship-repairing establishments and boat-building and boat-repairing establishments are presented in the table for the subgroup.

Since 1919, no data have been collected for shipyards operated by the Federal Government, and no data relative to such shipyards, for any year, are included in this report.

As generally used in this report, the terms "ship" and "vessel" refer to craft of 5 gross tons and over while craft of less than 5 gross tons are designated as "boats."

**GENERAL STATISTICS IN DETAIL: 1939**

ITEM	Total for the subgroup	"Shipbuilding and ship repairing" industry	"Boat building and boat repairing" industry
Number of establishments <sup>1</sup> .....	608	406	202
Proprietors and firm members.....	369	198	168
Persons reported by manufacturing industries, total <sup>2</sup> .....	78,127	75,118	3,009
Salaried officers of corporations <sup>2</sup> .....	575	483	92
Manufacturing: Salaried employees <sup>2</sup> .....	7,399	7,176	224
Wage earners (average for the year) <sup>3</sup> .....	69,241	66,611	2,630
Distribution.....	459	396	63
Construction.....	345	345	-----
Other.....	108	108	-----
Salaries and wages, total <sup>2</sup> .....	\$130,047,248	\$126,244,783	\$3,802,465
Salaried officers <sup>2</sup> .....	3,486,501	3,108,546	377,955
Manufacturing: Salaries <sup>2</sup> .....	17,488,497	17,091,104	397,393
Wages.....	107,370,748	104,478,308	2,897,445
Distribution.....	1,064,101	930,429	133,672
Construction.....	471,367	471,367	-----
Other.....	171,084	170,034	1,050
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	158,373,778	153,415,481	4,958,297
Materials and supplies.....	153,476,642	148,039,860	4,836,782
Fuel.....	1,693,252	1,656,789	36,463
Purchased electric energy.....	2,553,905	2,480,747	73,248
Contract work.....	649,889	638,085	11,804
Value of products.....	338,271,641	327,387,069	10,884,542
Value added by manufacture <sup>4</sup> .....	179,897,868	178,971,618	5,926,245

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

## SHIPBUILDING AND SHIP REPAIRING

[A preliminary report for this industry was issued October 5, 1940]

**Description of the industry.**—This industry embraces establishments, other than shipyards operated by the Federal Government, primarily engaged in building or repairing ships of 5 gross tons and over of all types, whether steel or wood and whether self-propelled by sail or motor power or not self-propelled, such as barges, canal boats, lighters, etc. The value of products of this industry is the value of work done during the year by these establishments.

Prior to the Census of Manufactures for 1939, ship and boat building and repairing were included in a single industry, "Ship and boat building and repairing." For 1939 this industry was divided into (a) the "Shipbuilding and ship repairing" industry, covering establishments primarily engaged in building and repairing ships of 5 gross tons and over, and (b) the "Boat building and boat repairing" industry, covering establishments primarily engaged in building and repairing boats of less than 5 gross tons. The 1937 figures shown in the following tables were compiled from a special tabu-

lation of the 1937 returns and are comparable with the 1939 statistics. For years prior to 1937, no segregation of the returns has been made. However, data for shipbuilding and ship-repairing establishments for these prior years, as well as for 1939 and 1937, are included in the statistics for the Ship and Boat Building and Repairing subgroup on page 543.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	406	66,611	\$104,473,303	\$153,415,481	\$327,387,099	\$173,971,618	33,163
1937 <sup>4</sup> .....	353	59,452	90,514,434	95,686,557	238,385,193	142,609,636	( <sup>5</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> No comparable figures for earlier years.  
<sup>5</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Delaware	Florida	Illinois	Indiana	Louisiana	Michigan	Minnesota
Number of establishments <sup>1</sup> .....	406	46	6	20	5	4	14	8	4
Proprietors and firm members.....	198	30	3	10	2	2	5	5	1
Persons reported by manufacturing establishments, total <sup>2</sup> .....	75,118	4,458	663	1,651	244	134	1,370	448	92
Salaried officers of corporations <sup>2</sup> .....	483	38	6	24	8	3	20	7	1
Manufacturing:									
Salaried employees <sup>2</sup> .....	7,175	342	84	156	17	14	76	79	13
Wage earners (average for the year) <sup>2</sup> .....	66,611	3,962	558	1,463	215	115	1,227	355	78
Distribution.....	396	107	2	8	1	2	45	7	
Construction.....	345	2	13		3				
Other.....	108	7					2		
Salaries and wages, total <sup>2</sup> .....	\$126,244,783	\$7,473,659	\$1,033,981	\$2,040,301	\$410,052	\$167,076	\$1,647,333	\$703,214	\$164,027
Salaried officers <sup>2</sup> .....	3,108,546	294,649	36,119	88,400	36,345	4,850	90,910	73,920	3,600
Manufacturing:									
Salaries <sup>2</sup> .....	17,091,104	805,221	166,264	199,889	40,439	15,013	175,995	235,439	17,211
Wages.....	104,473,303	6,112,221	805,990	1,742,470	327,800	146,236	1,303,013	465,020	144,116
Distribution.....	930,429	254,179	5,903	9,482	1,560	977	77,306	16,412	
Construction.....	471,367	1,821	19,705		3,908			2,414	
Other.....	170,034	5,568					100		
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	153,415,481	4,604,271	1,296,218	2,552,132	288,283	140,687	1,117,182	655,283	127,783
Materials and supplies.....	148,639,860	4,280,226	1,251,550	2,494,045	270,786	136,526	1,061,625	608,567	120,824
Fuel.....	1,056,789	41,403	17,071	12,245	3,602	832	13,062	28,280	1,332
Purchased electric energy.....	2,480,747	206,517	27,597	43,802	13,395	3,329	40,495	18,436	4,834
Contract work.....	638,085	76,125		2,040	500		2,000		768
Value of products.....	327,387,099	16,605,396	2,416,836	5,685,753	871,511	400,553	3,355,031	1,801,530	305,856
Value added by manufacture <sup>4</sup> .....	173,971,618	12,001,125	1,120,618	3,133,621	583,223	268,866	2,237,849	1,146,247	178,068

See footnotes at end of table.

SHIPBUILDING AND SHIP REPAIRING

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TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	New Jersey	New York	Ohio	Oregon	Rhode Island	Texas	Washington	Wisconsin	Other States*
Number of establishments <sup>1</sup> .....	33	60	9	8	4	10	30	7	132
Proprietors and firm members.....	15	8	2	8	-----	4	25	3	75
Persons reported by manufacturing es- tablishments, total <sup>2</sup> .....	14,401	8,203	773	251	100	1,502	1,603	476	35,751
Salaried officers of corporations <sup>2</sup> .....	52	106	9	6	3	12	24	10	154
Manufacturing:									
Salaried employees <sup>2</sup> .....	1,883	668	92	11	13	106	87	25	3,508
Wage earners (average for the year) <sup>2</sup> .....	12,300	7,277	670	232	83	1,379	1,484	399	34,816
Distribution.....	17	75	2	2	1	5	5	41	76
Construction.....	61	72	-----	-----	-----	-----	3	-----	191
Other.....	88	5	-----	-----	-----	-----	-----	-----	6
Salaries and wages, total <sup>2</sup> .....	\$26,491,393	\$15,001,555	\$1,308,300	\$388,425	\$154,864	\$2,087,135	\$2,851,607	\$831,254	\$63,898,807
Salaried officers <sup>2</sup> .....	555,683	688,024	53,925	26,400	3,000	91,651	107,960	44,334	908,707
Manufacturing:									
Salaries <sup>2</sup> .....	4,559,337	1,736,415	217,487	13,115	18,912	315,901	231,554	42,899	8,294,113
Wages.....	20,998,177	12,368,190	1,023,273	341,671	131,662	1,667,466	2,493,779	656,638	53,755,682
Distribution.....	113,827	182,233	13,615	2,230	1,300	22,117	13,233	87,383	128,663
Construction.....	114,750	20,286	-----	-----	-----	-----	5,081	-----	303,402
Other.....	149,619	6,407	-----	-----	-----	-----	-----	-----	8,340
Cost of materials, supplies, fuel, pur- chased electric energy, and contract work, total.....	36,978,377	10,405,400	815,970	409,556	102,133	1,712,151	2,741,474	806,614	88,661,962
Materials and supplies.....	35,975,384	9,710,443	727,544	404,464	96,180	1,625,961	2,571,364	788,254	86,536,117
Fuel.....	461,441	154,082	34,851	408	2,151	20,520	18,865	17,332	829,306
Purchased electric energy.....	306,801	385,139	53,575	4,684	3,802	65,664	50,245	19,811	1,232,621
Contract work.....	234,751	155,736	-----	-----	-----	-----	101,000	1,217	63,918
Value of products.....	72,352,340	32,650,555	2,076,789	915,153	295,496	5,047,700	6,381,417	1,994,754	173,615,415
Value added by manufacture <sup>4</sup> .....	35,373,972	22,251,155	1,860,819	505,602	193,363	3,335,549	3,639,943	1,188,140	84,953,453

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
\* Alabama, 5 establishments; Connecticut, 10; Georgia, 2; Iowa, 1; Kentucky, 1; Maine, 14; Maryland, 27; Massachusetts, 27; Mississippi, 3; Missouri, 2; North Carolina, 3; Pennsylvania, 17; South Carolina, 1; Virginia, 18; West Virginia, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Shipbuilding and Ship Repairing industry, all products, total value.....	\$327,387,099	\$238,385,193
Shipbuilding and ship repairing done in this industry, including work done on units under construction.....	316,377,834	231,684,735
Miscellaneous products not specified.....	4,185,598	3,823,145
Other products (not classified in this industry).....	6,873,667	2,877,313
Shipbuilding and ship repairing, aggregate value.....	317,503,289	232,306,646
Shipbuilding and ship repairing done in this industry.....	316,377,834	231,684,735
Shipbuilding and repairing, secondary activities of other industries.....	1,125,455	621,911

<sup>1</sup> Refinery equipment, boats under 5 gross tons, structural steel, turbines, mining and dredging machinery, etc.

## CENSUS OF MANUFACTURES: 1939

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	Census year	Number of vessels launched	Gross tonnage	Net tonnage	Value of work done during the year
Shipbuilding and ship repairing, aggregate value.....	1939 1937				<sup>1</sup> \$317,503,289 <sup>1</sup> 232,306,646
Work done within the year on vessels (5 gross tons and over) launched during the year, total.....	1939 1937	1,592 1,203	634,151 386,602	480,408 272,911	132,046,472 70,322,535
Steel:					
Steam <sup>2</sup> .....	1939 1937	48 36	380,668 108,727	215,718 109,936	88,469,227 37,010,218
Motor, except submarine.....	1939 1937	115 100	77,427 58,480	45,980 36,185	23,742,823 12,802,321
Barges, including sloop and schooner barges.....	1939 1937	388 353	190,255 109,381	189,287 84,363	5,593,453 6,593,306
Lighters, scows, pile drivers, etc.....	1939 1937	25 38	8,772 9,168	8,362 8,453	641,952 735,081
Other.....	1939 1937	7 13	4,696 13,595	4,595 12,322	4,164,308 4,004,549
Wooden:					
Motor—					
5 to 15 tons.....	1939 1937	585 360	5,371 3,006	3,775 2,202	3,243,774 1,885,975
16 tons and over.....	1939 1937	245 172	10,582 10,082	7,278 6,401	3,877,271 4,450,006
Sail with auxiliary motive power—					
5 to 15 tons.....	1939 1937	117 50	972 544	577 377	680,325 420,084
16 tons and over.....	1939 1937	10 27	974 937	452 606	371,081 634,402
Sail without auxiliary motive power, 5 tons and over.....	1939 1937	7 5	65 65	45 71	53,328 61,279
Lighters, scows, pile drivers, etc., 5 tons and over.....	1939 1937	28 22	2,686 5,850	2,444 5,338	147,216 130,881
Barges, including sloop and schooner barges, 5 tons and over <sup>2</sup> .....	1939 1937	8 21	1,943 6,747	1,889 6,597	67,336 275,913
Ships not distributable by material, or kind of power, or tonnage.....	1939 1937	3 3	40 40	26 26	23,408 134,500
Value of work done on vessels under construction but not yet launched, and on those launched prior to the beginning of the year:					
Steel.....	1939 1937				95,567,007 64,383,366
Wooden.....	1939 1937				861,227 1,090,516
Receipts for repair work:					
Steel.....	1939 1937				70,804,457 77,429,016
Wooden.....	1939 1937				14,460,243 16,574,016
Other products and receipts.....	1939 1937				3,068,793 2,408,197

<sup>1</sup> In the case of craft which were both begun and completed within the census year, the entire value is included; in the case of all other craft, only the value of work done during the census year is included.

<sup>2</sup> All vessels were reported as 16 gross tons and over.

<sup>3</sup> Includes 71 vessels of 16 gross tons and over, having gross tonnage of 77,019 and net tonnage of 45,707. The value of work done during the year on these vessels was reported as \$23,518,297. The remaining 44 vessels were of 5 to 15 gross tons, with gross tonnage of 408 and net tonnage of 253. The value of work done during the year on these vessels was reported as \$224,526.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

(See GENERAL EXPLANATIONS—Disclosure of data for individual establishments)

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	66,611	50,162	50,031	62,376	63,872	67,862	67,791	67,451	66,056	69,238	72,133	72,408	74,957
1937.....	59,452	54,044	56,906	61,681	64,243	63,626	61,764	55,770	57,737	60,247	59,606	59,481	58,502
Alabama.....	1,600	1,571	1,609	1,714	1,183	1,621	1,546	1,518	1,551	1,732	1,754	1,739	1,666
California.....	3,962	3,885	4,004	4,729	4,312	4,368	3,912	3,810	3,538	3,310	3,862	4,038	3,775
Connecticut.....	2,242	2,112	2,113	2,169	2,237	2,324	2,286	2,272	2,268	2,275	2,269	2,269	2,281
Delaware.....	558	703	699	711	742	628	641	566	606	449	345	367	396
Florida.....	1,463	903	986	1,055	1,217	1,394	1,488	1,609	1,728	1,761	1,695	1,751	1,968
Illinois.....	215	150	174	227	269	218	239	186	235	169	193	181	336
Indiana.....	115	46	44	43	44	48	108	167	154	161	160	177	176
Louisiana.....	1,227	1,490	1,183	1,397	1,018	1,242	1,267	1,241	1,076	1,408	1,190	887	1,814
Maine.....	2,376	1,928	1,870	1,963	2,195	2,377	2,480	2,596	2,593	2,611	2,649	2,623	2,633
Maryland.....	5,435	3,649	5,334	5,196	5,429	5,735	5,612	5,529	5,220	5,764	6,128	5,662	5,950
Massachusetts.....	7,226	6,448	6,374	6,537	6,897	7,406	7,499	7,542	7,345	7,392	7,497	7,624	7,849
Michigan.....	355	313	327	333	313	264	258	285	277	405	443	490	550
Minnesota.....	78	51	53	60	68	77	32	83	86	121	124	83	47
Mississippi.....	292	132	125	162	139	130	144	183	327	438	534	546	651
New Jersey.....	12,300	8,709	9,527	10,608	11,632	12,153	12,571	12,415	12,420	13,104	14,005	15,031	15,422
New York.....	7,277	6,624	6,670	6,631	7,246	7,758	8,057	7,475	6,670	7,223	7,832	7,186	7,901
North Carolina.....	81	90	81	86	92	82	85	83	82	79	70	70	73
Ohio.....	670	871	771	648	590	539	511	382	430	631	724	710	1,228
Oregon.....	232	480	379	276	115	94	279	126	316	208	178	207	123
Pennsylvania.....	6,551	6,150	6,552	6,747	6,537	6,283	6,314	6,533	6,656	6,580	6,555	6,711	6,992
Rhode Island.....	83	104	104	106	115	116	111	79	56	47	54	51	54
Texas.....	1,379	1,434	1,064	1,289	1,245	1,537	1,201	1,441	1,255	1,188	1,633	1,537	1,538
Virginia.....	8,334	6,183	6,418	6,895	7,472	8,210	8,354	8,674	9,016	9,558	9,740	9,771	9,754
Washington.....	1,484	1,124	1,605	1,857	1,586	2,051	1,569	1,328	1,043	1,611	1,333	1,397	1,305
Wisconsin.....	399	373	408	329	375	409	417	685	458	293	324	325	387

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	406
Reporting expenditures for plant and equipment.....	211
Value of products:	
Total for the industry.....	\$327,387,099
Reporting expenditures for plant and equipment.....	285,461,459
Expenditures for plant and equipment:	
Total for the industry.....	8,683,483
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	4,447,485
Expenditures for new machinery and operating equipment.....	3,857,239
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	378,020
Expenditures unclassified.....	730

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$32,885,067	\$24,938,331
Finished products.....	2,209,090	1,315,013
Materials, supplies, etc.....	30,676,877	23,623,318
End of year, total.....	41,520,205	31,193,056
Finished products.....	2,132,085	1,804,250
Materials, supplies, etc.....	39,388,120	29,388,806
Value of products for the industry, total.....	327,387,099	238,385,193
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	325,494,727	233,007,964
Value for establishments not reporting inventories.....	1,892,372	5,377,229

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments.....	406
Number of establishments reporting power equipment.....	399
Prime movers, aggregate:	
Number.....	221
Horsepower.....	33,163
Prime movers, driving generators, total—	
Number.....	38
Horsepower.....	20,864

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators—Continued.	
Steam engines—	
Number.....	7
Horsepower.....	2,027
Steam turbines—	
Number.....	0
Horsepower.....	13,893
Diesel and semi-Diesel engines—	
Number.....	17
Horsepower.....	4,559
Other internal-combustion engines <sup>2</sup> —	
Number.....	5
Horsepower.....	385
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	12,002
Prime movers not driving generators, total—	
Number.....	183
Horsepower.....	12,209
Steam engines—	
Number.....	83
Horsepower.....	8,793
Steam turbines—	
Number.....	2
Horsepower.....	82
Diesel and semi-Diesel engines—	
Number.....	12
Horsepower.....	840
Other internal-combustion engines <sup>2</sup> —	
Number.....	86
Horsepower.....	2,584
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	2,882
Generators, kilowatt rating, total.....	14,024
Generators, driven by—	
Steam engines, kilowatt rating.....	1,385
Steam turbines, kilowatt rating.....	0,150
Diesel and semi-Diesel engines, kilowatt rating.....	3,270
Other internal-combustion engines, <sup>2</sup> kilowatt rating.....	219
Generators, ordinarily idle (included above), kilowatt rating.....	8,610
Electric motors, total:	
Number.....	21,837
Horsepower.....	310,446
Driven by purchased energy—	
Number.....	18,752
Horsepower.....	274,333
Driven by energy generated in establishments reporting—	
Number.....	3,085
Horsepower.....	46,113
Electric energy (kilowatt-hours):	
Generated in plant.....	20,254,280
Sold.....	1,218,839
Purchased.....	195,281,521

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.

## BOAT BUILDING AND BOAT REPAIRING

[A preliminary report for this industry was issued December 13, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in building or repairing boats of less than 5 gross tons of all types, such as inboard and outboard motorboats, sailboats, rowboats, lifeboats, canoes, etc. The value of products of this industry is the value of work done during the year by these establishments.

Prior to the Census of Manufactures for 1939, ship and boat building and repairing were included in a single industry, "Ship and boat building and repairing." For 1939 this industry was divided into (a) the "Shipbuilding and ship repairing" industry, covering establishments primarily engaged in building and repairing ships of 5 gross tons and over, and (b) the "Boat building and boat repairing" industry, covering establishments primarily engaged in building and repairing boats of less than 5 gross tons. The 1937 figures shown in the following tables were compiled from a special tabulation of the 1937 returns and are comparable with the 1939 statis-

tics. For years prior to 1937, no segregation of the returns has been made. However, data for boatbuilding and boat-repairing establishments for these prior years, as well as for 1939 and 1937, are included in the statistics for the Ship and Boat Building and Repairing subgroup on page 543.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horsepower of prime movers
1939.....	202	2,630	\$2,897,445	\$4,958,297	\$10,884,542	\$5,926,245	872
1937 <sup>4</sup> .....	191	2,822	3,232,142	5,724,530	12,072,005	6,347,475	( <sup>5</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> No comparable figures for prior years.  
<sup>5</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Florida	Illinois	Maine	Massachusetts	Michigan	Minnesota
Number of establishments <sup>1</sup> .....	202	15	8	20	5	11	10	11	10
Proprietors and firm members.....	168	23	4	16	5	9	14	7	13
Persons reported by manufacturing establishments, total <sup>2</sup> .....	3,009	65	99	203	46	230	104	986	40
Salaried officers of corporations <sup>2</sup> .....	92	-----	3	7	2	8	6	11	1
Manufacturing:									
Salaried employees <sup>2</sup> .....	224	4	10	15	4	6	10	86	1
Wage earners (average for the year) <sup>2</sup> .....	2,630	60	85	177	34	212	142	872	47
Distribution.....	63	1	1	4	6	4	0	17	-----
Construction.....	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----
Salaries and wages, total <sup>2</sup> .....	\$3,802,465	\$88,201	\$137,323	\$223,253	\$30,760	\$216,103	\$180,487	\$1,290,118	\$41,891
Salaried officers <sup>2</sup> .....	377,955	-----	6,022	27,029	3,750	29,937	15,805	88,927	1,060
Manufacturing:									
Salaries <sup>2</sup> .....	392,393	4,605	16,463	21,193	5,504	4,607	8,931	180,531	1,450
Wages.....	2,807,445	81,268	112,676	172,231	24,086	173,771	153,549	904,662	38,401
Distribution.....	133,672	1,328	2,162	2,800	6,420	7,788	8,202	55,998	-----
Construction.....	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other.....	1,000	1,000	-----	-----	-----	-----	-----	-----	-----
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	4,958,297	129,665	71,855	241,411	95,985	233,346	223,672	2,154,687	60,967
Materials and supplies.....	4,836,782	120,545	68,069	233,874	94,985	225,055	214,326	2,118,032	57,027
Fuel.....	36,493	319	535	150	95	4,162	1,672	17,008	1,293
Purchased electric energy.....	73,248	2,251	2,651	4,437	905	3,520	5,073	18,457	2,037
Contract work.....	11,804	550	-----	2,050	-----	-----	2,601	1,190	600
Value of products.....	10,884,542	323,346	204,323	664,509	162,421	576,827	478,152	4,113,913	143,430
Value added by manufacture <sup>4</sup> .....	5,926,245	193,681	222,468	423,098	66,436	343,481	254,480	1,959,226	82,482

See footnotes at end of table.

# BOAT BUILDING AND BOAT REPAIRING

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TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	New Jersey	New York	Ohio	Oregon	Pennsyl- vania	Virginia	Washing- ton	Wisconsin	Other States <sup>1</sup>
Number of establishments <sup>1</sup> .....	15	33	5	3	5	6	11	10	15
Proprietors and firm members.....	6	20	6	3	5	6	14	0	11
Persons reported by manufacturing establishments, total <sup>2</sup> .....	244	371	64	8	29	100	85	159	107
Salaried officers of corporations <sup>2</sup> .....	8	21	2	-----	1	4	4	11	3
Manufacturing:									
Salaried employees <sup>2</sup> .....	32	21	10	-----	4	4	3	9	5
Wage earners (average for the year) <sup>3</sup> .....	202	319	52	8	23	92	77	131	97
Distribution.....	2	10	-----	-----	1	-----	1	8	2
Construction.....									
Other.....									
Salaries and wages, total <sup>2</sup> .....	\$394,825	\$510,856	\$76,561	\$3,994	\$34,079	\$92,013	\$130,624	\$211,076	\$110,011
Salaried officers <sup>2</sup> .....	40,914	69,355	4,300	-----	1,975	6,066	12,600	40,416	13,909
Manufacturing:									
Salaries <sup>2</sup> .....	55,598	34,218	13,538	-----	6,793	3,381	3,825	16,346	8,320
Wages.....	272,813	392,305	68,723	8,994	22,811	82,566	113,419	136,897	88,183
Distribution.....	16,500	14,978	-----	-----	3,100	-----	780	9,017	1,599
Construction.....									
Other.....									
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	513,503	522,201	86,537	16,148	78,900	40,301	118,851	254,112	116,166
Materials and supplies.....	501,197	507,147	84,064	15,842	76,808	37,703	114,227	247,572	113,119
Fuel.....	1,038	4,495	985	-----	1,082	200	164	2,716	549
Purchased electric energy.....	11,208	9,681	1,285	306	1,010	1,152	2,920	3,788	2,498
Contract work.....		878	213	-----	-----	1,246	1,540	36	-----
Value of products.....	1,046,441	1,385,631	201,196	32,037	127,644	174,177	305,897	569,569	285,020
Value added by manufacture <sup>4</sup> .....	532,938	863,430	114,659	15,889	48,744	133,876	187,046	316,467	168,354

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Alabama, 2 establishments; District of Columbia, 1; Indiana, 1; Iowa, 1; Louisiana, 1; Maryland, 2; Missouri, 2; New Hampshire, 1; North Carolina, 2; Rhode Island, 1; South Carolina, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Boat Building and Boat Repairing industry, all products, total value <sup>1</sup> .....	\$10,884,542	\$12,072,005
Boat building and boat repairing done in this industry, including work done on units under construction and repair work.....	8,015,302	9,952,287
Miscellaneous products not specified.....	776,817	664,572
Other products (not classified in this industry).....	1,402,423	1,455,146
Boat building and boat repairing, aggregate value.....	9,530,202	11,244,880
Boat building and boat repairing done in this industry.....	8,015,302	9,952,287
Boat building, secondary activity of other industries.....	914,900	1,292,593

<sup>1</sup> In the case of craft which were both begun and completed within the census year, the entire value is included; in the case of all other craft, only the value of work done during the census year is included.  
<sup>2</sup> Vessels of 5 gross tons and over, engines, furniture, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939		1937	
	Number	Value of work done during the year	Number	Value of work done during the year
Boat building and boat repairing, aggregate value.....		\$9,530,202		\$11,244,880
Boats, less than 5 gross tons, built during the year, total value.....		6,961,990		9,187,764
Number and value reported <sup>1</sup> .....	34,424	6,874,331	30,356	9,016,885
Value only reported.....		87,659		170,899
Motorboats (except lifeboats), total.....	13,184	4,393,867	10,584	7,067,723
Inboard <sup>2</sup> .....	3,247	3,599,094	3,228	6,415,302
Outboard <sup>2</sup> .....	9,937	794,773	7,356	642,421
Sailboats <sup>2</sup> .....	2,408	1,049,441	2,623	786,238
Rowboats <sup>2</sup> .....	12,289	624,874	9,645	443,765
Lifeboats, total <sup>2</sup> .....	679	399,963	669	262,151
Motor-propelled.....	18	65,189	24	33,298
Hand-propelled.....	661	334,774	645	228,853
Canoes <sup>2</sup> .....	4,105	236,615	5,127	280,087

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939		1937	
	Number	Value of work done during the year	Number	Value of work done during the year
Boat building and boat repairing—Con. Boats, less than 5 gross tons—Con. Other boats, including those not reported as to kind, <sup>3</sup> total value.....		\$257,130		\$327,810
Number and value reported.....	1,764	169,471	1,708	156,941
Value only reported.....		87,659		170,869
Value of work done on units under construction but not launched by the end of the year or on those launched prior to the beginning of the year:				
Steel.....		6,709		4,700
Wooden.....		382,713		223,713
Receipts for repair work:				
Steel.....		146,594		61,745
Wooden.....		1,658,221		1,722,651
Other products and receipts.....		374,065		44,317

<sup>1</sup> The following additional information has been compiled for 1939:

KIND	MADE IN THIS INDUSTRY		MADE IN THE SHIP-BUILDING AND SHIP REPAIRING INDUSTRY	
	Number	Value of work done during the year	Number	Value of work done during the year
Motorboats (except lifeboats):				
Inboard.....	2,567	\$3,211,817	680	\$387,277
Outboard.....	9,791	779,280	140	15,493
Sailboats.....	1,998	722,436	405	327,066
Rowboats.....	11,731	581,378	553	48,596
Lifeboats:				
Motor-propelled.....	18	65,189	-----	-----
Hand-propelled.....	600	309,176	61	31,598
Canoes.....	4,098	236,247	7	368
Other.....	1,562	188,153	202	31,318

<sup>1</sup> For 1939, inboard motorboats and sailboats were classified as to use, as follows: Inboard motorboats—for pleasure use, 3,161; for other uses, 86; sailboats—for pleasure use, 2,243; for other uses, 160. Similar information was called for on outboard motorboats but is withheld to avoid disclosing data reported by individual establishments; practically all outboards were reported as being for pleasure use, the number for other uses being negligible.  
<sup>2</sup> For 1939, rowboats, lifeboats, and canoes were not segregated as to use; of the 1,764 "Other boats including those not reported as to kind" shown for 1939, there were 1,622 reported as for pleasure use and 142 for other uses.

## CENSUS OF MANUFACTURES: 1939

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,630	2,449	2,621	2,000	3,090	3,396	3,403	2,965	2,444	2,117	2,214	2,316	2,450
1937.....	2,822	2,470	2,604	2,098	3,584	3,821	3,820	3,040	2,664	2,274	2,169	2,101	2,231
California.....	60	54	49	65	74	78	75	65	67	54	49	49	47
Connecticut.....	85	71	60	61	86	122	113	101	99	93	80	73	62
Florida.....	177	207	214	209	169	174	162	137	121	126	150	216	238
Illinois.....	34	34	36	36	40	43	40	38	25	24	33	29	30
Maine.....	212	198	216	252	291	315	329	235	181	90	115	155	160
Massachusetts.....	142	100	125	150	186	208	217	194	143	108	101	93	80
Michigan.....	872	941	976	279	1,039	1,137	1,142	964	807	733	772	776	899
Minnesota.....	47	34	36	41	58	71	66	60	45	39	41	38	33
New Jersey.....	202	169	161	162	173	196	210	228	204	210	240	235	236
New York.....	319	279	310	326	363	402	413	373	295	242	257	283	283
Ohio.....	52	31	42	47	66	79	88	78	48	40	37	36	39
Oregon.....	8	8	10	11	13	8	9	9	5	4	7	5	8
Pennsylvania.....	23	17	26	27	27	32	34	34	24	20	14	13	8
Virginia.....	92	56	68	78	86	110	152	127	106	89	83	75	69
Washington.....	77	75	91	118	144	127	74	63	50	45	41	40	50
Wisconsin.....	131	95	109	126	156	179	183	169	131	107	99	104	112

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939	
Number of establishments:		
Total for the industry.....		202
Reporting expenditures for plant and equipment.....		106
Value of products:		
Total for the industry.....	\$10,884,542	
Reporting expenditures for plant and equipment.....	8,159,870	
Expenditures for plant and equipment:		
Total for the industry.....	310,650	
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	182,205	
Expenditures for new machinery and operating equipment.....	107,459	
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	16,634	
Expenditures unclassified.....	4,352	

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,925,044	\$1,055,915
Finished products.....	545,551	617,545
Materials, supplies, etc.....	1,379,493	1,338,370
End of year, total.....	2,227,309	2,358,626
Finished products.....	754,393	656,746
Materials, supplies, etc.....	1,472,976	1,701,880
Value of products for the industry, total.....	10,884,542	12,072,005
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	10,160,147	11,423,450
Value for establishments not reporting inventories.....	724,395	648,555

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939	
Number of establishments.....		202
Number of establishments reporting power equipment.....		201
Prime movers, aggregate:		
Number.....		30
Horsepower.....		872
Prime movers, steam engines, driving generators—		
Number.....		1
Horsepower.....		100
Prime movers not driving generators, total—		
Number.....		29
Horsepower.....		772
Steam engines—		
Number.....		5
Horsepower.....		170
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—		
Number.....		23
Horsepower.....		580
Hydroturbines and water wheels—		
Number.....		1
Horsepower.....		22
Prime movers not driving generators, ordinarily idle (included above), horsepower.....		84
Generators driven by steam engines, kilowatt rating.....		70
Electric motors driven by purchased energy:		
Number.....		2,080
Horsepower.....		6,184
Electric energy (kilowatt-hours):		
Generated in plant.....		15,000
Purchased.....		2,420,907

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.

# MOTORCYCLES, BICYCLES, AND PARTS

[A preliminary report for this industry was issued September 19, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of complete motorcycles, side cars, motor scooters, bicycles, and motorcycle and bicycle parts, such as saddles, seat posts, frames, handlebars, etc. Establishments primarily engaged in the manufacture of engines, tires, lamps, and electrical supplies are classified in other industries.

An analysis of the summary statistics for this industry indicates that the increases in wage earners, wages, and value of products for 1939 are primarily due to classification in the "Motorcycles, bicycles, and parts" industry for 1939 of certain establishments which were classified in other industries in 1937. The value of the bicycles made by these establishments in 1937 accounted for a large part of the 1937 "Secondary products of other industries," as shown in table 3.

The total value of products for the industry includes duplication to the extent to which the products of establishments engaged in the manufacture of parts and accessories are used by other establishments in the industry in manufacturing complete assemblies. Many of the parts and accessories, however, are sold to dealers

or to consumers for use as additional equipment or for replacement.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1899.....	36	6,973	\$8,973,875	\$24,041,357	\$43,052,278	\$10,010,921	1,835
1907.....	29	9,938	8,206,866	19,793,292	36,014,237	16,250,995	(5)
1915.....	23	5,093	5,213,837	12,813,092	23,055,333	10,272,541	(6)
1923.....	19	3,038	2,639,031	6,161,686	12,035,357	5,893,671	(5)
1931.....	10	3,294	3,563,018	5,519,773	13,606,758	8,170,985	(5)
1929.....	21	4,392	6,293,876	11,281,327	23,894,805	12,613,478	2,315
1927.....	29	3,897	5,441,592	10,174,062	21,464,149	11,280,057	2,365
1925.....	36	4,193	5,092,397	12,176,935	24,257,923	12,060,988	2,395
1923.....	39	6,576	8,010,021	18,002,907	32,259,205	14,268,298	3,251
1921.....	46	4,308	4,981,295	10,322,811	23,097,749	12,774,938	(5)
1919.....	51	10,886	12,763,235	25,985,915	53,105,895	27,110,680	4,137
1914.....	78	9,680	4,738,750	10,927,054	22,234,262	11,306,608	2,979
1909.....	95	4,437	2,908,199	5,082,599	10,698,597	5,615,998	5,094
1904.....	101	3,319	1,971,403	2,628,149	5,163,240	2,825,094	5,172
1899.....	312	17,625	8,189,817	16,792,051	31,915,908	15,123,857	18,082

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Massachusetts	New York	Ohio	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	36	5	4	6	9	12
Proprietors and firm members.....	8	1		1		6
Persons reported by manufacturing establishments, total <sup>3</sup> .....	8,302	702	1,293	928	3,277	2,041
Salaried officers of corporations <sup>3</sup> .....	70	6	7	12	20	19
Manufacturing:						
Salaried employees <sup>3</sup> .....	735	66	125	59	223	262
Wage earners (average for the year) <sup>4</sup> .....	6,973	663	1,072	840	2,737	1,651
Distribution.....	512	27	89	8	279	109
Construction.....	12				12	
Other.....						
Salaries and wages, total <sup>3</sup> .....	\$11,863,153	\$975,846	\$1,608,811	\$1,246,760	\$5,078,340	\$2,893,396
Salaried officers <sup>3</sup> .....	619,347	66,148	65,948	125,249	260,056	95,947
Manufacturing:						
Salaries <sup>3</sup> .....	1,374,115	84,019	200,711	95,128	520,970	473,237
Wages.....	8,973,876	750,441	1,257,190	1,021,539	3,824,766	2,119,939
Distribution.....	875,269	75,238	144,962	4,844	446,002	204,223
Construction.....	20,547				20,647	
Other.....						
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	24,041,357	3,892,784	3,203,815	1,665,766	10,662,616	4,616,376
Materials and supplies.....	23,314,775	3,839,194	3,000,133	1,545,646	10,361,344	4,469,458
Fuel.....	290,758	17,318	58,929	64,639	79,096	70,876
Purchased electric energy.....	290,578	17,597	45,753	30,655	121,724	74,879
Contract work.....	145,246	18,705		24,926	100,452	1,163
Value of products.....	43,052,278	5,441,985	5,995,807	3,601,147	18,422,748	9,680,591
Value added by manufacture <sup>5</sup> .....	19,010,921	1,549,201	2,701,992	1,935,381	7,760,132	5,064,215

<sup>1</sup> California, 2 establishments; Connecticut, 1; Georgia, 1; Indiana, 1; Kentucky, 1; Louisiana, 1; Michigan, 2; Pennsylvania, 1; Wisconsin, 2.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

CENSUS OF MANUFACTURES: 1939

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Motorcycles, Bicycles, and Parts industry, all products, total value.....	\$43,052,278	\$36,044,287	\$23,894,805
Motorcycles, side cars, motorscooters, bicycles, and parts made in this industry.....	36,095,298	31,478,096	19,280,319
Miscellaneous products not specified.....	1,353,365	338,140	( <sup>1</sup> )
Receipts for contract and repair work.....	121,692	129,938	292,597
Other products (not classified in this industry).....	<sup>2</sup> 5,481,923	4,098,113	4,321,889
Motorcycles, side cars, motorscooters, bicycles, and parts, total value.....	38,917,282	39,827,356	21,198,249
Motorcycles, side cars, motorscooters, bicycles, and parts made in this industry.....	36,095,298	31,478,096	19,280,319
Motorcycles, side cars, motorscooters, bicycles, and parts made as secondary products in other industries.....	2,821,984	8,349,260	1,917,930

<sup>1</sup> Included in the figure for "Other products (not classified in this industry)."  
<sup>2</sup> Value of auto parts and accessories, chairs, invalid chairs, industrial trucks, children's wheel goods and toys, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Total value.....	\$38,917,282	\$39,827,356	\$21,198,249
Bicycles:			
Number.....	1,252,886	1,130,736	307,845
Value.....	\$22,466,550	\$22,223,431	\$6,183,773

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
Motorbikes.....	* \$561,004	( <sup>1</sup> )	( <sup>2</sup> )
Motorscooters:			
Number.....		5,896	( <sup>2</sup> )
Value.....	\$15,880,008	\$7,030,816	\$10,735,511
Motorcycles, side cars, and parts, value.....		\$10,090,701	\$4,278,065
Bicycle parts, value.....			

<sup>1</sup> Not called for separately for 1937. Data for the few reported for 1937 are included in the figures for bicycles.  
<sup>2</sup> Not called for in 1929.  
<sup>3</sup> Figures combined to avoid disclosing the output of individual establishments.

TABLE 5.—BICYCLES—PRODUCTION, BY NUMBER AND VALUE: 1899 TO 1939

YEAR	Number	Value	YEAR	Number	Value
1899.....	1,252,886	\$22,466,550	1923.....	480,177	\$10,720,900
1897.....	1,130,736	22,223,431	1921.....	<sup>3</sup> 216,404	<sup>3</sup> 6,218,591
1895.....	656,828	12,059,867	1919.....	479,163	<sup>3</sup> 12,498,000
1933.....	<sup>1</sup> 320,000	<sup>2</sup> 5,402,000	1914.....	398,899	5,361,280
1931.....	260,029	4,733,254	1909.....	233,707	3,228,189
1929.....	307,845	6,183,773	1904.....	250,487	3,740,923
1927.....	255,456	5,893,440	1899.....	1,182,091	23,656,487
1925.....	303,440	7,030,506			

<sup>1</sup> Estimated in part.  
<sup>2</sup> Estimated in small part.  
<sup>3</sup> Not including data for bicycles not reported separately, made by certain establishments engaged primarily in other lines of manufacture. The combined value of bicycles and parts made by these establishments amounted to \$170,464.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	6,973	4,347	5,196	5,869	6,515	6,591	6,954	7,298	7,505	8,327	8,713	8,594	7,700
1937.....	6,938	6,476	6,387	6,775	7,078	7,674	8,059	7,806	7,783	7,420	6,965	6,102	4,723
1929.....	4,392	4,295	4,364	4,521	4,551	4,588	4,446	4,285	4,267	4,360	4,398	4,377	4,241
Illinois.....	663	416	450	541	637	720	785	798	630	807	827	653	687
Massachusetts.....	1,072	730	813	894	964	966	947	999	1,001	1,168	1,258	1,565	1,408
New York.....	849	355	629	791	883	899	881	841	892	971	1,028	1,088	931
Ohio.....	2,737	1,490	1,891	2,167	2,494	2,493	2,729	3,016	3,156	3,545	3,708	3,352	2,802

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TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	36
Reporting expenditures for plant and equipment.....	31
Value of products:	
Total for the industry.....	\$43,052,278
Reporting expenditures for plant and equipment.....	41,400,390
Expenditures for plant and equipment:	
Total for the industry.....	1,057,598
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	95,703
Expenditures for new machinery and operating equipment.....	800,859
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	151,976

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$5,310,852	\$0,706,340
Finished products.....	1,136,478	1,201,813
Materials, supplies, etc.....	4,180,374	5,504,527
End of year, total.....	7,529,508	7,274,615
Finished products.....	1,351,540	1,357,161
Materials, supplies, etc.....	6,177,968	5,917,454
Value of products for the industry, total.....	43,052,278	36,044,287
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	43,016,201	36,030,287
Value for establishments not reporting inventories.....	30,077	14,000

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	36	21
Number of establishments reporting power equipment.....	36	21
Prime movers, aggregate:		
Number.....	6	10
Horsepower.....	1,835	2,315
Prime movers, driving generators, total:		
Number.....	2	10
Horsepower.....	1,100	2,315
Steam engines:		
Number.....		18
Horsepower.....		2,190
Diesel and semi-Diesel engines:		
Number.....	2	
Horsepower.....	1,100	
Hydroturbines and water wheels:		
Number.....		12
Horsepower.....		125
Prime movers not driving generators, total:		
Number.....	4	
Horsepower.....	735	
Steam engines:		
Number.....	3	(?)
Horsepower.....	700	
Internal-combustion engines, <sup>1</sup> other than Diesel and semi-Diesel:		
Number.....	1	
Horsepower.....	35	
Generators, kilowatt rating, total.....	750	980
Generators, driven by Diesel and semi-Diesel engines, kilowatt rating.....	750	(?)
Electric motors, total:		
Number.....	3,162	1,045
Horsepower.....	20,836	9,792
Driven by purchased energy:		
Number.....	3,035	983
Horsepower.....	19,212	8,809
Driven by energy generated in establishments reporting:		
Number.....	127	62
Horsepower.....	1,624	983
Electric energy (kilowatt-hours):		
Generated in plant.....	1,500,960	(?)
Purchased.....	19,916,660	9,815,740

<sup>1</sup> Includes data for prime movers not driving generators. <sup>2</sup> Not called for on schedule. <sup>3</sup> Gas, gasoline, etc. <sup>4</sup> Data not available.

## TRANSPORTATION EQUIPMENT NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued October 3, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of transportation equipment not elsewhere classified, such as horse-drawn vehicles (carriages, wagons, sleighs, and sleds) and parts, wheelbarrows, etc. The manu-

facture of children's vehicles is covered by the "Children's vehicles" industry. At the census for 1925, for the first time, manufacturers of wheelbarrows were classified in this industry. The statistics for 1923, however, were adjusted to include data for such establishments.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1923 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1939	41	1,252	\$1,149,973	\$3,123,709	\$6,268,610	\$3,144,901	2,860
1937	43	1,823	1,722,656	4,633,097	9,138,244	4,505,147	(5)
1935	45	1,592	1,283,825	3,683,170	6,845,109	3,161,939	(5)
1933	53	1,409	922,448	2,350,485	4,762,846	2,402,361	(5)
1931 <sup>7</sup>	70	1,821	1,199,450	2,494,072	5,160,000	2,666,018	(5)
1929	75	1,431	1,388,788	2,917,965	6,178,985	3,201,020	(5)
1927	88	2,873	3,417,993	8,458,294	16,440,879	7,991,585	7,332
1925	117	3,387	4,211,610	10,648,271	19,422,235	8,773,964	11,066
1923 <sup>8</sup>	152	4,833	5,791,729	12,859,793	24,934,814	12,075,021	13,190
1923 <sup>8</sup>	396	8,109	9,318,793	18,682,274	37,372,825	18,690,551	14,604

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

<sup>7</sup> Manufacturers of horse-drawn lunch wagons, classified in this industry prior to 1933, are now assigned to another industry. The *italic* figures for 1931 exclude data for 5 establishments which in that year were primarily engaged in the manufacture of horse-drawn lunch wagons and are comparable with the statistics for 1933 and subsequent years. The *man* type figures for 1931 include data for the 5 establishments mentioned above and are comparable with the statistics for earlier years.

<sup>8</sup> No comparable figures available for years prior to 1923.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	North Carolina	Ohio	Virginia	Other States <sup>1</sup>
Number of establishments <sup>2</sup>	41	3	3	3	32
Proprietors and firm members	20			4	16
Persons reported by manufacturing establishments, total <sup>3</sup>	1,543	182	98	80	1,174
Salaried officers of corporations <sup>3</sup>	51	9	4	4	34
Manufacturing:					
Salaried employees <sup>3</sup>	157	17	10	10	120
Wage earners (average for the year) <sup>4</sup>	1,252	146	77	69	960
Distribution	73	10	7	6	50
Construction	10				10
Other					
Salaries and wages, total <sup>5</sup>	\$1,725,327	\$151,651	\$113,246	\$101,533	\$1,358,897
Salaried officers <sup>3</sup>	159,223	18,800	11,180	12,605	116,578
Manufacturing:					
Salaries <sup>3</sup>	278,762	25,559	18,408	19,285	215,453
Wages	1,149,973	93,502	71,717	53,735	931,019
Distribution	131,369	13,793	11,881	15,848	89,847
Construction	4,000				4,000
Other	2,000				2,000
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	3,123,709	233,277	168,866	134,665	2,586,901
Materials and supplies	3,021,105	229,511	162,656	123,971	2,499,967
Fuel	50,755	200	4,466	2,070	44,019
Purchased electric energy	47,561	3,566	1,444	3,624	38,927
Contract work	4,288		300		3,988
Value of products	6,268,610	493,397	338,379	303,046	5,133,788
Value added by manufacture <sup>5</sup>	3,144,901	260,120	169,513	163,381	2,546,887

<sup>1</sup> Alabama, 1 establishment; Georgia, 1; Illinois, 2; Indiana, 4; Iowa, 5; Kentucky, 1; Louisiana, 2; Michigan, 1; Minnesota, 2; Mississippi, 2; New York, 1; Pennsylvania, 5; Tennessee, 3; Wisconsin, 2.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TRANSPORTATION EQUIPMENT NOT ELSEWHERE CLASSIFIED

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Transportation Equipment Not Elsewhere Classified industry, all products, total value.....	\$6,268,610	\$9,138,244
Horse-drawn wagons, carriages, sleighs, sleds; wheelbarrows, etc., made in this industry.....	4,117,448	6,713,730
Miscellaneous products not specified.....	902,532	540,134
Receipts for contract and repair work.....	161,518	209,764
Other products (not classified in this industry).....	1,087,112	1,674,616
Horse-drawn wagons, carriages, sleighs, sleds; wheelbarrows, etc., aggregate value.....	5,870,382	8,896,339
Horse-drawn wagons, carriages, sleighs, sleds; wheelbarrows, etc., made in this industry.....	4,117,448	6,713,730
Horse-drawn wagons, carriages, sleighs, sleds; wheelbarrows, etc., made as secondary products in other industries.....	1,258,884	2,182,009

<sup>1</sup> Value of agricultural implements and farm equipment, auto bodies, parts and accessories, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$6,376,332	\$8,896,339
Horse-drawn vehicles:		
Total number.....	53,996	109,539
Total value.....	\$2,560,825	\$5,771,681
Farm wagons—		
Number.....	30,720	57,560
Value.....	\$1,765,217	\$3,656,471
Farm trucks—		
Number.....	21,416	48,563
Value.....	\$622,055	\$1,849,146
Business vehicles, including mail carriers' wagons, and log and lumber wagons—		
Number.....	227	311
Value.....	\$30,186	\$80,448
Carrriages, buggies, and sulkies—		
Number.....	692	900
Value.....	\$84,191	\$110,400
Two-wheeled carts—		
Number.....	896	1,049
Value.....	\$49,287	\$44,911
Sleighs and bobsleds and horse-drawn vehicles not specified above, including those not reported as to kind—		
Number.....	145	1,156
Value.....	\$3,939	\$30,305
Wheelbarrows:		
Number.....	454,594	443,878
Value.....	\$1,974,024	\$1,916,028
Handcarts and pushcarts:		
Number.....	2,142	2,134
Value.....	\$39,863	\$32,733
Parts for horse-drawn vehicles, value.....	\$801,020	\$1,175,897

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,252	1,105	1,181	1,210	1,259	1,241	1,248	1,260	1,285	1,280	1,295	1,841	1,802
1937.....	1,823	1,880	1,905	1,893	2,028	1,973	1,945	1,995	1,994	1,865	1,600	1,450	1,379
Indiana.....	200	194	179	181	181	184	196	190	190	207	215	240	242
Iowa.....	30	24	22	24	27	26	31	34	37	44	41	32	24
North Carolina.....	146	147	147	154	150	130	130	131	151	161	163	146	145
Ohio.....	77	71	79	74	75	89	89	80	79	72	72	77	76
Pennsylvania.....	133	143	141	144	150	151	149	135	133	131	126	127	126
Tennessee.....	50	51	50	49	49	48	49	50	49	40	43	53	54
Virginia.....	60	34	69	71	71	72	72	74	74	76	75	70	67

## CENSUS OF MANUFACTURES: 1939

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	41
Reporting expenditures for plant and equipment.....	21
Value of products:	
Total for the industry.....	\$6,268,610
Reporting expenditures for plant and equipment.....	4,484,661
Expenditures for plant and equipment:	
Total for the industry.....	93,352
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	34,938
Expenditures for new machinery and operating equipment.....	46,811
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	10,003
Expenditures unclassified.....	1,600

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$2,973,537	\$2,448,304
Finished products.....	688,973	725,804
Materials, supplies, etc.....	2,284,564	1,722,500
End of year, total.....	2,749,147	3,088,058
Finished products.....	565,990	853,825
Materials, supplies, etc.....	2,183,157	2,235,133
Value of products for the industry, total.....	6,268,610	9,138,244
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	6,225,702	8,881,371
Value for establishments not reporting inventories.....	42,908	256,873

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939		1939
Number of establishments.....	41	Prime movers—Continued.	
Number of establishments reporting power equipment.....	40	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Diesel and semi-Diesel engines:	
Number.....	21	Number.....	2
Horsepower.....	2,860	Horsepower.....	35
Prime movers, driving generators, total:		Other internal-combustion engines <sup>2</sup> :	
Number.....	12	Number.....	2
Horsepower.....	2,335	Horsepower.....	80
Steam engines:		Generators, kilowatt rating, total.....	1,568
Number.....	10	Generators, driven by—	
Horsepower.....	2,145	Steam engines, kilowatt rating.....	1,436
Steam turbines:		Steam turbines, kilowatt rating.....	100
Number.....	1	Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel, kilowatt rating.....	22
Horsepower.....	155	Generators, ordinarily idle (included above), kilowatt rating.....	100
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel:		Electric motors, total:	
Number.....	1	Number.....	1,231
Horsepower.....	35	Horsepower.....	8,938
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	155	Driven by purchased energy—	
Prime movers not driving generators, total:		Number.....	795
Number.....	9	Horsepower.....	6,046
Horsepower.....	525	Driven by energy generated in establishments reporting:	
Steam engines:		Number.....	436
Number.....	5	Horsepower.....	2,893
Horsepower.....	410	Electric energy (kilowatt-hours):	
		Generated in plant.....	620,350
		Sold.....	135,580
		Purchased.....	1,082,256

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.

## Group 20.—MISCELLANEOUS INDUSTRIES

**The group as a whole.**—Some of the industries in this group cannot be properly classified in any of the other groups because of the varied character of materials used, and others because of the peculiar nature or uses of the products made. To a large extent the industries in Group 20 are those which use as their materials the products of certain industries in other groups. A few industries are included, however, which use strictly raw materials, such as bone and shell for making buttons

and fancy articles, broomcorn for brooms, and sand for foundry supplies.

Group 20 includes also a class of industries whose manufacturing operations consist principally in processes or treatments which prepare commodities for the trade or the market but produce little change in their character. These industries include "Feathers, plumes, and artificial flowers"; "Furs, dressed and dyed"; Hair work"; and "Wool pulling."

SUMMARY FOR GROUP 20.—MISCELLANEOUS INDUSTRIES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work.	Value of products	Value added by manufacture <sup>3</sup>	Horsepower of prime movers
1939	7,699	238,827	\$268,325,273	\$469,167,316	\$1,162,658,308	\$693,700,992	126,500
1937	6,311	239,802	260,462,100	442,906,930	1,077,672,584	634,665,664	(*)
SURGROUPS, INDUSTRIES, AND CENSUS YEAR		SUMMARY FOR SURGROUPS AND FOR INDIVIDUAL INDUSTRIES					
<b>PROFESSIONAL AND SCIENTIFIC INSTRUMENTS, PHOTOGRAPHIC APPARATUS, AND OPTICAL GOODS:</b>							
1939	499	88,324	\$53,080,265	\$75,500,317	\$244,616,963	\$169,026,046	82,326
1937	392	39,886	50,407,814	66,115,063	215,843,854	149,728,791	(*)
<b>Professional and scientific instruments (except surgical and dental)—</b>							
1939	218	9,420	13,708,826	17,711,101	61,017,302	43,306,201	3,194
1937	187	9,388	13,067,005	15,029,986	52,495,131	37,465,145	(*)
<b>Photographic apparatus and materials and projection equipment (except lenses)—</b>							
1939	160	17,271	25,286,669	42,556,269	133,899,429	91,343,160	40,030
1937	109	18,450	28,875,712	36,052,879	115,887,589	79,234,710	(*)
<b>Optical instruments and lenses—</b>							
1939	30	1,372	1,847,707	1,113,634	4,745,570	3,681,945	(*)
1937	17	1,092	1,497,507	969,802	3,940,750	2,970,750	(*)
<b>Ophthalmic goods: lenses and fittings—</b>							
1939	91	10,252	12,240,003	14,209,313	44,054,653	30,745,348	9,106
1937	79	10,906	12,967,500	13,462,396	43,520,384	30,067,988	(*)
<b>SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS, EQUIPMENT, AND SUPPLIES:</b>							
1939	543	14,330	15,351,571	55,874,020	118,997,269	63,123,243	4,045
1937	461	14,444	15,756,293	69,782,615	115,512,338	55,729,723	(*)
<b>Surgical and medical instruments—</b>							
1939	50	1,026	1,078,574	2,319,720	8,052,120	5,732,400	246
1937	39	1,447	1,862,748	2,034,939	7,564,063	5,530,024	(*)
<b>Surgical supplies and equipment not elsewhere classified; orthopedic appliances—</b>							
1939	360	8,468	8,547,650	40,296,593	79,398,442	39,101,849	2,679
1937	323	8,423	8,546,469	45,030,602	77,068,094	32,037,492	(*)
<b>Dental equipment and supplies—</b>							
1939	131	4,245	4,825,367	13,257,713	31,546,707	18,288,904	2,020
1937	101	4,574	5,347,076	12,717,074	30,879,281	18,162,207	(*)
<b>MUSICAL INSTRUMENTS AND PARTS:</b>							
1939	193	10,806	12,525,300	16,792,861	40,237,946	23,445,085	7,295
1937	187	11,971	14,088,699	17,161,361	43,265,354	20,103,993	(*)
<b>Pianos—</b>							
1939	35	5,311	6,123,348	10,124,236	20,493,110	10,368,874	5,450
1937	38	5,698	7,062,299	9,766,777	21,793,055	11,936,278	(*)
<b>Organs—</b>							
1939	34	989	1,054,067	1,296,665	3,420,893	2,124,198	190
1937	34	1,086	1,235,128	1,474,413	4,030,921	3,162,508	(*)
<b>Piano and organ parts and materials—</b>							
1939	23	1,315	1,430,642	1,927,298	4,771,563	2,844,265	1,655
1937	32	1,778	1,715,968	2,114,066	4,977,795	2,893,799	(*)
<b>Musical instruments, parts, and materials not elsewhere classified—</b>							
1939	101	3,191	3,817,243	3,444,632	11,552,380	8,107,748	(*)
1937	83	3,409	4,075,304	3,806,165	11,947,583	8,141,418	(*)
<b>TOYS AND SPORTING AND ATHLETIC GOODS:</b>							
1939	821	86,797	34,426,922	67,957,374	151,404,490	83,447,116	12,130
1937	625	34,686	32,703,420	62,467,624	133,519,497	71,051,873	(*)
<b>Games and toys (except dolls and children's vehicles)—</b>							
1939	343	15,610	12,656,729	24,909,824	55,400,894	30,491,070	3,798
1937	260	14,608	12,426,511	21,638,974	50,590,744	28,051,770	(*)
<b>Dolls (except rubber)—</b>							
1939	84	3,052	2,836,614	6,417,632	12,132,373	5,714,841	(*)
1937	74	2,682	2,319,292	6,313,535	11,199,030	4,885,495	(*)
<b>Children's vehicles—</b>							
1939	44	4,319	4,712,998	9,940,223	19,117,410	9,177,187	1,275
1937	54	5,218	5,415,438	9,959,800	19,655,463	9,695,663	(*)
<b>Sporting and athletic goods not elsewhere classified—</b>							
1939	360	13,816	14,220,581	26,689,795	64,753,813	38,064,018	7,057
1937	247	12,178	12,542,179	24,555,315	52,074,270	27,518,955	(*)

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1939

## SUMMARY FOR GROUP 20.—MISCELLANEOUS INDUSTRIES: 1939 AND 1937—Continued

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horsepower of prime movers
SURGROUPS, INDUSTRIES, AND CENSUS YEAR—continued							
SUMMARY FOR SURGROUPS AND FOR INDIVIDUAL INDUSTRIES—continued							
<b>PENS, PENCILS, STENCILS, AND ARTISTS' MATERIALS:</b>							
1939	499	12,591	\$12,974,497	\$31,359,150	\$76,399,367	\$45,040,217	10,733
1937	444	14,493	14,891,308	30,757,882	75,286,726	44,528,844	( <sup>4</sup> )
<b>Pens, mechanical pencils, and pen points—</b>							
1939	70	4,463	4,328,516	8,699,959	24,880,890	16,180,931	60
1937	55	5,703	5,356,037	9,288,283	25,970,013	10,731,730	( <sup>4</sup> )
<b>Pencils (except mechanical) and crayons—</b>							
1939	40	3,779	3,434,391	7,279,439	15,859,756	8,580,317	4,930
1937	33	4,416	4,212,099	8,012,554	18,288,013	10,275,459	( <sup>4</sup> )
<b>Hand stamps, stencils, and brands—</b>							
1939	289	2,211	2,015,029	3,204,488	10,811,835	7,007,397	287
1937	206	2,375	2,929,168	3,047,284	10,386,348	7,330,064	( <sup>4</sup> )
<b>Artists' materials—</b>							
1939	42	397	464,389	2,018,727	4,070,141	2,051,414	15
1937	40	372	402,006	1,281,514	2,782,730	1,501,216	( <sup>4</sup> )
<b>Carbon paper and inked ribbons—</b>							
1939	58	1,741	2,132,172	10,156,587	20,776,745	10,620,158	5,441
1937	50	1,627	1,991,398	9,178,247	17,859,022	8,681,375	( <sup>4</sup> )
<b>BUTTONS:</b>							
1939	316	10,972	8,622,711	12,478,849	29,817,188	17,343,839	3,601
1937	291	12,026	9,256,231	13,578,266	31,291,279	17,713,013	( <sup>4</sup> )
<b>COSTUME JEWELRY AND MISCELLANEOUS PRODUCTS:</b>							
1939	863	25,256	19,743,487	32,117,308	77,472,101	45,354,793	305
1937	702	23,988	19,181,961	28,093,694	67,071,045	38,977,351	( <sup>4</sup> )
<b>Costume jewelry and costume novelties (jewelry other than fine jewelry)—</b>							
1939	289	10,808	8,754,638	13,829,007	33,921,990	20,092,383	295
1937	240	10,165	9,338,685	11,673,020	29,928,507	18,255,547	( <sup>4</sup> )
<b>Jewelry cases and instrument cases—</b>							
1939	132	5,127	4,691,233	6,478,978	16,670,434	10,101,456	10
1937	91	4,788	3,692,251	4,859,613	12,202,471	7,342,858	( <sup>4</sup> )
<b>Lamp shades—</b>							
1939	128	2,671	1,715,155	4,384,442	8,376,706	3,991,264	( <sup>4</sup> )
1937	121	2,819	1,520,907	4,192,378	8,242,459	4,050,081	( <sup>4</sup> )
<b>Feathers, plumes, and artificial flowers—</b>							
1939	314	6,650	4,582,411	7,424,281	18,503,971	11,079,690	( <sup>4</sup> )
1937	250	6,210	4,390,058	7,308,033	16,697,548	9,328,865	( <sup>4</sup> )
<b>MISCELLANEOUS INDUSTRIES, NOT ELSEWHERE CLASSIFIED:</b>							
1939	3,987	89,742	101,591,520	177,002,931	424,012,984	247,010,053	25,105
1937	3,206	88,249	93,087,889	164,858,971	394,997,499	230,138,528	( <sup>4</sup> )
<b>Brooms—</b>							
1939	320	3,787	2,750,770	6,052,345	11,842,422	5,790,077	810
1937	289	4,007	2,905,512	6,301,160	11,627,743	5,326,583	( <sup>4</sup> )
<b>Brushes—</b>							
1939	245	7,801	7,988,074	25,255,279	48,466,060	23,211,087	3,252
1937	243	7,915	7,249,043	24,110,107	44,536,639	20,426,442	( <sup>4</sup> )
<b>Beauty-shop and barber-shop equipment—</b>							
1939	72	1,988	1,817,595	5,395,890	13,006,333	7,640,443	40
1937	73	2,548	2,479,069	5,333,740	13,571,422	8,237,070	( <sup>4</sup> )
<b>Furs, dressed and dyed—</b>							
1939	145	5,115	6,065,676	4,858,416	22,395,325	17,539,909	746
1937	121	6,343	8,335,170	6,448,032	21,702,887	15,314,255	( <sup>4</sup> )
<b>Signs, advertising displays, and advertising novelties—</b>							
1939	1,386	17,206	20,557,406	32,493,335	87,025,220	55,131,885	2,081
1937	1,001	16,042	19,181,363	27,763,884	75,722,835	47,968,951	( <sup>4</sup> )
<b>Fabricated plastic products, not elsewhere classified—</b>							
1939	216	15,094	17,088,104	31,747,085	71,904,067	40,150,982	9,170
1937	120	14,184	16,956,194	26,639,637	62,139,479	35,499,842	( <sup>4</sup> )
<b>Umbrellas, parasols, and canes—</b>							
1939	90	2,862	2,193,255	6,899,250	11,519,990	4,650,740	1,865
1937	81	3,088	2,572,398	8,041,556	13,237,264	5,195,738	( <sup>4</sup> )
<b>Tobacco pipes and cigarette holders—</b>							
1939	32	2,481	2,406,530	2,299,308	7,507,016	5,208,308	775
1937	25	2,382	2,412,522	2,522,685	7,647,105	5,124,420	( <sup>4</sup> )
<b>Soda fountains, beer dispensing equipment, and related products—</b>							
1939	51	1,590	2,389,452	5,968,179	13,659,820	7,691,641	950
1937	51	1,655	2,549,491	6,293,236	13,032,934	6,769,698	( <sup>4</sup> )
<b>Models and patterns (except paper patterns)—</b>							
1939	683	5,566	9,036,836	4,228,241	22,329,056	18,100,815	55
1937	594	5,728	9,762,172	4,142,274	22,289,402	18,147,128	( <sup>4</sup> )
<b>Hair work—</b>							
1939	42	322	280,723	788,996	1,401,105	662,100	( <sup>4</sup> )
1937	34	325	295,307	850,948	1,064,141	813,193	( <sup>4</sup> )
<b>Wool pulling—</b>							
1939	17	836	1,100,973	9,615,022	13,122,104	3,507,082	1,015
1937	19	794	1,064,130	12,685,033	16,659,978	3,955,945	( <sup>4</sup> )
<b>Needles, pins, hooks and eyes, and slide and snap fasteners—</b>							
1939	58	10,403	11,804,341	13,484,971	38,155,126	24,670,155	2,412
1937	52	9,580	10,154,453	10,290,575	36,239,681	25,949,006	( <sup>4</sup> )
<b>Fire extinguishers, chemical—</b>							
1939	28	995	1,273,055	4,704,634	9,228,416	4,523,782	45
1937	25	1,041	1,401,258	3,582,000	8,889,190	5,307,070	( <sup>4</sup> )
<b>Miscellaneous fabricated products not elsewhere classified—</b>							
1939	582	13,608	11,251,780	23,321,980	51,849,418	28,527,438	1,934
1937	469	12,557	10,769,007	19,888,818	45,985,899	26,102,581	( <sup>4</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>4</sup> This total is not the sum of the industry figures or the subgroup figures because of a change in the figures for the "Hair work" industry. The revision has not been carried to the group total or to the total for all groups for the United States.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> None reported.

<sup>7</sup> Revised; revision not carried to group total or to total for all groups for the United States.

MISCELLANEOUS INDUSTRIES

559

GENERAL STATISTICS IN DETAIL FOR THE GROUP, THE SUBGROUPS, AND FOR THE INDUSTRIES<sup>1</sup>: 1939

ITEM	Aggregate for the group	PROFESSIONAL AND SCIENTIFIC INSTRUMENTS, PHOTOGRAPHIC APPARATUS, AND OPTICAL GOODS					SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS, EQUIPMENT, AND SUPPLIES			
		Total	2011	2012	2013	2014	Total	2021	2022	2023
Number of establishments <sup>2</sup> .....	7,000	499	218	160	30	91	541	50	360	181
Proprietors and firm members.....	5,426	234	110	79	13	32	310	22	220	68
Persons reported by manufacturing industries, total <sup>3</sup> .....	303,132	53,627	13,866	24,497	1,767	13,497	21,069	2,232	13,120	5,708
Salaried officers of corporations <sup>3</sup> .....	6,771	623	262	181	32	148	521	80	293	148
Manufacturing:										
Salaried employees <sup>3</sup> .....	30,871	9,119	2,715	4,238	208	1,958	2,494	239	1,676	679
Wage earners (average for the year) <sup>4</sup> .....	238,827	38,824	9,429	17,271	1,372	10,252	14,339	1,626	8,468	4,245
Distribution.....	22,850	3,293	1,165	1,062	108	963	3,383	282	2,471	630
Construction.....	3,460	1,977	84	1,698	47	160	229	2	221	6
Other.....	305	286	211	50	-----	16	3	-----	-----	-----
Salaries and wages, total <sup>3</sup> .....	\$397,465,170	\$87,148,262	\$24,310,640	\$40,880,449	\$2,677,313	\$19,270,860	\$30,183,208	\$3,741,819	\$17,942,061	\$8,498,728
Salaried officers <sup>3</sup> .....	35,369,592	4,604,952	1,901,420	1,222,038	197,604	1,282,000	3,254,968	538,318	1,793,597	923,053
Manufacturing:										
Salaried officers.....	56,583,162	18,857,323	5,466,706	9,545,127	435,794	3,409,696	4,920,534	467,702	2,934,922	1,517,910
Wages.....	258,325,273	53,089,265	13,708,826	25,286,669	1,847,767	12,240,003	15,361,871	1,978,574	8,547,630	4,825,367
Distribution.....	40,984,185	6,653,252	2,616,775	1,812,046	149,894	2,074,637	6,398,284	722,200	4,456,509	1,220,485
Construction.....	5,546,077	3,345,787	191,959	2,860,829	40,254	237,745	224,497	1,671	210,913	11,913
Other.....	656,881	597,683	433,054	143,840	-----	19,889	33,354	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	469,167,316	75,590,317	17,711,101	42,566,269	1,113,634	14,209,313	55,874,026	2,310,720	40,296,593	13,257,713
Materials, supplies, and containers.....	448,817,683	71,091,038	15,983,720	40,528,150	1,004,291	13,574,877	54,762,302	2,228,296	30,568,465	12,965,541
Fuel.....	6,131,022	1,421,422	107,323	1,083,122	30,500	340,477	430,194	24,579	271,188	134,427
Purchased electric energy.....	7,781,616	1,308,688	308,245	684,075	37,049	278,719	574,484	51,591	392,526	180,367
Contract work.....	6,430,995	1,569,169	1,251,813	260,022	41,194	15,240	107,046	15,264	64,414	27,378
Value of products.....	1,162,958,308	244,616,963	61,017,302	133,899,429	4,745,579	44,954,653	118,997,269	8,052,120	79,398,442	31,546,707
Value added by manufacture <sup>5</sup> .....	693,790,992	169,028,646	43,309,291	91,343,160	3,631,945	30,745,340	63,123,243	5,732,400	39,101,849	18,288,994

ITEM	MUSICAL INSTRUMENTS AND PARTS					TOYS AND SPORTING AND ATHLETIC GOODS				
	Total	2031	2032	2033	2039	Total	2041	2042	2043	2049
Number of establishments <sup>2</sup> .....	193	35	34	23	101	821	343	84	44	350
Proprietors and firm members.....	85	4	15	2	64	510	217	53	10	230
Persons reported by manufacturing industries, total <sup>3</sup> .....	12,843	5,987	1,251	1,601	4,104	43,307	18,251	3,471	4,052	16,633
Salaried officers of corporations <sup>3</sup> .....	254	48	51	38	117	833	340	92	77	324
Manufacturing:										
Salaried employees <sup>3</sup> .....	1,051	464	88	98	401	3,427	1,402	197	371	1,457
Wage earners (average for the year) <sup>4</sup> .....	10,806	5,311	959	1,315	3,191	36,797	15,610	3,052	4,319	13,316
Distribution.....	696	158	123	45	370	2,125	871	124	175	955
Construction.....	36	6	-----	5	25	125	28	6	10	81
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Salaries and wages, total <sup>3</sup> .....	\$16,824,268	\$7,613,404	\$1,555,936	\$1,944,840	\$5,710,088	\$48,007,536	\$18,268,523	\$3,754,215	\$6,171,659	\$19,813,189
Salaried officers <sup>3</sup> .....	1,150,830	243,302	155,282	213,138	539,108	4,371,480	1,009,638	389,873	505,463	1,666,500
Manufacturing:										
Salaried officers.....	1,857,866	897,950	146,185	243,737	590,004	5,401,834	2,176,959	287,088	604,296	2,333,491
Wages.....	12,525,300	6,123,343	1,054,067	1,439,642	3,817,243	34,426,922	12,656,729	2,836,614	4,712,098	14,220,581
Distribution.....	1,238,593	367,500	200,402	48,362	622,320	3,669,115	1,486,561	232,076	333,822	1,613,056
Construction.....	51,679	11,304	-----	8,901	31,414	141,235	38,650	7,904	15,080	79,555
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	16,792,801	10,124,236	1,296,695	1,927,298	3,444,632	67,957,374	24,900,824	6,417,532	9,040,223	20,680,795
Materials, supplies, and containers.....	16,081,373	9,815,904	1,217,345	1,829,883	3,218,241	65,680,109	24,196,954	6,153,186	9,637,513	25,092,450
Fuel.....	363,031	213,142	30,189	56,269	63,371	721,278	280,537	56,683	77,936	309,122
Purchased electric energy.....	269,679	94,651	20,084	40,261	105,653	1,091,370	365,202	97,904	120,215	607,959
Contract work.....	78,808	530	20,077	825	57,367	464,617	67,131	109,669	104,559	183,258
Value of products.....	40,237,946	20,493,110	3,420,893	4,771,563	11,552,380	151,404,490	55,400,894	12,132,373	19,117,410	64,753,813
Value added by manufacture <sup>5</sup> .....	23,445,085	10,368,874	2,124,193	2,844,265	8,107,748	83,447,116	30,491,070	5,714,841	9,177,187	38,064,018

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1939

GENERAL STATISTICS IN DETAIL FOR THE GROUP, THE SUBGROUPS, AND FOR THE INDUSTRIES<sup>1</sup>: 1939—Con.

ITEM	PENS, PENCILS, STENCILS, AND ARTISTS' MATERIALS					BUTTONS	COSTUME JEWELRY AND MISCELLANEOUS PRODUCTS			
	Total	2051	2052	2053	2054		2055	2061	Total	2071
Number of establishments <sup>2</sup> .....	499	70	40	280	42	58	316	863	280	132
Proprietors and firm members.....	324	30	12	217	29	27	265	732	242	105
Persons reported by manufacturing industries, total <sup>3</sup> .....	18,261	6,323	4,977	3,333	614	3,014	12,418	29,583	12,682	6,073
Salaried officers of corporations <sup>3</sup> .....	484	86	81	217	31	60	229	623	234	98
Manufacturing:										
Salaried employees <sup>3</sup> .....	1,789	512	469	331	106	371	729	1,962	993	480
Wage earners (average for the year) <sup>4</sup> .....	12,501	4,463	3,779	2,211	397	1,741	10,972	25,256	10,808	5,127
Distribution.....	3,312	1,250	602	568	80	812	442	1,624	596	310
Construction.....	85	12	46	6		21	46	118	51	58
Other.....										
Salaries and wages, total <sup>5</sup> .....	\$24,465,784	\$7,859,711	\$6,027,950	\$4,696,867	\$910,800	\$4,970,456	\$11,764,496	\$28,701,203	\$12,612,943	\$7,152,209
Salaried officers <sup>5</sup> .....	2,881,815	751,688	541,431	832,881	141,807	614,008	1,020,223	3,033,027	1,264,308	681,217
Manufacturing:										
Salaries <sup>5</sup> .....	3,161,443	820,678	907,525	507,949	179,818	745,473	1,208,278	2,886,617	1,422,001	864,727
Wages.....	12,974,497	4,328,516	3,434,391	2,615,029	464,389	2,132,172	8,622,711	10,743,487	8,754,638	4,691,283
Distribution.....	5,307,090	1,938,611	1,070,242	731,183	124,786	1,442,268	764,909	2,950,569	1,097,686	853,508
Construction.....	140,939	20,218	74,361	9,825		36,535	88,375	147,513	73,710	61,564
Other.....										
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	31,350,150	8,699,959	7,279,439	3,204,438	2,018,727	10,156,587	12,473,340	32,117,308	13,829,607	6,478,078
Materials, supplies, and containers.....	30,148,329	8,430,115	6,800,091	3,003,748	1,936,320	9,978,055	11,407,301	31,132,594	13,335,066	6,243,778
Fuel.....	398,239	56,671	182,886	54,119	23,333	81,226	193,113	178,077	75,136	50,253
Purchased electric energy.....	463,632	110,119	110,143	88,134	58,030	97,206	404,675	441,959	183,007	127,285
Contract work.....	348,950	103,054	186,320	58,437	1,039	100	468,260	364,678	236,398	57,692
Other.....										
Value of products.....	76,399,367	24,880,890	15,859,756	10,811,835	4,070,141	20,776,745	29,817,188	77,472,101	33,921,990	16,670,434
Value added by manufacture <sup>6</sup> .....	45,040,217	16,180,931	8,580,317	7,607,397	2,051,414	10,620,158	17,343,839	45,354,793	20,092,383	10,191,456

ITEM	COSTUME JEWELRY AND MISCELLANEOUS PRODUCTS—continued		MISCELLANEOUS INDUSTRIES NOT ELSEWHERE CLASSIFIED						
	2073	2074	Total	2081	2082	2083	2084	2085	2086
Number of establishments <sup>2</sup> .....	128	314	3,967	320	245	72	145	1,386	216
Proprietors and firm members.....	101	283	2,966	350	146	23	91	1,028	71
Persons reported by manufacturing industries, total <sup>3</sup> .....	3,105	7,723	112,024	4,377	10,029	2,814	6,015	23,370	17,953
Salaried officers of corporations <sup>3</sup> .....	83	203	3,204	112	253	90	235	1,023	293
Manufacturing:									
Salaried employees <sup>3</sup> .....	162	327	10,200	232	1,004	321	315	2,246	1,788
Wage earners (average for the year) <sup>4</sup> .....	2,671	6,650	89,742	3,787	7,891	1,986	5,115	17,206	15,094
Distribution.....	179	539	8,009	246	812	408	325	2,824	610
Construction.....	5	4	853		69		25	68	104
Other.....			16					3	4
Salaries and wages, total <sup>5</sup> .....	\$2,474,304	\$6,521,657	\$150,310,363	\$3,626,692	\$12,524,287	\$3,592,679	\$11,900,107	\$33,674,925	\$24,289,146
Salaried officers <sup>5</sup> .....	322,633	764,869	15,052,297	283,000	1,220,828	598,239	1,250,900	4,577,951	1,441,150
Manufacturing:									
Salaries <sup>5</sup> .....	207,401	391,888	18,229,267	253,255	1,782,006	565,433	902,129	3,575,756	3,495,667
Wages.....	1,715,155	4,582,411	101,591,520	2,756,770	7,988,974	1,817,595	9,065,676	20,557,404	17,688,104
Distribution.....	221,056	778,309	14,005,353	333,667	1,448,834	611,412	702,650	4,889,216	1,390,052
Construction.....	8,059	4,180	1,406,052		83,645		36,812	70,635	260,354
Other.....			25,844					3,963	13,819
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	4,384,442	7,424,281	177,002,031	6,052,345	25,255,270	5,365,890	4,858,416	32,403,335	31,747,085
Materials, supplies, and containers.....	4,315,008	7,238,742	168,514,637	5,930,852	24,770,144	5,216,553	4,401,439	29,824,728	29,881,056
Fuel.....	7,881	44,807	2,225,698	40,788	157,652	15,403	102,191	401,100	781,006
Purchased electric energy.....	33,888	97,779	3,227,129	77,577	224,391	65,690	249,901	629,868	840,562
Contract work.....	27,665	42,953	3,035,407	3,128	103,092	68,244	104,885	1,637,630	244,461
Other.....									
Value of products.....	8,375,700	18,503,971	424,012,984	11,842,422	48,466,966	13,006,333	22,395,325	87,625,220	71,904,067
Value added by manufacture <sup>6</sup> .....	3,991,264	11,079,690	247,010,053	5,790,077	23,211,687	7,640,443	17,536,909	55,131,885	40,156,982

See footnotes at end of table.

MISCELLANEOUS INDUSTRIES

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GENERAL STATISTICS IN DETAIL FOR THE GROUP, THE SUBGROUPS, AND FOR THE INDUSTRIES<sup>1</sup>: 1939—Con.

ITEM	MISCELLANEOUS INDUSTRIES NOT ELSEWHERE CLASSIFIED—continued								
	2087	2088	2091	2092	2093	2094	2095	2096	2099
Number of establishments <sup>2</sup> .....	90	32	51	683	42	17	58	28	582
Proprietors and firm members.....	79	13	18	667	36	11	12	0	403
Persons reported by manufacturing industries, total <sup>3</sup> .....	3,236	2,814	2,027	6,638	393	910	13,537	1,452	16,459
Salaried officers of corporations <sup>3</sup> .....	78	46	52	366	25	23	86	27	486
Manufacturing:									
Salaried employees <sup>3</sup> .....	184	127	270	443	22	46	1,632	284	1,286
Wage earners (average for the year) <sup>4</sup> .....	2,862	2,481	1,590	5,566	322	836	10,403	995	13,608
Distribution.....	112	194	114	257	24	2	922	146	1,053
Construction.....		6	1	6		3	494		17
Other.....									9
Salaries and wages, total <sup>3</sup> .....	\$3,055,376	\$3,156,379	\$3,367,841	\$11,857,209	\$418,532	\$1,373,074	\$18,183,881	\$2,256,757	\$16,973,418
Salaried officers <sup>3</sup> .....	357,994	281,973	195,099	1,510,007	100,403	150,122	898,431	136,893	2,049,307
Manufacturing:									
Salaries <sup>3</sup> .....	311,501	215,103	599,904	840,229	28,124	113,744	2,897,591	505,381	2,083,446
Wages.....	2,193,255	2,406,530	2,389,452	9,036,886	260,723	1,100,973	11,804,341	1,273,055	11,251,730
Distribution.....	192,626	243,754	182,355	462,326	20,232	3,835	1,702,033	256,423	1,550,312
Construction.....		9,019	1,030	7,761		4,400	880,885	25,000	24,511
Other.....									8,062
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	6,869,250	2,209,308	5,968,179	4,228,241	738,900	9,615,022	13,484,971	4,704,634	23,321,980
Materials, supplies, and containers.....	6,095,882	2,158,223	5,808,320	3,831,346	719,213	9,508,024	12,751,117	4,613,997	22,402,843
Fuel.....	59,482	21,746	58,651	100,242	3,086	59,045	181,063	32,474	211,170
Purchased electric energy.....	45,000	72,448	54,343	222,966	5,720	35,381	270,952	51,769	380,471
Contract work.....	68,796	46,891	46,865	73,687	10,978	11,072	281,239	6,394	327,400
Value of products.....	11,519,990	7,507,616	13,650,820	22,329,056	1,401,105	13,122,104	38,155,126	9,228,416	51,849,418
Value added by manufacture <sup>5</sup> .....	4,650,740	5,208,398	7,691,041	18,100,815	682,109	3,507,082	24,670,155	4,523,782	28,527,438

<sup>1</sup> The number at the head of each column represents an industry as follows:

- |  |  |  |
|--|--|--|
| 2011. Professional and scientific instruments (except surgical and dental).            | 2042. Dolls (except rubber).   | 2084. Furs, dressed and dyed.  |
| 2012. Photographic apparatus and materials and projection equipment (except lenses).   | 2043. Children's vehicles.   | 2085. Signs, advertising displays, and advertising novelties.          |
| 2013. Optical instruments and lenses.  | 2049. Sporting and athletic goods not elsewhere classified.                    | 2086. Fabricated plastic products, not elsewhere classified.           |
| 2014. Ophthalmic goods: lenses and fittings.   | 2051. Pens, mechanical pencils, and pen points.                                | 2087. Umbrellas, parasols, and canes.                                  |
| 2021. Surgical and medical instruments.  | 2052. Pencils (except mechanical) and crayons.                                 | 2088. Tobacco pipes and cigarette holders.                             |
| 2022. Surgical supplies and equipment not elsewhere classified; orthopedic appliances. | 2053. Hand stamps, stencils, and brands.                                       | 2091. Soda fountains, beer dispensing equipment, and related products. |
| 2023. Dental equipment and supplies.   | 2054. Artists' materials.  | 2092. Models and patterns (except paper patterns).                     |
| 2031. Pianos.  | 2055. Carbon paper and inked ribbons.  | 2093. Hair work.   |
| 2032. Organs.  | 2061. Buttons.   | 2094. Wool pulling.  |
| 2033. Piano and organ parts and materials.   | 2071. Costume jewelry and costume novelties (jewelry other than fine jewelry). | 2095. Needles, pins, hooks and eyes, and slide and snap fasteners.     |
| 2039. Musical instruments, parts, and materials not elsewhere classified.              | 2072. Jewelry cases and instrument cases.                                      | 2096. Fire extinguishers, chemical.                                    |
| 2041. Games and toys (except dolls and children's vehicles).                           | 2073. Lamp shades.   | 2099. Miscellaneous fabricated products not elsewhere classified.      |
|  | 2074. Feathers, plumes, and artificial flowers.                                |  |
|  | 2081. Brooms.  |  |
|  | 2082. Brushes.   |  |
|  | 2083. Beauty-shop and barber-shop equipment.                                   |  |

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

# PROFESSIONAL AND SCIENTIFIC INSTRUMENTS (EXCEPT SURGICAL AND DENTAL)

[A preliminary report for this industry was issued October 5, 1940]

**Description of the industry.**—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of professional and scientific instruments, such as surveyors', nautical, and aeronautical; barometers; thermometers; compasses; and instruments for laboratory work and scientific research.

**Detailed statistics of products.**—Since the products of the "Surgical and medical instruments" industry are the same class of products as the "Professional and scientific instruments (except surgical and dental)" industry the production of the two industries are shown in tables 3 and 4 of this report. (All other

figures for the "Surgical and medical instruments" industry are shown in tables for that report.)

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	218	9,429	\$13,708,826	\$17,711,101	\$61,017,302	\$43,306,201	3,194
1937 <sup>4</sup> .....	187	9,388	13,067,005	16,029,986	52,495,131	37,465,145	(9)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> No comparable figures for earlier years. <sup>5</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Massachusetts	Michigan	Missouri	New York	Ohio	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	218	21	23	14	5	8	73	9	28	37
Proprietors and firm members.....	110	14	5	2	3	3	50	2	17	14
Persons reported by manufacturing establishments, total <sup>3</sup> .....	13,866	253	1,002	318	53	119	6,340	484	2,056	2,734
Salaried officers of corporations <sup>4</sup> .....	262	10	38	19	2	8	84	20	43	38
Manufacturing:										
Salaried employees <sup>4</sup> .....	2,715	39	128	41	14	9	1,491	32	525	436
Wage earners (average for the year) <sup>4</sup> .....	9,429	175	742	241	31	98	4,006	379	1,160	1,996
Distribution.....	1,165	27	92	17	6	4	442	53	313	211
Construction.....	84	2	2				64		15	1
Other.....	211						159			52
Salaries and wages, total <sup>5</sup> .....	\$24,319,640	\$452,351	\$1,534,904	\$474,614	\$70,000	\$130,870	\$12,929,428	\$626,022	\$3,701,820	\$4,399,472
Salaried officers <sup>3</sup> .....	1,901,420	75,038	202,411	90,376	6,500	17,400	904,408	100,063	267,465	236,514
Manufacturing:										
Salaries <sup>3</sup> .....	5,466,706	75,014	245,490	75,660	15,013	14,570	3,218,084	63,848	1,008,011	750,086
Wages.....	13,708,826	244,125	950,623	280,268	35,332	93,784	7,282,429	340,823	1,675,960	2,799,479
Distribution.....	2,616,775	51,994	127,569	28,280	13,245	5,125	1,086,267	114,038	722,641	466,966
Construction.....	191,059	4,630	8,868				148,682		27,743	2,036
Other.....	433,954						289,563			144,391
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	17,711,101	388,232	1,299,524	350,805	89,860	138,741	8,604,206	524,001	3,154,282	3,161,450
Materials, supplies, and containers.....	15,933,720	376,692	1,251,201	337,710	75,522	134,334	7,276,668	508,602	2,993,146	3,029,845
Fuel.....	167,323	1,373	14,241	2,900	600	1,358	82,715	4,670	17,403	42,063
Purchased electric energy.....	308,245	5,502	28,962	7,753	1,163	2,806	148,258	10,729	44,659	58,413
Contract work.....	1,251,813	4,665	5,120	2,442	12,575	243	1,096,565		99,074	31,129
Value of products.....	61,017,302	1,040,689	3,874,096	1,074,956	276,328	376,906	32,426,806	1,531,999	9,794,991	10,620,531
Value added by manufacture <sup>6</sup> .....	43,306,201	652,457	2,574,572	724,151	186,468	238,165	23,822,600	1,007,998	6,040,709	7,459,031

<sup>1</sup> Colorado, 2 establishments; Connecticut, 4; District of Columbia, 2; Georgia, 1; Maryland, 4; Minnesota, 1; New Jersey, 16; Oklahoma, 1; Oregon, 1; Rhode Island, 2; Texas, 2; Washington, 1; Wisconsin, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

[This table includes data for the "Surgical and medical instruments" industry because of an overlapping of products]

	1939	1937
"Professional and scientific instruments (except surgical and dental)" and "Surgical and medical instruments" industries, all products, total value.....	\$69,069,422	\$60,000,094
Professional and Scientific Instruments (Except Surgical and Dental) industry.....	61,017,302	52,405,131
Surgical and Medical Instruments industry.....	8,052,120	7,594,963
Professional and scientific instruments (except surgical and dental) and surgical and medical instruments made in these industries.....	56,437,709	43,805,849
Miscellaneous products not specified.....	5,459,255	6,729,051
Receipts for contract and repair work.....	1,299,437	1,306,658
Other products (not classified in these industries).....	1,587,321	8,127,636
Professional and scientific instruments (except surgical and dental) and surgical and medical instruments, total value.....	59,299,411	49,244,946
Professional and scientific instruments (except surgical and dental) and surgical and medical instruments made in these two industries.....	56,437,709	43,805,849
Professional and scientific instruments (except surgical and dental) and surgical and medical instruments made as secondary products in other industries.....	2,861,702	5,439,097

<sup>1</sup> Value of bandages, gauges, measuring tapes, optical measuring instruments, valves, flow meters, vacuum pumps, electrical furnaces, combustion-control apparatus, etc.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

[This table includes production data for "Surgical and medical instruments" because of an overlapping of products]

PRODUCT	1939	1937
Total value.....	\$59,299,411	\$49,244,946
Drawing instruments.....	621,216	555,123
Nautical and navigational instruments (binnacles, compasses, aircraft instruments, etc.).....	20,719,591	8,894,140
Surveyors' instruments.....	1,625,878	1,894,798
Barometers.....	242,176	( <sup>1</sup> )
Gas-analysis equipment.....	788,258	733,323
Hydrometers.....	540,689	820,236
Pyrometers.....	4,626,682	5,482,200
Thermometers, total.....	6,064,547	7,607,684
Household.....	1,430,712	( <sup>2</sup> )
Industrial.....	3,658,766	
Clinical.....	1,575,069	
Laboratory instruments and apparatus not specified above, total.....	3,841,016	4,798,704
Electrical.....	1,816,535	2,279,823
Other.....	2,025,381	2,518,941
Surgical instruments and parts.....	7,185,139	5,830,430
Other professional, scientific, surgical, and medical instruments <sup>3</sup> .....	12,443,319	12,027,648

<sup>1</sup> Included in figures for "Other professional, scientific, surgical, and medical instruments" to avoid disclosing, exactly or approximately, data reported by individual establishments.

<sup>2</sup> Not called for separately.

<sup>3</sup> Includes figures for mathematical instruments and tachometers to avoid disclosing data reported by individual establishments.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	9,429	8,268	8,388	8,581	8,871	9,001	9,283	9,416	9,500	9,700	10,152	10,687	11,100
1937.....	9,388	8,776	8,979	9,191	9,346	9,495	9,598	9,708	9,521	9,538	9,547	9,471	9,489
California.....	175	163	163	175	179	173	171	172	169	174	173	174	194
Connecticut.....	416	391	398	406	405	397	398	404	412	400	433	431	470
Illinois.....	742	709	690	708	708	703	718	727	747	759	805	802	811
Maryland.....	238	205	190	192	195	204	230	243	253	276	288	292	279
Massachusetts.....	241	230	232	235	234	241	248	245	236	233	243	255	264
Michigan.....	31	17	18	19	21	22	20	23	33	55	40	48	48
Missouri.....	98	87	89	100	105	90	84	86	101	100	104	111	115
New Jersey.....	1,128	953	952	1,010	1,098	1,138	1,182	1,184	1,195	1,188	1,163	1,232	1,250
New York.....	4,606	3,856	3,956	4,036	4,225	4,427	4,561	4,623	4,620	4,803	5,060	5,384	5,728
Ohio.....	379	365	382	390	367	351	334	340	357	395	412	418	433
Pennsylvania.....	1,160	1,009	1,083	1,091	1,121	1,133	1,142	1,157	1,172	1,188	1,206	1,269	1,289

## CENSUS OF MANUFACTURES: 1939

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	218
Reporting expenditures for plant and equipment.....	134
Value of products:	
Total for the industry.....	\$81,017,302
Reporting expenditures for plant and equipment.....	55,348,821
Expenditures for plant and equipment:	
Total for the industry.....	1,858,327
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	178,117
Expenditures for new machinery and operating equipment.....	1,587,249
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	88,539
Expenditures unclassified.....	4,422

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$17,085,645	\$14,144,163
Finished products.....	5,951,633	5,695,416
Materials, supplies, etc.....	11,143,962	8,448,747
End of year, total.....	19,606,193	18,393,313
Finished products.....	5,867,655	6,989,399
Materials, supplies, etc.....	13,823,538	11,403,914
Value of products for the industry, total.....	61,017,302	52,405,131
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	58,271,802	51,047,477
Value for establishments not reporting inventories.....	2,745,500	1,447,654

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939		1939
Number of establishments.....	218	Prime movers—Continued	
Number of establishments reporting power equipment.....	217	Prime movers not driving generators—Continued	
Prime movers, aggregate:		Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—	
Number.....	10	Number.....	1
Horsepower.....	3,194	Horsepower.....	9
Prime movers, driving generators, total—		Generators, kilowatt rating, total.....	1,905
Number.....	8	Generators, driven by—	
Horsepower.....	3,135	Steam engines, kilowatt rating.....	600
Steam engines—		Steam turbines, kilowatt rating.....	1,300
Number.....	4	Internal-combustion engines, <sup>2</sup> other than Diesel and semi-	
Horsepower.....	825	Diesel, kilowatt rating.....	5
Steam turbines—		Generators, ordinarily idle (included above), kilowatt rating.....	1,300
Number.....	3	Electric motors, total:	
Horsepower.....	2,300	Number.....	10,190
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—		Horsepower.....	19,526
Number.....	1	Driven by purchased energy—	
Horsepower.....	10	Number.....	8,542
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2,300	Horsepower.....	16,794
Prime movers not driving generators, total—		Driven by energy generated in establishments reporting—	
Number.....	3	Number.....	1,643
Horsepower.....	59	Horsepower.....	2,732
Steam engines—		Electric energy (kilowatt-hours):	
Number.....	1	Generated in plant.....	1,300,890
Horsepower.....	50	Sold.....	8,300
Prime movers not driving generators, total—		Purchased.....	14,850,146
Number.....	3		
Horsepower.....	59		

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.

# PHOTOGRAPHIC APPARATUS AND MATERIALS AND PROJECTION EQUIPMENT (EXCEPT LENSES)

[A preliminary report for this industry was issued December 13, 1940]

**Description of the industry.**—This industry embraces establishments engaged primarily in the manufacture of photographic and motion-picture cameras and projection apparatus, and associated materials and supplies such as films, sensitized paper and plates, reels, tanks, tripods, etc. The production of lenses is classified in the "Optical instruments and lenses" industry or in the "Ophthalmic goods: lenses and fittings" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1939	160	17,271	\$25,286,669	\$42,556,269	\$133,899,429	\$61,343,160	49,936
1937	109	18,460	28,875,712	36,652,879	116,887,539	79,234,710	(5)
1935	118	12,000	15,807,322	20,149,921	78,906,269	47,816,638	(6)
1933	84	8,975	10,154,891	11,084,799	53,859,955	41,876,166	(5)
1931	110	10,609	13,082,078	20,867,793	79,506,499	58,638,706	(5)
1929	115	12,967	20,867,499	30,392,531	102,827,386	72,434,855	20,115
1927	122	12,120	18,310,992	29,020,235	90,827,737	61,807,602	14,856
1925	118	9,154	13,300,250	25,779,218	78,663,651	52,874,433	14,167
1923	111	9,905	13,224,381	19,253,149	71,828,028	62,574,879	(5)
1921	136	10,690	13,771,145	22,835,741	70,595,344	47,769,693	(4)
1919	187	13,465	14,900,237	33,806,708	88,393,022	54,586,314	12,395
1914	140	8,674	5,645,304	11,530,381	39,041,529	27,502,145	13,236
1909	103	5,195	3,037,077	6,707,632	22,561,341	15,853,700	8,215
1904	130	3,812	1,790,215	4,101,530	13,023,297	8,861,787	4,343
1899	153	3,444	1,442,848	3,378,210	7,799,388	4,421,178	3,030

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Valued added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Missouri	Ohio	Pennsylvania	Wisconsin	Other States <sup>1</sup>
Number of establishments <sup>2</sup>	160	24	33	6	6	9	3	70
Proprietors and firm members	79	23	19	—	3	9	1	24
Persons reported by manufacturing establishments, total <sup>3</sup>	24,497	263	2,311	271	85	266	15	21,286
Salaried officers of corporations <sup>3</sup>	181	8	43	10	3	6	1	110
Manufacturing:								
Salaried employees <sup>3</sup>	4,238	37	267	39	12	42	3	3,838
Wage earners (average for the year) <sup>4</sup>	17,271	194	1,483	170	62	151	8	15,203
Distribution	1,062	24	518	42	8	67	3	400
Construction	1,686	—	—	10	—	—	—	1,676
Other	69	—	—	—	—	—	—	59
Salaries and wages, total <sup>3</sup>	\$40,880,449	\$408,897	\$3,617,809	\$401,087	\$120,563	\$383,712	\$18,927	\$35,028,554
Salaried officers <sup>3</sup>	1,222,988	39,550	275,440	57,581	12,818	26,100	7,500	803,943
Manufacturing:								
Salaries <sup>3</sup>	9,545,127	75,531	536,650	67,673	23,724	63,252	1,454	8,776,843
Wages	25,286,669	259,836	1,983,796	183,113	62,615	170,527	7,330	22,619,452
Distribution	1,812,046	33,974	821,923	81,077	21,406	123,833	2,043	726,290
Construction	2,869,829	—	—	11,643	—	—	—	2,858,186
Other	143,840	—	—	—	—	—	—	143,840
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	42,556,269	478,612	5,156,625	609,961	143,853	423,510	13,419	35,730,289
Materials, supplies, and containers	40,528,150	462,566	4,951,733	578,838	131,082	411,230	12,373	33,979,428
Fuel	1,083,122	860	24,152	10,534	5,770	3,202	504	1,032,044
Purchased electric energy	684,075	10,288	55,343	14,539	6,095	9,078	542	588,190
Contract work	260,922	4,898	128,397	—	—	—	—	130,627
Value of products	133,899,429	1,232,973	11,140,834	1,336,519	338,919	1,070,000	26,015	118,695,079
Value added by manufacture <sup>4</sup>	61,343,160	804,361	5,984,209	726,558	195,066	655,580	12,506	52,964,790

<sup>1</sup> Connecticut, 3 establishments; Indiana, 1; Iowa, 2; Kansas, 1; Louisiana, 1; Massachusetts, 3; Michigan, 6; Minnesota, 1; New Jersey, 4; New York, 56; Washington, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

## CENSUS OF MANUFACTURES: 1939

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
"Photographic Apparatus and Materials and Projection Equipment (Except Lenses)" Industry, all products, total value.....	\$133,899,429	\$115,887,588
Photographic apparatus and materials and projection equipment.....	125,474,163	110,747,460
Miscellaneous products not specified.....	551,031	4,576,712
Other products (not classified in this industry).....	† 7,483,689	563,416
Receipts for contract and repair work.....	390,546	
Photographic apparatus and materials and projection equipment, total value.....	126,512,988	112,513,073
Photographic apparatus and materials and projection equipment made in this industry.....	125,474,163	110,747,460
Photographic apparatus and materials and projection equipment made as secondary products in other industries.....	1,038,825	1,765,613

† Value of chemicals, photographic lenses, wooden toys, steel toys, and motion-picture screens.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$126,512,988	\$112,513,073
Cameras:		
Motion-picture.....	\$4,606,851	\$12,409,961
Other than motion-picture.....	\$12,739,411	
Projectors, total value.....	\$8,413,872	\$7,154,825
Motion-picture:		
Standard-gage (35 mm.)—		
Number.....	2,726	4,093
Value.....	\$1,287,478	\$1,995,208
Substandard-gage (less than 35 mm.)—		
Number.....	134,515	114,593
Value.....	\$6,302,734	\$4,899,156
Other:		
Number.....	36,780	104,065
Value.....	\$823,660	\$290,461
Films (motion-picture and other, <sup>1</sup> exclusive of X-ray films).....	\$55,492,493	\$49,502,783
X-ray films.....	\$10,237,241	\$9,415,582
Sensitized photographic paper.....	\$15,149,947	\$12,285,739
Photo-copying paper and cloth:		
Blueprint.....	\$3,228,972	\$3,086,408
Blueprint cloth.....	\$86,882	( <sup>2</sup> )
Brown or black and white.....	\$2,738,295	\$3,933,994
Sensitized plates and slides.....	\$808,296	\$876,756
Other photographic apparatus and materials.....	\$12,950,728	\$13,847,025

<sup>1</sup> Figures combined to avoid disclosing, exactly or approximately, data for individual establishments.

<sup>2</sup> Not called for on schedule.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	17,271	15,434	15,632	16,122	16,739	17,255	17,736	17,853	18,015	18,081	18,085	18,105	18,189
1937.....	18,450	16,479	16,684	16,385	17,361	17,728	18,271	18,633	19,134	19,746	20,126	20,254	20,100
1929.....	12,997	11,600	11,868	12,156	12,537	12,641	12,877	13,066	13,087	13,346	13,970	14,316	14,154
California.....	194	183	184	190	188	192	185	196	204	207	197	203	194
Connecticut.....	216	156	157	169	226	307	278	266	216	216	201	214	183
Illinois.....	1,483	1,321	1,264	1,403	1,462	1,505	1,526	1,505	1,583	1,631	1,526	1,521	1,545
Massachusetts.....	414	315	352	381	400	410	424	434	418	434	471	473	454
Michigan.....	234	181	188	190	198	209	221	224	233	249	277	303	333
Missouri.....	170	165	171	170	168	166	168	163	166	172	175	180	178
New Jersey.....	951	870	868	845	858	905	953	995	1,029	1,024	1,084	986	991
New York.....	13,202	11,843	12,033	12,362	12,834	13,147	13,589	13,663	13,762	13,744	13,752	13,823	13,906
Ohio.....	62	68	55	57	60	63	67	65	66	66	65	64	64
Pennsylvania.....	151	154	157	156	150	152	157	151	151	149	149	147	140
Wisconsin.....	8	6	6	6	6	6	6	6	6	6	11	13	15

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TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	160
Reporting expenditures for plant and equipment.....	102
Value of products:	
Total for the industry.....	\$123,899,429
Reporting expenditures for plant and equipment.....	128,104,395
Expenditures for plant and equipment:	
Total for the industry.....	8,222,326
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	3,501,726
Expenditures for new machinery and operating equipment.....	4,639,768
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	80,832

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$26,205,774	\$28,068,232
Finished products.....	6,164,012	9,205,132
Materials, supplies, etc.....	20,041,762	18,863,100
End of year, total.....	29,496,378	37,112,685
Finished products.....	6,063,400	11,604,781
Materials, supplies, etc.....	23,432,978	25,507,904
Value of products for the industry, total.....	133,899,429	115,887,688
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	133,732,186	115,082,258
Value for establishments not reporting inventories.....	167,243	805,350

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929		1939	1929
Number of establishments.....	160	115	Prime movers—Continued.		
Number of establishments reporting power equipment.....	156	90	Prime movers not driving generators, ordinarily idle (included above), horsepower.....	80	( <sup>1</sup> )
Prime movers, aggregate:			Generators, kilowatt rating, total.....	20,040	14,503
Number.....	233	20	Generators, driven by—		
Horsepower.....	49,936	20,115	Steam engines, kilowatt rating.....	1,840	( <sup>1</sup> )
Prime movers, driving generators, total—			Steam turbines, kilowatt rating.....	18,800	
Number.....	22	120	Generators, ordinarily idle (included above), kilowatt rating.....	1,025	( <sup>1</sup> )
Horsepower.....	31,183	20,115	Electric motors, total:		
Steam engines—			Number.....	13,876	8,403
Number.....	13	121	Horsepower.....	36,742	47,252
Horsepower.....	3,233	14,655	Driven by purchased energy—		
Steam turbines—			Number.....	8,233	3,123
Number.....	9	15	Horsepower.....	20,724	11,789
Horsepower.....	27,950	15,460	Driven by energy generated in establishments reporting—		
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2,033		Number.....	5,643	5,280
Prime movers not driving generators, total—			Horsepower.....	16,018	35,463
Number.....	211	( <sup>2</sup> )	Electric energy (kilowatt-hours):		
Horsepower.....	18,763		Generated in plant.....	90,712,167	( <sup>3</sup> )
Steam engines—			Sold.....	37,017,383	( <sup>2</sup> )
Number.....	179		Purchased.....	51,225,902	34,853,145
Horsepower.....	12,803				
Steam turbines—					
Number.....	32				
Horsepower.....	5,950				

<sup>1</sup> Includes data for prime movers not driving generators.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Data not available.

## OPHTHALMIC GOODS: LENSES AND FITTINGS OPTICAL INSTRUMENTS AND LENSES

[A preliminary report for these industries was issued September 28, 1940]

**Description of the industries.**—The "Ophthalmic Goods: Lenses and Fittings" industry embraces establishments primarily engaged in the grinding of ophthalmic lenses and the manufacturing of ophthalmic goods. The "Optical Instruments and Lenses" industry includes establishments primarily engaged in the manu-

facture of microscopes, telescopes, field glasses, and related optical instruments. The manufacture of so-called lenses for use in headlights, lighthouses, and lanterns is not covered by these industries. Shops in which eyeglasses are fitted to individual order do not come within the scope of the census.

**TABLE 1.—OPHTHALMIC GOODS: LENSES AND FITTINGS AND OPTICAL INSTRUMENTS AND LENSES—SUMMARY FOR THE UNITED STATES: 1927 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
<b>THE INDUSTRIES IN COMBINATION</b>							
1939	121	11,624	\$14,093,770	\$15,322,947	\$49,700,232	\$34,377,285	9,196
1937	96	11,998	14,465,097	14,432,198	47,461,134	33,028,930	( <sup>5</sup> )
1935	100	9,667	10,335,621	11,114,294	33,600,389	22,480,095	( <sup>5</sup> )
1933	103	7,598	7,300,493	8,155,143	26,214,159	18,059,016	( <sup>5</sup> )
1931	102	7,446	8,755,968	7,823,942	27,887,459	20,303,517	( <sup>5</sup> )
1929	117	9,701	12,635,947	11,859,128	40,862,459	28,703,331	4,798
1927	96	7,506	9,500,725	8,865,025	32,757,210	23,892,185	3,270
<b>OPHTHALMIC GOODS: LENSES AND FITTINGS</b>							
1939	91	10,252	12,246,093	14,209,313	44,954,653	30,745,340	9,196
1937	79	10,900	12,967,590	13,402,396	43,520,384	30,057,988	( <sup>5</sup> )
<b>OPTICAL INSTRUMENTS AND LENSES</b>							
1939	30	1,372	1,847,767	1,113,634	4,745,579	3,631,945	( <sup>5</sup> )
1937	17	1,092	1,497,507	939,802	3,940,750	2,970,948	( <sup>5</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>4</sup> Not called for on schedule.

<sup>5</sup> Data not available.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>7</sup> None reported for 1939.

**TABLE 2.—OPHTHALMIC GOODS: LENSES AND FITTINGS—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Massachusetts	New Jersey	Ohio	Pennsylvania	Rhode Island	Other States <sup>1</sup>
Number of establishments <sup>2</sup>	91	6	4	14	9	6	4	7	41
Proprietors and firm members	32	4	3	2	1	3	2	2	16
Persons reported by manufacturing establishments, total <sup>3</sup>	13,497	24	159	4,445	556	268	771	571	6,708
Salaried officers of corporations <sup>3</sup>	143		5	30	21	7	9	13	63
Manufacturing:									
Salaried employees <sup>3</sup>	1,958	3	16	756	48	12	80	63	950
Wage earners (average for the year) <sup>4</sup>	10,252	20	119	3,319	455	242	628	460	5,003
Distribution	903	1	19	290	27	7	54	19	540
Construction	160			44	5			10	101
Other	16								16
Salaries and wages, total <sup>5</sup>	\$10,270,860	\$10,566	\$195,955	\$8,104,831	\$618,579	\$388,353	\$895,699	\$677,740	\$10,373,132
Salaried officers <sup>3</sup>	1,282,990		38,160	276,507	132,496	61,970	85,691	107,228	580,929
Manufacturing:									
Salaries <sup>3</sup>	3,409,696	3,532	19,942	1,307,398	71,943	23,852	111,727	98,224	1,773,078
Wages	12,246,093	12,869	113,199	3,385,788	363,617	290,284	584,965	400,254	6,594,027
Distribution	2,074,537	165	24,654	577,428	45,293	12,243	113,316	57,463	1,244,005
Construction	237,745			50,710	5,260			14,571	161,204
Other	19,889								10,889
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	14,209,313	22,144	305,487	4,322,334	850,930	338,338	1,399,698	886,248	6,075,205
Materials, supplies, and containers	13,574,877	21,394	297,917	4,217,129	834,550	325,031	1,366,368	870,047	5,641,241
Fuel	340,477	175	2,062	70,575	5,120	2,408	12,339	1,164	246,625
Purchased electric energy	278,719	575	5,301	27,951	15,539	10,299	20,961	12,707	185,326
Contract work	15,240		187	6,679	4,721			1,670	2,013
Value of products	44,954,653	64,326	779,836	13,082,216	1,880,002	890,708	2,968,842	1,799,856	22,888,807
Value added by manufacture <sup>6</sup>	30,745,340	42,182	474,399	9,359,882	1,020,123	552,370	1,569,174	913,608	16,813,692

<sup>1</sup> Indiana, 2 establishments; Maryland, 2; Missouri, 1; New York, 32; Texas, 1; Virginia, 2; Wisconsin, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

OPHTHALMIC GOODS; OPTICAL INSTRUMENTS

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TABLE 3.—OPTICAL INSTRUMENTS AND LENSES—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	New York	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	30	4	15	3	8
Proprietors and firm members.....	13	5	4	3	1
Persons reported by manufacturing establishments, total <sup>3</sup> .....	1,767	29	1,422	21	295
Salaried officers of corporations <sup>3</sup> .....	32		25		7
Manufacturing:					
Salaried employees <sup>3</sup> .....	208	3	103		12
Wage earners (average for the year) <sup>4</sup> .....	1,372	21	1,071	19	261
Distribution.....	108	5	89	2	12
Construction.....	47		44		3
Other.....					
Salaries and wages, total <sup>3</sup> .....	\$2,677,313	\$40,924	\$2,247,350	\$23,784	\$366,246
Salaried officers <sup>3</sup> .....	197,604		159,320		38,284
Manufacturing:					
Salaries <sup>3</sup> .....	435,794	5,716	399,507		30,571
Wages.....	1,847,767	29,295	1,513,358	22,744	232,370
Distribution.....	149,894	5,913	130,470	1,040	12,471
Construction.....	46,254		44,704		1,550
Other.....					
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	1,113,634	33,397	782,395	10,329	278,513
Materials, supplies, and containers.....	1,004,291	31,126	606,181	18,049	258,935
Fuel.....	30,500	79	22,188	446	7,787
Purchased electric energy.....	37,649	634	24,744	834	11,437
Contract work.....	41,194	1,558	30,282		354
Value of products.....	4,745,570	92,770	3,720,031	64,198	868,580
Value added by manufacture <sup>5</sup> .....	3,631,945	59,373	2,937,636	44,869	590,037

<sup>1</sup> Colorado, 1 establishment; Illinois, 2; Massachusetts, 2; Missouri, 1; New Jersey, 1; Texas, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 4.—OPHTHALMIC GOODS—LENSES AND FITTINGS AND OPTICAL INSTRUMENTS AND LENSES—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
"Ophthalmic goods: lenses and fittings" and "Optical instruments and lenses" industries, all products, total value.....	\$40,700,232	\$47,461,134
Ophthalmic goods, lenses and fittings, and optical instruments and lenses made in these industries.....	47,527,408	45,166,632
Receipts for contract and repair work.....	216,905	265,980
Other products (not classified in these industries).....	1,955,829	2,028,522
Ophthalmic goods, lenses and fittings, and optical instruments and lenses, total value.....	48,885,940	46,263,083
Ophthalmic goods, lenses and fittings, and optical instruments and lenses made in these industries.....	47,527,408	45,166,632
Ophthalmic goods: lenses and fittings, and optical instruments and lenses made as secondary products in other industries.....	1,358,442	1,096,451

<sup>1</sup> Value of abrasives, navigational instruments, photographic shutters, projection apparatus, plastic articles, etc.

TABLE 5.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total.....	\$48,885,940	\$46,263,083
Ophthalmic goods: lenses and fittings, total value.....	38,246,800	37,561,389
Spectacle and eyeglass frames, mountings, and parts, total.....	16,187,622	15,034,421
All-metal.....	13,671,265	12,932,453
Zylonite or shell, with or without metal parts.....	2,516,267	2,101,963

TABLE 5.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued.

PRODUCT	1939	1937
Ophthalmic goods—Continued.		
Lenses, ophthalmic, total.....	\$12,263,758	\$13,009,255
Single-vision lenses (not colored).....	4,480,920	5,076,429
Multi-vision lenses (bifocals and trifocals, not colored).....	5,307,785	5,497,589
Colored lenses.....	2,475,053	2,435,237
Protection or industrial goggles, eye protectors, mountings, and parts.....	2,533,686	3,409,583
Sun or glare glasses and sun goggles.....	4,371,649	3,196,399
Readers and simple magnifiers.....	171,517	(1)
Accessories.....	942,936	864,825
Other ophthalmic products <sup>2</sup> .....	1,774,841	2,046,906
Optical instruments and lenses, total value.....	10,640,131	8,701,694
Field and opera glasses, nonprismatic.....	152,270	(1)
Refractometers, spectrometers, spectroscopes, colorimeters, polariscopes, and optical measuring instruments.....	937,377	(1)
Telescopic sights.....	414,801	(1)
Photographic and projection lenses and prisms.....	2,754,770	(1)
Optical machinery.....	872,277	(1)
Optical glass (not ground or polished), plates and disks, molded or pressed.....	528,063	(1)
Other optical instruments and lenses <sup>3</sup> .....	5,279,464	(1)

<sup>1</sup> Not reported separately.

<sup>2</sup> Ophthalmic instruments and apparatus and other ophthalmic products.

<sup>3</sup> Microscopes, telescopes, photo-micro and micro-projection apparatus, field and opera glasses, prismatic, fire-control optical instruments, searchlight mirrors and reflectors, etc., and parts and accessories.

## CENSUS OF MANUFACTURES: 1939

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>THE INDUSTRIES IN COMBINATION</b>													
United States:													
1939	11,024	10,261	10,847	11,334	11,528	11,020	11,719	11,503	11,416	11,549	12,013	12,629	13,057
1937	11,998	11,593	11,909	12,348	12,501	12,253	12,027	12,187	12,141	11,112	11,389	12,285	12,220
1929	9,701	9,323	9,561	9,723	9,843	9,781	9,778	9,649	9,542	9,678	9,834	9,901	9,799
<b>OPHTHALMIC GOODS: LENSES AND FITTINGS</b>													
United States:													
1939	10,262	9,082	9,035	10,045	10,234	10,276	10,371	10,127	10,032	10,087	10,533	11,084	11,512
1937	10,906	10,690	10,945	11,349	11,460	11,201	10,964	11,131	11,017	9,935	10,189	11,052	10,938
California	20	15	16	15	15	15	14	18	21	20	25	28	32
Illinois	119	123	123	122	123	120	119	113	112	112	113	120	127
Massachusetts	3,319	2,896	3,028	3,208	3,285	3,370	3,400	3,363	3,363	3,359	3,351	3,547	3,082
New Jersey	455	381	462	512	519	501	475	408	353	378	446	605	521
New York	4,190	3,811	4,008	4,059	4,099	4,056	4,110	4,011	4,091	4,150	4,437	4,021	4,816
Ohio	242	225	217	224	236	232	238	243	249	250	262	277	277
Pennsylvania	628	527	588	640	667	653	702	661	560	558	632	639	679
Rhode Island	466	428	452	464	464	481	494	508	458	447	450	472	481
<b>OPTICAL INSTRUMENTS AND LENSES</b>													
United States:													
1939	1,372	1,179	1,212	1,289	1,294	1,344	1,348	1,376	1,384	1,462	1,480	1,545	1,545
1937	1,092	903	964	1,002	1,041	1,057	1,063	1,056	1,124	1,177	1,200	1,233	1,282
California	21	17	18	19	19	20	21	22	23	23	22	22	23
New York	1,071	930	962	1,012	988	1,042	1,021	1,040	1,051	1,133	1,104	1,247	1,253
Pennsylvania	19	17	18	18	18	19	20	20	20	20	18	18	19

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	Ophthalmic Goods: Lenses and Fittings industry	Optical Instruments and Lenses industry
Number of establishments:		
Total for the industry	91	30
Reporting expenditures for plant and equipment	62	21
Value of products:		
Total for the industry	\$44,954,653	\$4,745,579
Reporting expenditures for plant and equipment	42,647,622	4,479,192
Expenditures for plant and equipment:		
Total for the industry	1,437,571	721,303
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	376,823	337,593
Expenditures for new machinery and operating equipment	952,574	350,841
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	108,160	32,874

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	OPHTHALMIC GOODS: LENSES AND FITTINGS		OPTICAL INSTRUMENTS AND LENSES	
	1939	1937	1939	1937
Inventories:				
Beginning of year, total	\$14,675,389	\$13,046,011	\$1,379,296	\$772,062
Finished products	6,344,472	5,055,522	565,085	341,935
Materials, supplies, etc.	8,330,917	7,990,489	814,211	430,127
End of year, total	16,372,859	15,413,678	1,710,750	804,722
Finished products	6,514,771	5,812,177	589,196	336,076
Materials, supplies, etc.	9,858,088	9,601,501	1,151,560	468,646
Value of products for the industry, total	44,954,653	43,520,384	4,745,579	3,940,750
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	44,326,900	42,569,895	4,699,740	3,880,472
Value for establishments not reporting inventories	627,753	950,489	45,839	51,278

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	Ophthalmic Goods: Lenses and Fittings industry	Optical Instruments and Lenses industry
Number of establishments	91	30
Number of establishments reporting power equipment	91	29
Prime movers, aggregate:		
Number	9	
Horsepower	9,196	
Prime movers, driving generators, total—		
Number	7	
Horsepower	8,930	
Steam engines—		
Number	2	
Horsepower	300	
Steam turbines—		
Number	4	
Horsepower	8,250	
Hydroturbines and water wheels—		
Number	1	
Horsepower	280	
Prime movers not driving generators, total—		
Number	2	
Horsepower	366	
Steam engines—		
Number	2	
Horsepower	366	
Generators, kilowatt rating, total	6,360	
Generators, driven by—		
Steam engines, kilowatt rating	160	
Steam turbines, kilowatt rating	6,000	
Hydroturbines and water wheels, kilowatt rating	200	
Electric motors, total:		
Number	6,863	1,031
Horsepower	17,786	1,775
Driven by purchased energy—		
Number	4,874	1,031
Horsepower	12,357	1,775
Driven by energy generated in establishments reporting—		
Number	2,189	
Horsepower	5,429	
Electric energy (kilowatt-hours):		
Generated in plant	6,026,663	
Purchased	14,692,234	2,071,718

<sup>1</sup> Comparable data for 1929 not available.

# SURGICAL AND MEDICAL INSTRUMENTS

[A preliminary report for this industry was issued October 5, 1940]

**Description of the industry.**—This industry embraces establishments engaged primarily in the manufacture of surgical, veterinarian, and other medical instruments, and clinical thermometers. (Dental instruments are, however, assigned to the "Dental equipment and supplies" industry.)

**Detailed statistics of products.**—The production data for the "Surgical and medical instruments" industry are included in the report for "Professional and scientific instruments" industry, pp. 562 to 564, because of the overlapping of products of the two industries.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	50	1,026	\$1,978,574	\$2,319,720	\$8,052,120	\$5,732,400	246
1937 <sup>4</sup> .....	39	1,447	1,862,748	2,034,939	7,564,963	5,530,024	(*)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> No comparable figures for prior years. \* Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Massachusetts	New York	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	50	9	8	13	5	15
Proprietors and firm members.....	22	2	2	6	5	7
Persons reported by manufacturing establishments, total <sup>3</sup> .....	2,232	282	280	562	219	800
Salaried officers of corporations <sup>3</sup> .....	80	18	23	15	8	16
Manufacturing:						
Salaried employees <sup>3</sup> .....	239	21	60	41	6	111
Wage earners (average for the year) <sup>4</sup> .....	1,626	143	173	465	161	685
Distribution.....	282	100	24	36	44	78
Construction.....	2			2		
Other.....	3			3		
Salaries and wages, total <sup>5</sup> .....	\$3,741,819	\$453,412	\$384,334	\$960,843	\$281,067	\$1,601,263
Salaried officers <sup>3</sup> .....	538,318	109,406	107,508	137,448	38,580	145,376
Manufacturing:						
Salaries <sup>3</sup> .....	467,702	31,730	80,381	80,908	14,030	248,053
Wages.....	1,978,574	162,049	164,651	508,031	196,916	856,327
Distribution.....	722,200	150,227	25,704	102,831	31,841	411,507
Construction.....	1,071			1,671		
Other.....	33,354			33,354		
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	2,319,720	173,043	411,721	600,834	189,915	944,207
Materials, supplies, and containers.....	2,228,206	162,076	404,677	572,575	169,450	918,618
Fuel.....	24,579	2,190	1,903	7,685	3,924	8,877
Purchased electric energy.....	51,591	7,877	4,763	16,166	6,083	16,712
Contract work.....	15,254		378	4,418	10,468	
Value of products.....	8,052,120	651,458	1,022,807	1,833,989	566,700	3,977,166
Value added by manufacture <sup>6</sup> .....	5,732,400	478,415	611,080	1,233,155	370,785	3,032,959

<sup>1</sup> California, 1 establishment; Connecticut, 1; Florida, 1; Indiana, 1; Kansas, 1; Maryland, 1; Michigan, 2; Missouri, 1; New Jersey, 3; Ohio, 1; Tennessee, 1; Washington, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

Product statistics for this industry included in production tables for "Professional and scientific instruments (except surgical and dental)" industry, p. 562; therefore, no statistics are given for tables 3 and 4 for this industry.

**TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,626	1,530	1,545	1,557	1,578	1,591	1,614	1,599	1,580	1,657	1,677	1,761	1,820
1937.....	1,447	1,395	1,441	1,449	1,492	1,448	1,461	1,413	1,421	1,446	1,477	1,475	1,480
Illinois.....	143	141	143	148	144	148	148	149	132	134	140	141	151
Massachusetts.....	173	156	170	171	179	179	184	172	150	173	165	182	191
New Jersey.....	496	484	483	487	488	493	491	491	491	509	500	600	510
New York.....	465	415	418	422	439	440	455	462	461	477	489	538	570
Pennsylvania.....	161	165	163	163	164	166	167	168	165	165	170	176	178

## CENSUS OF MANUFACTURES: 1939

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	50
Reporting expenditures for plant and equipment.....	30
Value of products:	
Total for the industry.....	\$8,052,120
Reporting expenditures for plant and equipment.....	6,983,951
Expenditures for plant and equipment:	
Total for the industry.....	104,532
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	21,418
Expenditures for new machinery and operating equipment.....	76,056
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	6,058
Expenditures unclassified.....	1,000

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$2,068,861	\$1,528,999
Finished products.....	1,061,534	588,655
Materials, supplies, etc.....	1,007,327	940,344
End of year, total.....	2,149,314	1,772,184
Finished products.....	1,027,968	759,498
Materials, supplies, etc.....	1,121,346	1,012,686
Value of products for the industry, total.....	8,052,120	7,564,063
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	7,907,131	7,539,819
Value for establishments not reporting inventories.....	144,989	25,144

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments.....	50
Number of establishments reporting power equipment.....	50
Prime movers, aggregate:	
Number.....	4
Horsepower.....	246
Prime movers, driving generators, total—	
Number.....	1
Horsepower.....	100
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	100
Prime movers not driving generators, total—	
Number.....	3
Horsepower.....	146
Steam engines—	
Number.....	1
Horsepower.....	100
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—	
Number.....	2
Horsepower.....	46
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	6
Generators, kilowatt rating, total.....	40
Generators, driven by—	
Diesel and semi-Diesel engines, kilowatt rating.....	40
Electric motors, total:	
Number.....	1,068
Horsepower.....	2,050
Driven by purchased energy—	
Number.....	1,061
Horsepower.....	2,020
Driven by energy generated in establishments reporting—	
Number.....	7
Horsepower.....	30
Electric energy purchased (kilowatt-hours).....	1,809,829

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.

# SURGICAL SUPPLIES AND EQUIPMENT NOT ELSEWHERE CLASSIFIED; ORTHOPEDIC APPLIANCES

[A preliminary report for this industry was issued October 3, 1940]

**Description of the industry.**—This industry embraces establishments engaged primarily in the manufacture of surgical and orthopedic appliances such as braces, trusses, supports, splints, and elastic hosiery, and of such products as crutches and artificial limbs. It also covers the production of hearing aids, surgical gut strings, adhesive plasters, bandages, surgical gauze, and sanitary products. The manufacture of surgical instruments is assigned to the "Surgical and medical instruments" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1899	360	8,468	\$8,547,630	\$40,286,593	\$79,898,442	\$39,101,849	2,679
1907	323	8,423	8,546,469	45,030,602	77,068,094	32,037,402	(5)
1905	307	7,089	6,287,065	36,144,005	61,794,425	25,020,420	(5)
1903	250	6,958	6,118,814	28,846,426	51,442,064	22,595,638	(5)
1901	325	6,740	7,271,373	22,954,244	51,012,062	28,057,818	(5)
1929	363	7,910	8,921,668	38,094,844	71,607,119	35,602,275	3,450
1927	335	7,310	8,371,278	30,763,598	60,623,407	29,859,899	2,847
1925	303	6,450	6,837,328	26,813,846	58,285,656	31,471,810	5,170
1923	286	5,868	6,308,521	24,275,660	47,603,399	23,327,759	(5)
1921	295	4,810	5,280,033	15,077,020	34,946,699	19,869,676	(5)
1919	445	7,061	6,878,068	22,988,068	49,805,266	23,817,198	8,535
1914	391	4,770	2,580,535	7,413,294	16,418,138	9,004,844	5,901
1909	324	4,241	2,128,927	5,371,656	12,399,314	7,027,658	4,599
1904	284	3,153	1,370,476	2,805,916	7,289,024	4,463,108	2,563
1899	306	1,788	767,421	1,417,042	4,682,212	3,264,570	(5)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>4</sup> Not called for on schedule.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

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

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Colorado	Connecticut	Illinois	Indiana	Iowa	Kansas	Kentucky	Maryland	Michigan	Minnesota
Number of establishments <sup>1</sup>	360	25	3	6	33	6	3	3	4	3	7	12
Proprietors and firm members	220	20	3	3	14	3	3	4	3	2	2	12
Persons reported by manufacturing establishments, total <sup>2</sup>	13,129	167	12	399	2,575	115	5	12	14	15	112	118
Salaried officers of corporations <sup>2</sup>	293	11	1	—	33	7	—	—	2	2	6	7
Manufacturing:												
Salaried employees <sup>2</sup>	1,076	20	—	41	432	15	1	5	4	1	4	14
Wage earners (average for the year) <sup>2</sup>	8,468	110	6	354	1,746	85	4	7	7	12	62	63
Distribution	2,471	26	5	4	328	8	—	—	1	—	—	34
Construction	221	—	—	—	36	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—
Salaries and wages, total <sup>2</sup>	\$17,042,661	\$246,447	\$9,855	\$387,317	\$3,398,252	\$167,282	\$7,878	\$12,367	\$17,418	\$21,524	\$147,538	\$140,224
Salaried officers <sup>2</sup>	1,793,597	33,599	2,340	—	183,598	30,348	—	—	4,944	5,720	21,610	17,166
Manufacturing:												
Salaries <sup>2</sup>	2,934,922	30,725	—	98,324	731,426	25,589	2,346	5,412	2,509	156	9,391	19,602
Wages	8,547,630	142,956	3,568	271,266	1,720,186	101,004	5,532	9,955	9,260	15,648	63,339	74,635
Distribution	4,455,699	38,867	3,947	17,727	725,797	10,281	—	—	675	—	53,188	28,821
Construction	210,913	—	—	—	37,275	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	40,296,593	181,797	10,060	1,737,504	7,720,026	479,100	5,937	3,576	10,083	11,603	166,626	76,081
Materials, supplies, and containers	39,568,465	176,083	9,739	1,682,503	7,577,581	482,320	5,739	3,173	9,218	10,959	163,304	71,280
Fuel	271,188	430	—	38,978	59,991	2,562	51	266	390	304	1,468	1,112
Purchased electric energy	392,526	4,013	252	15,823	81,479	6,862	147	137	425	340	1,854	2,646
Contract work	64,414	1,271	69	200	1,005	7,350	—	—	—	—	—	1,144
Value of products	79,898,442	572,667	39,014	3,082,457	15,913,149	976,262	27,596	28,042	47,911	45,233	505,111	328,451
Value added by manufacture <sup>4</sup>	39,101,849	390,870	28,954	1,344,953	8,193,123	497,162	21,659	24,466	37,878	33,630	338,486	262,370

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

	Missouri	Nebraska	New Hampshire	New York	Ohio	Oregon	Pennsylvania	Tennessee	Texas	Washington	Wisconsin	Other States <sup>1</sup>
Number of establishments <sup>1</sup> .....	19	5	3	78	26	3	30	5	8	5	10	63
Proprietors and firm members.....	5	5	2	47	16	2	26	5	8	1	2	32
Persons reported by manufacturing establishments, total <sup>2</sup> .....	807	24	12	2,440	674	11	1,334	18	45	35	122	4,063
Salaried officers of corporations <sup>3</sup> .....	22	2	2	85	18	3	34	1	3	2	5	47
Manufacturing:												
Salaried employees <sup>3</sup> .....	55	4	1	156	70		209	1	6	3	5	629
Wage earners (average for the year) <sup>3</sup> .....	357	15	9	1,671	430	6	920	12	27	26	110	2,428
Distribution.....	373	3		537	156	2	171	4	9	4	2	764
Construction.....												185
Other.....												
Salaries and wages, total <sup>2</sup> .....	\$674,756	\$24,401	\$10,774	\$3,721,434	\$785,827	\$17,067	\$2,031,078	\$24,451	\$45,913	\$51,377	\$87,260	\$5,912,221
Salaried officers <sup>3</sup> .....	104,587	2,815	3,000	465,404	119,107	4,683	271,266	4,314	5,844	6,800	15,300	490,882
Manufacturing:												
Salaries <sup>3</sup> .....	63,053	2,955	566	306,418	103,279		399,735	1,095	4,561	5,028	10,713	1,111,130
Wages.....	309,006	15,198	7,208	1,718,221	357,141	7,984	997,152	13,884	27,247	34,785	50,615	2,585,750
Distribution.....	198,110	3,433		1,231,391	206,300	4,400	362,925	5,158	8,261	3,864	1,632	1,550,812
Construction.....												173,638
Other.....												
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	891,622	18,021	16,063	9,801,347	1,535,587	17,453	2,712,007	16,873	32,280	30,897	268,174	14,553,926
Materials, supplies, and containers.....	868,663	17,637	15,556	9,681,830	1,514,486	16,757	2,672,227	15,939	31,142	27,618	264,470	14,269,811
Fuel.....	10,472	124	4	24,740	1,758	80	13,077	188	178	30	105	114,910
Purchased electric energy.....	12,067	260	503	60,375	9,883	610	20,719	746	960	1,004	3,538	158,788
Contract work.....	100			25,102	9,460		5,984			2,245	61	10,417
Value of products.....	2,088,210	56,545	43,141	18,213,177	3,185,593	48,066	7,193,468	71,359	105,693	150,273	404,901	26,206,523
Value added by manufacture <sup>4</sup> .....	1,196,588	38,524	27,078	8,411,830	1,050,006	31,213	4,486,461	64,486	73,413	119,376	136,727	11,712,597

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.<sup>4</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.<sup>5</sup> Alabama, 2 establishments; Arizona, 1; District of Columbia, 4; Florida, 1; Georgia, 2; Louisiana, 1; Massachusetts, 28; New Jersey, 13; Oklahoma, 2; Rhode Island, 2; South Carolina, 1; Utah, 2; Vermont, 1; and West Virginia, 3.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
"Surgical Supplies and Equipment Not Elsewhere Classified; Orthopedic Appliances" industry, all products, total value.....	\$79,398,442	\$77,068,004
Surgical supplies and equipment not elsewhere classified, and orthopedic appliances made in this industry.....	59,621,002	65,328,236
Miscellaneous products not specified.....	6,187,875	
Other products (not classified in this industry).....	13,065,983	11,581,414
Receipts for contract and repair work.....	223,582	158,444
Surgical supplies and equipment not elsewhere classified, and orthopedic appliances, total value.....	69,614,234	77,116,998
Surgical supplies and equipment not elsewhere classified, and orthopedic appliances made in this industry.....	59,621,002	65,328,236
Surgical supplies and equipment not elsewhere classified, and orthopedic appliances made as secondary products in other industries.....	9,993,232	5,788,762

<sup>1</sup> Value of racket strings, rapid flow filter material, medicinal preparations, toilet powder, nursery pads, diapers, facial tissues, handkerchiefs, cheese cloth, cellulose tissue products, etc.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$69,514,234	\$71,116,998
Artificial limbs.....	1,716,313	1,838,950
Crutches.....	89,748	61,392
Fracture appliances.....	671,046	600,025
Stumpsocks.....	129,550	163,770
Elastic hosiery.....	824,057	668,350

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Abdominal supporters.....	\$900,129	\$776,717
Braces.....	822,807	780,074
Surgical belts.....	342,008	388,328
Suspensories.....	441,420	650,407
Trusses.....	1,928,688	2,109,742
Foot appliances, total.....	1,849,860	2,131,407
Arch supports.....	1,507,103	1,366,958
Other.....	342,757	764,454
Surgical gut strings.....	3,755,812	4,304,905
Hearing aids.....	3,670,901	4,190,130
Sanitary napkins.....	15,709,606	14,418,759
Other sanitary supplies.....	1,150,722	1,209,555
Hospital, surgical, and other sterilizers <sup>2</sup> .....	1,171,340	( <sup>1</sup> )
Absorbent cotton.....	3,607,951	3,479,482
Adhesive plasters (nonmedicated).....	5,946,645	5,981,925
Medicated plasters.....	3,792,159	2,559,064
Bandages.....	3,951,721	3,644,223
Surgical gauze and dressings.....	12,510,568	12,623,632
Other surgical and orthopedic appliances and related products.....	4,556,383	8,536,164

<sup>1</sup> Includes \$3,243,475, value of sanitary napkins made as secondary products in other industries.<sup>2</sup> Dental sterilizers are included in the "Dental equipment and supplies" industry.<sup>3</sup> Figures for "Hospital, surgical, and other sterilizers" combined to avoid disclosing, exactly or approximately, data for individual establishments.<sup>4</sup> Not called for on schedule.<sup>5</sup> Includes \$814,302, value of bandages made as secondary products in other industries.<sup>6</sup> Includes \$780,741, value of other surgical and orthopedic appliances made as secondary products in other industries.

SURGICAL SUPPLIES AND EQUIPMENT

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	8,468	7,937	8,074	8,134	8,111	8,137	8,273	8,453	8,504	8,736	9,062	9,125	9,008
1937	8,423	8,011	8,139	8,320	8,424	8,497	8,624	8,613	8,673	8,742	8,665	8,339	8,080
1929	7,910	7,462	7,643	7,755	7,795	7,856	7,806	7,859	8,159	8,251	8,404	8,045	7,800
California	110	102	104	102	103	108	113	107	111	110	117	120	117
Colorado	6	7	8	5	6	6	7	9	6	6	5	5	6
Connecticut	354	337	334	337	348	391	348	343	336	343	378	383	367
District of Columbia	31	30	30	31	30	29	30	32	31	31	31	32	32
Illinois	1,746	1,567	1,600	1,636	1,627	1,614	1,751	1,778	1,871	1,850	1,964	1,883	1,810
Indiana	85	77	83	81	81	82	84	88	87	87	88	89	90
Kentucky	7	7	7	7	7	7	7	7	7	7	7	8	8
Maryland	12	12	12	12	12	12	12	12	12	12	12	12	12
Massachusetts	808	768	771	774	772	771	769	808	794	852	902	864	849
Michigan	62	64	64	63	63	61	59	60	50	61	62	62	62
Minnesota	63	54	59	61	62	62	65	65	64	65	66	66	70
Missouri	357	311	323	331	350	338	339	357	394	395	392	382	371
Nebraska	15	15	15	15	15	15	15	15	15	15	15	15	15
New Jersey	1,477	1,348	1,391	1,458	1,456	1,436	1,424	1,429	1,448	1,464	1,499	1,650	1,722
New York	1,671	1,633	1,625	1,634	1,633	1,635	1,636	1,620	1,630	1,712	1,776	1,795	1,714
Ohio	430	411	408	408	398	412	421	452	455	465	457	443	430
Pennsylvania	920	908	915	859	853	851	879	950	908	939	955	1,002	1,025
Tennessee	12	12	12	11	12	12	12	13	13	13	14	13	12
Texas	27	25	23	27	27	25	30	29	29	24	30	30	27
Washington	26	25	25	25	25	25	26	26	26	26	26	26	26
West Virginia	12	12	12	12	12	12	12	12	12	12	12	12	12
Wisconsin	110	99	129	120		111	102	107	112	102	114	119	111

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	360
Reporting expenditures for plant and equipment	157
Value of products:	
Total for the industry	\$79,398,442
Reporting expenditures for plant and equipment	72,337,685
Expenditures for plant and equipment:	
Total for the industry	932,836
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	157,148
Expenditures for new machinery and operating equipment	716,168
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	59,520

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$12,002,185	\$11,054,707
Finished products	5,200,804	4,205,051
Materials, supplies, etc.	6,801,381	6,849,746
End of year, total	14,370,430	12,443,087
Finished products	6,211,140	4,948,116
Materials, supplies, etc.	8,159,290	7,494,971
Value of products for the industry, total	79,398,442	77,068,094
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	78,479,007	75,345,654
Value for establishments not reporting inventories	919,435	1,722,440

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments	360	363
Number of establishments reporting power equipment	359	300
Prime movers, aggregate:		
Number	35	31
Horsepower	2,670	3,450
Prime movers, driving generators, total—		
Number	7	131
Horsepower	2,014	1,340

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam engines—		
Number	4	118
Horsepower	910	12,376
Steam turbines—		
Number	1	13
Horsepower	400	1,211
Diesel and semi-Diesel engines—		
Number		
Horsepower		14
Other internal-combustion engines <sup>2</sup> —		
Number		134
Horsepower		
Hydroturbines and water wheels—		
Number	2	18
Horsepower	704	1,830
Prime movers, driving generators, ordinarily idle (included above), horsepower		
Prime movers not driving generators, total—		
Number	28	
Horsepower	665	
Steam engines—		
Number	25	(3)
Horsepower	507	
Steam turbines—		
Number	1	
Horsepower	60	
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—		
Number	2	
Horsepower	38	
Prime movers not driving generators, ordinarily idle (included above), horsepower	30	(3)
Generators, kilowatt rating, total	1,380	635
Generators, driven by—		
Steam engines, kilowatt rating	635	
Steam turbines, kilowatt rating	205	(3)
Hydroturbines and water wheels, kilowatt rating	480	
Electric motors, total:		
Number	8,475	2,712
Horsepower	10,916	10,910
Driven by purchased energy—		
Number	8,146	2,585
Horsepower	17,926	9,957
Driven by energy generated in establishments reporting—		
Number	320	127
Horsepower	1,990	953
Electric energy (kilowatt-hours):		
Generated in plant	1,332,380	(4)
Purchased	26,937,484	15,468,022

<sup>1</sup> Includes data for prime movers not driving generators. <sup>2</sup> Gas, gasoline, etc. <sup>3</sup> Not called for on schedule. <sup>4</sup> Data not available.

# DENTAL EQUIPMENT AND SUPPLIES

[A preliminary report for this industry was issued December 3, 1940]

**Description of the industry.**—This industry embraces establishments whose principal products are mechanical devices and other equipment for use by dentists, such as equipment units, sterilizers, cabinets, chairs, etc., as well as hand tools and instruments and such materials as dental gold and alloys, waxes and compounds, and teeth. It does not, however, cover the manufacture of X-ray machines for dentists' use, which are assigned to the "Electrical machinery" group.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	131	4,245	\$4,825,367	\$13,257,713	\$31,546,707	\$18,288,994	2,020
1937 <sup>4</sup> .....	101	4,574	5,347,076	12,717,074	30,879,281	18,162,207	( <sup>5</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> No comparable figures for earlier years. <sup>5</sup> Not called for on schedule.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Colorado	Illinois	Massachusetts	Minnesota	New Jersey	New York	Ohio	Oregon	Pennsylvania	Washington	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	131	10	4	17	5	4	4	34	10	3	24	4	12
Proprietors and firm members.....	68	13	1	9	2	3	3	19	3	2	10	4	2
Persons reported by manufacturing establishments, total <sup>3</sup> .....	5,708	36	54	332	105	57	69	1,634	602	18	2,243	10	450
Salaried officers of corporations <sup>4</sup> .....	148	2	5	13	5	5	2	43	13	3	27	-----	30
Manufacturing:													
Salaried employees <sup>4</sup> .....	679	2	5	38	6	7	9	319	46	3	200	-----	38
Wage earners (average for the year) <sup>4</sup> .....	4,245	26	40	102	171	20	56	1,089	448	6	1,905	7	287
Distribution.....	630	6	9	86	13	25	3	178	94	6	103	3	104
Construction.....	0	-----	-----	3	-----	-----	-----	-----	1	-----	2	-----	-----
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Salaries and wages, total <sup>4</sup> .....	\$8,408,728	\$37,292	\$56,206	\$430,700	\$184,513	\$132,237	\$83,382	\$2,781,702	\$871,736	\$29,560	\$3,090,350	\$12,052	\$770,608
Salaried officers <sup>4</sup> .....	923,053	3,480	-----	58,387	13,509	39,354	14,274	298,078	80,141	9,420	238,825	-----	106,685
Manufacturing:													
Salaries <sup>4</sup> .....	1,517,910	2,585	8,032	54,000	11,186	12,291	14,930	634,585	84,037	4,028	503,529	-----	96,838
Wages.....	4,825,367	24,180	32,620	177,008	114,894	33,732	42,386	1,502,927	520,481	7,940	2,050,857	8,032	290,505
Distribution.....	1,220,486	7,041	14,645	142,400	44,876	46,800	11,783	345,212	185,556	8,172	103,940	3,120	216,880
Construction.....	11,913	-----	-----	6,135	58	-----	-----	-----	1,521	-----	4,199	-----	-----
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	13,257,713	216,761	51,934	366,757	100,049	951,303	173,377	6,596,414	772,871	11,899	2,053,826	11,620	1,951,318
Materials, supplies, and containers.....	12,965,541	215,635	50,453	351,808	90,216	947,476	160,279	6,485,842	747,072	9,776	1,985,859	11,326	1,909,730
Fuel.....	134,427	230	921	5,041	877	1,894	3,036	65,201	9,151	641	32,039	127	14,060
Purchased electric energy.....	130,367	887	560	6,746	8,015	2,023	10,062	38,531	16,648	982	35,628	167	9,818
Contract work.....	27,378	-----	-----	2,502	935	-----	-----	6,840	-----	-----	-----	-----	17,101
Value of products.....	31,546,707	363,573	128,894	1,017,277	581,408	1,310,949	346,885	11,010,023	2,483,835	60,028	6,447,931	44,704	3,833,640
Value added by manufacture <sup>5</sup> .....	18,288,994	146,812	76,960	650,520	481,365	359,566	173,008	5,322,609	1,710,964	57,629	7,394,105	33,144	1,882,322

<sup>1</sup> Connecticut, 1 establishment; Delaware, 1; Kentucky, 1; Michigan, 5; Missouri, 2; Nebraska, 1; Wisconsin, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

	1939	1937
Dental Equipment and Supplies industry, all products, total value.....	\$31,546,707	\$30,879,281
Dental equipment and supplies.....	28,733,731	1 26,511,656
Other products (not classified in this industry).....	2,638,918	1 3,732,473
Receipts for contract and repair work.....	179,058	635,152
Dental equipment and supplies, total value.....	29,918,766	1 27,081,844
Dental equipment and supplies made in this industry.....	28,733,731	1 26,511,656
Dental equipment and supplies made as secondary products in other industries.....	1,185,035	1 570,188

<sup>1</sup> Revised.  
<sup>2</sup> Value of X-ray machines, chemicals, drugs, medicines, and mechanical rubber.

**TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

PRODUCT	1939	1937
Total value.....	\$29,918,766	\$27,081,844
Teeth.....	6,951,457	7,920,309
Dental gold <sup>2</sup> .....	8,255,963	7,834,989
Dental alloys and amalgams.....	1,406,068	1,062,503
Dental cements and filling materials.....	1,201,792	502,433
Denture materials, except rubber.....	1,411,805	257,564
Burs, drills, and similar products.....	928,046	1,512,712
Hand instruments.....	843,246	501,456
Abrasive points, wheels, and disks.....	230,597	241,618
Dental sterilizers.....	1,528,903	(3)
Dental chairs and cabinets.....	1,067,917	1,237,070
Rubber, waxes, compounds, and investments.....	1,216,063	977,715
Orthodontic appliances.....	120,790	154,831
Other dental equipment, including equipment units <sup>4</sup> .....	4,756,129	4,979,634

<sup>1</sup> Revised.  
<sup>2</sup> Dental gold is made to some extent in the "Secondary smelting and refining, gold, silver, and platinum" industry, but the amount of this production is not reported separately.  
<sup>3</sup> Dental sterilizers included in "Other dental equipment, including equipment units."  
<sup>4</sup> Dental X-ray machines are treated as products of the "X-ray and therapeutic apparatus and electronic tubes" industry in the Electrical Machinery group and figures for the production of such machines are included in the report for that industry.

# DENTAL EQUIPMENT AND SUPPLIES

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**TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	4,245	4,229	4,227	4,220	4,209	4,183	4,120	4,114	4,206	4,269	4,315	4,400	4,451
1937	4,574	4,579	4,583	4,635	4,606	4,589	4,609	4,567	4,600	4,571	4,543	4,531	4,480
California	26	26	27	24	26	24	24	23	23	28	28	28	25
Colorado	40	35	34	36	40	39	40	40	39	41	40	47	48
Illinois	192	180	179	179	185	189	191	192	190	198	204	206	209
Massachusetts	171	187	178	154	157	162	169	168	172	185	166	166	188
Michigan	110	87	90	94	100	100	116	121	116	119	125	130	128
Minnesota	20	20	20	20	20	20	20	20	20	20	20	20	20
New Jersey	55	54	55	51	54	49	52	55	60	61	59	55	54
New York	1,089	1,124	1,126	1,124	1,104	1,072	1,050	1,016	1,040	1,050	1,066	1,130	1,158
Ohio	448	446	446	448	448	456	374	382	459	468	490	476	480
Oregon	6	7	7	7	7	6	6	6	6	6	6	6	6
Pennsylvania	1,905	1,800	1,892	1,909	1,892	1,890	1,888	1,898	1,895	1,909	1,915	1,940	1,941
Washington	7	6	6	7	7	7	7	7	7	7	7	7	7

**TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939**

	1939
Number of establishments:	
Total for the industry	131
Reporting expenditures for plant and equipment	70
Value of products:	
Total for the industry	\$31,546,707
Reporting expenditures for plant and equipment	27,007,006
Expenditures for plant and equipment:	
Total for the industry	320,769
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	63,453
Expenditures for new machinery and operating equipment	248,805
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	17,445
Expenditures unclassified	66

**TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937**

	1939	1937
Inventories:		
Beginning of year, total	\$8,508,828	\$7,496,583
Finished products	4,691,849	3,882,363
Materials, supplies, etc.	3,816,979	3,664,220
End of year, total	8,380,899	8,228,380
Finished products	4,392,638	4,073,196
Materials, supplies, etc.	3,988,261	4,155,184
Value of products for the industry, total	31,546,707	30,879,281
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	31,107,715	28,851,393
Value for establishments not reporting inventories	438,992	2,027,888

**TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>**

	1939
Number of establishments	131
Number of establishments reporting power equipment	129
Prime movers, aggregate:	
Number	11
Horsepower	2,020
Prime movers, driving generators, total—	
Number	11
Horsepower	2,020
Steam engines—	
Number	7
Horsepower	1,140
Steam turbines—	
Number	3
Horsepower	845
Diesel and semi-Diesel engines—	
Number	1
Horsepower	35
Prime movers, driving generators, ordinarily idle (included above), horsepower	160
Generators, kilowatt rating, total	1,496
Generators, driven by—	
Steam engines, kilowatt rating	856
Steam turbines, kilowatt rating	625
Diesel and semi-Diesel engines, kilowatt rating	15
Generators, ordinarily idle (included above), kilowatt rating	100
Electric motors, total:	
Number	3,733
Horsepower	7,701
Driven by purchased energy—	
Number	3,049
Horsepower	6,111
Driven by energy generated in establishments reporting—	
Number	684
Horsepower	1,590
Electric energy (kilowatt-hours):	
Generated in plant	1,414,556
Purchased	5,398,204

<sup>1</sup> Comparable data for 1929 not available.

## MUSICAL INSTRUMENTS AND PARTS

[A preliminary report for these industries was issued December 14, 1940]

**Description of the industries.**—This report covers four industries, namely: (1) Pianos, (2) Organs, (3) Piano and Organ Parts and Materials, and (4) Musical Instruments, Parts, and Materials Not Elsewhere Classified. The first classification embraces establishments whose principal products are complete pianos. The second covers the manufacture of complete pipe organs, reed organs, and electric organs. The third is applied to establishments engaged in the manufacture of piano and organ materials and parts for sale as such. The products include piano strings, plates, keys, actions, keyboards, cases, back frames, pedal attachments, hammers, sounding boards, legs, and bridges;

organ reeds, pipes, stops, knobs, and reed boards; and perforated music rolls. The establishments in the fourth industry are engaged primarily in the manufacture of musical instruments other than pianos and organs, and of parts and materials for such instruments.

**State statistics.**—No figures can be given for the most important State in the Organ industry, Illinois, without disclosing data for individual establishments, and those States for which it is possible to publish separate figures without disclosing such data accounted for only a small percentage of the activity of this industry (as measured by number of wage earners employed) in the United States in 1939.

TABLE 1.—MUSICAL INSTRUMENTS AND PARTS SUBGROUP—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
<b>Total for the Musical Instruments and Parts subgroup:</b>							
1899.....	103	10,806	\$12,525,300	\$16,702,861	\$40,237,946	\$23,445,085	7,295
1937.....	187	11,971	14,088,699	17,161,361	43,265,354	20,103,993	( <sup>5</sup> )
<b>PIANOS INDUSTRY</b>							
1899.....	35	5,311	6,123,348	10,124,236	20,493,110	10,368,874	5,450
1937.....	38	5,698	7,062,299	9,766,777	21,708,055	11,936,278	( <sup>5</sup> )
1935.....	36	4,110	4,088,673	5,006,286	12,688,485	7,082,193	( <sup>5</sup> )
1933.....	36	2,700	2,381,694	2,826,287	7,242,819	4,414,532	( <sup>5</sup> )
1931.....	50	4,787	5,156,909	5,892,230	15,293,048	6,400,818	( <sup>5</sup> )
1929.....	81	9,970	14,000,826	18,866,437	42,501,375	23,634,988	13,165
1927.....	124	16,582	23,800,846	33,808,668	75,490,681	41,562,013	16,148
1925.....	142	20,079	28,066,207	49,295,043	101,180,777	51,886,134	15,135
1923.....	160	22,208	30,679,198	54,178,803	111,169,398	56,980,695	15,919
1921.....	185	15,836	18,887,126	38,651,096	73,639,912	34,987,916	( <sup>5</sup> )
1919.....	101	22,967	25,474,200	54,364,656	107,088,060	52,723,394	20,545
1914.....	255	23,877	15,704,679	29,091,045	62,775,035	33,683,990	21,491
1909.....	294	25,497	15,737,277	32,818,770	66,569,273	33,750,503	( <sup>5</sup> )
1904.....	249	21,002	12,170,251	19,687,770	46,922,471	27,334,701	16,401
<b>ORGANS INDUSTRY</b>							
1899.....	34	989	1,054,067	1,296,695	3,420,893	2,124,108	190
1937.....	34	1,086	1,235,128	1,474,413	4,636,921	3,162,508	( <sup>5</sup> )
1935.....	28	614	610,730	592,030	1,698,763	1,106,733	( <sup>5</sup> )
1933.....	29	574	510,269	387,173	1,626,804	1,230,631	( <sup>5</sup> )
1931.....	42	1,460	1,763,270	1,626,948	5,710,028	4,083,080	( <sup>5</sup> )
1929.....	62	2,389	3,603,631	3,090,676	11,322,736	8,232,060	1,000
1927.....	63	2,770	4,363,731	4,404,449	15,438,623	10,944,174	704
1925.....	57	2,460	3,609,686	3,748,942	12,283,089	8,534,147	790
1923.....	59	1,855	2,661,804	2,802,566	9,602,692	6,800,126	717
1921.....	56	2,346	3,342,795	3,730,917	10,184,864	6,453,987	( <sup>5</sup> )
1919.....	68	1,941	1,978,518	2,217,097	5,973,268	3,756,171	1,548
1914.....	85	3,063	1,993,415	2,659,980	6,297,348	3,637,369	1,989
1909.....	86	2,383	1,428,641	1,722,923	4,745,555	3,022,732	( <sup>5</sup> )
1904.....	94	3,623	2,034,569	2,068,638	6,041,844	3,973,206	3,646
<b>PIANO AND ORGAN PARTS AND MATERIALS INDUSTRY</b>							
1899.....	23	1,315	1,430,642	1,927,298	4,771,563	2,844,265	1,655
1937.....	32	1,778	1,715,968	4,977,795	2,114,006	2,863,789	( <sup>5</sup> )
1935.....	34	1,217	1,028,654	1,224,092	3,185,962	1,961,870	( <sup>5</sup> )
1933.....	33	768	627,402	584,480	1,732,193	1,147,713	( <sup>5</sup> )
1931.....	50	1,213	1,178,187	1,004,845	3,089,883	2,086,038	( <sup>5</sup> )
1929.....	67	3,090	3,597,210	4,247,919	11,883,098	7,635,179	5,955
1927.....	85	5,399	6,593,645	9,657,360	22,244,731	12,587,381	7,588
1925.....	94	8,618	10,131,137	15,293,635	36,836,238	21,542,603	7,875
1923.....	99	9,672	11,243,188	17,019,395	38,838,735	21,819,340	9,385
1921.....	89	5,669	5,969,804	8,221,840	18,597,436	10,375,593	( <sup>5</sup> )
1919.....	113	11,009	10,467,137	16,693,140	36,789,627	20,096,487	10,536
1914.....	138	10,616	5,664,667	9,501,766	19,875,762	10,373,996	11,547
1909.....	127	10,140	5,595,650	9,223,044	18,474,616	9,251,572	( <sup>5</sup> )
1904.....	101	8,456	4,322,268	6,330,219	13,128,315	6,798,098	7,190

See footnotes at end of table.

MUSICAL INSTRUMENTS AND PARTS

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TABLE 1.—MUSICAL INSTRUMENTS AND PARTS SUBGROUP—SUMMARY FOR THE UNITED STATES: 1899 TO 1939—Continued

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
MUSICAL INSTRUMENTS, PARTS, AND MATERIALS NOT ELSEWHERE CLASSIFIED							
1939	101	3,191	\$3,017,243	\$3,444,632	\$11,552,330	\$8,107,748	(7)
1937	83	3,406	4,075,304	3,806,165	11,947,533	8,141,418	(8)
1935	94	2,864	3,010,083	2,765,450	9,080,222	6,294,772	(9)
1933	72	2,064	1,677,843	1,623,070	5,113,618	3,489,948	(9)
1931	88	2,593	3,053,298	2,238,398	8,113,712	5,875,314	(9)
1929	106	3,176	4,580,720	3,825,204	14,274,078	10,448,784	10
1927	99	4,018	5,737,005	4,040,553	17,891,948	13,251,395	125
1925	100	4,556	6,619,956	5,575,183	20,329,301	14,754,118	126
1923	106	4,103	5,841,976	4,348,938	15,619,438	11,270,500	217
1921	110	3,424	4,520,020	3,325,345	12,353,778	9,028,433	(9)
1919	240	4,113	3,984,656	4,444,729	12,506,334	8,061,605	330
1914	241	1,831	1,160,512	1,022,584	3,624,667	2,602,083	1,079
1909	187	1,822	992,275	889,600	3,228,108	2,338,608	678
1904	181	2,139	1,162,068	1,120,939	3,481,710	2,351,771	1,003
1899	229	2,405	1,232,039	1,205,337	3,304,734	2,189,397	1,082

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

<sup>7</sup> None reported for 1939.

TABLE 2.—PIANOS INDUSTRY—GENERAL STATISTICS IN DETAIL, BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Indiana	New York	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	35	7	5	13	10
Proprietors and firm members.....	4	1		3	
Persons reported by manufacturing establishments, total <sup>3</sup> .....	5,987	1,942	386	1,804	1,796
Salaried officers of corporations <sup>4</sup> .....	48	10	12	16	10
Manufacturing:					
Salaried employees <sup>5</sup> .....	464	108	19	161	116
Wage earners (average for the year) <sup>4</sup> .....	5,311	1,703	318	1,654	1,637
Distribution.....	158	61	37	27	33
Construction.....	6			6	
Other.....					
Salaries and wages, total <sup>5</sup> .....	\$7,013,404	\$2,336,604	\$376,443	\$2,574,530	\$2,325,827
Salaried officers <sup>4</sup> .....	243,302	74,200	36,528	90,021	30,558
Manufacturing:					
Salaries <sup>5</sup> .....	867,950	219,654	17,180	326,300	304,726
Wages.....	6,123,348	1,898,733	282,371	2,051,243	1,611,001
Distribution.....	367,500	144,017	40,369	106,572	73,542
Construction.....	11,304			11,304	
Other.....					
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	10,124,236	2,701,527	612,095	4,000,433	2,720,181
Materials, supplies, and containers.....	9,815,904	2,609,956	677,870	3,994,222	2,633,856
Fuel.....	213,142	61,333	28,898	55,691	67,720
Purchased electric energy.....	94,051	30,238	5,827	39,981	18,605
Contract work.....	530			530	
Value of products.....	20,493,110	6,468,808	1,010,323	6,014,190	6,069,789
Value added by manufacture <sup>5</sup> .....	10,368,874	3,767,281	398,228	2,823,757	3,370,608

<sup>1</sup> Maryland, 1 establishment; Massachusetts, 2; Michigan, 3; New Jersey, 1; Ohio, 1; Pennsylvania, 2.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

## CENSUS OF MANUFACTURES: 1939

TABLE 3.—ORGANS INDUSTRY—GENERAL STATISTICS IN DETAIL, BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Ohio	Pennsylvania	Wisconsin	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	34	3	4	5	22
Proprietors and firm members.....	15	4	3	1	7
Persons reported by manufacturing establishments, total <sup>3</sup> .....	1,251	30	55	48	1,119
Salaried officers of corporations <sup>4</sup> .....	51	1	3	8	39
Manufacturing:					
Salaried employees <sup>5</sup> .....	88	2	4	2	80
Wage earners (average for the year) <sup>4</sup> .....	989	27	42	34	857
Distribution.....	123		6	4	113
Construction.....					
Other.....					
Salaries and wages, total <sup>3</sup> .....	\$1,555,936	\$30,501	\$63,159	\$51,264	\$1,421,012
Salaried officers <sup>3</sup> .....	155,282	2,250	2,704	11,984	138,344
Manufacturing:					
Salaries <sup>3</sup> .....	146,185	2,689	3,071	1,170	138,646
Wages.....	1,054,067	25,562	36,981	34,037	957,487
Distribution.....	200,402		0,803	4,064	186,535
Construction.....					
Other.....					
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	1,206,695	21,819	36,242	32,575	1,206,050
Materials, supplies, and containers.....	1,217,345	20,772	34,639	30,506	1,131,428
Fuel.....	30,189	305	878	771	28,235
Purchased electric energy.....	29,084	572	725	1,298	26,489
Contract work.....	20,077	170			19,607
Value of products.....	3,420,893	69,633	120,721	101,331	3,120,203
Value added by manufacture <sup>5</sup> .....	2,124,198	47,814	84,479	68,756	1,923,149

<sup>1</sup> California, 2 establishments; Connecticut, 2; Illinois, 5; Indiana, 1; Kansas, 1; Kentucky, 1; Maryland, 1; Massachusetts, 3; Missouri, 2; New Jersey, 1; New York, 2; Vermont, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 4.—PIANO AND ORGAN PARTS AND MATERIALS INDUSTRY—GENERAL STATISTICS IN DETAIL, BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	New York	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	23	4	6	3	10
Proprietors and firm members.....	2				2
Persons reported by manufacturing establishments, total <sup>3</sup> .....	1,501	361	240	51	840
Salaried officers of corporations <sup>4</sup> .....	38	10	9	5	14
Manufacturing:					
Salaried employees <sup>5</sup> .....	98	27	13	4	54
Wage earners (average for the year) <sup>4</sup> .....	1,315	321	223	37	734
Distribution.....	46	3	4	5	38
Construction.....	5				5
Other.....					
Salaries and wages, total <sup>3</sup> .....	\$1,044,840	\$480,368	\$358,715	\$70,225	\$1,035,532
Salaried officers <sup>3</sup> .....	213,138	53,784	80,454	17,157	61,743
Manufacturing:					
Salaries <sup>3</sup> .....	243,737	82,215	37,303	5,100	119,119
Wages.....	1,430,042	337,989	235,975	41,073	814,705
Distribution.....	48,362	6,380	4,083	5,995	31,004
Construction.....	8,061				8,061
Other.....					
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	1,027,298	386,855	362,785	98,490	1,079,168
Materials, supplies, and containers.....	1,829,883	366,777	352,029	95,421	1,015,656
Fuel.....	56,209	13,525	5,238	970	36,566
Purchased electric energy.....	40,291	6,553	6,518	1,274	26,046
Contract work.....	825			825	
Value of products.....	4,771,563	1,003,732	1,048,120	182,049	2,536,732
Value added by manufacture <sup>5</sup> .....	2,844,265	616,877	685,335	84,459	1,457,594

<sup>1</sup> Connecticut, 1 establishment; Maryland, 1; Massachusetts, 2; New Jersey, 1; Ohio, 3; Washington, 1; Wisconsin, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

MUSICAL INSTRUMENTS AND PARTS

TABLE 5.—MUSICAL INSTRUMENTS, PARTS, AND MATERIALS NOT ELSEWHERE CLASSIFIED—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Indiana	Massachusetts	Michigan	New Jersey	New York	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	101	7	25	12	8	7	5	23	14
Proprietors and firm members.....	64	11	19	6	2	5	4	11	6
Persons reported by manufacturing establishments, total <sup>3</sup> .....	4,104	80	325	1,480	324	312	127	328	630
Salaried officers of corporations <sup>3</sup> .....	117	4	31	14	12	6	9	25	16
Manufacturing:									
Salaried employees <sup>3</sup> .....	401	7	75	104	49	13	12	18	33
Wage earners (average for the year) <sup>4</sup> .....	3,191	68	670	1,107	268	254	102	230	504
Distribution.....	370	1	49	148	5	39	1	55	72
Construction.....	25			17			3		5
Other.....									
Salaries and wages, total <sup>5</sup> .....	\$5,710,088	\$102,407	\$1,015,960	\$2,204,440	\$370,291	\$349,689	\$159,231	\$503,275	\$1,004,889
Salaried officers <sup>3</sup> .....	539,108	16,300	121,306	93,537	61,832	21,240	51,061	103,925	79,767
Manufacturing:									
Salaries <sup>3</sup> .....	599,994	9,229	130,261	314,124	20,448	12,139	15,177	38,020	60,596
Wages.....	3,017,243	76,477	688,828	1,511,010	282,174	265,089	86,066	283,789	742,001
Distribution.....	622,329	401	75,475	264,452	15,787	61,121	794	97,541	116,758
Construction.....	31,414			21,314			5,233		4,867
Other.....									
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	3,444,032	91,982	927,231	1,015,073	186,127	279,038	112,969	399,061	433,161
Materials, supplies, and containers.....	3,218,241	88,133	875,344	949,034	164,046	258,392	106,938	367,016	409,288
Fuel.....	68,371	421	12,715	26,776	3,454	5,281	3,179	1,174	10,371
Purchased electric energy.....	105,658	1,395	23,450	34,648	6,432	8,907	2,852	10,248	12,721
Contract work.....	57,367	1,983	10,722	4,615	12,195	6,458		20,623	771
Value of products.....	11,552,380	261,305	2,441,146	4,194,129	719,081	699,880	311,834	1,053,087	1,871,918
Value added by manufacture <sup>5</sup> .....	8,107,748	169,323	1,513,915	3,179,056	632,954	420,842	198,865	654,026	1,438,767

<sup>1</sup> Connecticut, 2 establishments; Maryland, 1; Missouri, 1; Ohio, 4; Pennsylvania, 3; Rhode Island, 1; Wisconsin, 2.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 6.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Musical instruments and parts industry, all products, total value.....	\$40,237,946	\$43,265,354
Musical instruments and parts.....	38,231,677	41,516,772
Other products (not classified in these industries).....	1,258,560	1,080,923
Receipts for contract and repair work.....	747,689	667,659
Musical instruments and parts, aggregate value.....	38,770,567	41,732,419
Musical instruments and parts made in these industries.....	38,231,677	41,516,772
Musical instruments and parts made as secondary products in other industries.....	547,890	215,647

<sup>1</sup> Instrument cases, benches and stools, wire products, etc.

TABLE 7.—PRODUCTS OF THE MUSICAL INSTRUMENTS AND PARTS SUBGROUP, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Musical instruments and parts, aggregate value.....	\$38,770,567	\$41,732,419
Complete musical instruments, total value.....	\$31,194,862	\$33,877,956
Pianos:		
Total number.....	111,245	103,110
Total value.....	\$18,031,038	\$19,567,879
Upright—		
Number.....	18,658	27,370
Value.....	\$2,380,283	\$3,239,113
Vertical or console models with conventional action—		
Number.....	29,847	15,487
Value.....	\$4,453,840	\$2,418,378
Vertical console models, flat top, drop action—		
Number.....	46,700	32,385
Value.....	\$6,451,342	\$4,821,386
Grand—		
Under 5 feet in length—		
Number.....	8,359	12,842
Value.....	\$1,945,703	\$2,583,461
5 feet to 6 feet in length—		
Number.....	7,230	14,357
Value.....	\$2,567,084	\$5,966,893
Over 6 feet in length—		
Number.....	451	689
Value.....	\$232,186	\$533,643

See footnotes at end of table.

TABLE 7.—PRODUCTS OF THE MUSICAL INSTRUMENTS AND PARTS SUBGROUP, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Complete musical instruments—Continued.		
Organs:		
Pipe—		
Number.....		640
Value.....	\$2,032,087	
Reed (except reed organs with electric tone amplification)—		
Number.....	2,129	26,840
Value.....	(9)	\$4,781,088
Electric musical instruments (including electronic instruments with electric tone amplification):		
Number.....	41,702	
Value.....	\$2,095,737	
Wind instruments, except organs, total value.....	\$6,034,825	\$5,973,648
Accordions, total value.....	\$958,767	\$1,324,892
Less than 120 bass—		
Number.....	771	2,174
Value.....	\$50,900	\$103,075
120 bass and over—		
Number.....	5,388	9,048
Value.....	\$598,807	\$1,221,817
Cup-mouthpiece instruments, total value.....	\$2,787,120	\$2,390,943
Cornets and trumpets—		
Number.....	48,175	39,204
Value.....	\$1,427,639	\$1,240,292
Trombones—		
Number.....	15,696	12,348
Value.....	\$504,856	\$426,618
Other—		
Number.....	39,129	18,608
Value.....	\$854,625	\$724,033
Saxophones—		
Number.....	16,697	18,500
Value.....	\$842,976	\$1,053,925
Clarinets—		
Number.....	52,573	43,605
Value.....	\$1,156,591	\$924,331
Other wind instruments—		
Number.....	13,917	23,482
Value.....	\$239,371	\$279,557
Stringed instruments, except pianos, total value.....	\$1,532,317	\$2,461,902
Banjos—		
Number.....	5,214	11,909
Value.....	\$42,704	\$105,048
Guitars—		
Number.....	187,270	335,739
Value.....	\$1,111,785	\$1,795,262

TABLE 7.—PRODUCTS OF THE MUSICAL INSTRUMENTS AND PARTS SUBGROUP, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Complete musical instruments—Continued.		
Stringed instruments, etc.—Continued.		
Mandolins—		
Number.....	19,350	22,333
Value.....	\$93,162	\$121,672
Ukuleles—		
Number.....	46,922	98,474
Value.....	\$58,612	\$102,687
Other stringed instruments (including violins, cellos, harps, etc.), value.....	\$220,074	\$337,333
Percussion instruments:		
Total number.....	72,109	54,281
Total value.....	\$1,468,858	\$1,093,439
Drums—		
Number.....	52,391	43,833
Value.....	\$820,027	\$560,036
Other (bells, chimes, xylophones, etc.)—		
Number.....	19,718	10,448
Value.....	\$642,831	\$533,403
Accessories, parts, and materials, total value.....	\$7,328,421	\$7,569,895
Accessories, such as reeds, mouthpieces, music stands, drummers' traps, etc., made for sale as such.....	\$1,096,991	\$1,451,459
Parts and accessories, for sale as such, used only with electric musical instruments (loud speakers, amplifiers, microphones, etc.).....	\$92,409	(5)

TABLE 7.—PRODUCTS OF THE MUSICAL INSTRUMENTS AND PARTS SUBGROUP, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Accessories, parts, and materials—Continued.		
Parts and materials for musical instruments other than pianos and organs, made for sale as such, total value.....	\$902,512	\$1,097,520
Strings:		
Gut.....	\$330,705	\$610,674
Metal.....	\$377,865	\$486,855
Other parts and materials.....	\$193,042	\$486,855
Piano and organ parts and materials made for sale as such, total value.....	\$5,236,509	\$5,020,907
Piano parts and materials, total value.....	\$4,982,608	\$4,482,125
Actions and strings for pianos.....	\$1,400,534	\$1,408,798
Other parts and materials, including tuning pins, value.....	\$3,582,074	\$3,073,327
Organ parts and materials, value.....	\$253,901	\$538,782
Other musical instruments and parts not specified above, value.....	\$256,284	\$284,568

1 Includes a negligible amount reported as value of reed organs which cannot be shown separately without disclosing operations of individual establishments.  
 2 Data for pipe, reed, and electronic organs combined to avoid disclosing, exactly or approximately, production reported by individual establishments.  
 3 Included in value of pipe organs.  
 4 Statistics for electric organs, pianos, guitars, etc., combined to avoid disclosing production of individual establishments.  
 5 Not called for separately on schedule.  
 6 Includes value of perforated music rolls to avoid disclosing data reported by individual establishments.

TABLE 8.—MUSICAL INSTRUMENTS AND PARTS SUBGROUP—WAGE EARNERS BY INDUSTRIES ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>PIANOS INDUSTRY</b>													
United States:													
1939.....	5,311	5,154	5,156	5,188	5,125	5,031	4,920	4,956	5,158	5,461	5,776	5,884	5,917
1937.....	5,698	5,443	5,399	5,504	5,606	5,611	5,043	5,673	5,372	6,070	6,003	5,843	5,642
1929.....	9,970	10,028	10,573	10,273	10,032	9,559	9,348	9,220	9,945	10,130	10,626	10,479	8,825
Illinois.....	1,703	1,624	1,639	1,621	1,618	1,609	1,578	1,565	1,672	1,794	1,897	1,895	1,919
Indiana.....	318	290	302	313	281	289	287	281	293	317	371	300	361
Michigan.....	481	467	472	474	466	454	452	446	453	463	522	554	563
New York.....	1,654	1,679	1,669	1,687	1,649	1,571	1,509	1,506	1,645	1,689	1,747	1,787	1,813
<b>ORGANS INDUSTRY</b>													
United States:													
1939.....	989	1,006	1,024	965	978	958	942	968	1,002	1,031	1,033	1,031	1,031
1937.....	1,086	1,042	1,051	1,074	938	934	961	1,113	1,186	1,136	1,198	1,220	1,181
1929.....	2,389	2,487	2,476	2,466	2,409	2,351	2,345	2,372	2,360	2,390	2,367	2,352	2,298
Illinois.....	62	305	304	346	352	352	345	322	343	338	333	332	389
Massachusetts.....	79	97	88	83	82	77	74	77	78	79	77	71	62
Ohio.....	27	35	32	32	29	25	20	22	22	22	26	31	29
Pennsylvania.....	42	33	38	34	31	30	30	40	53	55	56	51	50
Wisconsin.....	34	31	31	30	32	31	32	36	36	37	38	38	31
<b>PIANO AND ORGAN PARTS AND MATERIALS INDUSTRY</b>													
United States:													
1939.....	1,315	1,308	1,319	1,333	1,326	1,308	1,299	905	1,282	1,351	1,447	1,470	1,428
1937.....	1,778	1,400	1,706	1,774	1,872	1,784	1,774	1,827	1,871	1,929	1,974	1,752	1,671
1929.....	3,090	3,506	3,434	3,267	3,105	2,901	2,767	2,543	2,982	3,166	3,277	3,268	2,870
Illinois.....	321	273	304	319	318	318	320	315	321	330	348	363	322
New York.....	223	203	211	215	217	220	219	217	220	227	243	240	238
Ohio.....	153	156	155	161	152	149	152	72	156	171	169	177	180
Pennsylvania.....	37	31	37	39	38	43	42	38	38	36	34	36	37
<b>MUSICAL INSTRUMENTS, PARTS, AND MATERIALS NOT ELSEWHERE CLASSIFIED INDUSTRY</b>													
United States:													
1939.....	3,191	3,055	3,076	3,119	3,110	3,071	3,076	3,084	3,184	3,339	3,424	3,423	3,385
1937.....	3,409	3,428	3,390	3,365	3,381	3,370	3,412	3,365	3,453	3,504	3,537	3,444	3,269
1929.....	3,176	3,487	3,368	3,262	3,169	3,068	2,972	2,875	3,034	3,124	3,261	3,314	3,174
California.....	68	64	66	68	68	68	65	64	64	64	72	74	76
Illinois.....	670	723	726	728	714	661	639	624	620	659	631	651	662
Indiana.....	1,107	979	993	1,016	1,034	1,055	1,096	1,111	1,159	1,209	1,217	1,224	1,180
Massachusetts.....	258	242	234	231	237	242	230	194	269	281	297	321	312
Michigan.....	264	233	248	268	268	264	247	253	252	258	263	262	263
New Jersey.....	102	105	101	100	97	88	89	92	98	104	115	115	114
New York.....	230	234	238	242	241	223	221	217	225	232	247	222	224
Ohio.....	338	333	329	330	314	330	333	326	335	346	371	351	356
Pennsylvania.....	88	84	84	84	83	83	83	83	83	47	47	47	47

TABLE 9.—MUSICAL INSTRUMENTS AND PARTS SUBGROUP—EXPENDITURES FOR PLANT AND EQUIPMENT BY INDUSTRIES: 1939

	Pianos industry	Organs industry	Piano and Organ Parts and Materials industry	Musical Instruments, Parts, and Materials not Elsewhere Classified industry
Number of establishments:				
Total for the industry.....	35	34	23	101
Reporting expenditures for plant and equipment.....	19	15	15	53
Value of products:				
Total for the industry.....	\$20,493,110	\$3,420,893	\$4,771,563	\$11,552,380
Reporting expenditures for plant and equipment.....	18,214,058	2,790,453	4,021,522	9,463,483
Expenditures for plant and equipment:				
Total for the industry.....	117,528	43,601	136,318	192,964
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	48,425	2,660	38,445	26,194
Expenditures for new machinery and operating equipment.....	65,265	34,066	92,080	153,413
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	3,838	6,875	4,893	13,357

TABLE 10.—MUSICAL INSTRUMENTS AND PARTS SUBGROUP—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS BY INDUSTRIES: 1939 AND 1937

	PIANOS INDUSTRY		ORGANS INDUSTRY		PIANO AND ORGAN PARTS AND MATERIALS INDUSTRY		MUSICAL INSTRUMENTS, PARTS, AND MATERIALS NOT ELSEWHERE CLASSIFIED INDUSTRY	
	1939	1937	1939	1937	1939	1937	1939	1937
Inventories:								
Beginning of year, total.....	\$7,350,551	\$6,679,772	\$1,225,919	\$1,055,778	\$954,625	\$1,019,897	\$2,708,679	\$2,635,347
Finished products.....	848,281	766,635	274,251	334,158	159,822	124,902	745,917	679,210
Materials, supplies, etc.....	6,502,270	5,913,137	951,668	721,620	794,803	894,935	1,062,762	1,956,137
End of year, total.....	7,179,110	8,113,268	1,135,945	1,170,010	1,103,093	1,315,436	2,974,513	2,825,868
Finished products.....	703,619	1,229,389	281,867	383,183	184,195	243,639	318,769	717,168
Materials, supplies, etc.....	6,415,491	6,883,879	854,078	786,827	918,898	1,071,797	2,155,744	2,108,700
Value of products for the industry, total.....	20,493,110	21,703,055	3,420,893	4,636,921	4,771,563	4,977,795	11,552,380	11,047,583
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	20,482,921	21,433,040	3,296,494	4,350,520	4,690,104	4,751,823	11,433,508	11,799,194
Value for establishments not reporting inventories.....	10,189	270,015	124,399	286,401	81,459	225,972	118,872	148,389

## CENSUS OF MANUFACTURES: 1939

TABLE 11.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	PIANOS INDUSTRY		ORGANS INDUSTRY		PIANO AND ORGAN PARTS AND MATERIALS INDUSTRY		MUSICAL INSTRUMENTS, PARTS, AND MATERIALS NOT ELSEWHERE CLASSIFIED INDUSTRY	
	1939	1929	1939	1929	1939	1929	1939	1929
Number of establishments.....	35	81	34	62	23	67	101	106
Number of establishments reporting power equipment.....	34	77	33	61	23	64	101	101
Prime movers, aggregate:								
Number.....	24	60	4	8	6	138		4
Horsepower.....	5,460	13,165	190	1,000	1,655	15,955		19
Prime movers, driving generators, total—								
Number.....	15	160		18	5	138		
Horsepower.....	4,270	13,165		1,000	1,580	15,955		
Steam engines—								
Number.....	13	151		17	4	124		
Horsepower.....	3,825	11,930		985	1,430	15,405		
Steam turbines—								
Number.....	2	18			1	15		
Horsepower.....	445	1,030			150	175		
Diesel and semi-Diesel engines—								
Number.....								
Horsepower.....								
Other internal-combustion engines <sup>1</sup> —								
Number.....		11		11		13		
Horsepower.....		175		115		130		
Hydroturbines and water wheels—								
Number.....						16		
Horsepower.....						245		
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	345							
Prime movers not driving generators, total—								
Number.....	9		4		1			4
Horsepower.....	1,180		190		75			19
Steam engines—								
Number.....	9		2					1
Horsepower.....	1,180		150					3
Diesel and semi-Diesel engines—		( <sup>2</sup> )		( <sup>2</sup> )		( <sup>2</sup> )		
Number.....								
Horsepower.....								
Other internal-combustion engines <sup>1</sup> —								3
Number.....								
Horsepower.....			1		1			16
Hydroturbines and water wheels—								
Number.....								
Horsepower.....			25					
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	250	( <sup>2</sup> )						
Generators, kilowatt rating, total.....	3,106	6,510		480	1,040	1,776		
Generators, driven by—								
Steam engines, kilowatt rating.....	2,776	( <sup>2</sup> )		( <sup>2</sup> )	940	( <sup>2</sup> )		
Steam turbines, kilowatt rating.....	330	( <sup>2</sup> )		( <sup>2</sup> )	100	( <sup>2</sup> )		
Generators, ordinarily idle (included above), kilowatt rating.....	256	( <sup>2</sup> )		( <sup>2</sup> )		( <sup>2</sup> )		( <sup>2</sup> )
Electric motors, total:								
Number.....	2,253	4,625	1,079	1,213	1,267	2,047	2,082	2,405
Horsepower.....	10,411	25,941	2,655	3,910	5,263	9,833	5,196	6,041
Driven by purchased energy—								
Number.....	1,262	2,823	1,079	1,166	494	952	2,082	2,405
Horsepower.....	5,386	14,028	2,655	3,740	2,652	5,144	5,196	6,041
Driven by energy generated in establishments reporting—								
Number.....	991	1,803		47	773	1,095		
Horsepower.....	5,025	12,913		170	2,611	4,689		
Electric energy (kilowatt-hours):								
Generated in plant.....	2,328,276	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,321,250	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Purchased.....	4,242,091	7,400,953	1,072,212	1,471,758	2,424,461	4,065,913	4,142,280	3,840,433

<sup>1</sup> Includes data for prime movers not driving generators.<sup>2</sup> Gas, gasoline, etc.<sup>3</sup> Not called for on schedule.<sup>4</sup> Data not available.

**GAMES AND TOYS (EXCEPT DOLLS AND CHILDREN'S VEHICLES)  
DOLLS (EXCEPT RUBBER)  
CHILDREN'S VEHICLES**

[A preliminary report for these industries was issued December 7, 1940]

Because of a considerable amount of overlapping of the products of the "Games and toys (except dolls and children's vehicles)" industry, the "Dolls (except rubber)" industry, and the "Children's vehicles" industry, combined statistics for the three industries are given in tables 1, 5, and 6 of this report.

**Description of the industries.**—The "Games and toys (except dolls and children's vehicles)" industry embraces establishments primarily engaged in the manufacture of games (both for adults and for children), except playing cards and apparatus classified

as "sporting and athletic"; toys of all kinds (except dolls), such as mechanical toys, airplanes (mechanical and other), wooden toys; air rifles and pop guns. The "Dolls (except rubber)" industry includes establishments primarily engaged in the manufacture of dolls and doll parts (except rubber), and doll clothing. The establishments classified in "Children's vehicles" industry are primarily engaged in the manufacture of baby and doll carriages, gocarts, velocipedes, and tricycles; children's wagons, automobiles, and sleds; and certain other classes of children's wheel goods.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
<b>TOTAL FOR THE INDUSTRIES</b>							
1939.....	471	22,981	\$20,206,341	\$41,267,579	\$80,650,677	\$45,383,098	5,073
1937.....	378	22,509	20,101,241	37,912,309	81,445,227	43,532,918	( <sup>5</sup> )
<b>GAMES AND TOYS (EXCEPT DOLLS AND CHILDREN'S VEHICLES)</b>							
1939.....	343	15,610	12,656,729	24,900,824	55,400,894	30,491,070	3,798
1937.....	260	14,608	12,420,511	21,638,074	50,590,744	28,951,770	( <sup>5</sup> )
<b>DOLLS (EXCEPT RUBBER)</b>							
1939.....	84	3,052	2,830,614	6,417,532	12,132,373	5,714,841	( <sup>6</sup> )
1937.....	74	2,682	2,310,292	6,313,635	11,100,030	4,885,495	( <sup>6</sup> )
<b>CHILDREN'S VEHICLES</b>							
1939.....	44	4,319	4,712,098	9,940,223	19,117,410	9,177,187	1,276
1937.....	54	5,218	5,415,438	9,959,800	19,055,453	9,695,053	( <sup>6</sup> )
1935.....	55	4,018	4,359,817	7,431,519	15,511,111	8,079,592	( <sup>7</sup> )
1933.....	46	3,971	2,877,480	5,670,700	10,084,991	5,314,291	( <sup>6</sup> )
1931.....	59	4,159	4,470,403	7,090,608	16,760,370	9,678,771	( <sup>6</sup> )
1929.....	79	7,102	8,313,356	13,514,787	28,817,860	15,303,073	3,295
1927.....	89	7,030	7,813,648	13,895,086	28,068,145	14,773,050	3,430
1925.....	86	6,926	7,923,304	13,553,184	30,173,501	16,620,317	3,598
1923.....	100	8,324	8,850,198	15,935,678	34,172,976	18,237,295	3,348
1921.....	89	6,460	5,577,906	9,517,303	21,716,839	12,199,536	( <sup>6</sup> )
1919.....	103	6,686	6,220,038	11,700,158	24,500,596	12,806,438	2,945
1914.....	92	5,900	3,180,705	5,632,489	11,751,623	6,095,134	4,020
1909.....	84	5,300	2,216,861	4,128,874	8,805,129	4,076,255	4,244
1904.....	78	4,003	1,782,984	2,840,462	6,370,911	3,530,449	3,520
1899.....	77	2,726	1,080,296	1,996,070	4,289,695	2,293,625	2,450

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include the cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> None reported for 1939.

<sup>7</sup> Data not available.

## CENSUS OF MANUFACTURES: 1939

TABLE 2.—GAMES AND TOYS (EXCEPT DOLLS AND CHILDREN'S VEHICLES)—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Maryland	Massachusetts	Michigan	Missouri
Number of establishments <sup>1</sup>	343	18	16	35	6	5	20	18	11
Proprietors and firm members	217	21	5	33	1	3	6	8	5
Persons reported by manufacturing establishments, total <sup>2</sup>	18,251	177	1,244	2,665	619	142	1,552	1,078	234
Salaried officers of corporations <sup>3</sup>	340	11	24	35	9	5	24	24	11
Manufacturing:									
Salaried employees <sup>3</sup>	1,402	28	107	188	53	26	135	89	20
Wage earners (average for the year) <sup>3</sup>	15,610	124	1,035	2,219	540	108	1,316	927	176
Distribution	871	18	69	222	14	3	73	38	27
Construction	28	1	9	1	3		4		
Other									
Salaries and wages, total <sup>2</sup>	\$18,268,523	\$198,772	\$1,207,682	\$2,640,515	\$593,145	\$153,884	\$1,628,588	\$1,438,978	\$221,687
Salaried officers <sup>3</sup>	1,909,638	29,375	117,765	336,022	76,840	34,921	151,190	162,517	58,895
Manufacturing:									
Salaries <sup>3</sup>	2,176,959	27,416	140,273	288,169	64,722	26,152	220,987	179,133	16,561
Wages	12,659,729	114,768	845,570	1,592,018	427,704	90,138	1,095,774	1,038,585	122,393
Distribution	1,480,561	20,929	94,066	421,080	21,034	2,673	153,223	58,743	23,838
Construction	38,636	284	10,008	3,220	3,795		7,414		
Other									
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	24,909,824	273,390	1,319,568	2,678,573	780,334	150,973	1,634,067	1,800,042	308,839
Materials, supplies, and containers	24,196,954	245,193	1,276,444	2,593,544	754,230	145,770	1,571,899	1,759,738	302,008
Fuel	280,537	577	22,711	22,506	10,952	3,782	18,710	18,147	2,846
Purchased electric energy	865,202	2,735	17,628	59,599	15,152	1,421	34,678	27,955	3,849
Contract work	67,131	24,885	2,885	2,924			8,780	202	333
Value of products	55,400,894	733,695	3,004,969	7,050,784	1,720,817	387,050	4,051,290	4,345,737	655,382
Value added by manufacture <sup>4</sup>	30,491,070	400,805	2,285,401	4,372,211	940,483	236,077	2,417,223	2,539,095	346,546

  

ITEM	New Hampshire	New Jersey	New York	Ohio	Pennsylvania	Rhode Island	West Virginia	Wisconsin	Other States <sup>5</sup>
Number of establishments <sup>1</sup>	5	16	109	22	30	4	5	7	16
Proprietors and firm members	2	4	80	3	28		1	4	11
Persons reported by manufacturing establishments, total <sup>2</sup>	220	1,892	2,879	1,059	2,486	69	805	235	895
Salaried officers of corporations <sup>3</sup>	7	24	90	26	21	4	5	7	13
Manufacturing:									
Salaried employees <sup>3</sup>	27	172	184	81	184	9	46	18	40
Wage earners (average for the year) <sup>3</sup>	179	1,662	2,395	913	2,230	50	749	203	784
Distribution	7	30	210	36	51	6	4	5	68
Construction		4		3			1	2	
Other									
Salaries and wages, total <sup>2</sup>	\$190,521	\$1,969,717	\$2,938,598	\$903,581	\$2,403,243	\$52,587	\$730,414	\$198,520	\$708,091
Salaried officers <sup>3</sup>	15,912	178,744	390,270	89,833	120,869	11,334	32,652	37,365	71,134
Manufacturing:									
Salaries <sup>3</sup>	43,342	333,890	270,687	111,408	298,784	8,990	88,132	16,880	41,433
Wages	123,287	1,369,126	1,989,747	744,034	1,875,129	28,945	593,030	135,506	480,075
Distribution	7,980	95,922	287,894	44,895	108,401	3,318	13,900	7,100	115,449
Construction		7,035		3,411			1,800	1,069	
Other									
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	219,546	2,250,692	6,150,067	1,687,531	3,550,111	79,113	1,030,458	193,889	796,634
Materials, supplies, and containers	212,511	2,182,612	6,072,508	1,633,096	3,462,551	77,390	949,749	182,687	775,124
Fuel	4,346	29,265	14,102	24,113	37,574	152	61,328	4,251	5,175
Purchased electric energy	2,689	38,816	50,075	22,429	47,628	1,571	19,381	6,522	13,375
Contract work			13,382	7,893	2,368			529	2,960
Value of products	526,082	6,108,627	11,172,072	3,215,403	6,943,268	163,404	2,039,095	491,143	2,187,076
Value added by manufacture <sup>4</sup>	306,536	3,857,935	5,022,005	1,527,872	3,393,157	89,291	1,008,637	297,254	1,390,442

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.<sup>4</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.<sup>5</sup> Alabama, 2 establishments; Georgia, 2; Iowa, 1; Kansas, 1; Kentucky, 1; Louisiana, 1; Maine, 1; Minnesota, 2; North Carolina, 1; Oregon, 1; South Carolina, 1; Tennessee, 1; Virginia, 1.

GAMES AND TOYS; DOLLS; CHILDREN'S VEHICLES

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TABLE 3.—DOLLS (EXCEPT RUBBER)—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Massachusetts	New Jersey	New York	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	84	3	6	71	4
Proprietors and firm members.....	53	1	1	49	3
Persons reported by manufacturing establishments, total <sup>3</sup> .....	3,471	682	654	2,009	37
Salaried officers of corporations <sup>4</sup> .....	92	6	10	74	2
Manufacturing:					
Salaried employees <sup>4</sup> .....	197	28	44	124	1
Wage earners (average for the year) <sup>4</sup> .....	3,052	619	579	1,822	33
Distribution.....	124	28	17	78	1
Construction.....	6	1	4	1	
Salaries and wages, total <sup>5</sup> .....	\$3,754,215	\$631,025	\$665,350	\$2,430,883	\$26,957
Salaried officers <sup>4</sup> .....	389,873	64,091	76,570	240,273	2,939
Manufacturing:					
Salaries <sup>4</sup> .....	287,088	38,863	63,784	183,426	1,015
Wages.....	2,836,614	491,566	496,658	1,836,687	21,703
Distribution.....	232,676	34,361	33,250	163,745	1,300
Construction.....	7,064	2,124	5,088	752	
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	6,417,532	733,010	581,532	5,076,118	26,863
Materials, supplies, and containers.....	6,153,186	608,297	550,074	4,879,117	25,698
Fuel.....	56,683	16,083	9,177	30,779	644
Purchased electric energy.....	97,994	18,639	8,005	70,739	521
Contract work.....	109,659		14,186	95,483	
Value of products.....	12,132,373	1,530,986	1,501,409	9,034,870	65,108
Value added by manufacture <sup>6</sup> .....	5,714,841	797,967	919,877	3,958,752	38,245

<sup>1</sup> California, 1 establishment; Connecticut, 2; Pennsylvania, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 4.—CHILDREN'S VEHICLES—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Massachusetts	New York	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	44	5	10	10	3	16
Proprietors and firm members.....	10			7	2	1
Persons reported by manufacturing establishments, total <sup>3</sup> .....	4,952	489	1,429	388	28	2,616
Salaried officers of corporations <sup>4</sup> .....	77	11	26	13	1	26
Manufacturing:						
Salaried employees <sup>4</sup> .....	371	23	117	27	4	200
Wage earners (average for the year) <sup>4</sup> .....	4,319	406	1,218	324	23	2,346
Distribution.....	176	49	68	18		40
Construction.....	10			6		4
Other.....						
Salaries and wages, total <sup>5</sup> .....	\$6,171,659	\$698,771	\$1,805,914	\$514,025	\$22,157	\$3,130,192
Salaried officers <sup>4</sup> .....	505,463	100,120	173,462	53,676	1,530	176,686
Manufacturing:						
Salaries <sup>4</sup> .....	604,296	70,766	203,601	48,677	4,243	277,199
Wages.....	4,712,988	454,373	1,302,847	369,761	10,884	2,569,638
Distribution.....	333,822	73,512	126,114	54,877		99,319
Construction.....	15,080			7,635		7,445
Other.....						
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	9,940,223	1,367,753	2,330,244	1,027,104	54,020	5,151,202
Materials, supplies, and containers.....	9,637,513	1,333,628	2,254,268	1,005,143	53,200	4,991,175
Fuel.....	77,936	9,552	18,600	9,879	488	39,447
Purchased electric energy.....	120,215	19,119	27,478	12,082	1,133	60,403
Contract work.....	104,559	5,474	38,908			60,177
Value of products.....	19,117,410	2,670,806	4,713,450	1,798,315	101,761	9,833,573
Value added by manufacture <sup>6</sup> .....	9,177,187	1,302,558	2,374,206	771,211	46,841	4,882,376

<sup>1</sup> Indiana, 2 establishments; Michigan, 2; Minnesota, 2; Missouri, 3; New Jersey, 1; Ohio, 5; Wisconsin, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

## CENSUS OF MANUFACTURES: 1939

TABLE 5.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
"Games and Toys (Except Dolls and Children's Vehicles)," "Dolls (Except Rubber)," and "Children's Vehicles" industries, all products, total value.....	\$86,650,677	\$81,445,227
Games and toys, dolls, and children's vehicles.....	77,286,928	74,808,383
Miscellaneous products not specified.....	1,835,930	6,518,147
Other products (not classified in these industries).....	1,402,528	
Receipts for contract and repair work.....	125,241	28,607
Games and toys, etc., dolls, and children's vehicles, aggregate value.....	89,041,048	87,886,893
Games and toys, dolls, and children's vehicles made in these industries.....	77,286,928	74,808,383
Games and toys, dolls, and children's vehicles made as secondary products in other industries..	12,354,720	12,088,510

<sup>1</sup> Value of furniture (juvenile and other), school supplies, playing cards, nursery sets, glass novelties, etc.

TABLE 6.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Aggregate value.....	\$89,641,648	\$87,886,893
Games and toys, total value.....	\$57,026,474	\$55,574,280
Games, total value <sup>1</sup> .....	\$9,343,133	\$9,508,635
Dominoes, checkers, and chessmen.....	\$696,764	\$203,020
Dice, poker chips, etc.....	\$758,363	\$834,259
Punchboard games.....	\$2,318,109	\$2,124,188
Other games.....	\$5,569,897	\$6,347,168
Toys, total value.....	\$47,683,341	\$46,065,651
Toys made of cellulose compounds.....	\$542,671	\$308,245
Stuffed toy animals.....	\$3,934,248	\$3,551,553
Musical toys.....	\$458,209	( <sup>2</sup> )
Metal toys, other than mechanical, not elsewhere classified.....	\$11,736,527	\$9,656,421
Mechanical toys propelled by springs or by electricity, total value.....	\$7,271,351	\$8,975,605
Trains and equipment:		
Number reported—		
Number.....	2,835,887	1,137,320
Value.....	\$4,799,771	\$5,301,213
Number not reported, value.....		\$37,352
Airplanes, mechanical:		
Number.....	1,258,984	( <sup>2</sup> )
Value.....	\$388,465	( <sup>2</sup> )
Other mechanical toys propelled by springs or by electricity, value.....	\$2,083,115	\$3,637,040
Structural-toy sets.....	\$2,265,325	\$835,471
Airplanes, other than mechanical:		
Number reported—		
Number.....	27,874,109	<sup>4</sup> 12,870,720
Value.....	\$1,872,670	<sup>4</sup> \$873,816
Number not reported, value.....		\$83,678
Wooden toys.....	\$5,090,099	\$6,182,188
Rubber toy balloons <sup>5</sup> .....	\$2,125,625	\$2,488,299
Rubber toys other than balloons <sup>5</sup> .....	\$2,707,932	\$2,261,284
Toy furniture.....	\$1,299,041	\$706,431
Toy guns and air rifles.....	\$1,888,769	\$1,765,320
Paint sets.....	\$694,782	\$562,962
China, clay, and composition toys (including marbles).....	\$747,450	\$701,243
Toys not specified above (including paper toys) and parts of toys, made for sale as such.....	\$5,048,682	\$5,640,317
Toys not reported by kind.....		\$1,449,818

TABLE 6.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

	1939	1937
Dolls, doll parts, and doll clothing, total value.....	\$12,529,100	\$11,215,007
Dolls:		
Number reported—		
Number.....	11,405,157	7,726,022
Value.....	\$9,378,406	\$9,367,365
Number not reported, value.....		\$933,382
Doll parts.....	\$2,285,740	\$1,841,818
Doll clothes.....	\$864,945	\$573,517
Children's carriages and other wheel goods, total value.....	\$20,086,074	\$21,097,000
Baby carriages, strollers, sulkies, beach carts, and gocarts, total value.....	\$4,776,625	\$5,218,427
Number reported—		
Total number.....	545,225	504,656
Total value.....	\$4,437,073	\$4,867,365
Number not reported, value.....	\$338,652	\$351,072
Baby carriages, strollers, and sulkies, value.....	\$3,203,204	\$3,901,073
Wood:		
Number reported—		
Number.....	83,840	106,536
Value.....	\$1,558,080	\$1,817,998
Number not reported, value.....	\$338,652	\$179,498
Reed, rattan, and other nonmetal (except wood):		
Number reported—		
Number.....		94,376
Value.....		\$909,688
Number not reported, value.....	<sup>6</sup> 223,720	\$177,574
All metal:		
Number.....	<sup>6</sup> 1,306,553	117,635
Value.....		\$382,315
Beach carts and collapsible gocarts:		
Number.....	237,650	186,109
Value.....	\$1,483,331	\$1,317,354
Doll carriages and doll carts:		
Number reported—		
Number.....	1,281,485	865,876
Value.....	\$2,190,039	\$2,050,692
Number not reported, value.....		\$92,893
Velocipedes and tricycles:		
Number.....	1,259,312	1,364,546
Value.....	\$4,311,089	\$4,274,783
Sidewalk cycles:		
Number.....	39,406	83,441
Value.....	\$308,183	\$937,416
Children's wagons (coasters, express, and play):		
Number.....	2,397,843	
Value.....	\$3,020,810	
Children's automobiles:		
Number.....	221,105	<sup>6</sup> 2,818,003
Value.....	\$1,056,935	<sup>6</sup> \$4,457,940
Scoters:		
Number.....	588,554	596,863
Value.....	\$866,160	\$921,072
Three-wheel play cars (with or without pedals):		
Number.....	819,767	220,245
Value.....	\$662,302	\$227,766
Sleds:		
Number reported—		
Number.....	908,483	909,603
Value.....	\$976,174	\$1,078,338
Number not reported, value.....		\$564,803
Baby walkers and tenders:		
Number.....	511,011	570,886
Value.....	\$1,253,266	\$1,110,268
Parts of children's wheel goods, made for sale as such.....	\$664,682	\$457,205

<sup>1</sup> Not including playing cards or apparatus which are classified as sporting and athletic goods.

<sup>2</sup> Not called for separately.

<sup>3</sup> Statistics combined with those for "Airplanes, other than mechanical," to avoid disclosing, exactly or approximately, data reported by individual establishments.

<sup>4</sup> Includes data for a small number of mechanical airplanes, to avoid disclosing, exactly or approximately, data reported by individual establishments.

<sup>5</sup> The production of toy balloons was reported solely, and that of other rubber toys mainly, by establishments in the Rubber Products group of industries, which embraces all establishments using crude rubber as their principal material.

<sup>6</sup> Statistics combined to avoid disclosing production reported by individual establishments.

GAMES AND TOYS; DOLLS; CHILDREN'S VEHICLES

TABLE 7.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>GAMES AND TOYS (EXCEPT DOLLS AND CHILDREN'S VEHICLES)</b>													
United States:													
1939	15,610	11,555	13,257	13,841	13,178	13,280	13,959	14,702	16,405	18,589	19,992	20,681	17,788
1937	14,608	10,990	12,302	13,260	12,794	13,816	14,689	15,320	16,601	17,465	18,153	17,245	12,699
California	124	112	115	111	112	112	110	123	120	145	148	150	127
Connecticut	1,035	866	893	890	843	998	987	1,060	1,128	1,138	1,138	1,273	1,193
Illinois	2,219	1,679	1,806	1,951	1,944	1,920	2,055	2,127	2,208	2,623	2,815	3,054	2,440
Indiana	540	327	401	432	474	548	603	621	637	691	641	623	479
Maryland	108	83	82	83	96	124	132	104	114	106	122	124	125
Massachusetts	1,316	1,128	1,213	1,279	1,143	1,120	1,162	1,211	1,321	1,482	1,547	1,612	1,572
Michigan	927	761	761	667	646	686	770	864	1,000	1,247	1,240	1,358	1,059
Missouri	176	215	207	170	142	137	145	106	153	165	190	252	224
New Hampshire	179	184	163	152	152	152	163	193	206	202	211	220	202
New Jersey	1,662	982	1,413	1,578	1,637	1,720	1,735	1,467	1,788	1,986	2,109	1,916	1,660
New York	2,395	1,797	1,998	2,063	1,690	1,911	2,094	2,296	2,647	2,978	3,204	3,223	2,788
Ohio	913	685	660	752	778	746	767	823	949	1,105	1,315	1,355	1,110
Pennsylvania	2,230	1,290	1,796	1,910	1,946	1,691	1,828	2,149	2,350	2,573	3,005	3,252	2,966
Rhode Island	50	44	44	51	45	48	50	52	48	48	55	53	56
West Virginia	749	615	831	833	733	539	553	571	674	841	944	968	828
Wisconsin	203	165	175	192	188	194	206	217	214	233	232	228	197
<b>DOLLS (EXCEPT RUBBER)</b>													
United States:													
1939	3,052	1,329	1,545	1,790	2,112	2,466	3,000	3,450	3,798	4,068	4,406	4,544	4,022
1937	2,682	1,166	1,423	1,603	1,866	2,460	2,907	3,039	3,248	3,493	3,853	3,815	3,322
Massachusetts	610	492	498	545	548	584	626	603	707	714	713	707	627
New Jersey	579	244	268	268	426	510	613	654	728	770	848	866	753
New York	1,822	587	767	960	1,114	1,346	1,721	2,087	2,307	2,540	2,889	2,933	2,614
<b>CHILDREN'S VEHICLES</b>													
United States:													
1939	4,319	2,704	3,056	3,503	3,677	3,744	3,970	4,124	4,781	5,538	5,897	5,782	5,052
1937	5,218	3,739	4,200	4,617	5,029	5,493	5,584	6,142	6,390	6,170	6,116	5,662	4,158
1929	7,102	5,850	6,018	6,965	7,288	7,329	6,885	6,927	7,350	7,949	8,340	7,733	5,985
Illinois	406	317	330	382	408	369	368	370	422	460	457	404	490
Massachusetts	1,218	959	1,035	1,130	1,080	1,106	1,156	1,180	1,374	1,419	1,536	1,431	1,214
Missouri	254	205	222	232	241	274	293	279	270	244	252	257	277
New York	324	262	260	265	280	316	321	350	365	379	385	371	334
Ohio	744	292	453	449	483	468	552	614	924	1,285	1,302	1,206	935
Pennsylvania	23	15	19	19	24	35	40	14	14	15	16	25	35

TABLE 8.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	Games and Toys (Except Dolls and Children's Vehicles)	Dolls (Except Rubber)	Children's Vehicles
Number of establishments:			
Total for the industry	343	84	44
Reporting expenditures for plant and equipment	209	47	30
Value of products:			
Total for the industry	\$55,400,894	\$12,132,373	\$19,117,410
Reporting expenditures for plant and equipment	47,816,900	9,437,749	16,042,703
Expenditures for plant and equipment:			
Total for the industry	1,544,232	113,676	257,241
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	395,409	26,752	57,515
Expenditures for new machinery and operating equipment	1,011,754	74,660	191,178
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	136,944	12,084	8,548
Expenditures unclassified	125	180	

TABLE 9.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	GAMES AND TOYS (EXCEPT DOLLS AND CHILDREN'S VEHICLES)		DOLLS (EXCEPT RUBBER)		CHILDREN'S VEHICLES	
	1939	1937	1939	1937	1939	1937
Inventories:						
Beginning of year, total	\$7,673,491	\$7,334,133	\$600,670	\$652,459	\$1,947,618	\$2,514,811
Finished products	3,233,325	2,858,686	258,912	328,031	490,093	623,024
Materials, supplies, etc.	4,340,166	4,475,497	431,758	324,428	1,457,525	1,891,787
End of year, total	8,821,363	8,761,686	896,024	822,617	2,579,953	3,026,374
Value of products for the industry, total	55,400,894	50,590,744	12,132,373	11,199,030	19,117,410	19,655,453

## CENSUS OF MANUFACTURES: 1939

TABLE 9.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937—Con.

	GAMES AND TOYS (EXCEPT DOLLS AND CHILDREN'S VEHICLES)		DOLLS (EXCEPT RUBBER)		CHILDREN'S VEHICLES	
	1939	1937	1939	1937	1939	1937
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	\$53,154,400	\$47,462,872	\$11,204,024	\$10,639,300	\$19,075,799	\$19,368,607
Value for establishments not reporting inventories.....	2,246,398	3,127,872	838,349	559,730	41,611	286,846

TABLE 10.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	GAMES AND TOYS (EXCEPT DOLLS AND CHILDREN'S VEHICLES) <sup>1</sup>		DOLLS (EXCEPT RUBBER) <sup>1</sup>		CHILDREN'S VEHICLES	
	1939	1939	1939	1929	1939	1929
Number of establishments.....	343	84	44	79		
Number of establishments reporting power equipment.....	339	84	43	79		
Prime movers, aggregate:						
Number.....	31		7	27		
Horsepower.....	3,798		1,275	3,295		
Prime movers, driving generators, total:						
Number.....	11		2	27		
Horsepower.....	1,280		660	3,295		
Steam engines—						
Number.....	3		1	23		
Horsepower.....	700		500	2,885		
Steam turbines—						
Number.....				1		
Horsepower.....				200		
Diesel and semi-Diesel engines—						
Number.....	6					
Horsepower.....	505					
Other internal-combustion engines <sup>2</sup> —						
Number.....				2		
Horsepower.....				50		
Hydroturbines and water wheels—						
Number.....	2		1	1		
Horsepower.....	75		160	160		

TABLE 10.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	GAMES AND TOYS (EXCEPT DOLLS AND CHILDREN'S VEHICLES) <sup>1</sup>		DOLLS (EXCEPT RUBBER) <sup>1</sup>		CHILDREN'S VEHICLES	
	1939	1939	1939	1929	1939	1929
Prime movers—Continued.						
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	550					
Prime movers not driving generators, total:						
Number.....	20		5			
Horsepower.....	2,518		615			
Steam engines—						
Number.....	5		3			
Horsepower.....	775		415			
Steam turbines—						
Number.....			2			
Horsepower.....			200			
Diesel and semi-Diesel engines—						
Number.....	4					
Horsepower.....	630					
Other internal-combustion engines <sup>2</sup> —						
Number.....	2					
Horsepower.....	13					
Hydroturbines and water wheels—						
Number.....	9					
Horsepower.....	1,100					
Prime movers not driving generators, ordinarily idle (included above), horsepower.....				125		
Generators, kilowatt rating, total.....	741		450	1,620		
Generators, driven by—						
Steam engines, kilowatt rating.....	360		300	( <sup>3</sup> )		
Diesel and semi-Diesel engines, kilowatt rating.....	325					
Hydroturbines and water wheels, kilowatt rating.....	50		150	( <sup>3</sup> )		
Generators, ordinarily idle (included above), kilowatt rating.....	366					
Electric motors, total:						
Number.....	8,406	1,020	2,032	1,640		
Horsepower.....	22,327	1,624	7,058	9,344		
Driven by purchased energy—						
Number.....	8,045	1,026	1,784	1,473		
Horsepower.....	21,547	1,624	6,481	7,600		
Driven by energy generated in establishments reporting—						
Number.....	361		248	267		
Horsepower.....	780		577	1,744		
Electric energy (kilowatt-hours):						
Generated in plant.....	325,000		500,000	( <sup>3</sup> )		
Purchased.....	13,518,530	3,303,007	5,123,614	6,265,993		

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Includes data for prime movers not driving generators.<sup>3</sup> Gas, gasoline, etc.<sup>4</sup> Not called for on schedule.<sup>5</sup> Data not available.

# SPORTING AND ATHLETIC GOODS NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 30, 1940]

**Description of the industry.**—This industry embraces establishments engaged primarily in the manufacture of a group of products not clearly defined in all respects but designated in general as "sporting and athletic goods." These comprise equipment for fishing and hunting (except firearms and ammunition); equipment for athletic games and sports, such as golf, baseball, football, tennis, skating, skiing, etc.; gymnasium and playground equipment; billiard and pool tables; bowling alleys, etc. Clothing and footwear made specially for sporting and athletic purposes, such as hunting coats and boots, bathing suits, sweaters, tennis shoes, leggings, etc., do not come within the scope of this industry classification but are assigned to the clothing industries, the knit goods industries, the boot and shoe

industries, etc. Fishing line, both for commercial use and for sport, is classified in the Cordage and Twine industry.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	350	13,816	\$14,220,581	\$26,639,795	\$64,753,813	\$38,004,018	7,057
1937 <sup>4</sup> .....	247	12,178	12,542,179	24,555,315	52,074,270	27,518,955	( <sup>5</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> See GENERAL EXPLANATIONS—Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> No comparable data for years prior to 1937.  
<sup>5</sup> Not called for on schedule.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Colorado	Connecticut	Florida	Illinois	Indiana	Maine	Michigan	Minnesota	Missouri
Number of establishments <sup>1</sup> .....	350	27	6	9	5	42	12	7	15	12	11
Proprietors and firm members.....	230	32	4	5	1	23	10	7	4	13	9
Persons reported by manufacturing establishments, total <sup>2</sup> .....	10,633	156	158	1,395	65	2,284	415	140	1,771	293	502
Salaried officers of corporations <sup>2</sup> .....	324	8	4	16	7	45	12	2	28	13	11
Manufacturing:											
Salaried employees <sup>2</sup> .....	1,457	17	20	95	7	178	82	18	206	14	36
Wage earners (average for the year) <sup>2</sup> .....	13,316	120	125	1,202	44	1,922	340	120	1,435	237	440
Distribution.....	955	11	9	7	7	82	1		100	28	15
Construction.....	81			7		57			2	1	
Other.....											
Salaries and wages, total <sup>2</sup> .....	\$10,813,189	\$160,391	\$137,250	\$1,725,973	\$59,031	\$3,085,202	\$498,763	\$130,551	\$2,423,629	\$302,569	\$496,430
Salaried officers <sup>2</sup> .....	1,566,506	16,723	11,920	126,718	17,369	266,728	86,675	7,579	170,753	53,108	25,784
Manufacturing:											
Salaries <sup>2</sup> .....	2,333,491	20,178	16,295	134,780	5,519	308,453	77,937	23,462	365,512	23,118	52,025
Wages.....	14,220,581	102,529	96,914	1,336,574	27,521	2,268,932	327,079	90,513	1,058,982	238,279	387,408
Distribution.....	1,613,056	20,901	12,121	119,616	5,632	191,772	7,072		229,865	47,004	31,153
Construction.....	79,555			8,285		49,317			1,617	1,000	
Other.....											
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	26,639,795	223,994	97,995	1,772,445	49,785	5,106,603	672,483	180,206	4,038,052	540,848	785,666
Materials, supplies, and containers.....	25,692,456	215,808	94,627	1,617,605	48,529	4,975,539	656,911	108,942	3,898,800	523,449	777,346
Fuel.....	306,122	802	1,213	55,444	160	43,312	4,947	916	44,752	6,430	1,983
Purchased electric energy.....	507,969	2,959	2,165	86,054	1,006	67,384	10,125	6,607	57,784	9,189	6,337
Contract work.....	183,258	4,305		12,442		20,428	1,500	3,741	37,616	1,771	
Value of products.....	64,753,813	549,315	300,880	4,048,328	118,677	10,771,134	1,442,060	407,604	12,131,417	1,109,418	1,482,810
Value added by manufacture <sup>4</sup> .....	38,064,813	326,321	202,885	2,275,883	68,892	5,664,471	769,577	227,698	8,092,465	568,570	647,144

ITEM	New Jersey	New York	Ohio	Oregon	Pennsylvania	Tennessee	Texas	Vermont	Washington	Wisconsin	Other States <sup>5</sup>
Number of establishments <sup>1</sup> .....	18	52	25	7	15	5	5	4	13	17	43
Proprietors and firm members.....	6	37	11	8	16	1	5	2	7	11	18
Persons reported by manufacturing establishments, total <sup>2</sup> .....	399	2,375	1,818	75	720	365	92	164	143	462	2,849
Salaried officers of corporations <sup>2</sup> .....	15	60	23	3	8	7	1	1	12	11	47
Manufacturing:											
Salaried employees <sup>2</sup> .....	33	168	142	6	40	21	6	12	10	51	315
Wage earners (average for the year) <sup>2</sup> .....	289	2,005	1,550	64	648	321	71	140	113	347	2,284
Distribution.....	65	143	103	2	23	16	14		8	53	198
Construction.....		9			1			1			5
Other.....											
Salaries and wages, total <sup>2</sup> .....	\$505,935	\$2,400,648	\$2,320,667	\$96,068	\$740,464	\$248,651	\$91,997	\$141,107	\$116,658	\$370,680	\$3,694,445
Salaried officers <sup>2</sup> .....	69,040	239,878	146,555	9,960	89,834	22,386	2,100	6,500	20,324	31,765	194,820
Manufacturing:											
Salaries <sup>2</sup> .....	45,068	253,101	229,945	6,906	72,566	28,703	18,062	10,668	61,881	61,881	568,393
Wages.....	307,917	1,673,079	1,762,860	60,181	598,781	176,274	61,445	112,462	77,970	225,540	2,617,322
Distribution.....	83,912	228,008	181,807	12,971	31,618	21,288	17,921		7,787	60,404	307,894
Construction.....		8,582			665			4,173			5,916
Other.....											
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	648,867	3,017,382	3,177,213	174,047	1,032,471	189,108	90,105	147,496	227,617	389,421	4,127,061
Materials, supplies, and containers.....	625,869	2,940,816	3,088,473	171,128	1,001,779	181,448	86,931	138,636	153,496	370,029	3,948,245
Fuel.....	8,478	29,411	26,767	786	6,034	1,239	611	1,125	811	4,902	66,433
Purchased electric energy.....	14,023	45,139	60,773	1,496	13,626	6,421	868	7,735	1,901	5,464	99,028
Contract work.....	500	1,998	1,200	637	11,032		1,700		71,909	26	12,455
Value of products.....	1,694,366	6,496,367	7,045,980	426,206	2,218,361	579,220	215,211	330,595	427,295	1,123,703	10,984,675
Value added by manufacture <sup>4</sup> .....	1,045,508	3,478,945	4,768,717	252,159	1,185,890	390,112	125,106	183,099	199,678	734,234	6,837,614

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.   <sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>4</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Arkansas, 2 establishments; Georgia, 1; Idaho, 1; Iowa, 2; Kansas, 1; Kentucky, 2; Maryland, 3; Massachusetts, 19; Mississippi, 1; Montana, 1; New Hampshire, 3; Oklahoma, 2; Rhode Island, 2; South Carolina, 1; Virginia, 2.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Sporting and Athletic Goods Not Elsewhere Classified industry, all products, total value.....	\$64,753,813	\$52,074,270
Sporting and athletic goods.....	60,993,260	49,095,228
Miscellaneous products not specified.....	334,044	2,623,103
Other products (not classified in this industry).....	13,114,383	355,939
Receipts for contract and repair work.....	312,126	
Sporting and athletic goods, not elsewhere classified, aggregate value.....	68,705,072	56,296,705
Sporting and athletic goods, not elsewhere classified, made in this industry.....	60,993,260	49,095,228
Sporting and athletic goods, not elsewhere classified, made as secondary products in other industries.....	7,711,812	7,201,477

<sup>1</sup> Baseball, basketball, and polo suits; shorts (including track or running pants); athletic sweaters; gun implements and automatic screw-machine products; window and door screens, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Aggregate value.....	\$68,705,072	\$56,296,705
Golf goods, total value.....	\$15,644,612	\$13,797,080
Balls:		
Dozens.....	2,881,667	1,722,682
Value.....	\$5,002,611	\$4,387,919
Clubs:		
Number.....	2,855,837	2,347,404
Value.....	\$6,557,548	\$6,237,047
Shafts:		
Number.....	3,218,002	3,151,289
Value.....	\$1,530,737	\$1,716,185
Caddy bags, total value.....	\$1,541,899	\$1,169,552
Number reported—		
Number.....	244,979	156,493
Value.....	\$957,976	\$820,727
Number not reported, value.....	\$583,923	\$342,825
Other golf goods, including parts, value.....	\$411,817	\$285,777
Fishing tackle, total value.....	\$12,574,758	\$10,883,490
Rods, total value.....	\$3,482,224	\$3,450,492
Bamboo or bamboo-and-wood:		
Number reported—		
Number.....	808,470	1,059,280
Value.....	\$1,498,221	\$2,253,292
Number not reported, value.....	\$350,912	
Steel:		
Number.....	1,204,117	1,019,378
Value.....	\$1,633,091	\$1,197,200
Reels:		
Number.....	2,594,932	2,391,887
Value.....	\$3,599,394	\$3,357,506
Rod mountings, value.....	\$410,269	\$386,510
Artificial lures, value.....	\$2,603,804	\$1,688,982
Hooks (small and other), value.....	\$821,020	\$734,869
Leaders, swivels, and sinkers, value.....	\$895,506	\$570,160
Other fishing equipment (except fishing line) and fishing tackle not reported by kind, value.....	\$762,541	\$694,911
Baseball goods, total value.....	\$6,286,055	\$4,385,358
Baseballs:		
Dozens.....	536,660	
Value.....	\$1,990,976	\$2,301,004
Soft or playground balls:		
Dozens.....	311,443	
Value.....	\$1,200,394	
Bats (including indoor bats):		
Number.....	( <sup>1</sup> )	2,827,527
Value.....	( <sup>1</sup> )	\$1,060,393

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Baseball goods—Continued.		
Masks:		
Number.....	51,928	23,322
Value.....	\$51,943	\$42,270
Mitts and gloves:		
Number.....	1,155,540	785,043
Value.....	\$1,585,452	\$949,777
Other baseball goods, value.....	\$1,307,200	\$31,914
Tennis goods, total value.....	\$4,750,936	\$4,628,897
Balls:		
Dozens.....	609,259	597,694
Value.....	\$1,452,108	\$1,097,898
Rackets, complete:		
Number.....	686,923	504,247
Value.....	\$1,421,439	\$982,657
Racket frames:		
Number.....	252,546	228,462
Value.....	\$676,917	\$674,340
Strings, value.....	\$1,051,321	\$1,213,700
Other tennis goods, value.....	\$149,151	\$60,233
Rackets, other than tennis, total value.....	\$282,021	( <sup>2</sup> )
Badminton:		
Number.....	177,190	( <sup>2</sup> )
Value.....	\$251,974	( <sup>2</sup> )
Squash:		
Number.....	13,649	( <sup>2</sup> )
Value.....	\$30,047	( <sup>2</sup> )
Football, basketball, and boxing goods, and inflated balls other than footballs and basketballs, total value.....	\$5,387,700	\$3,352,700
Footballs:		
Number.....	2,588,549	1,444,345
Value.....	\$1,963,051	\$1,089,729
Basketballs:		
Number.....	501,924	260,231
Value.....	\$1,243,829	\$859,437
Other inflated balls:		
Number.....	224,308	279,103
Value.....	\$208,218	\$261,828
Pads, helmets, and guards for football, basketball, and soccer, value.....	\$1,178,003	\$575,519
Striking bags:		
Number.....	108,146	95,136
Value.....	\$144,070	\$144,769
Boxing gloves:		
Number.....	389,330	317,627
Value.....	\$330,847	\$227,393
Other football, basketball, and boxing goods, value.....	\$285,583	\$194,034
Billiard and pool tables and accessories, value.....	\$2,067,942	\$2,466,436
Skates, total value.....	\$5,411,479	\$4,631,851
Roller:		
Pairs reported—		
Total pairs.....	3,454,332	2,646,707
Total value.....	\$3,235,088	\$2,453,210
Pairs not reported, value.....	\$332,056	\$236,641
Ice:		
Pairs.....	1,128,185	1,190,630
Value.....	\$1,843,735	\$1,942,100
Gymnasium equipment, value.....	602,613	594,436
Equipment for hunting and shooting (not including firearms or ammunition), value.....	1,272,170	999,858
Skis and snowshoes, value.....	1,078,685	1,236,585
Toboggans and sleds, value.....	148,643	177,864
Croquet sets, value.....	369,161	( <sup>2</sup> )
Playground equipment, value.....	1,733,818	2,431,286
Other sporting and athletic goods, including parts, and bowling alleys and accessories, value <sup>3</sup> .....	10,224,479	6,710,855

<sup>1</sup> Data for "Bats (including indoor bats)" combined with "Other baseball goods" to avoid disclosing production of individual establishments.

<sup>2</sup> Not called for separately on schedule.

<sup>3</sup> Includes figures for bowling alleys and accessories and for hockey sticks and parts of skates to avoid disclosing, exactly or approximately, data reported by individual establishments.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	13,816	13,248	13,691	14,374	14,539	14,347	14,136	13,571	12,949	13,005	13,544	13,990	14,398
1937.....	12,178	11,616	12,262	12,601	13,115	12,991	12,583	11,897	12,021	11,583	11,679	11,742	12,045
California.....	120	118	115	125	129	129	134	131	112	116	105	102	119
Colorado.....	125	92	112	132	147	161	150	133	110	101	98	111	132
Connecticut.....	1,202	1,222	1,246	1,234	1,223	1,104	1,186	1,172	1,151	1,144	1,203	1,221	1,232
Florida.....	44	50	50	50	48	48	43	38	30	30	41	41	43
Illinois.....	1,922	1,782	1,877	2,060	2,147	2,150	2,078	1,896	1,748	1,787	1,809	1,848	1,884
Indiana.....	340	286	328	357	304	385	354	337	306	305	312	351	360
Maine.....	126	107	111	118	120	115	124	95	101	130	143	153	194
Massachusetts.....	1,533	1,650	1,654	1,728	1,666	1,591	1,566	1,516	1,372	1,252	1,234	1,508	1,048
Michigan.....	1,435	1,246	1,284	1,337	1,390	1,434	1,469	1,438	1,439	1,482	1,591	1,556	1,543
Minnesota.....	237	229	208	238	225	232	219	218	232	247	264	269	267
Missouri.....	440	441	427	425	434	448	437	451	452	448	442	440	437
New Hampshire.....	57	55	41	40	33	29	31	44	62	66	91	102	86
New Jersey.....	286	249	257	303	304	306	313	289	264	254	280	238	309
New York.....	2,005	1,900	1,995	2,138	2,172	2,129	2,021	1,907	1,829	1,798	1,990	2,072	2,105
Ohio.....	1,550	1,518	1,562	1,589	1,578	1,499	1,552	1,528	1,476	1,523	1,578	1,588	1,609
Oregon.....	64	66	67	76	91	96	83	67	55	49	50	39	41
Pennsylvania.....	648	636	698	720	716	687	674	670	582	583	547	618	642
Tennessee.....	321	346	361	364	330	327	306	271	271	286	329	332	325
Texas.....	71	67	65	65	67	73	73	81	84	88	73	60	57
Vermont.....	140	134	131	136	161	152	140	143	132	146	192	95	115
Washington.....	113	109	108	113	114	114	117	109	113	119	118	114	113
Wisconsin.....	347	307	325	337	334	344	339	358	390	369	365	345	379

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	360
Reporting expenditures for plant and equipment.....	204
Value of products:	
Total for the industry.....	\$64,753,813
Reporting expenditures for plant and equipment.....	54,719,297
Expenditures for plant and equipment:	
Total for the industry.....	1,272,170
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	292,567
Expenditures for new machinery and operating equipment.....	812,701
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	166,078
Expenditures unclassified.....	824

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$14,387,203	\$12,093,203
Finished products.....	4,990,180	4,391,322
Materials, supplies, etc.....	9,397,023	7,701,881
End of year, total.....	15,551,060	15,363,783
Finished products.....	5,571,866	5,627,935
Materials, supplies, etc.....	9,979,194	9,735,818
Value of products for the industry, total.....	64,753,813	52,074,270
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	63,367,152	49,765,396
Value for establishments not reporting inventories.....	1,386,661	2,308,874

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments.....	350
Number of establishments reporting power equipment.....	347
Prime movers, aggregate:	
Number.....	47
Horsepower.....	7,057
Prime movers, driving generators, total—	
Number.....	12
Horsepower.....	5,145

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>—Continued

	1939
Prime movers—Continued..	
Prime movers, driving generators—Continued.	
Steam engines—	
Number.....	5
Horsepower.....	4,650
Steam turbines—	
Number.....	1
Horsepower.....	30
Diesel and semi-Diesel engines—	
Number.....	2
Horsepower.....	80
Other internal-combustion engines <sup>2</sup> —	
Number.....	2
Horsepower.....	125
Hydroturbines and water wheels—	
Number.....	2
Horsepower.....	260
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2,650
Prime movers not driving generators, total—	
Number.....	35
Horsepower.....	1,912
Steam engines—	
Number.....	27
Horsepower.....	1,505
Steam turbines—	
Number.....	4
Horsepower.....	300
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—	
Number.....	2
Horsepower.....	29
Hydroturbines and water wheels—	
Number.....	2
Horsepower.....	78
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	520
Generators, kilowatt rating, total.....	3,317
Generators, driven by—	
Steam engines, kilowatt rating.....	2,972
Steam turbines, kilowatt rating.....	25
Diesel and semi-Diesel engines, kilowatt rating.....	50
Other internal-combustion engines, <sup>2</sup> kilowatt rating.....	70
Hydroturbines and water wheels, kilowatt rating.....	200
Generators, ordinarily idle (included above), kilowatt rating.....	1,609
Electric motors, total:	
Number.....	10,029
Horsepower.....	36,314
Driven by purchased energy—	
Number.....	8,719
Horsepower.....	29,309
Driven by energy generated in establishments reporting—	
Number.....	1,310
Horsepower.....	7,005
Electric energy (kilowatt-hours):	
Generated in plant.....	1,461,299
Purchased.....	26,168,685

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.

## PENS, MECHANICAL PENCILS, AND PEN POINTS

[A preliminary report for this industry was issued November 22, 1940]

**Description of the industry.**—This industry embraces establishments engaged primarily in the manufacture of complete fountain pens, stylographic pens, mechanical pencils, gold, steel, and other metal pen points, rubber holders, and other parts.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners average for the year <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	70	4,463	\$4,328,516	\$8,699,959	\$24,880,890	\$16,180,931	60
1937.....	55	5,703	5,560,037	9,238,283	25,970,013	16,781,730	(4)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Massachusetts	New Jersey	New York	Rhode Island	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	70	7	4	12	25	7	15
Proprietors and firm members.....	39	3	2	4	20	6	4
Persons reported by manufacturing establishments, total <sup>3</sup> .....	6,323	989	78	1,089	517	401	2,648
Salaried officers of corporations <sup>4</sup> .....	86	11	2	18	20	12	23
Manufacturing:							
Salaried employees <sup>3</sup> .....	512	78	9	122	34	54	215
Wage earners (average for the year) <sup>4</sup> .....	4,463	705	57	1,441	410	320	1,528
Distribution.....	1,250	194	10	108	48	15	875
Construction.....	12				5		7
Other.....							
Salaries and wages, total <sup>3</sup> .....	\$7,859,711	\$1,355,252	\$81,903	\$2,113,081	\$665,018	\$394,466	\$3,248,491
Salaried officers <sup>3</sup> .....	751,688	133,736	4,000	234,172	119,734	75,530	184,456
Manufacturing:							
Salaries <sup>3</sup> .....	820,078	128,437	15,294	206,594	43,661	69,610	357,082
Wages.....	4,328,516	619,019	55,491	1,469,688	409,019	236,756	1,538,543
Distribution.....	1,938,611	474,060	7,118	203,527	86,458	12,520	1,154,928
Construction.....	20,218				6,740		13,472
Other.....							
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	8,699,959	1,069,720	105,251	2,510,188	1,058,394	473,787	3,512,619
Materials, supplies, and containers.....	8,430,115	949,524	103,476	2,446,893	1,016,263	463,267	3,450,692
Fuel.....	56,671	14,325	290	24,190	351	4,296	13,210
Purchased electric energy.....	110,119	19,497	1,485	38,668	14,223	6,224	30,022
Contract work.....	103,054	56,374		437	27,557		18,686
Value of products.....	24,880,890	3,089,662	204,820	6,277,562	2,149,243	1,154,410	12,005,184
Value added by manufacture <sup>3</sup> .....	16,180,931	2,049,942	90,569	3,767,374	1,090,849	680,632	8,492,566

<sup>1</sup> California, 2 establishments; Connecticut, 2; Georgia, 1; Iowa, 1; Missouri, 2; Ohio, 2; Oklahoma, 1; Pennsylvania, 1; Virginia, 2; Wisconsin, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

PENS, MECHANICAL PENCILS, AND PEN POINTS

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Pens, Mechanical Pencils, and Pen Points industry, all products, total value.....	\$24,880,890	\$25,970,013
Pens, mechanical pencils, and pen points.....	10,841,400	21,704,418
Miscellaneous products not specified.....	93,030	
Other products (not classified in this industry).....	4,460,092	3,844,302
Receipts for contract and repair work.....	486,368	361,293
Pens, mechanical pencils, and pen points, total value.....	20,959,649	22,972,562
Pens, mechanical pencils, and pen points made in this industry.....	19,841,400	21,764,418
Pens, mechanical pencils, and pen points made as secondary products in other industries.....	1,118,249	1,208,144

<sup>1</sup> Value of ink, erasers, metal specialties, pencil leads, and pencil parts.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$20,959,649	\$22,972,562
Fountain and stylographic pens:		
Total gross.....	203,338	228,980
Total value.....	\$12,080,921	\$13,649,513
Cellulose compounds—		
Gross.....	202,468	198,016
Value.....	\$11,890,129	\$13,525,673
Other fountain and stylographic pens <sup>1</sup> —		
Gross.....	870	30,964
Value.....	\$140,792	\$123,840

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

	1939	1937
Parts of fountain pens and stylographic pens (except pen points) made for sale as such, value.....	\$404,620	\$791,247
Penholders and parts (except pen points) made for sale as such, value.....	\$286,693	\$361,743
Pen points made for sale as such:		
Total gross.....	1,208,211	1,526,110
Total value.....	\$1,236,752	\$1,565,471
Gold—		
Gross.....	4,864	8,001
Value.....	\$257,944	\$404,125
Steel and brass—		
Gross.....	1,203,347	1,518,109
Value.....	\$978,808	\$1,161,346
Fountain-pen desk sets:		
Number of sets.....	539,327	379,875
Value.....	\$788,215	\$831,732
Fountain-pen and pencil sets:		
Number of sets.....	571,093	( <sup>2</sup> )
Value.....	\$250,241	
Mechanical pencils:		
Total gross.....	297,094	228,669
Total value.....	\$5,063,207	\$5,772,950
Cellulose compounds—		
Gross.....	153,004	133,697
Value.....	\$4,461,132	\$4,601,996
Metal—		
Gross.....	114,645	
Value.....	\$958,361	94,972
Other materials—		
Gross.....	29,445	
Value.....	\$533,714	\$1,170,860

<sup>1</sup> The figures for 1937 include data for an inexpensive type of fountain pen which was not manufactured in 1939, and therefore the data for the 2 years are not strictly comparable.

<sup>2</sup> Not called for separately on schedule.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	4,403	4,397	4,369	4,385	4,307	4,203	4,252	4,247	4,365	4,521	4,717	4,961	4,833
1937.....	5,703	5,357	5,403	5,542	5,605	5,562	5,780	5,543	5,848	6,113	6,116	5,871	5,544
Illinois.....	706	799	735	740	724	676	614	581	612	695	760	786	751
Massachusetts.....	57	66	60	60	56	53	54	54	51	57	49	64	65
New Jersey.....	1,441	1,423	1,436	1,470	1,424	1,404	1,445	1,421	1,399	1,404	1,483	1,507	1,468
New York.....	410	365	379	381	370	357	372	372	402	443	470	521	488
Rhode Island.....	320	287	281	255	263	260	283	319	301	304	326	432	404

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	70
Reporting expenditures for plant and equipment.....	36
Value of products:	
Total for the industry.....	\$24,880,890
Reporting expenditures for plant and equipment.....	21,798,493
Expenditures for plant and equipment:	
Total for the industry.....	311,673
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	38,802
Expenditures for new machinery and operating equipment.....	260,756
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	12,115

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$7,118,717	\$6,218,657
Finished products.....	3,575,935	3,159,111
Materials, supplies, etc.....	3,542,782	3,059,546
End of year, total.....	6,879,911	7,333,676
Finished products.....	3,280,260	3,750,062
Materials, supplies, etc.....	3,599,651	3,583,614
Value of products for the industry, total.....	24,880,890	25,970,013
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	24,857,478	25,741,579
Value for establishments not reporting inventories.....	23,412	228,434

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments.....	70
Number of establishments reporting power equipment.....	68
Prime movers, aggregate:	
Number.....	1
Horsepower.....	60
Prime movers, driving generators, Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	60
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	60
Generators driven by Diesel and semi-Diesel engines, kilowatt rating..	50
Generators, ordinarily idle (included above), kilowatt rating.....	50
Electric motors, total:	
Number.....	3,398
Horsepower.....	5,403
Driven by purchased energy—	
Number.....	3,338
Horsepower.....	5,368
Driven by energy generated in establishments reporting—	
Number.....	60
Horsepower.....	35
Electric energy purchased (kilowatt-hours).....	4,618,516

<sup>1</sup> Comparable data for 1929 not available.

## PENCILS (EXCEPT MECHANICAL) AND CRAYONS

[A preliminary report for this industry was issued November 7, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of wood-cased lead pencils, pencil leads and parts manufactured for sale as such, and crayons. (Mechanical pencils are included in the "Pens, mechanical pencils, and pen points" industry.)

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	40	3, 779	\$3, 434, 391	\$7, 279, 439	\$15,859,756	\$8, 580, 317	4, 930
1937.....	33	4, 416	4, 212, 009	8, 012, 554	18,238,013	10, 275, 450	(4)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	New Jersey	New York	Pennsylvania	Tennessee	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	40	8	11	4	5	12
Proprietors and firm members.....	12	4	4	3	3	5
Persons reported by manufacturing establishments, total <sup>3</sup> .....	4, 977	1, 769	1, 698	357	436	716
Salaried officers of corporations <sup>4</sup> .....	81	20	18	10	11	22
Manufacturing:						
Salaried employees <sup>4</sup> .....	469	127	212	25	47	58
Wage earners (average for the year) <sup>4</sup> .....	3, 779	1, 298	1, 296	301	375	508
Distribution.....	602	290	172	19	2	119
Construction.....	46	34	2	2	1	9
Other.....	1	1	1	1	1	1
Salaries and wages, total <sup>3</sup> .....	\$6, 027, 950	\$2, 140, 025	\$2, 161, 836	\$529, 315	\$299, 902	\$896, 812
Salaried officers <sup>4</sup> .....	541, 431	157, 817	163, 522	78, 278	27, 190	114, 018
Manufacturing:						
Salaries <sup>4</sup> .....	967, 525	251, 220	445, 559	40, 215	50, 802	110, 729
Wages.....	3, 434, 391	1, 250, 763	1, 212, 978	363, 182	217, 186	390, 282
Distribution.....	1, 070, 242	451, 375	339, 777	34, 925	3, 478	260, 687
Construction.....	74, 361	48, 850	2	3, 715	1, 300	20, 496
Other.....	1	1	1	1	1	1
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	7, 279, 439	1, 943, 235	2, 409, 458	944, 774	899, 639	1, 052, 333
Materials, supplies, and containers.....	6, 800, 091	1, 839, 227	2, 320, 856	922, 179	880, 834	837, 195
Fuel.....	182, 885	63, 413	62, 298	13, 549	4, 073	38, 052
Purchased electric energy.....	110, 143	40, 595	26, 504	9, 046	14, 132	19, 866
Contract work.....	186, 320	—	—	—	—	186, 320
Value of products.....	15, 859, 756	4, 403, 200	5, 108, 774	2, 187, 835	1, 450, 941	2, 709, 005
Value added by manufacture <sup>4</sup> .....	8, 580, 317	2, 459, 965	2, 699, 316	1, 243, 061	551, 302	1, 626, 673

<sup>1</sup> California, 2 establishments; Georgia, 1; Illinois, 1; Massachusetts, 4; Missouri, 1; North Carolina, 1; Ohio, 1; West Virginia, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

PENCILS (EXCEPT MECHANICAL) AND CRAYONS

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Pencils (Except Mechanical) and Crayons industry, all products, total value.....	\$15,859,750	\$18,288,013
Pencils (except mechanical) and crayons.....	13,265,813	15,366,530
Miscellaneous products not specified.....	140,899	2,921,483
Other products (not classified in this industry).....	2,453,044	
Pencils (except mechanical) and crayons, total value.....	15,133,566	16,723,349
Pencils (except mechanical) and crayons made in this industry.....	13,265,813	15,366,530
Pencils (except mechanical) and crayons made as secondary products in other industries.....	1,867,778	1,357,319

<sup>1</sup> Value of rubber erasers, water colors, school boxes, fountain pens, penholders and parts, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937	PRODUCT	1939	1937
Total value.....	\$15,133,586	\$16,723,849	Pencil parts made for sale as such, total value.....	\$2,545,278	\$2,301,338
Pencils:			Leads for mechanical pencils.....	1,049,335	999,164
Total gross.....	5,792,002	6,731,544	Leads for other than mechanical pencils, total value.....	537,308	634,013
Total value.....	\$9,245,946	\$11,017,018	Black.....	410,184	461,733
Black lead—			Indelible and colored.....	127,124	173,180
Gross.....	5,222,673	6,263,598	Other parts.....	958,035	607,261
Value.....	\$7,544,930	\$9,861,903	Crayons, including chalk, total value.....	\$3,342,362	\$3,405,493
Indelible and colored leads—			Chalk and gypsum.....	786,563	1,192,290
Gross.....	477,921	398,204	Wax.....	2,040,404	1,952,672
Value.....	\$1,368,903	\$1,054,106	Other materials.....	515,395	260,531
Other.....					
Gross.....	91,408	69,742			
Value.....	\$332,113	\$101,009			

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	3,779	3,529	3,649	3,685	3,732	3,709	3,761	3,660	3,774	3,795	3,947	4,047	4,055
1937.....	4,416	4,094	4,266	4,445	4,545	4,593	4,569	4,601	4,524	4,539	4,485	4,298	4,027
Massachusetts.....	39	32	40	35	35	32	32	35	44	43	48	48	48
New Jersey.....	1,298	1,236	1,274	1,283	1,322	1,332	1,334	1,294	1,278	1,260	2,307	1,532	1,327
New York.....	1,296	1,207	1,220	1,232	1,244	1,253	1,281	1,202	1,278	1,285	1,359	1,462	1,502
Pennsylvania.....	301	286	303	297	302	304	305	307	299	312	309	301	297
Tennessee.....	375	315	354	379	370	342	354	370	415	410	397	408	385

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	40
Reporting expenditures for plant and equipment.....	29
Value of products:	
Total for the industry.....	\$15,859,756
Reporting expenditures for plant and equipment.....	14,929,576
Expenditures for plant and equipment:	
Total for the industry.....	252,840
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	42,973
Expenditures for new machinery and operating equipment.....	207,062
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	2,805

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$7,916,103	\$7,107,095
Finished products.....	3,126,254	2,768,350
Materials, supplies, etc.....	4,789,849	4,338,745
End of year, total.....	7,518,264	7,949,249
Finished products.....	2,623,063	3,406,125
Materials, supplies, etc.....	4,894,301	4,543,124
Value of products for the industry, total.....	15,859,756	18,288,013
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	15,821,725	17,858,750
Value for establishments not reporting inventories.....	38,031	420,263

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments.....	40
Number of establishments reporting power equipment.....	40
Prime movers, aggregate:	
Number.....	21
Horsepower.....	4,930
Prime movers, driving generators, steam engines—	
Number.....	11
Horsepower.....	4,695
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	125
Prime movers not driving generators, total—	
Number.....	10
Horsepower.....	235
Steam engines—	
Number.....	6
Horsepower.....	120
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—	
Number.....	4
Horsepower.....	115
Generators, driven by steam engines, kilowatt rating.....	3,370
Generators, ordinarily idle (included above), kilowatt rating.....	100
Electric motors, total:	
Number.....	2,964
Horsepower.....	11,169
Driven by purchased energy—	
Number.....	2,157
Horsepower.....	7,062
Driven by energy generated in establishments reporting—	
Number.....	807
Horsepower.....	4,107
Electric energy (kilowatt-hours):	
Generated in plant.....	3,758,781
Purchased.....	5,516,835

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.

# HAND STAMPS, STENCILS, AND BRANDS

[A preliminary report for this industry was issued November 27, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of rubber and metal stamps, dies, seals, and presses; steel letters and figures; stencils for use in painting, marking, or in addressing machines; irons for branding articles of merchandise, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939.....	289	2,211	\$2,615,029	\$3,204,438	\$10,811,835	\$7,607,897	287
1937.....	200	2,375	2,929,168	3,047,284	10,350,348	7,339,054	(5)
1935.....	277	2,265	2,331,825	2,750,070	9,338,102	6,588,032	(5)
1933.....	250	2,196	2,002,129	1,855,263	7,630,930	5,781,727	(5)
1931.....	238	2,496	3,370,835	2,394,753	10,045,300	7,650,613	(5)
1929.....	332	2,971	4,080,780	3,811,158	15,036,023	11,224,805	45
1927.....	203	2,663	3,841,771	3,733,718	14,155,607	10,421,859	15
1925.....	323	2,990	4,015,323	4,070,322	15,320,554	11,250,232	656
1923.....	255	2,312	3,034,974	3,103,320	11,130,930	8,027,616	(5)
1921.....	234	2,068	2,657,418	2,785,615	9,079,097	6,293,482	(5)
1919.....	382	2,136	2,261,287	3,148,067	9,336,558	6,187,891	556
1914.....	384	1,767	1,148,708	1,425,562	4,485,350	3,059,788	453
1909.....	361	1,651	951,814	1,127,303	3,073,025	2,545,722	(5)
1904.....	327	1,506	707,266	736,515	2,810,952	2,074,437	(5)
1899.....	360	1,470	696,267	663,370	2,611,412	1,048,042	(5)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> The figures for years prior to 1935 do not include cost of contract work.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	District of Columbia	Georgia	Illinois	Louisiana	Massachusetts	Michigan
Number of establishments <sup>1</sup> .....	289	29	7	3	3	30	4	23	11
Proprietors and firm members.....	217	28	2	1	3	15	3	16	17
Persons reported by manufacturing establishments, total <sup>2</sup> .....	3,333	198	76	23	17	694	22	200	100
Salaried officers of corporations <sup>3</sup> .....	217	14	12	2	2	32	1	12	3
Manufacturing: Salaried employees <sup>3</sup> .....	331	7	8	3	-----	09	3	21	9
Wage earners (average for the year) <sup>3</sup> .....	2,211	144	49	18	13	446	9	148	68
Distribution.....	568	33	7	-----	2	142	9	19	20
Construction.....	6	-----	-----	-----	-----	5	-----	-----	-----
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----
Salaries and wages, total <sup>3</sup> .....	\$4,696,867	\$302,184	\$158,150	\$40,278	\$23,270	\$906,100	\$26,813	\$268,438	\$151,059
Salaried officers <sup>3</sup> .....	832,881	56,262	57,628	6,500	4,060	101,268	2,800	49,508	11,948
Manufacturing: Salaries <sup>3</sup> .....	507,949	11,520	13,888	7,064	-----	113,697	2,241	30,832	12,528
Wages.....	2,615,029	196,191	79,279	26,714	17,270	600,841	10,825	163,141	96,460
Distribution.....	731,183	39,211	7,355	-----	1,940	181,561	10,887	24,479	30,083
Construction.....	9,825	-----	-----	-----	-----	8,512	-----	478	-----
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	3,204,438	219,678	54,985	52,313	25,137	597,568	19,406	139,783	67,801
Materials, supplies, and containers.....	3,003,748	211,514	52,440	40,515	24,473	500,647	18,687	123,642	59,384
Fuel.....	54,119	1,828	1,037	1,218	162	13,741	125	3,434	1,975
Purchased electric energy.....	88,134	4,573	1,508	639	502	15,384	644	4,805	3,168
Contract work.....	58,437	1,763	-----	941	-----	7,766	-----	7,902	3,274
Value of products.....	10,811,835	773,802	275,480	107,556	70,887	1,990,159	62,877	622,308	328,842
Value added by manufacture <sup>4</sup> .....	7,607,897	554,124	220,495	55,243	45,750	1,302,591	43,471	482,525	261,041

See footnotes at end of table.

## CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	Minnesota	Missouri	New Jersey	New York	Ohio	Pennsylvania	Rhode Island	Texas	Washington	Other States <sup>4</sup>
Number of establishments <sup>1</sup> .....	7	9	13	54	23	25	5	9	5	29
Proprietors and firm members.....	6	5	12	33	21	23	1	7	2	22
Persons reported by manufacturing establishments, total <sup>2</sup> .....	60	85	171	650	161	530	56	35	59	197
Salaried officers of corporations <sup>2</sup> .....	1	3	9	56	14	26	7	2	4	17
Manufacturing:										
Salaried employees <sup>2</sup> .....	11	2	27	72	18	43	5	3	3	27
Wage earners (average for the year) <sup>3</sup> .....	42	66	122	430	96	334	29	27	39	133
Distribution.....	6	14	13	91	34	127	15	3	13	20
Construction.....				1						
Other.....										
Salaries and wages, total <sup>2</sup> .....	\$82,600	\$102,768	\$240,073	\$908,504	\$245,220	\$752,400	\$79,538	\$44,963	\$76,411	\$247,954
Salaried officers <sup>2</sup> .....	4,000	11,580	51,970	172,092	54,211	109,060	18,050	8,600	6,791	45,594
Manufacturing:										
Salaries <sup>2</sup> .....	18,031	4,544	36,166	100,583	26,415	79,958	6,941	3,720	5,065	34,456
Wages.....	33,467	74,935	128,707	515,818	111,661	390,064	40,411	27,813	51,163	151,219
Distribution.....	7,108	11,709	23,230	110,176	52,942	172,469	14,136	4,800	13,402	16,685
Construction.....				835						
Other.....										
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	53,822	84,521	197,679	709,438	158,866	511,768	34,280	35,749	58,354	183,281
Materials, supplies, and containers.....	40,649	77,635	180,055	667,320	147,750	481,647	20,744	33,600	56,053	170,944
Fuel.....	823	1,316	3,506	9,561	2,195	8,802	480	595	495	2,885
Purchased electric energy.....	2,550	2,370	4,507	17,125	4,945	15,393	1,441	930	1,806	5,799
Contract work.....	764	3,200	611	15,492	3,076	5,926	2,024	515	3,653	
Value of products.....	191,271	280,555	567,184	2,068,086	513,575	1,745,821	245,816	148,454	181,155	629,007
Value added by manufacture <sup>4</sup> .....	137,449	205,034	369,505	1,358,648	354,709	1,234,053	211,527	112,705	122,801	445,726

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.<sup>4</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.<sup>5</sup> Alabama, 1 establishment; Arkansas, 1; Colorado, 2; Florida, 2; Indiana, 2; Iowa, 1; Kansas, 1; Kentucky, 1; Maine, 1; Maryland, 4; Nebraska, 2; Oklahoma, 2; Oregon, 2; Tennessee, 2; Utah, 1; Virginia, 2; Wisconsin, 2.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production figures were collected for this industry; therefore, no figures for the above tables are available.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,211	2,193	2,209	2,251	2,232	2,204	2,191	2,161	2,162	2,180	2,211	2,252	2,274
1937.....	2,375	2,346	2,366	2,399	2,410	2,404	2,371	2,363	2,358	2,370	2,394	2,364	2,356
1929.....	2,671	2,641	2,634	2,674	2,655	2,657	2,675	2,638	2,643	2,681	2,600	2,629	2,622
California.....	144	145	146	144	144	142	143	142	139	144	146	145	146
Connecticut.....	49	48	49	49	49	49	48	47	50	51	50	50	50
District of Columbia.....	18	19	18	19	18	18	17	17	17	17	17	18	18
Georgia.....	13	13	13	13	13	13	13	13	13	13	13	13	13
Illinois.....	446	461	459	452	449	448	452	437	441	433	422	444	449
Louisiana.....	9	9	9	9	9	9	9	9	9	9	9	9	9
Maryland.....	47	47	46	46	46	45	46	43	43	50	48	51	51
Massachusetts.....	148	143	146	147	150	151	147	145	147	149	148	149	156
Michigan.....	68	71	72	77	69	62	62	66	60	67	68	69	70
Minnesota.....	42	41	42	41	42	41	41	40	40	42	42	43	43
Missouri.....	66	65	64	65	66	66	67	66	67	67	67	68	68
New Jersey.....	122	120	120	123	123	123	123	116	124	124	124	123	123
New York.....	430	421	426	468	443	418	414	418	427	413	435	438	434
Ohio.....	95	95	96	96	93	93	94	92	94	96	93	90	95
Pennsylvania.....	334	315	321	321	336	342	335	329	306	335	340	352	355
Rhode Island.....	29	28	30	29	27	28	28	28	28	28	29	30	31
Texas.....	27	27	26	25	27	28	26	27	27	27	27	27	27
Washington.....	39	38	38	39	40	40	40	40	39	39	39	33	39

HAND STAMPS, STENCILS, AND BRANDS

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	289
Reporting expenditures for plant and equipment.....	128
Value of products:	
Total for the industry.....	\$10,811,835
Reporting expenditures for plant and equipment.....	6,677,509
Expenditures for plant and equipment:	
Total for the industry.....	236,706
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	71,855
Expenditures for new machinery and operating equipment.....	143,868
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	16,763
Expenditures unclassified.....	4,220

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,330,068	\$1,328,802
Finished products.....	459,336	504,709
Materials, supplies, etc.....	870,732	824,183
End of year, total.....	1,416,268	1,405,153
Finished products.....	497,615	530,042
Materials, supplies, etc.....	918,653	875,111
Value of products for the industry, total.....	10,811,835	10,386,348
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	9,957,593	9,428,826
Value for establishments not reporting inventories.....	854,242	957,522

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	289	332
Number of establishments reporting power equipment.....	288	282
Prime movers, aggregate:		
Number.....	6	2
Horsepower.....	237	45
Prime movers, driving generators, total--		
Number.....	3	
Horsepower.....	220	
Steam engines--		
Number.....	2	
Horsepower.....	00	
Diesel and semi-Diesel engines--		
Number.....	1	
Horsepower.....	160	
Prime movers not driving generators, total--		
Number.....	3	2
Horsepower.....	67	45
Steam engines--		
Number.....	2	
Horsepower.....	37	
Diesel and semi-Diesel engines--		
Number.....		
Horsepower.....		
Other internal-combustion engines <sup>1</sup> --		
Number.....	1	2
Horsepower.....	30	45
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	7	
Generators, kilowatt rating, total.....	115	
Generators, driven by--		
Steam engines, kilowatt rating.....	40	
Diesel and semi-Diesel engines, kilowatt rating.....	75	
Electric motors, total:		
Number.....	2,670	1,920
Horsepower.....	3,890	3,551
Driven by purchased energy--		
Number.....	2,612	1,920
Horsepower.....	3,773	3,551
Driven by energy generated in establishments reporting:		
Number.....	58	
Horsepower.....	123	
Electric energy purchased (kilowatt-hours).....	2,430,056	2,682,457

<sup>1</sup> Gas, gasoline, etc.

# ARTISTS' MATERIALS

(A preliminary report for this industry was issued November 27, 1940)

**Description of the industry.**—The principal products of the establishments classified in this industry are canvas board, prepared canvases or frames, air brushes for portrait work, air compressors for art work, easels, drawing tables and boards, palettes, sketch boxes, and pantographs; oil colors; gold and bronze mixtures, powders, paints, and sizes; gold and aluminum enamel and paint for china painting; pyrography goods, including platinum points; drawing inks; and drafting materials.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1929 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939.....	42	397	\$464,389	\$2,018,727	\$4,070,141	\$2,051,414	15
1937.....	40	372	402,606	1,281,514	2,782,730	1,501,216	( <sup>5</sup> )
1935.....	47	350	336,988	1,229,387	2,431,162	1,201,775	( <sup>5</sup> )
1933.....	38	265	289,203	938,891	2,136,740	1,147,849	( <sup>5</sup> )
1931.....	45	328	368,026	1,210,930	2,544,100	1,333,170	( <sup>5</sup> )
1929.....	51	623	793,941	2,997,826	5,939,740	2,941,914	( <sup>5</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> The figures for years prior to 1935 do not include cost of contract work.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**  
 (See GENERAL EXPLANATIONS—Disclosure of data for individual establishments)

ITEM	United States	Illinois	New York	Ohio	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	42	4	15	9	14
Proprietors and firm members.....	29	6	9	5	9
Persons reported by manufacturing establishments, total <sup>3</sup> .....	614	22	125	112	350
Salaried officers of corporations <sup>4</sup> .....	31	.....	17	6	8
Manufacturing: Salaried employees <sup>5</sup> .....	106	4	13	12	77
Wage earners (average for the year) <sup>6</sup> .....	397	15	85	68	230
Distribution.....	80	3	10	26	41
Construction.....	.....	.....	.....	.....	.....
Other.....	.....	.....	.....	.....	.....
Salaries and wages, total <sup>7</sup> .....	\$910,800	\$28,468	\$200,814	\$198,126	\$483,392
Salaried officers <sup>8</sup> .....	141,807	.....	65,363	37,020	39,434
Manufacturing: Salaries <sup>9</sup> .....	179,818	4,415	21,204	15,290	138,909
Wages <sup>10</sup> .....	464,389	19,896	99,059	89,150	256,284
Distribution.....	124,786	4,157	15,198	56,666	48,765
Construction.....	.....	.....	.....	.....	.....
Other.....	.....	.....	.....	.....	.....
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	2,018,727	29,800	331,034	218,911	1,438,923
Materials, supplies, and containers.....	1,936,320	27,653	321,349	200,720	1,386,598
Fuel.....	23,338	454	2,477	3,315	17,092
Purchased electric energy.....	58,030	663	7,258	14,876	36,233
Contract work.....	1,039	1,039	.....	.....	.....
Value of products.....	4,070,141	111,815	727,368	534,903	2,696,065
Value added by manufacture <sup>11</sup> .....	2,051,414	82,006	396,274	315,992	1,257,142

<sup>1</sup> California, 1 establishment; Connecticut, 1; Massachusetts, 1; Michigan, 1; New Jersey, 6; Pennsylvania, 3; Wisconsin, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929**

No detailed production data for this industry were collected; therefore, no figures are available for the above tables.

**TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939**

(See GENERAL EXPLANATIONS—Disclosure of data for individual establishments)

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—													
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1939.....	397	397	402	396	377	367	363	366	368	403	440	447	443		
1937.....	372	343	357	380	392	361	392	392	373	357	374	350	352		
Illinois.....	15	15	14	14	14	14	15	15	15	15	14	16	15		
New Jersey.....	58	60	58	62	62	62	55	55	55	55	55	56	56		
New York.....	85	81	85	86	84	85	83	81	81	83	90	91	91		
Ohio.....	68	61	68	66	66	65	68	68	67	67	73	72	72		
Pennsylvania.....	96	89	88	93	93	92	92	96	98	101	106	105	104		

**TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939**

	1939
Number of establishments:	42
Total for the industry.....	20
Reporting expenditures for plant and equipment.....	.....
Value of products:	\$4,070,141
Total for the industry.....	2,663,429
Reporting expenditures for plant and equipment.....	.....
Expenditures for plant and equipment:	67,522
Total for the industry.....	.....
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	10,078
Expenditures for new machinery and operating equipment.....	49,775
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	7,503
Expenditures unclassified.....	70

**TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937**

	1939	1937
Inventories:	\$933,886	\$705,145
Beginning of year, total.....	616,875	389,571
Finished products.....	317,011	405,574
Materials, supplies, etc.....	.....	.....
End of year, total.....	1,047,096	870,741
Finished products.....	664,021	418,040
Materials, supplies, etc.....	383,075	452,701
Value of products for the industry, total.....	4,070,141	2,782,730
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	3,876,396	2,040,196
Value for establishments not reporting inventories.....	193,745	133,534

**TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>**

	1939
Number of establishments.....	42
Number of establishments reporting power equipment.....	42
Prime movers, aggregate:	1
Number.....	15
Horsepower.....	.....
Prime movers not driving generators, total—	1
Number.....	15
Horsepower.....	.....
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—	1
Number.....	16
Horsepower.....	.....
Electric motors, total:	519
Number.....	2,275
Horsepower.....	.....
Driven by purchased energy—	519
Number.....	2,275
Horsepower.....	.....
Driven by energy generated in establishments reporting—	.....
Number.....	.....
Horsepower.....	.....
Electric energy purchased (kilowatt-hours).....	3,656,629

<sup>1</sup> Comparable data for 1929 not available.  
<sup>2</sup> Gas, gasoline, etc.

# CARBON PAPER AND INKED RIBBONS

[A preliminary report for this industry was issued October 30, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of carbon paper for typewriters, salesbooks, etc., and of inked ribbons for typewriters, adding machines, cash registers, etc.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1927 to 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939.....	58	1,741	\$2,132,172	\$10,156,587	\$20,776,745	\$10,620,158	5,441
1937.....	50	1,627	1,991,398	9,178,247	17,859,622	8,681,375	( <sup>5</sup> )
1935.....	56	1,425	1,620,239	7,501,885	14,604,797	7,192,912	( <sup>6</sup> )
1933.....	47	1,171	1,242,933	5,156,005	11,225,436	6,068,831	( <sup>7</sup> )
1931.....	54	1,198	1,402,688	6,083,788	13,475,518	7,441,780	( <sup>7</sup> )
1929.....	57	1,251	1,702,358	7,990,753	17,295,140	9,304,387	356
1927 <sup>7</sup> .....	49	1,078	1,514,230	6,019,768	13,793,128	7,773,370	672

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> The figures for years prior to 1935 do not include cost of contract work.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.  
<sup>7</sup> No comparable statistics for prior years.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	New York	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	58	6	22	30
Proprietors and firm members.....	27	11	6	10
Persons reported by manufacturing establishments, total <sup>3</sup> .....	3,014	44	1,169	1,801
Salaried officers of corporations <sup>4</sup> .....	00		32	37
Manufacturing:				
Salaried employees <sup>5</sup> .....	371	2	136	233
Wage earners (average for the year) <sup>6</sup> .....	1,741	25	739	977
Distribution.....	812	16	250	546
Construction.....	21	1	12	8
Other.....				
Salaries and wages, total <sup>7</sup> .....	\$4,970,466	\$67,448	\$2,206,505	\$2,696,443
Salaried officers <sup>8</sup> .....	614,008		300,801	253,207
Manufacturing:				
Salaries <sup>9</sup> .....	745,473	7,848	845,292	392,333
Wages.....	2,132,172	35,277	977,470	1,119,419
Distribution.....	1,442,268	23,193	498,084	919,991
Construction.....	36,535	1,130	23,012	11,493
Other.....				

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued**

ITEM	United States	California	New York	Other States <sup>1</sup>
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	\$10,156,587	\$102,070	\$4,981,592	\$5,012,925
Materials, supplies, and containers.....	9,978,055	169,083	4,898,240	4,920,732
Fuel.....	81,226	1,434	30,192	49,600
Purchased electric energy.....	97,206	1,553	53,160	42,493
Contract work.....	100			100
Value of products.....	20,776,745	271,131	10,028,380	10,477,234
Value added by manufacture <sup>2</sup> .....	10,620,158	109,061	5,046,788	5,464,309

<sup>1</sup> Colorado, 1 establishment; Connecticut, 2; Illinois, 9; Iowa, 1; Massachusetts, 2; Michigan, 2; New Jersey, 3; Ohio, 4; Oregon, 1; Pennsylvania, 3; Tennessee, 1; Texas, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929**

	1939	1937	1929
Carbon Paper and Inked Ribbons industry, all products, total value.....	\$20,776,745	\$17,859,622	\$17,295,140
Carbon paper and inked ribbons.....	18,581,860	16,668,919	16,406,911
Miscellaneous products not specified.....	1,383,057	429,820	
Other products (not classified in this industry).....	749,237	694,819	888,229
Receipts for contract and repair work.....	62,591	66,064	
Carbon paper and inked ribbons, total value.....	18,908,815	18,326,903	16,781,452
Carbon paper and inked ribbons made in this industry.....	18,581,860	16,668,919	16,406,911
Carbon paper and inked ribbons made as secondary products in other industries.....	326,955	1,657,984	374,541

**TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929**

PRODUCT	1939	1937	1929
Total value.....	\$18,908,815	\$18,326,903	\$16,781,452
Carbon paper.....	11,727,097	11,496,128	10,157,384
Typewriter ribbons.....	5,427,022	5,223,908	5,471,363
Other inked ribbons.....	1,754,696	1,606,867	1,152,705

## CENSUS OF MANUFACTURES: 1939

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	1,741	1,698	1,703	1,728	1,733	1,733	1,720	1,705	1,708	1,723	1,763	1,838	1,843
1937	1,627	1,653	1,646	1,647	1,648	1,648	1,628	1,589	1,595	1,621	1,626	1,610	1,611
1929	1,251	1,229	1,254	1,260	1,260	1,254	1,256	1,242	1,239	1,242	1,260	1,264	1,264
California	25	24	24	24	25	25	26	26	26	27	25	26	25
Illinois	174	172	172	171	174	175	174	174	174	172	177	176	178
New Jersey	207	205	203	210	208	204	197	194	197	200	207	217	241
New York	739	719	722	731	731	735	738	737	739	742	759	759	755
Ohio	100	99	100	99	98	98	96	97	98	98	101	106	106
Pennsylvania	57	55	56	58	60	60	55	58	58	56	56	59	54

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	58
Reporting expenditures for plant and equipment	41
Value of products:	
Total for the industry	\$20,776,745
Reporting expenditures for plant and equipment	19,072,767
Expenditures for plant and equipment:	
Total for the industry	374,170
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	105,963
Expenditures for new machinery and operating equipment	253,581
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	11,626

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$3,960,764	\$3,366,183
Finished products	1,586,362	1,060,865
Materials, supplies, etc.	2,374,402	2,305,318
End of year, total	4,471,950	3,628,835
Finished products	1,672,408	1,129,068
Materials, supplies, etc.	2,799,462	2,499,167
Value of products for the industry, total	20,776,745	17,859,622
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	20,747,292	17,697,556
Value for establishments not reporting inventories	29,453	162,066

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments	58	57
Number of establishments reporting power equipment	58	55
Prime movers, aggregate:		
Number	11	13
Horsepower	5,441	856

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators, total—		
Number	6	13
Horsepower	5,116	1,856
Steam engines—		
Number	4	10
Horsepower	616	1,803
Steam turbines—		
Number	2	
Horsepower	4,600	
Diesel and semi-Diesel engines—		
Number		13
Horsepower		153
Other internal-combustion engines <sup>2</sup> —		
Number		
Horsepower		
Prime movers not driving generators, total—		
Number	5	
Horsepower	325	
Steam engines—		
Number	3	( <sup>4</sup> )
Horsepower	275	
Internal-combustion engines, <sup>3</sup> other than Diesel and semi-Diesel—		
Number	2	
Horsepower	50	
Prime movers not driving generators, ordinarily idle (included above), horsepower	25	
Generators, kilowatt rating, total	3,328	255
Generators, driven by—		
Steam engines, kilowatt rating	328	( <sup>4</sup> )
Steam turbines, kilowatt rating	3,000	
Electric motors, total:		
Number	2,115	734
Horsepower	5,712	2,956
Driven by purchased energy—		
Number	1,649	593
Horsepower	4,295	2,786
Driven by energy generated in establishments reporting—		
Number	466	141
Horsepower	1,417	170
Electric energy (kilowatt-hours):		
Generated in plant	929,962	( <sup>4</sup> )
Purchased	4,477,285	1,061,638

<sup>1</sup> Includes data for prime movers not driving generators.<sup>2</sup> Gas, gasoline, etc.<sup>3</sup> Not called for on schedule.<sup>4</sup> Data not available.

# BUTTONS

[A preliminary report for this industry was issued December 11, 1940]

**Description of the industry.**—The establishments in this industry are those whose principal products are buttons, parts of buttons, and button blanks and molds, of all materials except precious metals and precious or semiprecious stones.

**Duplication in cost of materials and value of products.**—The value of products for this industry includes an indeterminate amount of duplication representing chiefly the value of button blanks and molds, and to

a small extent the value of parts, backs, etc., made and sold as products by certain establishments and purchased and used as materials by other establishments in the industry; and the cost of materials, etc., includes approximately the same amount of duplication. (The amounts of duplication in the two figures are not exactly the same, since some of the blanks, molds, etc., were made in one year and used as materials in the manufacture of complete buttons in the following year.)

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1899	316	10,972	\$8,622,711	\$12,473,349	\$29,817,188	\$17,343,839	3,601
1907	291	12,026	9,256,231	13,578,266	31,291,279	17,713,013	(9)
1915	297	10,288	8,151,186	11,274,521	28,030,735	16,756,214	(9)
1923	200	9,888	6,705,511	8,014,088	22,411,607	13,787,519	(9)
1931	212	8,224	6,661,117	8,303,222	21,524,572	13,221,350	(9)
1929	242	9,034	8,813,927	11,501,401	28,977,919	17,470,518	4,284
1927	229	9,642	9,435,821	11,237,579	29,130,168	17,802,589	5,470
1925	289	11,513	10,893,176	12,372,646	32,468,435	20,085,789	6,297
1923	336	11,800	11,229,008	13,109,682	32,750,190	19,550,608	6,303
1921	346	9,686	8,511,449	10,406,511	26,533,891	16,128,380	(9)
1919	557	15,577	13,772,599	10,745,357	41,840,459	26,095,102	7,589
1914	517	14,511	6,424,399	8,702,200	20,711,979	12,006,779	10,053
1909	444	16,427	6,789,177	9,541,291	22,708,065	13,166,774	9,227
1904	275	10,507	3,680,196	4,144,446	11,133,769	6,080,825	5,612
1899	238	8,685	2,826,238	2,803,240	7,695,910	4,892,664	2,712

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule. \* Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

ITEM	United States	Arkansas	California	Connecticut	Delaware	Illinois	Iowa	Massachusetts	New Jersey	New York	Ohio	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup>	316	6	5	10	7	21	31	13	36	154	3	10	20
Proprietors and firm members	265	3	6	12	8	10	7	8	35	157	1	6	12
Persons reported by manufacturing establishments, total <sup>3</sup>	12,418	152	29	1,105	216	458	1,795	607	1,632	4,250	50	254	1,800
Salaried officers of corporations <sup>4</sup>	229			11		12	30	8	26	118	1	4	10
Manufacturing:													
Salaried employees <sup>5</sup>	729	9	1	101	4	13	90	36	103	245	2	13	112
Wage earners (average for the year) <sup>6</sup>	10,972	143	28	989	212	429	1,597	547	1,457	3,076	56	234	1,603
Distribution	442			64		4	78	16	13	206		3	68
Construction	46								33	5			8
Other													
Salaried and wages, total <sup>3</sup>	\$11,764,496	\$90,158	\$24,891	\$1,341,441	\$170,139	\$289,418	\$1,324,300	\$643,235	\$1,720,266	\$4,193,803	\$41,487	\$204,956	\$1,702,312
Salaried officers <sup>3</sup>	1,020,223			79,802		29,162	157,895	34,285	116,218	508,006	3,000	7,730	84,125
Manufacturing:													
Salaries <sup>3</sup>	1,268,278	6,092	1,300	178,602	5,926	14,862	130,493	72,877	175,447	426,015	1,888	26,635	228,051
Wages	8,622,711	84,066	23,591	944,485	173,213	239,314	893,006	503,036	1,357,991	2,971,396	36,599	154,450	1,242,155
Distribution	764,009			108,652		6,080	142,906	33,037	55,837	279,936		16,132	124,329
Construction	88,375			31,900					24,373	8,450			23,652
Other													
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	12,473,349	60,670	17,641	1,070,487	91,000	193,258	1,502,454	1,152,108	1,798,475	4,497,005	24,996	199,523	1,865,732
Materials, supplies, and containers	11,407,301	56,584	16,503	1,001,080	86,273	186,346	1,293,138	1,109,334	1,571,010	4,203,740	23,700	186,108	1,672,876
Fuel	193,113	688	428	27,227	466	2,033	26,687	6,599	32,547	47,732	352	3,682	44,672
Purchased electric energy	404,675	3,398	710	37,273	4,261	4,879	30,920	32,614	75,391	139,414	904	9,783	68,172
Contract work	468,260			4,907			151,703	3,561	118,927	109,110	40		80,012
Value of products	29,817,188	156,926	72,258	3,025,490	375,716	554,410	3,062,788	1,982,847	4,214,157	11,208,100	73,725	618,259	4,477,505
Value added by manufacture <sup>4</sup>	17,343,839	86,256	54,617	1,955,008	284,713	361,152	1,560,334	830,739	2,415,682	6,708,101	48,729	418,736	2,011,774

<sup>1</sup> Indiana, 2 establishments; Kentucky, 1; Maine, 1; Maryland, 2; Michigan, 4; Minnesota, 1; Missouri, 2; New Hampshire, 1; Tennessee, 1; Texas, 2; Virginia, 2; Washington, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—General classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

## CENSUS OF MANUFACTURES: 1939

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Buttons industry, all products, total value.....	\$29,817,188	\$31,291,279
Buttons, button blanks, parts, etc., made in the industry.....	27,012,169	28,767,045
Receipts for contract and repair work.....	942,505	37,403
Other products (not classified in this industry).....	1,862,514	2,420,831
Buttons, button blanks, parts, etc., aggregate value.....	28,682,918	29,865,420
Buttons, button blanks, parts, etc., made in this industry.....	27,012,169	28,767,045
Buttons, button blanks, parts, etc., made as secondary products in other industries.....	1,670,749	1,098,375

<sup>1</sup> Value of dress ornaments, molded plastic novelties, buckles, bag ornaments, snap fasteners, and clasps.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Aggregate value.....	\$28,682,918	\$29,865,420
Buttons:		
Total gross.....	72,960,329	72,033,855
Total value.....	\$25,547,674	\$27,270,721
Clothing:		
Galalith:		
Gross.....	13,827,501	12,340,485
Value.....	\$3,000,495	\$3,383,670
Synthetic-resin: <sup>1</sup>		
Gross.....	15,438,819	9,407,563
Value.....	\$4,080,941	\$4,341,742
Cellulose compounds:		
Gross.....	824,884	327,427
Value.....	\$1,156,859	\$710,657
Metal:		
Embossed with a design, device, pattern, or lettering:		
Gross.....		2,083,642
Value.....	\$6,966,149	\$1,115,875
Other metal:		
Gross.....	\$3,241,329	
Value.....		3,916,504
		\$1,501,115

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

	1939	1937
Buttons—Continued.		
Clothing—Continued.		
Covered with fabric: <sup>4</sup>		
Gross.....	2,474,213	4,771,615
Value.....	\$1,934,050	\$2,123,771
Pearl or shell:		
Fresh-water:		
Gross.....	11,238,191	17,184,120
Value.....	\$3,046,109	\$4,784,396
Ocean:		
Gross.....	9,131,443	7,836,541
Value.....	\$5,306,625	\$4,648,291
Vegetable-ivory:		
Gross.....	2,702,440	3,141,302
Value.....	\$1,535,020	\$1,005,022
Bone and horn:		
Gross.....	( <sup>5</sup> )	4,959,119
Value.....		\$715,896
Wood:		
Gross.....	728,399	785,597
Value.....	\$323,611	\$371,564
Other buttons and buttons not reported by kind: <sup>7</sup>		
Gross.....	9,628,290	5,279,950
Value.....	\$1,856,635	\$1,962,773
Parts of buttons, backs, etc., made for sale as such, value.....	\$969,254	( <sup>6</sup> )
Button blanks or molds:		
Made for sale as such:		
Gross.....	2,974,306	2,716,402
Value.....	\$890,101	\$545,046
Transferred to finishing plants under same ownership:		
Gross.....	5,477,214	10,952,478
Value.....	\$1,275,889	\$2,049,653

<sup>1</sup> Figures include data for buttons of horn and hoof composition and of compounds other than cellulose.

<sup>2</sup> Includes 37,000 gross valued at \$81,298 made as secondary products in other industries.

<sup>3</sup> Combined to avoid disclosing, exactly or approximately, figures reported by individual establishments.

<sup>4</sup> Covered buttons made for sale as such to the trade, not buttons covered to individual order.

<sup>5</sup> Includes 99,000 gross valued at \$77,525, made as secondary products in other industries.

<sup>6</sup> Included in value of "Other buttons and buttons not reported by kind," to avoid disclosing production reported by individual establishments.

<sup>7</sup> Includes bone and horn, collar and cuff, shoe, etc., buttons to avoid disclosing production reported by individual establishments.

<sup>8</sup> Includes 848,000 gross valued at \$313,639 made as secondary products in other industries.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	10,972	10,083	10,821	10,813	10,438	9,677	10,205	10,459	11,376	11,831	11,958	12,114	11,884
1937.....	12,026	13,303	13,270	13,014	13,325	12,871	12,261	11,349	11,852	11,509	10,746	10,449	9,762
1929.....	9,034	9,333	9,481	9,261	9,069	8,992	8,691	8,330	8,597	8,833	9,166	9,261	9,366
Arkansas.....	143	40	191	195	180	29	151	150	45	163	173	189	210
California.....	28	26	27	28	34	30	27	26	31	31	28	26	24
Connecticut.....	989	994	1,004	979	990	997	973	968	1,008	965	967	1,010	1,010
Delaware.....	212	220	220	216	221	224	213	140	207	216	210	221	223
Illinois.....	420	401	486	457	439	323	444	455	360	487	489	495	378
Iowa.....	1,597	1,377	1,602	1,732	1,597	1,418	1,419	1,509	1,710	1,797	1,827	1,683	1,498
Massachusetts.....	547	447	542	552	490	411	423	435	477	572	539	780	899
Michigan.....	239	230	241	237	240	227	223	230	235	235	248	252	255
New Jersey.....	1,457	1,325	1,375	1,391	1,402	1,424	1,458	1,455	1,478	1,513	1,543	1,558	1,597
New York.....	3,676	3,499	3,572	3,462	3,381	3,129	3,322	3,551	4,151	4,074	4,077	4,001	3,889
Ohio.....	56	16	68	68	65	8	62	67	63	62	60	64	63
Pennsylvania.....	234	223	228	230	232	236	241	195	211	220	265	267	262

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	316
Reporting expenditures for plant and equipment.....	181
Value of products:	
Total for the industry.....	\$20,817,188
Reporting expenditures for plant and equipment.....	21,365,241
Expenditures for plant and equipment:	
Total for the industry.....	691,850
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	96,607
Expenditures for new machinery and operating equipment.....	508,489
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	26,654
Expenditures unclassified.....	200

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$6,087,981	\$7,327,845
Finished products.....	3,257,684	3,203,552
Materials, supplies, etc.....	2,830,297	4,124,293
End of year, total.....	6,324,636	7,712,905
Finished products.....	3,303,787	3,732,072
Materials, supplies, etc.....	3,020,849	3,980,833
Value of products for the industry, total.....	20,817,188	31,291,270
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	28,532,230	28,544,618
Value for establishments not reporting inventories.....	1,284,958	2,746,651

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	316	242
Number of establishments reporting power equipment.....	313	208
Prime movers, aggregate:		
Number.....	32	49
Horsepower.....	3,601	4,284
Prime movers, driving generators, total—		
Number.....	13	149
Horsepower.....	1,755	14,284

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers,—Continued.		
Prime movers, driving generators—Continued.		
Steam engines—		
Number.....	5	29
Horsepower.....	965	13,564
Steam turbines—		
Number.....	1	
Horsepower.....	450	
Diesel and semi-Diesel engines—		
Number.....	6	
Horsepower.....	265	113
Other internal-combustion engines <sup>2</sup> —		
Number.....		1279
Horsepower.....		
Hydroturbines and water wheels—		
Number.....	1	17
Horsepower.....	75	1441
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	100	( <sup>3</sup> )
Prime movers not driving generators, total—		
Number.....	19	
Horsepower.....	1,846	
Steam engines—		
Number.....	11	
Horsepower.....	1,535	( <sup>3</sup> )
Diesel and semi-Diesel engines—		
Number.....	4	
Horsepower.....	135	
Hydroturbines and water wheels—		
Number.....	4	
Horsepower.....	176	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	265	( <sup>3</sup> )
Generators, kilowatt rating, total.....	826	468
Generators, driven by—		
Steam engines, kilowatt rating.....	250	
Steam turbines, kilowatt rating.....	300	( <sup>3</sup> )
Diesel and semi-Diesel engines, kilowatt rating.....	201	
Hydroturbines and water wheels, kilowatt rating.....	75	
Generators, ordinarily idle (included above), kilowatt rating.....	160	( <sup>3</sup> )
Electric motors, total:		
Number.....	3,537	1,886
Horsepower.....	14,037	11,079
Driven by purchased energy—		
Number.....	3,366	1,334
Horsepower.....	12,986	10,331
Driven by energy generated in establishments reporting—		
Number.....	171	52
Horsepower.....	1,081	748
Electric energy (kilowatt-hours):		
Generated in plant.....	601,345	( <sup>4</sup> )
Purchased.....	18,213,537	11,071,801

<sup>1</sup> Includes data for prime movers not driving generators.

<sup>2</sup> Gas, gasoline, etc.

<sup>3</sup> Not called for on schedule.

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

# COSTUME JEWELRY AND COSTUME NOVELTIES (JEWELRY OTHER THAN FINE JEWELRY)

[A preliminary report for this industry was issued December 6, 1940]

**Description of the industry.**—The establishments in this industry are those whose principal products are costume jewelry, costume novelties, and ornaments made of all materials except precious metals and precious stones.

**Statistics for prior census years.**—No statistics are available for years prior to 1937 as establishments in this industry were given a separate classification for the first time at the census for 1939. A special tabulation was made of the data for 1937 in order to obtain figures comparable with those for 1939.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	289	10,808	\$8,754,638	\$13,229,607	\$33,021,990	\$20,092,383	205
1937.....	240	10,165	9,338,685	11,673,020	29,928,567	18,255,547	(4)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Massachusetts	New Jersey	New York	Rhode Island	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	289	5	9	30	4	150	80	11
Proprietors and firm members.....	242	5	7	19	2	140	64	5
Persons reported by manufacturing establishments, total <sup>3</sup> .....	12,682	63	348	2,564	193	3,183	6,116	215
Salaried officers of corporations <sup>4</sup> .....	234	2	11	41	5	110	53	12
Manufacturing:								
Salaried employees <sup>4</sup> .....	993	8	27	283	7	204	426	38
Wage earners (average for the year) <sup>4</sup> .....	10,808	52	274	2,167	181	2,468	5,522	144
Distribution.....	596	1	36	35		890	104	21
Construction.....	51			38		2	11	
Other.....								
Salaries and wages, total <sup>5</sup> .....	\$12,612,943	\$47,650	\$329,252	\$2,844,547	\$111,508	\$3,734,821	\$5,273,129	\$272,036
Salaried officers <sup>4</sup> .....	1,264,308	629	48,800	295,537	40,250	472,031	350,741	55,720
Manufacturing:								
Salaries <sup>4</sup> .....	1,422,601	6,176	38,171	433,486	4,223	318,305	591,742	30,498
Wages.....	8,754,638	39,183	189,457	1,660,752	67,035	2,277,524	4,105,178	125,509
Distribution.....	1,097,686	1,662	52,824	104,938		664,046	213,907	60,309
Construction.....	73,710			59,834		2,315	11,561	
Other.....								
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	13,829,607	42,188	575,976	2,427,943	128,495	4,463,299	6,003,507	188,199
Materials, supplies, and containers.....	13,335,066	40,374	570,666	2,318,404	117,476	4,299,993	5,808,262	179,891
Fuel.....	75,136	453	2,203	27,614	432	11,034	31,591	1,809
Purchased electric energy.....	183,007	431	3,107	51,024	587	58,280	66,988	2,500
Contract work.....	236,398	930		30,901	10,000	93,992	96,666	3,900
Value of products.....	33,021,990	129,553	1,183,642	6,780,698	287,806	10,987,044	13,939,812	613,435
Value added by manufacture <sup>5</sup> .....	20,092,383	87,365	607,666	4,352,755	159,311	6,523,745	7,936,305	425,236

<sup>1</sup> Connecticut, 1 establishment; Florida, 1; Missouri, 1; Ohio, 2; Pennsylvania, 1; Tennessee, 1; Texas, 2; Washington, 2.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

COSTUME JEWELRY AND COSTUME NOVELTIES

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production figures were collected for this industry for 1939.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	10,808	9,428	9,955	9,989	9,319	8,076	9,069	10,160	11,542	12,815	13,392	13,908	11,440
1937	10,165	9,145	9,086	9,623	8,911	8,962	8,857	9,425	10,719	11,692	12,431	12,123	10,421
California	52	47	47	48	48	49	49	49	48	51	48	50	87
Illinois	274	236	239	234	254	242	229	268	330	316	316	355	303
Massachusetts	2,167	1,767	1,876	1,920	1,866	1,851	2,069	2,038	2,290	2,478	2,640	2,915	2,295
New Jersey	181	178	184	183	173	177	167	168	175	187	198	194	177
New York	2,468	2,176	2,280	2,308	2,155	1,921	1,946	2,208	2,590	2,981	3,161	3,225	2,700
Rhode Island	5,522	4,980	5,213	5,201	4,713	4,352	4,522	5,372	5,965	6,586	6,768	6,869	5,725

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	289
Reporting expenditures for plant and equipment	116
Value of products:	
Total for the industry	\$33,921,990
Reporting expenditures for plant and equipment	24,898,929
Expenditures for plant and equipment:	
Total for the industry	282,031
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	112,508
Expenditures for new machinery and operating equipment	154,737
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	13,721
Expenditures unclassified	1,065

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$3,130,630	\$3,024,050
Finished products	1,324,268	1,581,915
Materials, supplies, etc.	1,815,362	2,042,135
End of year, total	3,689,776	3,490,546
Finished products	1,326,358	1,631,203
Materials, supplies, etc.	2,363,418	1,859,343
Value of products for the industry, total	33,921,990	29,928,567
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	33,385,246	28,761,841
Value for establishments not reporting inventories	536,744	1,166,726

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments	289
Number of establishments reporting power equipment	288
Prime movers, aggregate:	
Number	7
Horsepower	295
Prime movers, driving generators, total—	
Number	4
Horsepower	91
Diesel and semi-Diesel engines—	
Number	2
Horsepower	41
Hydroturbines and water wheels—	
Number	2
Horsepower	50
Prime movers not driving generators, total—	
Number	3
Horsepower	204
Steam engines—	
Number	1
Horsepower	64
Hydroturbines and water wheels—	
Number	2
Horsepower	140
Generators, kilowatt rating, total	40
Generators, driven by—	
Diesel and semi-Diesel engines, kilowatt rating	25
Hydroturbines and water wheels, kilowatt rating	15
Electric motors, total:	
Number	3,091
Horsepower	5,733
Driven by purchased energy—	
Number	3,081
Horsepower	5,721
Driven by energy generated in establishments reporting—	
Number	10
Horsepower	12
Electric energy purchased (kilowatt-hours)	5,783,474

<sup>1</sup> Comparable data for 1929 not available.

## JEWELRY CASES AND INSTRUMENT CASES

[A preliminary report for this industry was issued December 10, 1940]

The establishments in this industry are those whose principal products are jewelry cases, fancy boxes and trays for jewelry, instruments, cutlery, eyeglasses, combs, cigarettes, pipes, toilet sets, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939	132	5,127	\$4,691,283	\$6,478,978	\$16,670,434	\$10,191,466	10
1937	91	4,788	3,692,251	4,859,613	12,202,471	7,342,858	(1)
1935	74	2,629	2,251,701	2,602,191	7,155,616	4,553,425	(1)
1933	62	1,095	840,573	1,194,811	3,095,753	1,900,942	(1)
1931	92	1,398	1,414,842	1,941,319	4,910,423	2,978,104	(1)
1929	113	2,269	2,472,880	3,324,459	8,826,727	5,502,268	234
1927	107	2,406	2,597,056	3,293,986	8,510,065	5,516,079	15
1925	125	2,748	2,710,209	3,832,577	10,114,073	6,281,496	467
1923	111	2,977	2,904,430	4,417,256	10,506,478	6,089,222	(1)
1921	107	2,241	2,087,691	2,712,684	7,035,778	4,323,094	(1)
1919	142	2,734	2,147,648	3,505,840	8,126,300	4,620,460	302
1914	125	2,393	1,093,672	1,449,848	3,620,838	2,170,990	253
1909	120	2,070	953,666	1,221,277	3,116,619	1,895,242	160
1904	97	1,676	623,887	842,988	2,291,648	1,448,060	125
1899	63	819	322,566	435,717	1,156,977	721,200	90

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Massachusetts	New Jersey	New York	Pennsylvania	Rhode Island	Other States <sup>1</sup>
Number of establishments <sup>2</sup>	132	4	11	12	9	67	6	9	14
Proprietors and firm members	106	5	12	5	6	58	6	7	7
Persons reported by manufacturing establishments, total <sup>3</sup>	6,073	62	640	749	520	2,377	115	470	1,131
Salaried officers of corporations <sup>3</sup>	98		8	9	9	58	1	9	9
Manufacturing:									
Salaried employees <sup>3</sup>	480	3	60	79	47	121	13	47	110
Wage earners (average for the year) <sup>4</sup>	5,127	58	545	605	398	2,049	89	415	968
Distribution	310	1	27	16	66	154	12	8	26
Construction	58			40					18
Other									
Salaries and wages, total <sup>5</sup>	\$7,152,269	\$44,737	\$837,014	\$801,724	\$764,487	\$2,854,217	\$94,317	\$484,763	\$1,271,040
Salaried officers <sup>3</sup>	681,217		89,400	69,536	58,096	339,347	3,200	35,090	86,548
Manufacturing:									
Salaries <sup>3</sup>	864,727	3,068	128,220	167,300	80,256	195,325	21,786	74,842	163,930
Wages	4,691,283	37,669	561,684	492,799	476,751	1,809,647	61,254	350,911	910,568
Distribution	853,508	4,000	67,710	25,725	149,384	509,893	8,077	23,920	64,794
Construction	61,564			46,364					15,200
Other									
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	6,478,978	47,288	722,391	667,379	774,196	2,820,619	125,941	299,480	1,021,484
Materials, supplies, and containers	6,243,778	45,123	706,187	644,700	758,275	2,731,793	105,453	270,590	972,657
Fuel	50,253	1,052	7,243	4,928	4,774	13,856	727	5,709	11,964
Purchased electric energy	127,285	1,113	8,961	10,907	11,147	56,880	645	11,469	26,383
Contract work	57,662			6,844		18,490	19,116	2,712	10,500
Value of products	16,670,434	124,331	2,014,666	1,648,602	1,790,663	6,953,566	804,986	897,815	2,935,305
Value added by manufacture <sup>6</sup>	10,191,466	77,043	1,292,276	981,223	1,016,487	4,132,747	179,045	598,335	1,914,321

<sup>1</sup> Connecticut, 5 establishments; Indiana, 1; Kentucky, 2; Maryland, 1; Minnesota, 1; Missouri, 1; Ohio, 2; Wisconsin, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

JEWELRY CASES AND INSTRUMENT CASES

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production figures were collected for this industry for 1939.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	5,127	4,155	4,567	4,798	4,733	4,731	4,695	4,664	4,962	5,588	6,225	6,541	5,874
1937.....	4,788	3,769	4,164	4,399	4,444	4,449	4,534	4,628	5,064	5,477	6,003	5,578	4,965
1929.....	2,269	2,086	2,164	2,193	2,161	2,208	2,251	2,209	2,235	2,336	2,445	2,534	2,418
California.....	58	44	57	63	69	73	62	62	58	62	56	50	45
Connecticut.....	738	700	719	723	667	680	668	767	740	801	763	818	816
Illinois.....	545	464	433	511	549	546	549	530	533	541	611	616	600
Massachusetts.....	605	445	507	526	562	550	504	455	519	654	807	901	844
New Jersey.....	398	253	312	339	251	269	335	339	374	490	648	638	499
New York.....	2,049	1,590	1,825	1,938	1,938	1,922	1,872	1,824	2,044	2,347	2,538	2,561	2,190
Pennsylvania.....	89	76	80	91	104	116	90	80	73	85	84	91	100
Rhode Island.....	415	369	361	393	383	353	424	416	406	369	456	551	468

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	132
Reporting expenditures for plant and equipment.....	64
Value of products:	
Total for the industry.....	\$16,670,434
Reporting expenditures for plant and equipment.....	12,484,701
Expenditures for plant and equipment:	
Total for the industry.....	361,921
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	27,952
Expenditures for new machinery and operating equipment.....	308,547
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	25,197
Expenditures unclassified.....	225

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,872,779	\$1,150,136
Finished products.....	682,303	433,979
Materials, supplies, etc.....	1,190,476	726,157
End of year, total.....	2,142,402	1,487,122
Finished products.....	679,085	547,844
Materials, supplies, etc.....	1,463,317	939,278
Value of products for the industry, total.....	16,670,434	12,202,471
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	14,405,484	10,403,158
Value for establishments not reporting inventories.....	2,265,000	1,799,313

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	132	113
Number of establishments reporting power equipment.....	131	96
Prime movers, aggregate:		
Number.....	1	12
Horsepower.....	10	234
Prime movers, driving generators, total:		
Number.....		112
Horsepower.....		1,234
Steam engines—		
Number.....		18
Horsepower.....		1,131
Diesel and semi-Diesel engines—		
Number.....		12
Horsepower.....		124
Other internal-combustion engines—		
Number.....		12
Horsepower.....		179
Hydroturbines and water wheels—		
Number.....		12
Horsepower.....		179
Prime movers, not driving generators—		
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—		
Number.....	1	( <sup>1</sup> )
Horsepower.....	10	54
Generators, kilowatt rating.....		
Electric motors, total:		
Number.....	1,895	650
Horsepower.....	4,832	1,331
Driven by purchased energy—		
Number.....	1,895	629
Horsepower.....	4,832	1,260
Driven by energy generated in establishments reporting—		
Number.....		21
Horsepower.....		62
Electric energy, purchased (kilowatt-hours).....	4,577,151	1,102,484

<sup>1</sup> Includes data for prime movers not driving generators.  
<sup>2</sup> Gas, gasoline, etc. <sup>3</sup> Not called for on schedule.

## LAMP SHADES

[A preliminary report for this industry was issued December 12, 1940]

**Description of the industry.**—The establishments in this industry are those whose principal products are lamp shades, made of all materials except glass and metal.

**Statistics for prior census years.**—No statistics are

available for years prior to 1937 as establishments in this industry were given a separate classification for the first time at the census for 1939. A special tabulation was made of the data for 1937 in order to obtain figures comparable with those for 1939.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horsepower of prime movers
1939	128	2,671	\$1,715,155	\$4,384,442	\$8,375,706	\$3,991,264	(4)
1937	121	2,819	1,820,967	4,192,378	8,242,450	4,050,081	(5)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>4</sup> None reported for 1939.

<sup>5</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Massachusetts	New York	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	128	5	18	3	73	10	13
Proprietors and firm members.....	101	7	21	3	50	10	10
Persons reported by manufacturing establishments, total <sup>3</sup> .....	3,105	62	895	35	944	512	657
Salaried officers of corporations <sup>4</sup> .....	88	-----	6	-----	61	10	11
Manufacturing:							
Salaried employees <sup>5</sup> .....	162	4	35	3	47	22	51
Wage earners (average for the year) <sup>6</sup> .....	2,671	55	821	32	755	457	551
Distribution.....	179	3	31	-----	81	23	41
Construction.....	-----	-----	-----	-----	-----	-----	-----
Other.....	5	-----	2	-----	-----	-----	3
Salaries and wages, total <sup>7</sup> .....	\$2,474,304	\$51,023	\$601,940	\$31,235	\$947,443	\$321,328	\$521,385
Salaried officers <sup>8</sup> .....	322,633	-----	35,500	-----	192,485	29,230	65,418
Manufacturing:							
Salaries <sup>9</sup> .....	207,401	6,330	46,508	3,806	62,005	25,225	64,027
Wages.....	1,715,155	39,439	478,628	27,929	595,312	248,785	325,652
Distribution.....	221,056	5,254	37,204	-----	97,641	18,088	62,339
Construction.....	8,059	-----	4,100	-----	-----	-----	3,959
Other.....	-----	-----	-----	-----	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	4,384,442	49,348	1,269,119	28,458	1,432,773	633,213	971,531
Materials, supplies, and containers.....	4,315,008	45,687	1,259,046	27,938	1,398,225	622,012	959,100
Fuel.....	7,881	-----	1,320	146	447	143	5,816
Purchased electric energy.....	33,833	511	8,744	374	13,826	3,818	6,615
Contract work.....	27,665	150	-----	-----	20,275	7,240	-----
Value of products.....	8,375,706	127,296	2,378,904	75,619	2,971,265	1,172,893	1,649,639
Value added by manufacture <sup>10</sup> .....	3,991,264	77,948	1,109,875	47,161	1,538,492	539,680	678,198

<sup>1</sup> Connecticut, 5 establishments; Michigan, 2; New Jersey, 3; Ohio, 2; Wisconsin, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

# LAMP SHADES

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**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

No detailed production figures were collected for this industry for 1939.

**TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939**

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,671	2,564	2,782	2,751	2,271	2,177	2,161	2,318	2,733	3,080	3,074	3,286	2,851
1937.....	2,819	2,852	3,036	3,033	2,781	2,420	2,357	2,359	2,678	3,200	3,437	3,683	2,598
California.....	55	58	66	62	54	47	53	52	52	52	58	55	56
Connecticut.....	102	86	109	103	93	73	89	95	99	115	114	123	120
Illinois.....	821	861	892	876	772	694	697	732	842	914	853	963	793
Massachusetts.....	32	31	31	26	24	24	35	31	38	38	41	35	31
New Jersey.....	384	389	437	457	276	311	301	333	420	451	442	447	345
New York.....	755	667	733	740	604	593	573	634	753	906	937	997	918
Pennsylvania.....	457	409	450	424	377	377	349	384	455	536	566	611	544

**TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939**

	1939
Number of establishments:	
Total for the industry.....	128
Reporting expenditures for plant and equipment.....	44
Value of products:	
Total for the industry.....	\$8,375,706
Reporting expenditures for plant and equipment.....	5,212,792
Expenditures for plant and equipment:	
Total for the industry.....	42,956
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	8,349
Expenditures for new machinery and operating equipment.....	23,648
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	3,009
Expenditures unclassified.....	2,950

**TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937—Con.**

	1939	1937
Inventories—Continued.		
End of year, total.....	\$748,008	\$663,078
Finished products.....	270,638	335,774
Materials, supplies, etc.....	478,030	328,204
Value of products for the industry, total.....	8,375,706	8,242,450
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	8,147,600	7,816,273
Value for establishments not reporting inventories.....	228,016	426,186

**TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937**

	1939	1937
Inventories:		
Beginning of year, total.....	\$658,919	\$581,475
Finished products.....	254,643	278,216
Materials, supplies, etc.....	404,276	303,259

**TABLE 8.—POWER—MOTORS AND ELECTRIC ENERGY: 1939<sup>1</sup>**

	1939
Number of establishments.....	128
Number of establishments reporting power equipment.....	128
Electric motors, total:	
Number.....	598
Horsepower.....	522
Driven by purchased energy—	
Number.....	598
Horsepower.....	522
Electric energy, purchased (kilowatt-hours).....	880,789

<sup>1</sup> Comparable data for 1929 not available.

# FEATHERS, PLUMES, AND ARTIFICIAL FLOWERS

[A preliminary report for this industry was issued November 28, 1940]

**Description of the industry.**—The establishments in this industry are those whose principal products are artificial flowers, fruits, and foliage made of all materials except glass; and establishments engaged in producing fancy feathers, plumes, and articles made principally of feathers and plumes. This industry includes establishments engaged in curling, dyeing, and renovating ostrich feathers for the trade.

**Figures for earlier years.**—From 1909 to 1937 there were two industries—"Artificial and preserved flowers and plants," and "Feathers, plumes, and manufactures thereof"—which were combined to form this industry. Prior to 1909 there was no classification for "Feathers, plumes, and manufactures thereof."

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1939	314	6,660	\$4,582,411	\$7,424,281	\$18,503,971	\$11,079,690	(4)
1937	260	6,216	4,330,058	7,368,683	16,697,548	9,328,866	(9)
1935	268	3,779	3,032,116	3,994,809	10,639,430	6,644,621	(7)
1933	171	2,660	1,831,694	2,707,635	7,280,286	4,572,651	(9)
1931	211	2,875	2,608,696	4,003,313	10,933,132	6,929,819	(9)
1929	230	3,473	3,527,335	5,913,807	15,566,838	9,653,031	32
1927	228	5,037	5,447,121	8,422,982	21,014,778	12,591,796	8
1925	257	5,193	5,203,045	9,145,566	22,002,904	12,857,338	290
1923	354	6,408	6,470,028	12,091,973	27,516,354	15,424,381	(7)
1921	336	5,947	5,965,665	10,148,114	23,074,761	12,926,647	(9)
1919	440	7,642	7,140,676	13,699,242	31,521,118	17,821,876	328
1914	456	9,291	3,978,772	9,309,333	19,064,570	9,755,187	175
1909	412	10,016	3,973,801	13,627,404	23,980,567	10,353,163	(7)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> None reported for 1939.

<sup>6</sup> Not called for on schedule.

<sup>7</sup> Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Missouri	New Jersey	New York	Ohio	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup>	314	9	19	3	5	241	4	11	22
Proprietors and firm members	283	9	19	—	5	216	3	8	23
Persons reported by manufacturing establishments, total <sup>3</sup>	7,723	49	437	40	118	5,541	48	388	1,101
Salaried officers of corporations <sup>3</sup>	208	—	8	6	2	166	3	6	12
Manufacturing:									
Salaried employees <sup>3</sup>	327	4	20	2	6	214	4	28	49
Wage earners (average for the year) <sup>4</sup>	6,660	44	372	31	108	4,741	39	337	977
Distribution	530	1	37	1	2	416	2	17	63
Construction	4	—	—	—	—	4	—	—	—
Other	—	—	—	—	—	—	—	—	—
Salaries and wages, total <sup>5</sup>	\$6,521,657	\$50,740	\$301,548	\$36,916	\$55,801	\$4,810,656	\$44,567	\$338,614	\$382,815
Salaried officers <sup>3</sup>	764,869	—	19,261	11,737	2,260	608,167	3,665	53,779	61,000
Manufacturing:									
Salaries <sup>3</sup>	391,888	5,365	30,094	1,473	3,650	255,824	3,683	32,560	58,639
Wages	4,582,411	45,175	203,922	19,761	47,891	3,394,700	28,051	232,581	810,340
Distribution	778,309	200	47,671	3,955	2,000	547,785	4,168	19,694	162,836
Construction	4,180	—	—	—	—	4,180	—	—	—
Other	—	—	—	—	—	—	—	—	—
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	7,424,281	86,681	470,900	50,238	58,593	5,361,632	42,544	361,604	1,002,029
Materials, supplies, and containers	7,238,742	84,695	455,963	49,670	56,595	5,292,777	41,588	339,243	978,306
Fuel	44,807	821	1,847	105	837	19,903	344	7,370	13,630
Purchased electric energy	97,779	1,015	4,062	463	1,111	75,337	612	4,986	10,193
Contract work	42,953	250	9,088	—	—	33,616	—	—	—
Value of products	18,503,971	189,894	1,100,007	98,763	143,455	13,082,798	133,416	942,590	2,813,048
Value added by manufacture <sup>6</sup>	11,079,690	103,213	629,047	48,625	84,862	7,721,166	90,372	590,986	1,811,019

<sup>1</sup> Florida, 4 establishments; Indiana, 3; Iowa, 2; Maryland, 1; Massachusetts, 3; Michigan, 3; Nebraska, 1; North Carolina, 1; Rhode Island, 1; Texas, 1; Washington, 1; Wisconsin, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

FEATHERS, PLUMES, AND ARTIFICIAL FLOWERS

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production figures were collected for this industry for 1939.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	6,650	6,284	7,267	8,043	7,308	6,332	5,600	5,792	6,315	6,766	6,710	6,557	6,827
1937.....	6,216	6,261	6,970	7,450	6,665	6,072	5,400	5,374	6,244	6,567	6,415	5,876	5,305
1929.....	3,474	3,537	3,835	3,882	3,647	3,364	3,057	2,905	3,121	3,444	3,676	3,754	3,460
California.....	44	51	53	54	48	37	36	25	47	31	40	45	67
Florida.....	36	34	31	29	30	29	29	29	31	39	54	52	45
Illinois.....	372	306	400	414	364	390	342	303	362	352	367	367	428
Indiana.....	172	127	127	127	137	137	150	202	202	218	221	214	204
Massachusetts.....	36	45	45	44	40	47	15	26	27	28	30	35	35
Michigan.....	70	35	62	110	105	93	18	47	62	77	82	78	66
Missouri.....	31	32	37	43	44	26	21	22	32	26	23	29	32
New Jersey.....	108	76	78	98	94	92	106	105	106	130	134	132	147
New York.....	4,741	4,625	5,411	6,021	5,398	4,485	4,004	4,089	4,436	4,740	4,612	4,415	4,681
Ohio.....	39	42	43	42	42	45	41	40	35	32	32	32	40
Pennsylvania.....	337	277	323	380	383	364	311	294	319	343	364	379	312

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	314
Reporting expenditures for plant and equipment.....	101
Value of products:	
Total for the industry.....	\$18,503,971
Reporting expenditures for plant and equipment.....	8,155,817
Expenditures for plant and equipment:	
Total for the industry.....	106,516
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	38,310
Expenditures for new machinery and operating equipment.....	53,231
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	12,475
Expenditures unclassified.....	2,500

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,958,151	\$1,534,329
Finished products.....	819,088	893,611
Materials, supplies, etc.....	1,039,063	640,718
End of year, total.....	1,890,585	1,822,341
Finished products.....	889,824	1,050,016
Materials, supplies, etc.....	1,000,761	772,325
Value of products for the industry, total.....	18,503,971	16,697,548
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	17,610,407	15,395,315
Value for establishments not reporting inventories.....	893,564	1,302,233

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	314	230
Number of establishments reporting power equipment.....	313	122
Prime movers, aggregate:		
Number.....		6
Horsepower.....		82
Prime movers, driving generators, total—		
Number.....		16
Horsepower.....		182
Steam engines—		
Number.....		15
Horsepower.....		177
Diesel and semi-Diesel engines—		
Number.....		11
Horsepower.....		15
Other internal-combustion engines—		
Number.....		11
Horsepower.....		15
Electric motors, driven by purchased energy:		
Number.....	987	377
Horsepower.....	1,832	643
Electric energy, purchased (kilowatt-hours).....	2,248,739	934,032

1 Includes data for prime movers not driving generators.

## BROOMS

[A preliminary report for this industry was issued December 19, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of household brooms, whisk brooms, and industrial brooms of broomcorn, bassine, etc., and street-sweeping brooms made of heavier materials.

**Manufacture of brooms in institutions for the blind.**—Statistics on the production of brooms in institutions for the blind are given in tables 3 and 4, but no data for such institutions are included in any of the other tables.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1939	320	3,787	\$2,766,770	\$6,052,345	\$11,842,422	\$5,790,077	816
1937	289	4,067	2,905,512	6,301,160	11,827,743	5,326,583	( <sup>5</sup> )
1935	348	4,168	3,071,614	7,514,808	14,338,300	6,823,552	( <sup>5</sup> )
1933	200	3,767	2,111,180	4,601,014	9,072,021	4,471,907	( <sup>5</sup> )
1931	334	4,086	3,325,998	6,264,020	13,134,007	6,870,887	( <sup>5</sup> )
1929	407	4,542	4,109,087	9,647,688	19,166,353	9,518,065	1,225
1927	394	4,450	4,274,688	9,175,710	18,444,912	9,269,202	1,166
1925	421	4,725	4,053,666	11,213,381	21,714,194	10,500,813	1,641
1923	444	4,730	4,481,645	14,932,827	26,201,834	11,329,007	( <sup>5</sup> )
1921	459	4,302	3,871,895	10,417,147	18,188,376	7,771,229	( <sup>5</sup> )
1919	1,034	6,313	5,708,885	17,365,109	30,205,287	12,840,158	2,490
1914	868	5,642	2,624,106	7,883,613	14,084,959	6,201,346	2,341
1909	898	5,199	2,363,088	8,391,333	14,431,593	6,040,260	2,592

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

<sup>7</sup> No comparable data for prior years.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Alabama	Arkansas	California	Florida	Georgia	Illinois	Indiana	Iowa	Kansas
Number of establishments <sup>1</sup>	320	7	5	15	4	6	25	9	11	7
Proprietors and firm members	359	7	5	32	3	6	32	5	16	6
Persons reported by manufacturing establishments, total <sup>2</sup>	4,377	103	55	107	135	67	487	213	85	64
Salaried officers of corporations <sup>3</sup>	112		2	1	3		11	11	2	3
Manufacturing:										
Salaried employees <sup>3</sup>	232	8	2	4	4	2	22	19	4	5
Wage earners (average for the year) <sup>3</sup>	3,787	94	49	96	126	62	410	165	75	53
Distribution	246	1	2	6	2	3	44	15	4	3
Construction										
Other										
Salaries and wages, total <sup>2</sup>	\$3,626,692	\$52,290	\$47,747	\$113,476	\$89,516	\$40,300	\$478,905	\$184,143	\$71,043	\$39,302
Salaried officers <sup>3</sup>	283,000		1,206	3,200	6,000		41,430	24,896	6,000	2,850
Manufacturing:										
Salaries <sup>3</sup>	253,255	8,122	1,979	4,040	4,680	2,300	24,423	20,497	1,985	3,370
Wages	2,756,770	42,668	41,182	97,390	75,710	33,856	338,618	116,995	59,138	29,989
Distribution	333,667	1,500	3,380	8,846	3,126	4,114	74,437	21,755	3,920	3,113
Construction										
Other										
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	6,052,345	122,907	108,852	204,940	119,918	94,401	693,399	276,436	122,431	97,427
Materials, supplies, and containers	5,930,852	121,264	107,600	202,740	118,736	93,393	678,429	268,846	110,470	95,181
Fuel	40,788	112	212	73	100	107	6,996	2,724	803	583
Purchased electric energy	77,577	1,531	1,040	2,136	1,082	901	7,340	4,523	2,158	1,713
Contract work	3,128						604	333		
Value of products	11,842,422	195,863	213,376	389,838	334,756	167,943	1,338,597	610,309	288,605	168,348
Value added by manufacture <sup>4</sup>	5,790,077	72,956	105,024	184,889	214,838	73,542	645,228	333,873	166,174	70,921

See footnotes at end of table.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Kentucky	Louisiana	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri	New Jersey	New York
Number of establishments <sup>1</sup> .....	9	8	11	7	7	10	4	13	4	22
Proprietors and firm members.....	5	8	11	10	9	15	5	12	3	22
Persons reported by manufacturing establishments, total <sup>2</sup> .....	228	71	314	74	52	64	37	97	120	344
Salaried officers of corporations <sup>3</sup> .....	0		6	2	1	7		2	3	18
Manufacturing:										
Salaried employees <sup>3</sup> .....	10	4	10	2	1	2	3	3	4	24
Wage earners (average for the year) <sup>3</sup> .....	201	60	293	67	48	51	28	87	112	280
Distribution.....	11	7	6	3	2	4	6	5	1	22
Construction.....										
Other.....										
Salaries and wages, total <sup>4</sup> .....	\$173,302	\$52,920	\$278,164	\$64,572	\$44,642	\$72,568	\$30,217	\$77,108	\$115,120	\$380,969
Salaried officers <sup>3</sup> .....	14,160		27,448	2,080	1,500	13,200		3,963	3,900	55,239
Manufacturing:										
Salaries <sup>3</sup> .....	15,378	4,821	16,700	1,674	2,006	2,225	2,400	4,847	5,918	28,486
Wages.....	127,460	42,204	225,040	57,796	39,223	54,268	20,144	61,911	104,302	213,723
Distribution.....	16,304	5,844	8,910	2,722	1,853	2,815	7,673	6,387	1,000	33,521
Construction.....										
Other.....										
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	297,704	134,652	421,200	102,347	76,050	94,192	52,091	124,100	157,834	452,827
Materials, supplies, and containers.....	292,093	133,664	415,093	100,042	74,574	92,320	51,017	121,228	155,116	435,548
Fuel.....	2,055		400	838	1,336	500	175	622	393	8,505
Purchased electric energy.....	3,706	1,288	4,400	1,467	1,049	1,276	899	2,148	2,355	6,660
Contract work.....								102		2,084
Value of products.....	539,400	201,735	802,685	191,740	149,175	184,077	89,616	249,674	337,005	883,292
Value added by manufacture <sup>4</sup> .....	232,720	66,783	441,386	89,309	72,216	90,785	37,525	125,574	179,171	430,456

  

ITEM	North Carolina	Ohio	Oklahoma	Pennsylvania	Rhode Island	Tennessee	Texas	Washington	Wisconsin	Other States <sup>5</sup>
Number of establishments <sup>1</sup> .....	9	18	10	25	4	7	25	3	0	29
Proprietors and firm members.....	16	17	11	28	3	4	25	4	6	34
Persons reported by manufacturing establishments, total <sup>2</sup> .....	88	179	50	319	17	81	232	19	40	634
Salaried officers of corporations <sup>3</sup> .....		9		8	1	2	6		1	7
Manufacturing:										
Salaried employees <sup>3</sup> .....	6	11	5	10	3	3	8	2	2	43
Wage earners (average for the year) <sup>3</sup> .....	75	146	44	278	11	71	194	13	37	558
Distribution.....	7	14	1	17	2	5	24	4		26
Construction.....										
Other.....										
Salaries and wages, total <sup>4</sup> .....	\$54,344	\$145,512	\$37,179	\$270,176	\$15,934	\$55,032	\$135,945	\$20,087	\$36,243	\$443,924
Salaried officers <sup>3</sup> .....		10,737		25,840	2,000	3,056	8,080		2,345	23,160
Manufacturing:										
Salaries <sup>3</sup> .....	8,125	9,100	4,604	18,732	2,793	3,140	8,096	603	1,943	30,884
Wages.....	42,067	110,850	31,635	205,789	7,030	41,085	132,939	15,390	21,955	353,753
Distribution.....	3,262	14,816	1,040	25,815	2,611	6,842	36,830	4,094		27,187
Construction.....										
Other.....										
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	113,440	261,733	97,933	406,477	27,770	132,230	318,152	29,651	60,330	760,468
Materials, supplies, and containers.....	112,108	257,082	94,800	483,830	27,213	129,835	312,630	29,271	59,001	748,034
Fuel.....	181	1,719	495	4,423	254	438	1,050	109	401	4,005
Purchased electric energy.....	1,148	2,932	1,720	8,215	309	1,967	3,863	271	928	8,428
Contract work.....										
Value of products.....	194,278	479,791	152,707	685,024	54,567	201,637	624,620	59,089	139,642	1,595,537
Value added by manufacture <sup>4</sup> .....	89,838	215,058	55,674	488,547	26,791	69,407	300,468	29,438	79,312	895,069

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>4</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Arizona, 2 establishments; Colorado, 4; Connecticut, 1; Maine, 1; Montana, 1; Nebraska, 5; Oregon, 3; South Carolina, 2; South Dakota, 2; Utah, 2; Vermont, 1; Virginia, 3; West Virginia, 2.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Brooms industry, all products, total value.....	\$11,842,422	\$11,027,743	\$19,166,353
Brooms.....	11,265,974	11,220,540	18,704,571
Other products (not classified in this industry).....	576,448	407,203	461,782
Brooms, aggregate value.....	13,765,873	13,336,528	20,334,449
Brooms made in commercial establishments, total value.....	12,721,389	12,405,729	19,326,558
Brooms made in this industry.....	11,265,974	11,220,540	18,704,571
Brooms made in other commercial establishments.....	1,455,415	1,185,189	621,987
Brooms made in institutions for the blind.....	1,034,184	980,799	1,607,885

<sup>1</sup> Value of household brushes, feather dusters, industrial brushes, mops, etc.

## CENSUS OF MANUFACTURES: 1939

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

[Made in commercial establishments and in institutions for the blind]

PRODUCT	1939			1937	1929
	Produced in the "Broom" industry and in other commercial establishments	Produced in institutions for the blind	Aggregate		
Total value.....	\$12,721,389	\$1,034,184	\$13,755,573	\$13,336,528	\$20,834,443
Household brooms:					
Total dozens.....	2,641,199	197,342	2,838,541	2,772,084	3,847,830
Total value.....	\$10,126,202	\$677,284	\$10,803,486	\$10,585,460	\$16,032,817
Made of broomcorn—					
Dozens.....	2,470,511	197,342	2,667,853	2,625,257	3,306,125
Value.....	\$9,008,621	\$677,284	\$9,685,905	\$9,678,337	\$16,068,941
Made of bassine—					
Dozens.....	161,688	( <sup>1</sup> )	161,688	146,827	41,714
Value.....	\$1,117,581	( <sup>1</sup> )	\$1,117,581	\$907,123	\$273,870
Whisk brooms:					
Total dozens.....	501,970	<sup>2</sup> 17,088	519,058	581,441	653,133
Total value.....	\$793,023	<sup>2</sup> \$35,323	\$828,346	\$839,400	\$1,208,083
Made of broomcorn—					
Dozens.....	462,251	<sup>2</sup> 17,088	479,339	443,479	468,371
Value.....	\$738,703	<sup>2</sup> \$35,323	\$774,032	\$687,470	\$1,017,551
Made of other materials—					
Dozens.....	39,719		39,719	137,962	84,763
Value.....	\$54,860		\$54,860	\$151,930	\$100,432
Toy and hearth brooms, made of broomcorn:					
Dozens.....	109,706	7,668	117,374	73,726	80,026
Value.....	\$130,592	\$8,631	\$139,223	\$83,982	\$125,275
Industrial brooms:					
Total dozens.....	274,131	60,641	334,772	328,340	331,547
Total value.....	\$1,429,911	\$308,128	\$1,738,039	\$1,627,895	\$1,655,602
Made of broomcorn—					
Dozens.....	141,596	41,005	182,601	162,761	173,760
Value.....	\$626,263	\$200,302	\$826,565	\$750,865	\$1,000,147
Made of broomcorn and other materials (mixed)—					
Dozens.....	71,668	13,671	85,339	87,400	78,050
Value.....	\$354,791	\$70,287	\$425,078	\$433,449	\$450,231
Made of bass or of bassine, or both—					
Dozens.....	44,015	754	44,769	47,285	30,596
Value.....	\$375,224	\$5,423	\$380,647	\$208,404	\$308,038
Made of bamboo, rattan, or reed, or of mixtures thereof—					
Dozens.....	16,852	4,521	21,373	30,894	40,103
Value.....	\$73,633	\$26,116	\$99,749	\$145,107	\$202,130
Other brooms (except street-sweeping-machine brooms):					
Dozens.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	5,290
Value.....	\$213,530	\$4,818	\$218,348	\$177,207	\$672,272
Street-sweeping-machine brooms:					
Number.....	1,770	( <sup>1</sup> )	1,770	1,611	150
Value.....	\$27,531	( <sup>1</sup> )	\$27,531	\$22,570	\$40,394

<sup>1</sup> None reported.<sup>2</sup> Data for whisk brooms made of broomcorn and made of other materials combined to avoid disclosing, exactly or approximately, production by individual establishments.<sup>3</sup> No data.

TABLE 5.—WAGE EARNERS IN THE INDUSTRY ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	3,787	3,745	3,795	3,825	3,811	3,739	3,623	3,572	3,736	3,900	3,970	3,927	3,801
1937.....	4,087	4,334	4,308	4,377	4,247	4,086	3,870	3,790	3,881	3,933	4,084	4,007	3,911
1929.....	4,542	4,576	4,627	4,659	4,006	4,543	4,463	4,416	4,448	4,404	4,592	4,011	4,508
Alabama.....	94	92	94	88	90	92	88	94	92	99	103	101	96
Arkansas.....	40	49	48	45	50	46	54	51	50	51	52	48	49
California.....	96	96	96	95	90	95	95	94	95	101	96	97	96
Colorado.....	98	96	98	99	99	96	97	96	98	98	99	99	96
Florida.....	126	121	116	128	120	110	106	119	132	130	136	145	139
Georgia.....	62	64	64	66	59	59	61	62	66	60	61	64	58
Illinois.....	410	395	411	410	405	404	386	395	420	420	434	423	411
Indiana.....	168	167	153	168	162	161	155	152	157	182	193	192	179
Iowa.....	75	76	81	82	80	77	65	63	73	74	79	81	74
Kansas.....	53	66	58	56	67	67	66	52	50	48	51	42	39
Kentucky.....	201	200	211	206	212	197	192	186	196	200	204	211	193
Louisiana.....	60	58	58	59	59	61	58	61	60	61	61	61	59
Maryland.....	293	294	282	288	289	296	282	288	288	302	300	295	290
Massachusetts.....	67	59	66	66	71	71	69	62	68	68	70	68	67
Michigan.....	48	47	48	49	40	49	48	50	52	50	49	48	40
Minnesota.....	51	47	47	51	52	52	45	50	52	60	61	50	45
Mississippi.....	28	28	27	28	28	29	29	24	23	30	33	31	30
Missouri.....	87	81	83	85	89	81	83	80	81	88	98	100	91
Nebraska.....	313	305	321	329	325	314	289	285	297	328	334	317	314
New Jersey.....	112	114	112	113	112	115	114	111	113	109	107	113	114
New York.....	280	263	286	287	292	288	284	285	285	289	290	284	279
North Carolina.....	75	70	68	69	69	67	70	73	84	83	84	82	82
Ohio.....	145	160	150	140	151	136	142	137	133	150	149	153	146
Oklahoma.....	44	43	44	41	42	42	42	48	43	47	48	48	44
Oregon.....	24	21	27	27	26	25	22	15	23	25	29	26	26
Pennsylvania.....	278	288	274	287	280	273	269	264	261	278	288	287	288
Rhode Island.....	11	11	10	9	11	11	11	11	12	12	12	11	11
Tennessee.....	71	75	77	74	69	66	60	71	71	77	73	73	69
Texas.....	194	194	196	202	195	192	191	184	192	196	197	194	193
Washington.....	13	13	14	13	13	13	13	13	13	13	13	14	14
Wisconsin.....	37	36	37	37	36	37	37	37	37	37	38	38	38

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	320
Reporting expenditures for plant and equipment.....	98
Value of products:	
Total for the industry.....	\$11,842,422
Reporting expenditures for plant and equipment.....	5,509,632
Expenditures for plant and equipment:	
Total for the industry.....	77,291
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	14,978
Expenditures for new machinery and operating equipment.....	44,614
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	17,427
Expenditures unclassified.....	272

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$2,638,772	\$2,975,058
Finished products.....	881,489	860,292
Materials, supplies, etc.....	1,757,283	2,115,066
End of year, total.....	2,733,273	2,971,963
Finished products.....	871,647	942,167
Materials, supplies, etc.....	1,861,626	2,029,796
Value of products for the industry, total.....	11,842,422	11,627,743
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	10,643,538	9,843,981
Value for establishments not reporting inventories.....	1,198,884	1,783,762

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	320	407
Number of establishments reporting power equipment.....	320	393
Prime movers, aggregate:		
Number.....	12	39
Horsepower.....	816	1,225

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators, total—		
Number.....	3	139
Horsepower.....	380	1,225
Steam engines—		
Number.....	3	119
Horsepower.....	380	1,924
Steam turbines—		
Number.....		1
Horsepower.....		60
Diesel and semi-Diesel engines—		
Number.....		
Horsepower.....		119
Other internal-combustion engines <sup>1</sup> —		
Number.....		241
Horsepower.....		
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	80	
Prime movers not driving generators, total—		
Number.....	9	
Horsepower.....	436	
Steam engines—		
Number.....	3	( <sup>2</sup> )
Horsepower.....	185	
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—		
Number.....	6	
Horsepower.....	251	
Generators, kilowatt rating.....	315	210
Generators driven by—		
Steam engines, kilowatt rating.....	315	( <sup>3</sup> )
Generators, ordinarily idle (included above), kilowatt rating.....	70	( <sup>4</sup> )
Electric motors, total:		
Number.....	1,275	1,068
Horsepower.....	3,328	3,840
Driven by purchased energy—		
Number.....	1,231	1,000
Horsepower.....	3,130	3,447
Driven by energy generated in establishments reporting—		
Number.....	44	68
Horsepower.....	198	393
Electric energy (kilowatt-hours):		
Generated in plant.....	90,000	( <sup>4</sup> )
Purchased.....	2,281,886	2,119,349

<sup>1</sup> Includes data for prime movers not driving generators.<sup>2</sup> Gas, gasoline, etc.<sup>3</sup> Not called for on schedule.<sup>4</sup> Data not available.

# BRUSHES

[A preliminary report for this industry was issued December 28, 1940]

**Description of the industry.**—This industry embraces of paint brushes, tooth brushes, shaving brushes, and all establishments primarily engaged in the manufacture of other kinds of brushes from any material except rubber.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939	245	7,891	\$7,988,974	\$25,255,270	\$48,466,966	\$23,211,687	3,252
1937	248	7,915	7,249,043	24,110,107	44,636,639	20,426,442	(9)
1935	250	8,818	6,007,328	18,857,148	42,001,455	23,234,307	(9)
1933	221	5,809	4,821,015	12,200,138	24,875,879	12,375,741	(9)
1931	264	5,891	5,991,850	14,227,576	30,827,087	16,599,512	(9)
1929	303	7,261	7,962,538	21,688,253	45,540,270	23,861,017	3,364
1927	302	7,673	8,244,082	22,553,058	47,844,124	25,291,066	3,738
1925	302	7,836	8,452,209	22,021,444	45,824,215	23,802,771	3,591
1923	300	8,719	0,208,272	25,599,661	50,511,239	24,941,578	(9)
1921	277	6,460	6,415,340	18,664,652	35,544,514	16,879,862	(9)
1919	370	7,988	7,113,201	19,598,133	39,005,607	19,407,474	3,360
1914	359	7,213	3,401,271	9,326,655	17,894,476	8,567,821	3,890
1909 <sup>5</sup>	384	6,954	3,041,145	7,180,937	14,694,003	7,507,066	3,897

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

<sup>7</sup> No comparable data for prior years.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Indiana	Maryland	Massachusetts	Michigan	Missouri
Number of establishments <sup>1</sup>	245	9	21	5	7	25	7	5
Proprietors and firm members	140	5	12	2	2	14	10	2
Persons reported by manufacturing establishments, total <sup>2</sup>	10,029	120	492	93	982	2,293	94	74
Salaried officers of corporations <sup>3</sup>	253	9	21	1	8	32	5	7
Manufacturing:								
Salaried employees <sup>3</sup>	1,004	12	10	4	106	282	5	9
Wage earners (average for the year) <sup>3</sup>	7,891	74	391	88	809	1,746	77	38
Distribution	812	25	61		55	203	7	20
Construction	69				4	30		
Other								
Salaries and wages, total <sup>2</sup>	\$12,524,287	\$181,224	\$605,412	\$92,646	\$1,107,044	\$2,843,617	\$119,690	\$109,408
Salaried officers <sup>3</sup>	1,220,828	32,631	109,283	1,995	34,389	175,557	11,297	20,134
Manufacturing:								
Salaries <sup>3</sup>	1,782,006	21,089	35,512	7,305	183,107	540,090	9,209	8,937
Wages	7,988,974	79,330	360,991	83,346	776,267	1,815,835	87,238	37,682
Distribution	1,448,834	48,174	99,620		169,306	284,035	11,946	36,755
Construction	83,645				3,875	28,100		
Other								
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	25,255,279	343,221	1,322,796	268,547	2,830,047	5,437,858	322,345	173,393
Materials, supplies, and containers	24,770,144	330,430	1,299,833	255,215	2,799,368	5,325,682	315,837	170,031
Fuel	187,652	804	5,947	554	17,394	60,135	1,835	1,750
Purchased electric energy	224,391	2,987	16,291	2,778	13,285	48,235	2,428	1,612
Contract work	103,082		725			3,806	2,245	
Value of products	48,466,966	641,055	2,444,946	634,419	5,025,870	9,942,865	578,297	360,685
Value added by manufacture <sup>4</sup>	23,211,687	397,834	1,122,150	375,872	2,195,823	4,505,007	265,952	187,229

See footnotes at end of table.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	New Jersey	New York	Ohio	Pennsylvania	Rhode Island	Vermont	Wisconsin	Other States <sup>1</sup>
Number of establishments <sup>1</sup> .....	19	62	16	18	6	3	9	33
Proprietors and firm members.....	11	40	6	12	4	1	8	17
Persons reported by manufacturing establishments, total <sup>2</sup> .....	635	2,426	777	269	49	167	160	1,399
Salaried officers of corporations <sup>2</sup> .....	24	57	22	18	5	3	11	30
Manufacturing: Salaried employees <sup>2</sup> .....	90	161	97	41	1	13	8	156
Wage earners (average for the year) <sup>2</sup> .....	462	2,068	612	186	41	141	110	1,049
Distribution.....	57	138	46	24	2	10	31	133
Construction.....	2	2						31
Other.....								
Salaries and wages, total <sup>2</sup> .....	\$850,268	\$2,834,391	\$1,068,737	\$362,204	\$46,021	\$161,356	\$204,967	\$1,880,702
Salaried officers <sup>2</sup> .....	129,965	330,568	125,209	58,097	10,912	12,000	39,621	122,210
Manufacturing: Salaries <sup>2</sup> .....	136,679	291,431	172,315	61,394	1,275	17,055	14,000	281,599
Wages.....	464,606	1,993,781	691,681	177,759	33,310	107,138	106,936	1,173,014
Distribution.....	120,269	216,207	79,532	64,954	1,024	13,303	44,341	259,362
Construction.....	4,749	2,404						44,517
Other.....								
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	2,097,273	5,918,826	1,959,702	687,054	56,637	361,293	186,298	3,300,009
Materials, supplies, and containers.....	2,071,672	5,827,111	1,934,050	674,016	54,436	352,568	180,931	3,169,994
Fuel.....	10,563	22,404	7,027	5,511	1,228	2,532	1,696	18,272
Purchased electric energy.....	14,885	59,318	18,568	6,508	920	3,299	3,071	29,006
Contract work.....	158	9,993	57	1,019	53	2,809		82,167
Value of products.....	3,487,759	10,526,867	4,118,333	1,238,301	134,892	626,397	479,173	8,227,107
Value added by manufacture <sup>4</sup> .....	1,390,481	4,008,041	2,158,631	551,247	78,255	265,129	202,875	4,927,068

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.<sup>4</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.<sup>5</sup> Colorado, 2 establishments; Connecticut, 7; Delaware, 2; Florida, 1; Georgia, 1; Iowa, 1; Kentucky, 1; Maine, 1; Minnesota, 2; Nebraska, 2; New Hampshire, 4; North Carolina, 1; Oregon, 2; Texas, 1; Virginia, 1; Washington, 4.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Brushes industry, all products, total value.....	\$48,460,966	\$44,536,639	\$46,549,270
Brushes.....	42,911,472	41,426,221	43,203,422
Miscellaneous products, not specified.....	658,607	3,002,123	2,345,848
Other products (not classified in this industry).....	4,769,768	108,290	
Receipts for contract and repair work.....	127,119		
Brushes, total value.....	43,781,013	43,828,596	45,232,747
Brushes made in this industry.....	42,911,472	41,426,221	43,203,422
Brushes made as secondary products in other industries.....	869,541	2,402,375	2,029,325

<sup>1</sup> Value of household, whisk, toy and hearth brooms; industrial and street-sweeping-machine brooms; fabricated plastic products; mops, emery boards, manicure sticks, etc.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Total value.....	\$43,781,013	\$43,828,596	\$45,232,747
Paint and varnish brushes.....	12,747,051	15,085,810	16,705,771
Household brushes.....	5,051,790	6,553,180	7,394,086
Tooth brushes.....	7,718,467	6,341,382	5,714,727
Shaving brushes.....	1,039,620	1,208,938	( <sup>2</sup> )
Toilet brushes, other than those ornamented, mounted, or fitted with gold, silver, or platinum, total value.....	4,558,802	3,293,185	
Handles or backs of cellulose compounds.....	1,612,227	817,401	
Handles or backs of other materials.....	2,946,575	2,475,694	5,120,097
Toilet brushes, ornamented, mounted, or fitted with gold, silver, or platinum.....	184,140	( <sup>1</sup> )	
Artists' brushes (excluding hair pencils).....	709,799	740,019	( <sup>3</sup> )
Twisted-in-wire brushes.....	1,491,059	887,015	
Other wire brushes.....	556,026	730,833	( <sup>3</sup> )
Wood-back-hand-wire brushes.....	329,384	( <sup>2</sup> )	
Jewelers' and dentists' brushes.....	126,408	155,473	
Industrial brushes, total value.....	4,501,133	5,756,116	6,228,375
Rotary, power.....	2,082,745	1,827,920	3,188,559
Other (including push brooms).....	2,418,388	3,928,196	3,039,816
Feather dusters.....	291,155	( <sup>2</sup> )	( <sup>1</sup> )
Brushes and parts not reported by kind.....	73,875,379	3,070,645	4,060,091

<sup>1</sup> Includes data for "Artists' brushes."<sup>2</sup> Includes \$27,526, value of household brushes made as secondary products in other industries.<sup>3</sup> Not called for separately on schedule.<sup>4</sup> Included in value of "Brushes and parts not reported by kind" to avoid disclosing output of individual establishments.<sup>5</sup> Included in value of "Paint and varnish brushes."<sup>6</sup> Includes \$102,458, value of industrial brushes made as secondary products in other industries.<sup>7</sup> Includes value of hair pencils to avoid disclosing data reported by individual establishments.<sup>8</sup> Includes small amounts reported as values of "Toilet brushes, ornamented, mounted, or fitted with gold," etc., and of hair pencils to avoid disclosing data reported by individual establishments.

## CENSUS OF MANUFACTURES: 1939

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	7,891	7,056	7,217	7,380	7,465	7,455	7,528	7,796	8,054	8,278	8,683	8,934	8,851
1937.....	7,915	7,446	7,814	7,877	7,955	7,993	8,195	7,925	7,946	7,980	8,198	8,102	7,542
1929.....	7,261	6,965	7,235	7,270	7,296	7,239	7,150	7,185	7,360	7,505	7,635	7,293	7,001
California.....	74	72	80	79	81	76	78	70	71	65	75	70	71
Connecticut.....	445	407	411	410	407	419	440	459	469	467	467	489	497
Illinois.....	391	372	391	405	413	391	385	376	369	375	395	412	411
Indiana.....	88	85	80	82	87	93	85	84	80	94	98	104	88
Maryland.....	809	776	780	782	790	782	790	820	820	829	839	853	848
Massachusetts.....	1,746	1,562	1,526	1,537	1,576	1,541	1,566	1,801	1,861	1,906	1,935	2,037	2,107
Michigan.....	77	70	75	79	79	76	73	74	73	77	80	81	83
Missouri.....	38	37	36	38	38	40	38	37	39	38	38	37	38
New Hampshire.....	122	99	112	113	120	113	110	113	120	125	134	148	151
New Jersey.....	462	388	423	445	454	470	455	398	455	451	501	549	549
New York.....	2,068	1,743	1,809	1,892	1,898	1,911	1,957	2,004	2,128	2,244	2,455	2,451	2,320
Ohio.....	612	577	597	597	599	602	595	603	603	610	634	669	662
Pennsylvania.....	186	178	181	181	184	187	185	187	189	187	190	195	193
Rhode Island.....	41	35	37	38	35	37	36	37	39	42	51	50	43
Vermont.....	141	76	98	110	116	130	155	152	156	169	185	171	176
Washington.....	50	48	45	56	52	53	52	52	49	49	48	48	47
Wisconsin.....	110	111	110	111	111	111	111	108	110	108	108	109	109

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	245
Reporting expenditures for plant and equipment.....	109
Value of products:	
Total for the industry.....	\$48,466,966
Reporting expenditures for plant and equipment.....	40,951,178
Expenditures for plant and equipment:	
Total for the industry.....	770,242
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	207,489
Expenditures for new machinery and operating equipment.....	488,635
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	73,018
Expenditures unclassified.....	1,100

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$13,522,999	\$13,121,321
Finished products.....	5,211,974	3,802,238
Materials, supplies, etc.....	8,311,025	9,319,088
End of year, total.....	14,153,831	15,533,871
Finished products.....	5,108,731	4,931,343
Materials, supplies, etc.....	9,045,100	10,602,528
Value of products for the industry, total.....	48,466,966	44,536,639
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	46,175,827	42,680,072
Value for establishments not reporting inventories.....	2,291,139	1,856,567

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	245	303
Number of establishments reporting power equipment.....	243	290
Prime movers, aggregate:		
Number.....	20	33
Horsepower.....	3,252	3,634
Prime movers, driving generators, total—		
Number.....	7	133
Horsepower.....	1,511	13,364

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam engines—		
Number.....	4	121
Horsepower.....	606	12,441
Steam turbines—		
Number.....	1	11
Horsepower.....	750	1,750
Diesel and semi-Diesel engines—		
Number.....	2	
Horsepower.....	95	8
Other internal-combustion engines <sup>1</sup> —		
Number.....		106
Horsepower.....		
Hydroturbines and water wheels—		
Number.....		13
Horsepower.....		167
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	160	
Prime movers not driving generators, total—		
Number.....	13	
Horsepower.....	1,741	
Steam engines—		
Number.....	8	
Horsepower.....	1,672	
Diesel and semi-Diesel engines—		
Number.....	1	
Horsepower.....	40	
Other internal-combustion engines <sup>2</sup> —		
Number.....	4	
Horsepower.....	29	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	510	
Generators, kilowatt rating, total.....	995	1,180
Generators, driven by—		
Steam engines, kilowatt rating.....	435	
Steam turbines, kilowatt rating.....	500	
Diesel and semi-Diesel engines, kilowatt rating.....	60	
Generators, ordinarily idle (included above), kilowatt rating.....	100	
Electric motors, total:		
Number.....	8,283	2,917
Horsepower.....	14,424	6,736
Driven by purchased energy—		
Number.....	5,575	2,556
Horsepower.....	12,444	8,551
Driven by energy generated in establishments reporting—		
Number.....	708	362
Horsepower.....	1,980	1,185
Electric energy (kilowatt-hours):		
Generated in plant.....	1,186,920	( <sup>3</sup> )
Purchased.....	10,100,221	4,742,958

<sup>1</sup> Includes data for prime movers not driving generators.<sup>2</sup> Gas, gasoline, etc.<sup>3</sup> Not called for on schedule.<sup>4</sup> Data not available.

## BEAUTY-SHOP AND BARBER-SHOP EQUIPMENT

[A preliminary report for this industry was issued December 17, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of devices and equipment for use in beauty shops and barber shops. The classification does not cover the manufacture of furniture, nor certain other classes of equipment, such as sterilizers, that are also used by dentists and physicians and in hospitals. Hair driers, when made for use in beauty shops, are classified in this industry, but when made for use in the home are treated as products of the "Electrical appliances" industry in the Electrical Machinery report. As this industry was first classified as a separate industry for the census for 1935, there are no figures for earlier years.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1935 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horse-power of prime movers
1939.....	72	1,980	\$1,817,595	\$5,365,890	\$13,006,333	\$7,640,443	40
1937.....	73	2,548	2,470,969	5,333,746	13,571,422	8,237,676	(4)
1935 <sup>4</sup> .....	82	2,179	1,967,802	5,058,845	12,524,674	7,465,729	(5)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> Not called for on schedule.  
<sup>5</sup> No comparable data for prior years.  
<sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Minnesota	New York	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	72	6	14	7	23	22
Proprietors and firm members.....	23	4	2	.....	6	11
Persons reported by manufacturing establishments, total <sup>3</sup> .....	2,814	104	855	189	718	949
Salaried officers of corporations <sup>4</sup> .....	99	4	20	15	34	26
Manufacturing:						
Salaried employees <sup>5</sup> .....	321	14	180	23	40	114
Wage earners (average for the year) <sup>6</sup> .....	1,986	57	619	109	548	654
Distribution.....	408	29	86	42	96	155
Construction.....	.....	.....	.....	.....	.....	.....
Other.....	.....	.....	.....	.....	.....	.....
Salaries and wages, total <sup>7</sup> .....	\$3,592,679	\$184,879	\$973,271	\$282,819	\$891,834	\$1,259,876
Salaried officers <sup>8</sup> .....	598,239	33,500	136,256	65,630	115,459	242,304
Manufacturing:						
Salaries <sup>9</sup> .....	565,433	27,899	177,568	53,642	98,871	207,953
Wages.....	1,817,595	75,533	506,692	90,544	552,237	592,619

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued**

ITEM	United States	California	Illinois	Minnesota	New York	Other States <sup>1</sup>
Salaries and wages—Con.						
Distribution.....	\$611,412	\$42,047	\$152,785	\$73,003	\$125,787	\$216,010
Construction.....	.....	.....	.....	.....	.....	.....
Other.....	.....	.....	.....	.....	.....	.....
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	5,365,890	421,640	1,668,871	477,103	1,499,827	1,298,449
Materials, supplies, and containers.....	5,216,553	418,816	1,638,523	459,056	1,462,859	1,236,699
Fuel.....	15,403	120	3,009	1,845	4,709	5,320
Purchased electric energy.....	65,690	2,704	10,738	3,962	24,181	15,105
Contract work.....	68,244	.....	6,701	12,140	8,078	41,325
Value of products.....	13,006,333	840,864	3,263,047	1,215,982	3,464,002	4,221,538
Value added by manufacture <sup>2</sup> .....	7,640,443	419,224	1,594,170	738,870	1,965,075	2,923,089

<sup>1</sup> Kentucky, 3 establishments; Maryland, 1; Massachusetts, 1; Michigan, 2; Missouri, 4; New Jersey, 3; Ohio, 3; Oklahoma, 1; Pennsylvania, 3; Texas, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

	1939	1937
Beauty-Shop and Barber-Shop Equipment industry, all products, total value.....	\$13,006,333	\$13,571,422
Beauty-shop and barber-shop equipment.....	10,399,582	10,440,086
Other products (not classified in this industry).....	2,595,735	3,081,732
Receipts for contract and repair work.....	71,016	49,604
Beauty-shop and barber-shop equipment, total value.....	10,876,985	10,749,278
Beauty-shop and barber-shop equipment made in this industry.....	10,360,582	10,440,086
Beauty-shop and barber-shop equipment made as secondary products in other industries.....	507,403	309,192

<sup>1</sup> Revised.  
<sup>2</sup> Value of manicuring implements, dresserettes, chairs, hair tonics and dressings, shampoos, cosmetics, etc.

**TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

PRODUCT	1939	1937
Total value.....	\$10,876,985	\$10,749,278
Permanent-waving machines.....	2,021,366	2,879,011
Permanent-waving machine parts.....	590,141	745,376
Permanent-waving pads.....	2,746,230	1,891,347
Machinless permanent-waving equipment.....	332,749	201,879
Hair driers.....	2,018,937	2,056,496
Hair curlers.....	2,042,478	1,465,291
Other beauty-shop equipment and beauty-shop supplies.....	1,155,034	1,809,378

<sup>1</sup> Revised.  
<sup>2</sup> Includes value of heaters, eyelash curlers, vibrators, and facial-massage machines (power-driven), etc.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,986	1,849	1,785	1,935	2,146	2,071	2,242	1,953	1,885	1,989	2,108	1,957	1,915
1937.....	2,548	2,628	2,771	2,792	2,791	2,710	2,574	2,405	2,313	2,433	2,514	2,425	2,162
California.....	57	63	65	54	54	50	54	55	50	57	58	61	59
Illinois.....	619	506	423	547	680	657	743	572	578	645	747	666	675
Minnesota.....	109	115	119	102	121	133	148	112	66	90	103	97	100
Missouri.....	63	60	61	71	90	66	60	63	54	60	62	56	61
New Jersey.....	349	344	368	386	424	360	389	378	375	371	290	269	230
New York.....	543	529	508	530	530	547	595	536	525	520	599	581	570
Ohio.....	87	88	87	86	88	88	89	86	87	86	87	84	87
Pennsylvania.....	62	65	68	61	68	70	74	63	54	58	68	61	52

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	72
Reporting expenditures for plant and equipment.....	41
Value of products:	
Total for the industry.....	\$13,006,333
Reporting expenditures for plant and equipment.....	11,016,209
Expenditures for plant and equipment:	
Total for the industry.....	149,246
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	16,357
Expenditures for new machinery and operating equipment.....	112,273
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	20,616

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,792,293	\$1,708,026
Finished products.....	722,722	715,739
Materials, supplies, etc.....	1,069,571	992,287
End of year, total.....	2,023,466	1,916,330
Finished products.....	802,006	789,843
Materials, supplies, etc.....	1,220,360	1,125,496
Value of products for the industry, total.....	13,006,333	13,571,422
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	12,855,670	13,363,916
Value for establishments not reporting inventories.....	150,663	207,506

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments.....	72
Number of establishments reporting power equipment.....	71
Prime movers, Diesel and semi-Diesel engines, driving generators:	
Number.....	1
Horsepower.....	40
Generators, driven by Diesel and semi-Diesel engines, kilowatt rating.....	20
Electric motors, total:	
Number.....	1,403
Horsepower.....	3,039
Driven by purchased energy--	
Number.....	1,402
Horsepower.....	3,934
Driven by energy generated in establishments reporting--	
Number.....	1
Horsepower.....	25
Electric energy (kilowatt-hours):	
Generated in plant.....	26,000
Purchased.....	1,866,755

<sup>1</sup> No comparable figures for 1929 available.

## FURS, DRESSED AND DYED

[A preliminary report for this industry was issued December 6, 1940]

**Description of the industry.**—This industry embraces tanning, bleaching, and dyeing of pelts, and dressing of establishments primarily engaged in scraping, currying, hair and bristles.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1939	145	5,116	\$9,065,676	\$4,858,416	\$22,395,325	\$17,536,909	746
1937	121	6,343	8,335,170	6,448,632	21,762,887	15,314,255	( <sup>5</sup> )
1935	167	6,434	7,501,237	6,043,326	21,339,863	14,690,537	( <sup>5</sup> )
1933	181	5,364	6,246,303	9,539,725	24,947,543	15,407,818	( <sup>5</sup> )
1931	243	5,160	7,968,006	16,220,722	37,872,653	21,651,931	( <sup>5</sup> )
1920	248	5,167	8,596,377	13,648,954	40,237,192	21,588,238	2,440
1927	172	5,540	10,360,987	7,071,850	27,080,635	20,608,785	3,011
1925	133	5,050	8,205,892	7,296,408	25,422,663	18,126,255	3,122
1923	162	5,203	8,381,453	7,241,783	25,406,841	18,225,058	( <sup>5</sup> )
1921	120	4,429	6,758,712	6,070,474	19,157,339	13,086,865	( <sup>5</sup> )
1910	141	5,075	7,098,280	6,338,835	20,384,569	14,045,734	1,944
1914	96	1,525	222,060	906,036	2,875,036	1,969,000	1,337
1909	93	1,241	806,468	810,800	2,390,959	1,680,159	1,394
1904	85	1,105	754,988	1,641,950	3,215,701	1,573,751	1,007
1899	92	835	478,190	519,690	1,400,455	880,756	696

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	New Jersey	New York	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup>	145	7	3	17	100	7	11
Proprietors and firm members	91	6		5	66	7	7
Persons reported by manufacturing establishments, total <sup>3</sup>	6,015	49	106	1,705	3,270	521	304
Salaried officers of corporations <sup>3</sup>	235	4	6	38	171	10	6
Manufacturing:							
Salaried employees <sup>3</sup>	315	8	6	96	153	22	30
Wage earners (average for the year) <sup>4</sup>	5,115	33	93	1,560	2,693	472	264
Distribution	325	4	1	55	247	14	4
Construction	25			10	6	3	
Other							
Salaries and wages, total <sup>3</sup>	\$11,960,167	\$73,933	\$148,004	\$3,959,107	\$6,539,843	\$714,840	\$524,440
Salaried officers <sup>3</sup>	1,250,900	9,918	33,598	240,892	898,252	33,900	45,350
Manufacturing:							
Salaries <sup>3</sup>	902,129	10,617	9,616	351,886	391,072	50,085	88,863
Wages	9,065,676	48,109	97,883	3,162,614	4,794,380	679,673	383,111
Distribution	702,650	5,289	1,917	160,680	476,732	41,856	7,126
Construction	38,812			25,035	9,351	4,426	
Other							
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	4,858,416	200,859	228,228	1,056,564	2,408,051	502,727	376,987
Materials and supplies	4,401,439	279,070	211,222	970,607	2,115,410	485,122	340,002
Fuel	102,191	1,126	11,050	28,479	36,251	3,901	21,384
Purchased electric energy	249,901	4,260	5,956	57,478	187,044	13,704	11,469
Contract work	104,885	6,413			94,340		4,132
Value of products	22,395,325	492,455	484,272	7,014,721	11,776,288	1,446,463	1,211,128
Value added by manufacture <sup>5</sup>	17,536,909	171,596	256,044	5,958,157	9,373,235	948,736	834,141

<sup>1</sup> Kentucky, 1 establishment; Massachusetts, 2; Michigan, 2; Minnesota, 1; Missouri, 2; Washington, 2; Wisconsin, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

No detailed production data are collected for this industry; therefore, no figures are available for the above tables.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1930.....	5, 115	4, 362	3, 885	4, 388	5, 188	5, 354	5, 376	5, 625	5, 475	5, 570	5, 462	5, 248	5, 453
1937.....	6, 343	6, 745	6, 761	6, 953	6, 980	7, 322	6, 700	6, 854	6, 819	5, 340	5, 025	5, 431	4, 574
1929.....	5, 167	4, 546	5, 196	5, 554	5, 518	5, 327	5, 305	5, 303	5, 658	5, 623	5, 410	4, 557	4, 060
California.....	33	22	21	22	25	27	29	43	45	46	37	38	44
Illinois.....	93	76	91	83	90	120	134	112	89	83	79	71	83
New Jersey.....	1, 560	1, 550	1, 248	1, 367	1, 687	1, 759	1, 715	1, 711	1, 560	1, 607	1, 533	1, 386	1, 610
New York.....	2, 693	2, 187	2, 046	2, 280	2, 699	2, 753	2, 794	2, 979	2, 997	2, 956	2, 939	2, 870	2, 819
Pennsylvania.....	472	256	217	383	433	440	442	511	521	617	600	616	631

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	145
Reporting expenditures for plant and equipment.....	76
Value of products:	
Total for the industry.....	\$22, 395, 325
Reporting expenditures for plant and equipment.....	14, 613, 997
Expenditures for plant and equipment:	
Total for the industry.....	192, 012
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	64, 970
Expenditures for new machinery and operating equipment.....	110, 512
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	15, 487
Expenditures unclassified.....	1, 043

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$620, 029	\$526, 426
Finished products.....	293, 079	526, 426
Materials, supplies, etc.....	326, 950	
End of year, total.....	662, 807	473, 497
Finished products.....	264, 313	
Materials, supplies, etc.....	398, 494	473, 497
Value of products for the industry, total.....	22, 395, 325	21, 762, 887
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	19, 095, 593	15, 687, 235
Value for establishments not reporting inventories.....	3, 299, 732	6, 075, 652

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	145	248
Number of establishments reporting power equipment.....	144	147
Prime movers, aggregate:		
Number.....	7	116
Horsepower.....	746	12, 440
Prime movers, steam engines, driving generators—		
Number.....	4	116
Horsepower.....	700	12, 440
Prime movers not driving generators, total—		
Number.....	3	
Horsepower.....	46	
Steam engines—		
Number.....	2	( <sup>1</sup> )
Horsepower.....	45	
Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—		
Number.....	1	
Horsepower.....	1	
Generators, kilowatt rating, total.....	467	1, 170
Generators, driven by—		
Steam engines, kilowatt rating.....	407	( <sup>1</sup> )
Electric motors, total:		
Number.....	2, 520	1, 392
Horsepower.....	13, 834	9, 990
Driven by purchased energy—		
Number.....	2, 445	1, 236
Horsepower.....	12, 697	8, 329
Driven by energy generated in establishments reporting—		
Number.....	84	150
Horsepower.....	1, 137	1, 661
Electric energy (kilowatt-hours):		
Generated in plant.....	933, 900	( <sup>4</sup> )
Purchased.....	8, 828, 683	6, 319, 89

<sup>1</sup> Includes data for prime movers not driving generators.<sup>2</sup> Gas, gasoline, etc.<sup>3</sup> Not called for on schedule.<sup>4</sup> Data not available.

## SIGNS, ADVERTISING DISPLAYS, AND ADVERTISING NOVELTIES

[A preliminary report for this industry was issued December 28, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of neon signs; electrical, mechanical, cut-out, or plate signs, advertising displays, and advertising novelties. The advertising novelties cover the manufacture of tools, utensils, and other small articles intended primarily for advertising purposes,

although the manufacture of similar articles not intended for such use is not included in this classification. The painting of outdoor signs on billboards, walls, etc., does not come within the scope of the census, and the printing of advertising matter is assigned to the "General commercial (job) printing" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939	1,386	17,206	\$20,557,406	\$32,493,335	\$87,625,220	\$55,131,885	2,081
1937	1,001	16,042	19,131,303	27,753,884	75,722,836	47,908,051	( <sup>5</sup> )
1935	1,075	13,712	14,931,953	21,920,094	61,362,382	39,442,288	( <sup>5</sup> )
1933	848	12,044	11,577,349	15,311,910	47,144,351	31,832,441	( <sup>5</sup> )
1931	1,078	14,463	18,484,770	21,297,359	74,631,351	53,383,992	( <sup>5</sup> )
1929	1,239	20,000	27,900,605	35,701,412	118,044,157	82,342,745	5,254
1927	813	16,907	24,044,350	30,892,294	98,431,024	67,588,730	5,365
1925	759	18,123	20,704,187	25,858,149	89,009,343	63,611,194	3,573
1923	648	12,988	16,429,460	22,641,032	67,223,070	44,582,594	( <sup>5</sup> )
1921	624	10,373	12,703,005	18,734,401	53,270,864	34,536,463	( <sup>5</sup> )
1919	779	10,432	9,715,216	16,071,024	43,343,003	27,271,169	3,188
1914	776	9,566	5,933,044	9,058,788	24,792,210	15,733,422	3,087
1909 <sup>7</sup>	288	5,540	3,104,593	4,708,915	13,546,385	8,837,470	2,416

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

<sup>7</sup> No comparable data for prior years.

Table 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Alabama	Arkansas	California	Colorado	Connecticut	District of Columbia	Florida	Georgia	Illinois
Number of establishments <sup>1</sup>	1,386	7	5	110	16	15	6	18	12	115
Proprietors and firm members	1,028	6	6	117	17	18	9	11	6	73
Persons reported by manufacturing establishments, total <sup>2</sup>	23,370	37	36	1,494	191	163	47	152	124	3,428
Salaried officers of corporations <sup>3</sup>	1,023	2	2	33	13	5	3	8	9	134
Manufacturing:										
Salaried employees <sup>4</sup>	2,246	3	4	115	30	18	4	13	10	883
Wage earners (average for the year) <sup>5</sup>	17,206	32	27	1,038	118	103	34	109	86	2,874
Distribution	2,824		3	305	30	37	6	20	19	327
Construction	68			3				2		10
Other	3									
Salaries and wages, total <sup>6</sup>	\$33,674,925	\$31,755	\$40,634	\$2,610,322	\$321,974	\$253,964	\$80,675	\$221,849	\$180,821	\$4,988,669
Salaried officers <sup>7</sup>	4,577,951	2,507	6,000	142,743	47,143	24,714	14,931	25,327	32,435	796,608
Manufacturing:										
Salaries <sup>8</sup>	3,575,754	1,933	6,800	208,671	44,080	30,838	6,900	10,692	9,458	672,997
Wages	20,557,406	27,815	23,454	1,608,374	174,668	137,320	47,265	155,145	117,716	2,945,547
Distribution	4,889,216		4,380	646,752	55,773	61,092	11,579	19,085	21,212	555,973
Construction	70,635			3,782				2,600		17,544
Other	3,963									
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	\$32,493,335	52,835	34,063	1,685,785	180,619	121,703	62,811	154,093	114,261	5,519,036
Materials, supplies, and containers	29,824,728	50,072	32,247	1,592,601	168,624	114,007	61,078	145,662	107,273	4,856,250
Fuel	401,100	686	555	15,189	2,911	1,870	825	1,857	2,843	52,813
Purchased electric energy	829,868	1,195	1,261	44,102	4,655	4,844	875	4,072	2,831	103,151
Contract work	1,637,639	882		33,923	4,529	1,282	35	2,502	1,314	503,817
Value of products	87,625,220	120,619	94,630	5,850,510	869,484	504,627	204,710	508,237	395,942	13,785,980
Value added by manufacture <sup>9</sup>	55,131,885	58,284	60,597	4,164,726	688,865	382,924	141,869	354,144	281,681	8,266,944

See footnotes at end of table.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Indiana	Iowa	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota
Number of establishments <sup>1</sup> .....	31	24	11	9	8	5	21	60	49	36
Proprietors and firm members.....	17	20	11	2	5	3	17	48	38	26
Persons reported by manufacturing establishments, total <sup>2</sup> .....	393	500	125	347	139	38	493	835	834	570
Salaried officers of corporations <sup>2</sup> .....	25	9	6	13	3	4	17	29	30	25
Manufacturing:										
Salaried employees <sup>2</sup> .....	57	50	15	41	8	4	50	123	111	29
Wage earners (average for the year) <sup>3</sup> .....	236	346	87	270	121	27	402	613	610	430
Distribution.....	25	92	11	23	7	3	24	70	82	86
Construction.....			6						1	
Other.....		3								
Salaries and wages, total <sup>2</sup> .....	\$514, 125	\$581, 156	\$140, 127	\$489, 341	\$204, 035	\$43, 587	\$554, 347	\$1, 072, 424	\$1, 073, 976	\$757, 580
Salaried officers <sup>2</sup> .....	75, 091	74, 034	19, 226	77, 432	20, 800	8, 474	52, 950	101, 058	139, 206	96, 199
Manufacturing:										
Salaries <sup>2</sup> .....	89, 759	67, 760	18, 162	71, 717	15, 550	2, 508	57, 735	168, 332	164, 011	44, 114
Wages.....	806, 325	313, 059	81, 709	297, 997	138, 441	27, 027	409, 741	670, 135	664, 924	461, 223
Distribution.....	42, 760	121, 730	18, 725	42, 195	20, 244	4, 978	33, 921	132, 899	103, 532	166, 044
Construction.....			2, 305						1, 403	
Other.....		3, 993								
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	453, 532	913, 228	126, 295	462, 301	147, 021	35, 138	541, 137	1, 112, 913	1, 237, 406	795, 925
Materials, supplies, and containers.....	427, 085	887, 448	108, 834	440, 048	141, 776	33, 240	486, 460	1, 059, 701	1, 156, 661	749, 721
Fuel.....	6, 916	9, 061	2, 069	7, 134	1, 183	734	42, 673	7, 842	21, 317	8, 014
Purchased electric energy.....	13, 342	10, 620	10, 086	7, 204	3, 049	1, 153	5, 974	19, 818	20, 070	15, 658
Contract work.....	6, 189	6, 099	4, 106	7, 915	1, 613		6, 090	26, 492	38, 758	22, 532
Value of products.....	1, 258, 944	2, 142, 154	455, 906	1, 188, 563	422, 079	125, 231	1, 496, 482	2, 866, 226	2, 793, 269	2, 144, 038
Value added by manufacture <sup>4</sup> .....	805, 412	1, 228, 926	329, 611	726, 262	274, 458	90, 093	955, 345	1, 753, 313	1, 555, 863	1, 348, 113

  

ITEM	Missouri	Montana	Nebraska	New Jersey	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon
Number of establishments <sup>1</sup> .....	50	4	9	56	316	5	5	109	9	16
Proprietors and firm members.....	33	3	5	29	223	4	4	60	6	10
Persons reported by manufacturing establishments, total <sup>2</sup> .....	784	48	130	1, 494	4, 517	40	32	2, 456	71	186
Salaried officers of corporations <sup>2</sup> .....	44	3	4	75	252	1	4	87	5	16
Manufacturing:										
Salaried employees <sup>2</sup> .....	65	7	9	137	381	5	6	195	7	25
Wage earners (average for the year) <sup>3</sup> .....	593	33	91	948	3, 416	29	15	1, 885	45	104
Distribution.....	82	5	26	334	466	5	7	288	14	41
Construction.....					2			1		
Other.....										
Salaries and wages, total <sup>2</sup> .....	\$1, 129, 031	\$82, 867	\$191, 241	\$2, 451, 542	\$6, 851, 284	\$46, 336	\$40, 909	\$3, 375, 429	\$80, 908	\$272, 580
Salaried officers <sup>2</sup> .....	190, 709	15, 764	15, 160	336, 604	1, 061, 713	4, 650	8, 342	448, 868	7, 229	43, 584
Manufacturing:										
Salaries <sup>2</sup> .....	110, 004	9, 645	19, 286	253, 518	585, 088	4, 824	7, 154	335, 715	7, 651	38, 101
Wages.....	671, 221	40, 911	116, 822	1, 244, 269	4, 479, 588	28, 036	18, 849	2, 139, 672	46, 246	104, 317
Distribution.....	151, 637	10, 547	40, 275	617, 151	718, 149	8, 826	6, 564	450, 134	19, 782	86, 578
Construction.....					6, 146			1, 040		
Other.....										
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	1, 301, 257	52, 909	106, 423	1, 906, 562	6, 514, 451	53, 505	36, 124	3, 817, 382	46, 176	135, 007
Materials, supplies, and containers.....	1, 245, 760	50, 075	98, 609	1, 602, 924	6, 015, 232	51, 553	32, 007	3, 408, 361	43, 422	126, 647
Fuel.....	13, 597	1, 123	2, 336	24, 318	57, 056	185	970	51, 475	818	2, 023
Purchased electric energy.....	20, 972	1, 711	3, 175	30, 872	123, 364	1, 767	2, 547	69, 769	1, 877	5, 497
Contract work.....	20, 928		2, 303	248, 448	318, 199			296, 780	59	
Value of products.....	3, 204, 539	219, 207	431, 448	5, 143, 224	17, 744, 615	124, 037	93, 516	9, 500, 015	172, 278	721, 100
Value added by manufacture <sup>4</sup> .....	1, 903, 282	166, 298	325, 025	3, 236, 662	11, 280, 164	70, 532	57, 392	5, 682, 633	126, 102	586, 123

  

ITEM	Pennsylvania	Rhode Island	Tennessee	Texas	Utah	Virginia	Washington	West Virginia	Wisconsin	Other States <sup>5</sup>
Number of establishments <sup>1</sup> .....	85	7	15	43	6	16	25	6	33	13
Proprietors and firm members.....	69	7	8	39	9	11	19	3	24	12
Persons reported by manufacturing establishments, total <sup>2</sup> .....	1, 223	25	245	480	76	220	266	50	987	92
Salaried officers of corporations <sup>2</sup> .....	49		15	24	1	12	14	6	37	4
Manufacturing:										
Salaried employees <sup>2</sup> .....	112	5	24	30	14	15	44	6	79	12
Wage earners (average for the year) <sup>3</sup> .....	934	20	171	344	30	172	177	33	778	69
Distribution.....	133		35	70	17	7	31	5	81	7
Construction.....				12	5	14			12	
Other.....										
Salaries and wages, total <sup>2</sup> .....	\$1, 724, 868	\$21, 654	\$278, 054	\$625, 239	\$109, 298	\$266, 604	\$466, 786	\$77, 581	\$1, 303, 644	\$117, 049
Salaried officers <sup>2</sup> .....	194, 869		51, 639	94, 163	6, 000	59, 600	62, 608	25, 500	181, 520	12, 491
Manufacturing:										
Salaries <sup>2</sup> .....	186, 909	4, 490	23, 682	37, 913	20, 705	18, 409	72, 530	7, 301	113, 440	10, 866
Wages.....	1, 054, 940	17, 164	157, 361	385, 200	53, 210	171, 630	260, 893	38, 233	830, 709	83, 340
Distribution.....	288, 150		40, 372	97, 454	22, 753	15, 610	70, 755	6, 547	165, 703	10, 362
Construction.....				10, 500	6, 625	1, 415			17, 266	
Other.....										
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	1, 742, 030	35, 457	289, 833	460, 341	76, 639	373, 439	229, 477	37, 041	1, 430, 483	98, 537
Materials, supplies, and containers.....	1, 622, 428	33, 120	280, 473	429, 918	69, 527	358, 684	215, 963	33, 060	1, 394, 644	91, 960
Fuel.....	24, 948	486	3, 184	6, 186	1, 824	4, 714	4, 328	336	11, 120	1, 808
Purchased electric energy.....	30, 918	1, 151	4, 264	14, 518	3, 228	6, 879	8, 126	2, 736	24, 482	2, 960
Contract work.....	63, 743	700	1, 912	9, 719	2, 062	3, 162	1, 060		237	1, 809
Value of products.....	4, 659, 232	83, 012	713, 024	1, 546, 134	339, 466	842, 319	980, 532	160, 609	3, 369, 791	348, 861
Value added by manufacture <sup>4</sup> .....	2, 917, 202	47, 555	423, 191	1, 085, 793	262, 827	469, 380	751, 105	123, 568	1, 930, 308	250, 314

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.<sup>4</sup> Value of products less cost of materials, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.<sup>5</sup> Arizona, 1 establishment; Delaware, 1; Idaho, 1; Mississippi, 3; Nevada, 1; New Hampshire, 1; New Mexico, 1; South Carolina, 1; South Dakota, 1; Wyoming, 2.

SIGNS, ADVERTISING DISPLAYS, ETC.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Signs, Advertising Displays, and Advertising Novelties industry, all products, total value.....	\$37,625,220	\$75,722,835
Signs, advertising displays, and advertising novelties.....	70,885,206	70,347,069
Other products (not classified in this industry).....	4,625,757	3,229,404
Receipts for contract and repair work.....	3,114,257	2,146,832
Signs, advertising displays, and advertising novelties, total value.....	85,770,317	74,811,080
Signs, advertising displays, and advertising novelties made in this industry.....	70,885,206	70,347,069
Signs, advertising displays, and advertising novelties made as secondary products in other industries.....	5,885,111	4,463,981

<sup>1</sup> Value of tin cans, tin trimmings, license tags, metal savings banks, pipe covering bands, etc.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$85,770,317	\$74,811,080
Neon-tube signs.....	21,960,650	21,934,242
Other electric signs and advertising devices.....	3,545,868	1,970,560
Window and lobby cut-outs and displays.....	12,200,527	10,744,780
Metal signs.....	9,439,848	7,324,111
Process signs.....	6,461,689	5,326,411
Outdoor or highway signs not specified above.....	4,011,499	3,008,381
Other signs.....	5,852,968	5,375,727
Cards and posters.....	2,359,430	1,584,105
Sign letters.....	534,992	(?)
Advertising novelties.....	15,633,750	12,910,001
Signs and advertising novelties not reported in detail.....	3,700,090	4,032,672

<sup>1</sup> Not called for separately on schedule.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	17,206	15,921	15,963	16,782	17,372	17,247	17,162	16,856	16,769	17,548	18,237	18,306	18,247
1937.....	16,042	15,107	15,150	15,811	16,214	16,323	16,354	16,173	16,216	16,349	16,699	16,282	15,320
1929.....	20,000	18,268	18,642	18,883	19,378	19,917	20,237	20,352	20,535	20,667	21,142	21,130	20,835
Alabama.....	32	21	21	21	21	37	37	37	37	37	37	37	37
Arkansas.....	27	22	22	22	23	23	23	30	30	31	32	32	31
California.....	1,038	990	1,028	1,055	1,084	1,053	1,041	1,044	1,032	1,026	1,046	1,029	1,031
Colorado.....	118	108	107	117	112	130	134	127	115	113	116	111	124
Connecticut.....	103	107	102	103	103	105	104	106	101	100	102	105	103
District of Columbia.....	34	33	33	34	33	33	33	34	34	34	35	35	34
Florida.....	109	110	99	97	94	89	95	96	94	106	124	141	160
Georgia.....	86	102	100	99	100	102	106	69	70	68	68	67	51
Illinois.....	2,574	2,301	2,458	2,477	2,621	2,564	2,525	2,468	2,582	2,642	2,810	2,801	2,633
Indiana.....	286	263	266	272	283	304	290	283	270	201	292	305	304
Iowa.....	346	270	248	240	263	279	310	347	396	378	475	479	455
Kansas.....	87	66	79	77	87	86	92	91	95	95	93	92	94
Kentucky.....	270	212	225	237	265	257	261	255	242	312	321	332	330
Louisiana.....	121	124	115	123	116	131	131	120	118	121	122	114	118
Maine.....	27	20	21	22	24	22	24	28	32	33	30	30	41
Maryland.....	402	341	363	392	410	399	411	413	403	423	421	426	421
Massachusetts.....	613	628	544	562	599	597	604	608	596	616	617	696	719
Michigan.....	610	529	492	514	544	550	567	552	549	880	738	630	773
Minnesota.....	430	392	394	385	435	429	437	376	373	395	437	540	572
Mississippi.....	25	25	26	26	26	26	26	25	24	24	24	24	25
Missouri.....	593	517	536	556	539	601	601	613	608	605	610	654	679
Montana.....	33	33	31	31	36	37	40	32	33	31	31	33	32
Nebraska.....	91	88	89	91	90	88	90	91	96	92	94	92	91
New Jersey.....	948	892	908	931	959	949	915	913	908	922	1,008	1,025	1,038
New York.....	3,416	3,277	3,237	3,503	3,692	3,530	3,370	3,200	3,211	3,313	3,620	3,601	3,523
North Carolina.....	29	23	22	24	28	31	34	32	30	30	28	31	30
North Dakota.....	15	14	14	14	15	15	15	15	15	15	15	15	15
Ohio.....	1,885	1,746	1,750	1,953	1,945	1,868	2,033	1,993	1,847	1,921	1,918	1,873	1,767
Oklahoma.....	45	45	44	44	50	57	52	46	42	44	40	38	36
Oregon.....	104	92	80	83	92	104	93	110	116	112	115	123	125
Pennsylvania.....	934	908	854	977	1,009	995	991	870	868	913	939	908	910
Rhode Island.....	20	20	22	23	20	22	20	21	20	18	17	17	21
Tennessee.....	171	149	149	155	163	149	159	166	185	189	194	205	193
Texas.....	344	321	320	332	345	375	357	362	350	334	329	353	345
Utah.....	39	35	37	38	36	40	42	42	40	40	37	38	41
Virginia.....	172	152	154	157	182	192	171	182	172	177	173	175	172
Washington.....	177	166	166	177	172	178	183	181	187	179	173	178	180
West Virginia.....	33	33	34	35	35	37	35	33	32	31	31	32	31
Wisconsin.....	778	706	730	734	709	721	702	753	762	809	880	900	923

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	1,386
Reporting expenditures for plant and equipment.....	630
Value of products:	
Total for the industry.....	\$87,625,220
Reporting expenditures for plant and equipment.....	56,821,204
Expenditures for plant and equipment:	
Total for the industry.....	1,371,399
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	277,061
Expenditures for new machinery and operating equipment.....	788,747
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	278,003
Expenditures unclassified.....	27,588

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$7,906,738	\$6,887,094
Finished products.....	2,127,487	1,739,435
Materials, supplies, etc.....	5,779,251	5,147,659
End of year, total.....	8,844,057	7,012,583
Finished products.....	2,385,492	2,118,483
Materials, supplies, etc.....	6,458,565	5,494,100
Value of products for the industry, total.....	87,625,220	75,722,835
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	80,081,225	63,920,469
Value for establishments not reporting inventories.....	7,543,995	11,793,366

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	1,386	1,239
Number of establishment reporting power equipment.....	1,385	757
Prime movers, aggregate:		
Number.....	19	31
Horsepower.....	2,081	5,254
Prime movers, driving generators, total—		
Number.....	12	131
Horsepower.....	1,735	15,254

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam engines—		
Number.....	9	124
Horsepower.....	1,383	14,649
Steam turbines—		
Number.....	1	12
Horsepower.....	52	1,525
Diesel and semi-Diesel engines—		
Number.....	2	
Horsepower.....	300	
Other internal-combustion engines <sup>1</sup> —		
Number.....		15
Horsepower.....		180
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	935	
Prime movers not driving generators, total—		
Number.....	7	
Horsepower.....	346	
Steam engines—		
Number.....	3	
Horsepower.....	275	( <sup>2</sup> )
Steam turbines—		
Number.....	1	
Horsepower.....	5	
Diesel and semi-Diesel engines—		
Number.....	1	
Horsepower.....	60	
Other internal-combustion engines <sup>2</sup> —		
Number.....	2	
Horsepower.....	6	
Generators, kilowatt rating, total.....	1,304	3,184
Generators, driven by—		
Steam engines, kilowatt rating.....	1,019	
Steam turbines, kilowatt rating.....	35	( <sup>3</sup> )
Diesel and semi-Diesel engines, kilowatt rating.....	250	
Generators, ordinarily idle (included above), kilowatt rating.....	620	( <sup>4</sup> )
Electric motors, total:		
Number.....	10,431	7,470
Horsepower.....	18,619	17,915
Driven by purchased energy—		
Number.....	9,553	5,893
Horsepower.....	16,147	14,373
Driven by energy generated in establishments reporting—		
Number.....	878	1,577
Horsepower.....	2,472	3,542
Electric energy (kilowatt-hours):		
Generated in plant.....	189,750	( <sup>4</sup> )
Purchased.....	22,051,085	10,793,630

<sup>1</sup> Includes data for prime movers not driving generators.<sup>2</sup> Gas, gasoline, etc.<sup>3</sup> Not called for on schedule.<sup>4</sup> Data not available.

## FABRICATED PLASTIC PRODUCTS, NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 19, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of finished products (not elsewhere classified) made of synthetic resins, cellulose compounds, and casein or galalith, except those making articles from such materials whose products are separately classified in the "Buttons" or "Brushes" (tooth and other toilet brushes) industries. The manufacture of synthetic resins and cellulose plastics for use in further manufacture are classified in the "Plastic materials" industry, of the Industrial Chemicals subgroup. Because of changes in the constitution of this industry for the census for 1939, the 1937 reports were retabulated to obtain figures com-

parable with those for 1937. No figures are available for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Num-ber of estab-lish-ments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manu-facture <sup>3</sup>	Horse-power of prime movers
1939.....	216	15,094	\$17,688,104	\$31,747,085	\$71,904,067	\$40,156,982	9,179
1937.....	129	14,184	16,955,194	26,639,637	62,139,479	35,499,842	(6)

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> No comparable data for prior years.  
<sup>5</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Massachusetts	New Jersey	New York	Ohio	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	216	24	13	28	4	15	21	51	25	14	21
Proprietors and firm members.....	71	16	-----	13	-----	6	2	16	2	6	10
Persons reported by manufacturing establishments, total <sup>3</sup> .....	17,953	461	2,179	2,435	530	1,498	1,421	2,350	2,802	2,600	1,678
Salaried officers of corporations <sup>3</sup> .....	203	20	21	42	2	17	39	70	33	22	27
Manufacturing:											
Salaried employees <sup>3</sup> .....	1,788	44	189	241	57	197	143	222	315	248	132
Wage earners (average for the year) <sup>4</sup> .....	15,094	372	1,908	2,016	466	1,193	1,163	1,940	2,326	2,215	1,496
Distribution.....	610	22	33	124	5	74	46	92	102	89	23
Construction.....	164	3	28	12	-----	15	28	26	26	26	-----
Other.....	4	-----	-----	-----	-----	2	2	-----	-----	-----	-----
Salaries and wages, total <sup>5</sup> .....	\$24,289,146	\$654,308	\$2,720,486	\$3,353,377	\$672,912	\$2,555,841	\$1,870,924	\$2,795,320	\$3,839,098	\$3,598,599	\$2,227,771
Salaried officers <sup>3</sup> .....	1,441,150	46,903	132,718	245,885	7,484	76,783	228,489	361,296	145,500	121,921	74,171
Manufacturing:											
Salaries <sup>3</sup> .....	3,495,667	73,182	362,757	498,817	110,236	402,110	300,289	404,555	589,649	472,856	281,216
Wages.....	17,688,104	487,416	2,070,936	2,358,616	635,743	1,834,725	1,201,415	1,801,043	2,810,012	2,755,199	1,832,999
Distribution.....	1,390,052	44,604	104,738	233,214	19,449	213,799	83,839	190,786	253,496	206,742	80,385
Construction.....	260,354	2,203	49,337	16,845	-----	24,928	46,669	37,640	41,041	41,701	-----
Other.....	13,819	-----	-----	-----	-----	8,496	10,323	-----	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	\$1,747,085	1,009,850	3,144,912	3,825,172	1,177,019	2,883,247	2,018,200	3,716,031	6,110,662	4,882,502	2,982,490
Materials, supplies, and containers.....	29,881,056	971,167	2,947,656	3,622,566	1,135,855	2,736,351	1,861,300	3,460,555	5,829,692	4,479,547	2,836,371
Fuel.....	781,006	7,795	94,014	62,600	15,957	61,121	72,736	69,114	100,283	217,292	80,094
Purchased electric energy.....	840,532	24,322	103,242	99,098	26,207	85,032	84,008	96,828	107,403	174,463	40,959
Contract work.....	244,461	3,566	-----	40,918	-----	743	150	89,534	73,284	11,200	25,066
Value of products.....	\$71,904,067	2,279,441	7,352,975	9,181,606	2,546,274	6,562,704	4,684,397	7,944,465	12,209,119	11,961,827	7,181,259
Value added by manufacture <sup>6</sup> .....	\$40,156,982	1,272,591	4,208,063	5,356,434	1,369,255	3,679,457	2,666,197	4,223,434	6,098,457	7,079,325	4,198,769

<sup>1</sup> Delaware, 2 establishments; Maryland, 2; Michigan, 8; Missouri, 2; Oregon, 1; Rhode Island, 2; Tennessee, 1; Washington, 1; Wisconsin, 2.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Fabricated Plastic Products, Not Elsewhere Classified industry, all products, total value.....	\$71,904,067	\$62,130,479
Fabricated plastic products, not elsewhere classified.....	63,323,004	53,056,665
Other products (not classified in this industry).....	8,400,065	9,082,814
Receipts for contract and repair work.....	180,998	( <sup>2</sup> )
Fabricated plastic products, not elsewhere classified, total value.....	76,116,201	67,661,260
Fabricated plastic products, not elsewhere classified, made in this industry.....	63,323,004	53,056,665
Fabricated plastic products, not elsewhere classified, made as secondary products in other industries.....	12,793,197	14,604,595

<sup>1</sup> Value of vulcanized fiber, carbon brushes, molds and dies, moulding compounds and varnishes, motor-vehicle hardware, gaskets, buttons, etc.

<sup>2</sup> No data.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Fabricated plastic products, not elsewhere classified, total value.....	\$76,116,201	\$67,661,260
Laminated products, total value.....	20,646,944	20,839,326
Sheets, plates, blocks, rods, tubes, and blanks.....	11,004,222	12,588,713
Electrical goods.....	3,511,548	1,233,868

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Laminated products—Continued.		
Gears, bearings, and other machine parts.....	\$2,808,650	\$2,765,009
Other.....	3,322,524	4,251,736
Molded or cast products, total value.....	32,894,710	30,120,740
Electrical goods.....	7,595,449	8,791,607
Housings (for cameras, scales, radios, etc.).....	2,485,733	1,235,769
Closures.....	2,422,050	4,228,460
Cigarette cases, compacts, vanity cases, and similar articles.....	866,552	764,075
Costume jewelry.....	703,831	( <sup>1</sup> )
Lampshades and reflectors.....	347,614	( <sup>1</sup> )
Other.....	18,493,490	15,100,760
Cellulose compounds (nitrocellulose, cellulose acetate, etc.), housings (for radios, etc.), cigarette cases, compacts, vanity cases, and similar articles.....	18,998,250	13,765,256
Casein or galalith products and soybean articles.....	2,173,932	( <sup>1</sup> )
Battery boxes (principally asphalt composition) <sup>2</sup> .....	2,827,660	2,935,508
Other plastic products.....	574,660	( <sup>1</sup> )

<sup>1</sup> No data.

<sup>2</sup> Combined to avoid disclosing, exactly or approximately, data for individual establishments.

<sup>3</sup> For additional statistics on battery boxes, see "Rubber products not elsewhere classified" industry in the Rubber Products group.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	15,094	13,597	13,829	13,984	13,898	13,979	14,034	14,464	14,520	15,043	17,301	18,031	17,542
1937.....	14,184	13,791	13,972	14,493	14,801	14,664	14,433	14,225	14,320	14,631	14,985	13,735	12,155
California.....	372	282	306	310	341	363	353	387	386	409	436	436	453
Connecticut.....	1,908	1,782	1,777	1,780	1,811	1,818	1,814	1,827	1,888	1,987	2,012	2,188	2,209
Illinois.....	2,016	1,800	1,760	1,804	1,763	1,833	1,935	1,989	2,008	2,196	2,475	2,348	2,196
Indiana.....	466	366	394	403	382	403	418	422	449	464	540	643	674
Massachusetts.....	1,193	993	1,055	1,110	1,105	1,086	1,147	1,159	1,234	1,234	1,367	1,428	1,428
Michigan.....	672	869	836	768	729	801	563	560	444	532	680	671	611
New Jersey.....	1,163	959	1,012	973	1,002	989	1,044	1,127	1,097	1,235	1,441	1,547	1,524
New York.....	1,940	1,838	1,820	1,913	1,875	1,865	1,841	1,847	1,936	2,066	2,129	2,114	2,038
Ohio.....	2,326	1,956	2,051	2,094	2,058	2,004	2,069	2,206	2,332	2,501	2,805	3,031	2,800
Pennsylvania.....	2,215	2,021	2,069	2,004	2,045	2,050	2,098	2,191	2,251	2,224	2,445	2,573	2,554

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	216
Reporting expenditures for plant and equipment.....	165
Value of products:	
Total for the industry.....	\$71,904,067
Reporting expenditures for plant and equipment.....	68,204,603
Expenditures for plant and equipment:	
Total for the industry.....	3,484,200
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	603,327
Expenditures for new machinery and operating equipment.....	2,774,407
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	105,805
Expenditures unclassified.....	751

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$9,305,040	\$7,960,962
Finished products.....	3,859,082	3,077,171
Materials, supplies, etc.....	5,446,558	4,883,791
End of year, total.....	10,270,198	9,537,441
Finished products.....	3,858,422	3,646,853
Materials, supplies, etc.....	6,411,776	5,890,588
Value of products for the industry, total.....	71,904,067	62,130,479
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	71,283,951	61,504,844
Value for establishments not reporting inventories.....	620,116	625,635

# FABRICATED PLASTIC PRODUCTS

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TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 <sup>1</sup>

	1939		1939
Number of establishments.....	218	Prime movers—Continued.	
Number of establishments reporting power equipment.....	218	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Steam turbines—	
Number.....	40	Number.....	4
Horsepower.....	9, 179	Horsepower.....	342
Prime movers, driving generators, total—		Internal-combustion engines, <sup>2</sup> other than Diesel and semi-Diesel—	
Number.....	18	Number.....	3
Horsepower.....	7, 885	Horsepower.....	57
Steam engines—		Hydroturbines and water wheels—	
Number.....	4	Number.....	1
Horsepower.....	1, 200	Horsepower.....	125
Steam turbines—		Generators, kilowatt rating, total.....	4, 987
Number.....	6	Generators, driven by—	
Horsepower.....	6, 070	Steam engines, kilowatt rating.....	800
Diesel and semi-Diesel engines—		Steam turbines, kilowatt rating.....	3, 780
Number.....	5	Diesel and semi-Diesel engines, kilowatt rating.....	277
Horsepower.....	420	Hydroturbines and water wheels, kilowatt rating.....	130
Hydroturbines and water wheels—		Generators, ordinarily idle (included above), kilowatt rating.....	2, 790
Number.....	3	Electric motors, total:	
Horsepower.....	195	Number.....	10, 216
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	4, 598	Horsepower.....	49, 341
Prime movers not driving generators, total—		Driven by purchased energy—	
Number.....	22	Number.....	9, 497
Horsepower.....	1, 294	Horsepower.....	44, 872
Steam engines—		Driven by energy generated in establishments reporting—	
Number.....	14	Number.....	809
Horsepower.....	770	Horsepower.....	4, 469
		Electric energy (kilowatt-hours):	
		Generated in plant.....	1, 470, 348
		Purchased.....	64, 041, 776

<sup>1</sup> Comparable data for 1929 not available.

<sup>2</sup> Gas, gasoline, etc.

## UMBRELLAS, PARASOLS, AND CANES

[A preliminary report for this industry was issued December 14, 1940]

**Description of the industry.**—The principal products of this industry are umbrellas, parasols, canes, umbrella and parasol cases, handles, and frames, and other parts for umbrellas, parasols, and canes.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1899.....	90	2,802	\$2,193,255	\$6,869,250	\$11,519,990	\$4,650,740	1,865
1937.....	81	3,088	2,572,398	8,041,556	13,237,294	5,195,738	(9)
1935.....	83	2,186	1,712,054	6,158,709	10,085,739	3,927,030	(9)
1933.....	80	2,155	1,530,932	4,971,506	8,258,067	3,287,101	(9)
1931.....	93	1,852	1,610,627	5,135,961	9,114,759	3,978,798	(9)
1929.....	141	2,855	2,768,410	10,907,373	17,994,370	7,087,003	1,696
1927.....	164	3,308	3,411,261	14,020,984	23,156,400	9,135,416	1,228
1925.....	176	3,731	3,696,014	16,594,328	27,299,431	10,705,103	1,570
1923.....	187	3,770	3,738,831	17,999,629	28,395,233	10,395,604	(9)
1921.....	154	3,149	3,126,246	16,888,759	26,007,762	9,119,003	(9)
1919.....	198	3,368	3,139,662	15,632,989	25,308,826	9,675,837	2,517
1914.....	265	4,792	2,107,453	8,591,867	13,813,353	5,221,486	1,959
1909.....	256	5,472	2,252,858	10,055,915	15,864,122	5,808,207	1,634
1904.....	204	5,386	1,826,043	8,250,246	13,296,046	5,045,800	1,681
1899.....	202	5,640	1,868,514	8,381,216	13,668,986	5,287,770	1,054

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Massachusetts	New Jersey	New York	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	90	3	4	7	55	13	8
Proprietors and firm members.....	79	4	3	3	54	9	6
Persons reported by manufacturing establishments, total <sup>3</sup> .....	3,236	34	136	693	978	886	510
Salaried officers of corporations <sup>4</sup> .....	78		3	11	35	18	11
Manufacturing:							
Salaried employees <sup>5</sup> .....	184	2	7	39	42	74	20
Wage earners (average for the year) <sup>6</sup> .....	2,802	29	117	637	843	770	467
Distribution.....	112	3	9	6	58	24	12
Construction.....							
Other.....							
Salaries and wages, total <sup>7</sup> .....	\$3,055,376	\$14,522	\$104,520	\$766,764	\$960,405	\$804,082	\$404,183
Salaried officers <sup>8</sup> .....	357,994		3,700	86,574	141,652	79,058	47,010
Manufacturing:							
Salaries <sup>9</sup> .....	311,501	1,300	14,008	89,354	65,935	115,746	25,158
Wages.....	2,193,255	10,758	70,712	573,205	688,149	546,180	304,251
Distribution.....	192,628	2,464	16,100	17,631	64,669	63,998	27,704
Construction.....							
Other.....							
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	6,869,250	62,330	237,677	967,670	3,068,120	1,514,900	1,018,454
Materials and supplies.....	6,695,882	61,754	232,556	927,602	2,985,649	1,476,221	1,012,040
Fuel.....	59,482	50	1,237	29,470	6,282	20,932	1,511
Purchased electric energy.....	45,090	526	3,180	10,460	13,685	13,546	3,703
Contract work.....	68,796		704	88	62,513	4,291	1,200
Value of products.....	11,519,990	91,947	377,309	2,089,866	4,617,244	2,595,810	1,747,814
Value added by manufacture <sup>10</sup> .....	4,650,740	29,617	139,632	1,122,196	1,549,115	1,080,820	729,360

<sup>1</sup> Louisiana, 1 establishment; Maryland, 4; Missouri, 1; Ohio, 2.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

# UMBRELLAS, PARASOLS, AND CANES

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**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

	1939	1937
Umbrellas, Parasols, and Canes industry, all products, total value.....	\$11,519,990	\$13,237,294
Umbrellas, parasols, and canes.....	10,897,883	12,398,430
Other products (not classified in this industry).....	1,504,511	818,089
Receipts for contract and repair work.....	118,096	20,160
Umbrellas, parasols, and canes, total value.....	11,153,532	12,673,425
Umbrellas, parasols, and canes made in this industry.....	10,897,883	12,398,430
Umbrellas, parasols, and canes made as secondary products in other industries.....	256,140	274,989

<sup>1</sup> Value of bag frames, raincoats, awnings, garden furniture, corset trimmings, etc.

**TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

PRODUCT	1939	1937
Total value.....	\$11,153,532	\$12,673,425
Umbrellas and parasols <sup>1</sup> .....	8,289,007	9,835,267
Umbrella and parasol frames.....	2,002,181	1,849,769
Umbrella handles and other parts.....	760,639	896,969
Canes and parts.....	101,705	91,430

<sup>1</sup> For 1939, includes \$383,410, as value of beach, garden, and wagon umbrellas, so far as separately reported. The corresponding value for 1937 was \$433,044.

**TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,862	2,833	2,828	2,814	2,771	2,725	2,646	2,654	2,633	2,600	3,216	3,265	3,055
1937.....	3,088	2,902	3,030	3,098	3,070	2,975	2,413	3,029	3,173	3,345	3,361	3,368	3,252
1929.....	2,855	2,742	2,726	2,703	2,697	2,714	2,716	2,706	2,775	2,936	3,147	3,280	3,115
Illinois.....	29	27	27	27	30	30	30	27	27	30	30	30	27
Maryland.....	321	337	318	314	300	294	261	292	309	342	354	360	330
Massachusetts.....	117	96	122	117	117	119	100	111	88	123	137	134	129
New Jersey.....	637	651	615	607	582	591	574	578	598	624	762	760	701
New York.....	843	780	814	836	867	820	783	769	740	869	948	975	909
Pennsylvania.....	770	792	783	767	719	722	713	729	732	771	842	858	817

**TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939**

	1939
Number of establishments:	
Total for the industry.....	90
Reporting expenditures for plant and equipment.....	39
Value of products:	
Total for the industry.....	\$11,519,990
Reporting expenditures for plant and equipment.....	5,097,018
Expenditures for plant and equipment:	
Total for the industry.....	40,424
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	5,137
Expenditures for new machinery and operating equipment.....	32,546
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	2,616
Expenditures unclassified.....	125

**TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937**

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,523,543	\$1,554,043
Finished products.....	704,582	692,928
Materials, supplies, etc.....	818,961	861,117
End of year, total.....	1,803,630	1,718,803
Finished products.....	762,205	787,038
Materials, supplies, etc.....	1,041,425	931,765
Value of products for the industry, total.....	11,519,990	13,237,294
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	11,206,847	12,776,480
Value for establishments not reporting inventories.....	313,143	460,814

**TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929**

	1939	1929
Number of establishments.....	90	141
Number of establishments reporting power equipment.....	90	134
Prime movers, aggregate:		
Number.....	11	11
Horsepower.....	1,865	1,096

**TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued**

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators, total—		
Number.....	7	11
Horsepower.....	840	1,096
Steam engines—		
Number.....	5	19
Horsepower.....	585	1,096
Steam turbines—		
Number.....		12
Horsepower.....		1,600
Diesel and semi-Diesel engines—		
Number.....	2	
Horsepower.....	255	
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	375	
Prime movers not driving generators, total—		
Number.....	4	
Horsepower.....	1,025	
Steam engines—		
Number.....	4	( <sup>1</sup> )
Horsepower.....	1,025	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	150	
Generators, kilowatt rating, total.....	427	767
Generators, driven by—		
Steam engines, kilowatt rating.....	220	
Diesel and semi-Diesel engines, kilowatt rating.....	207	( <sup>2</sup> )
Generators, ordinarily idle (included above), kilowatt rating.....	75	( <sup>3</sup> )
Electric motors, total—		
Number.....	989	728
Horsepower.....	1,417	2,295
Driven by purchased energy—		
Number.....	897	669
Horsepower.....	1,028	1,373
Driven by energy generated in establishments reporting—		
Number.....	92	59
Horsepower.....	389	922
Electric energy (kilowatt-hours):		
Generated in plant.....	240,542	( <sup>1</sup> )
Sold.....	5,488	( <sup>2</sup> )
Purchased.....	1,255,877	1,253,610

<sup>1</sup> Includes data for prime movers not driving generators.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Data not available.

# TOBACCO PIPES AND CIGARETTE HOLDERS

[A preliminary report for this industry was issued November 12, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of tobacco pipes from briar, meerschaum, composition, corncobs, and clay, with mouthpieces of amber, rubber, celluloid, ivory, and other materials, and of cigar and cigarette holders of materials other than paper and hard rubber.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939	32	2,481	\$2,406,530	\$2,299,308	\$7,507,616	\$5,208,308	775
1937	25	2,382	2,412,522	2,522,685	7,647,105	5,124,420	(5)
1935	20	2,240	2,283,345	2,018,696	6,176,402	4,157,706	(5)
1933	22	1,862	1,145,814	960,270	3,273,851	2,313,581	(5)
1931	24	1,677	1,761,388	1,775,548	5,522,316	3,746,768	(5)
1929	24	1,680	1,661,020	1,749,222	5,557,982	3,808,760	436
1927	23	1,807	2,278,537	2,722,706	7,273,806	4,551,100	519
1925	28	1,970	2,290,769	2,718,135	7,298,595	4,580,460	323
1923	30	2,402	2,720,218	3,827,927	9,704,816	5,876,889	(5)
1921	30	1,765	1,937,097	2,826,856	7,123,810	4,297,954	(5)
1919	56	2,539	2,555,291	3,497,414	11,553,777	8,056,363	749
1914	47	2,354	1,188,411	2,308,240	4,220,084	1,911,838	1,323
1909	62	2,775	1,254,842	2,458,655	5,311,900	2,853,245	1,155
1904	68	1,047	830,801	1,354,848	2,834,436	1,480,148	740
1899	98	1,585	737,647	1,106,299	2,471,908	1,365,609	538

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Missouri	New York	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	32	5	15	12
Proprietors and firm members.....	13	4	8	1
Persons reported by manufacturing establishments, total <sup>3</sup> .....	2,814	194	1,161	1,457
Salaried officers of corporations <sup>4</sup> .....	46	5	24	17
Manufacturing: Salaried employees <sup>5</sup> .....	127	10	78	44
Wage earners (average for the year) <sup>6</sup> .....	2,481	173	1,000	1,306
Distribution.....	154	5	63	86
Construction.....	6	1	1	4
Other.....				

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued**

ITEM	United States	Missouri	New York	Other States <sup>1</sup>
Salaries and wages, total <sup>2</sup> .....	\$3,156,370	\$130,268	\$1,447,404	\$1,578,707
Salaried officers <sup>3</sup> .....	281,973	13,580	150,197	118,196
Manufacturing: Salaries <sup>4</sup> .....	215,103	10,401	114,793	83,939
Wages.....	2,406,530	91,621	1,102,511	1,212,398
Distribution.....	243,754	7,742	78,113	157,899
Construction.....	9,019	924	1,820	6,275
Other.....				
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	2,299,308	119,206	1,178,269	1,001,833
Materials, supplies, and containers.....	2,158,223	112,960	1,130,026	915,221
Fuel.....	21,740	1,295	10,412	10,039
Purchased electric energy.....	72,448	4,042	36,916	30,590
Contract work.....	46,891		916	45,975
Value of products.....	7,507,616	366,897	3,320,010	3,820,709
Value added by manufacture <sup>5</sup> .....	5,208,308	247,691	2,141,741	2,818,876

<sup>1</sup> Arkansas, 1 establishment; Illinois, 2; Massachusetts, 1; Minnesota, 1; New Hampshire, 1; New Jersey, 4; Ohio, 1; Washington, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

	1939	1937
Tobacco Pipes and Cigarette Holders industry, all products, total value.....	\$7,507,616	\$7,647,105
Tobacco pipes, cigar and cigarette holders, and parts.....	7,426,531	7,586,271
Other products (not classified in this industry).....	26,108	5,964
Receipts for contract and repair work.....	54,977	54,870
Tobacco pipes, cigar and cigarette holders, and parts, total value.....	7,426,531	7,650,408
Tobacco pipes, cigar and cigarette holders, and parts made in this industry.....	7,426,531	7,586,271
Tobacco pipes, cigar and cigarette holders, and parts made as secondary products in other industries.....	(1)	70,137

<sup>1</sup> None reported for 1939.

**TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

PRODUCT	1939	1937
Total value.....	\$7,426,531	\$7,656,408
Pipes: Briar pipes.....	6,424,978	7,094,415
Corncob pipes.....	350,321	323,555
Other pipes.....	403,754	
Pipe parts and cigar and cigarette holders (except hard rubber) and parts.....	247,478	1,238,438

<sup>1</sup> Figures combined to avoid disclosing data reported by individual establishments.

TOBACCO PIPES AND CIGARETTE HOLDERS

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,481	2,631	2,572	2,616	2,490	2,430	2,347	2,252	2,306	2,434	2,584	2,652	2,557
1937.....	2,382	2,243	2,322	2,393	2,410	2,402	2,390	2,321	2,327	2,422	2,476	2,487	2,403
1929.....	1,680	1,716	1,783	1,795	1,770	1,677	1,583	1,550	1,508	1,600	1,764	1,741	1,685
Missouri.....	173	167	176	174	175	174	174	172	174	174	173	173	173
New Jersey.....	725	748	748	770	716	689	673	681	686	716	751	785	740
New York.....	1,000	989	1,017	1,040	980	965	904	891	934	1,009	1,085	1,127	1,076

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	32
Reporting expenditures for plant and equipment.....	17
Value of products:	
Total for the industry.....	\$7,507,916
Reporting expenditures for plant and equipment.....	4,829,966
Expenditures for plant and equipment:	
Total for the industry.....	71,101
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	11,510
Expenditures for new machinery and operating equipment.....	47,155
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	12,436

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,778,962	\$1,333,872
Finished products.....	730,706	549,425
Materials, supplies, etc.....	1,048,286	784,447
End of year, total.....	1,961,390	1,526,746
Finished products.....	710,866	657,502
Materials, supplies, etc.....	1,250,524	869,244
Value of products for the industry, total.....	7,507,616	7,647,105
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	7,334,606	7,533,819
Value for establishments not reporting inventories.....	173,010	63,286

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	32	24
Number of establishments reporting power equipment.....	32	23
Prime movers, aggregate:		
Number.....	8	7
Horsepower.....	775	436
Prime movers, steam engines, driving generators—		
Number.....	3	
Horsepower.....	425	
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	275	
Prime movers not driving generators, total—		
Number.....	5	7
Horsepower.....	350	436
Steam engines—		
Number.....	4	7
Horsepower.....	125	436
Hydroturbines and water wheels—		
Number.....	1	
Horsepower.....	225	
Generators, driven by steam engines, kilowatt rating.....	225	
Generators, ordinarily idle (included above), kilowatt rating.....	105	(1)
Electric motors, total:		
Number.....	694	857
Horsepower.....	2,526	1,840
Driven by purchased energy—		
Number.....	686	857
Horsepower.....	2,503	1,840
Driven by energy generated in establishments reporting—		
Number.....	8	
Horsepower.....	23	
Electric energy (kilowatt-hours):		
Generated in plant.....	6,000	(1)
Purchased.....	2,675,166	1,943,582

<sup>1</sup> Data not available.

# SODA FOUNTAINS, BEER DISPENSING EQUIPMENT, AND RELATED PRODUCTS

[A preliminary report for this industry was issued November 6, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of complete soda fountains, beer dispensing equipment, tanks, siphons, and other parts and accessories.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1899	51	1,500	\$2,389,452	\$5,968,179	\$13,659,820	\$7,691,641	950
1937	51	1,655	2,549,491	6,263,236	13,032,934	6,709,098	( <sup>5</sup> )
1935	48	1,096	1,435,670	4,170,957	8,214,090	4,043,133	( <sup>5</sup> )
1933	40	816	948,128	2,649,345	6,035,064	3,385,719	( <sup>5</sup> )
1931	47	1,563	2,189,982	5,235,695	14,605,952	9,370,257	( <sup>5</sup> )
1929	54	2,764	3,921,538	10,489,871	24,509,783	14,019,912	775
1927	48	2,838	4,222,944	10,390,971	23,929,068	13,538,097	725
1925	60	2,372	3,628,340	8,632,026	22,031,816	13,399,790	610
1923	66	2,659	3,779,476	6,712,374	18,169,234	11,456,860	( <sup>5</sup> )
1921	62	2,144	3,047,981	6,495,791	15,407,131	8,911,340	( <sup>5</sup> )
1919	66	2,599	3,232,398	6,626,868	15,185,370	8,558,502	1,116
1914	67	2,229	1,661,245	3,883,076	8,781,437	4,898,361	1,915
1909	63	1,797	1,289,450	2,442,538	6,555,507	4,113,059	2,587
1904	37	1,469	834,705	1,923,835	4,634,265	2,710,430	1,333
1899	36	963	549,930	967,436	3,015,493	2,018,037	941

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	New York	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	51	8	15	28
Proprietors and firm members.....	18	8	6	6
Persons reported by manufacturing establishments total <sup>3</sup> .....	2,027	67	165	1,793
Salaried officers of corporations <sup>4</sup> .....	52	3	15	34
Manufacturing:				
Salaried employees <sup>5</sup> .....	270	11	13	246
Wage earners (average for the year) <sup>4</sup> .....	1,590	51	105	1,431
Distribution.....	114	2	31	81
Construction.....	1			1
Other.....				
Salaries and wages, total <sup>6</sup> .....	\$3,367,841	\$111,936	\$290,060	\$2,965,845
Salaried officers <sup>7</sup> .....	195,099	9,805	58,561	126,733
Manufacturing:				
Salaries <sup>8</sup> .....	599,004	24,543	21,402	553,899
Wages.....	2,389,452	76,348	167,114	2,145,990
Distribution.....	182,355	1,240	42,023	138,193
Construction.....	1,030			1,030
Other.....				
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	5,968,179	214,003	445,707	5,308,469
Materials and supplies.....	5,808,320	206,054	404,722	5,197,544
Fuel.....	68,651	396	1,751	66,504
Purchased electric energy.....	84,343	1,120	4,875	48,348
Contract work.....	40,865	6,433	34,410	6,019
Value of products.....	13,659,820	416,492	879,886	12,363,442
Value added by manufacture <sup>9</sup> .....	7,691,641	202,489	434,119	7,055,033

<sup>1</sup> Colorado, 1 establishment; Illinois, 6; Iowa, 1; Massachusetts, 2; Michigan, 4; Minnesota, 1; Missouri, 2; New Jersey, 2; North Carolina, 1; Ohio, 2; Pennsylvania, 3; Utah, 1; Virginia, 1; Wisconsin, 1.  
<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE FOR THE UNITED STATES: 1939 AND 1937**

No detailed production data are collected for this industry; therefore, no figures are available for the above tables.

**TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,590	1,433	1,457	1,532	1,591	1,664	1,699	1,722	1,647	1,627	1,579	1,549	1,580
1937.....	1,655	1,568	1,620	1,780	1,870	1,810	1,736	1,713	1,673	1,589	1,566	1,607	1,433
1929.....	2,764	2,418	2,459	2,530	2,776	2,885	2,918	3,043	2,968	2,839	2,776	2,831	2,672
California.....	51	54	48	48	53	49	55	56	53	51	50	50	45
Illinois.....	749	681	701	721	727	774	764	810	766	770	754	757	763
Michigan.....	344	284	293	309	332	334	365	381	374	360	359	362	370
New York.....	106	93	93	100	104	104	118	113	112	115	111	106	109
Pennsylvania.....	76	58	61	62	77	91	84	81	82	79	80	80	80

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TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	51
Reporting expenditures for plant and equipment.....	27
Value of products:	
Total for the industry.....	\$13,659,820
Reporting expenditures for plant and equipment.....	10,027,305
Expenditures for plant and equipment:	
Total for the industry.....	192,918
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	70,023
Expenditures for new machinery and operating equipment.....	120,740
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	2,155

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,825,226	\$2,732,805
Finished products.....	632,701	1,196,215
Materials, supplies, etc.....	1,192,525	1,536,090
End of year, total.....	1,700,598	3,404,940
Finished products.....	702,632	1,463,139
Materials, supplies, etc.....	1,057,666	2,001,807
Value of products for the industry, total.....	13,659,820	13,032,634
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	8,488,186	12,720,236
Value for establishments not reporting inventories.....	5,171,634	312,699

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	51	54
Number of establishments reporting power equipment.....	51	45
Prime movers, aggregate:		
Number.....	3	6
Horsepower.....	950	775
Prime movers, steam engines, driving generators—		
Number.....	1	1
Horsepower.....	150	175
Prime movers, steam engines, not driving generators—		
Number.....	2	(2)
Horsepower.....	800	
Generators, kilowatt rating, total.....	100	310
Generators, driven by—		
Steam engines, kilowatt rating.....	100	(2)
Electric motors, total: <sup>1</sup>		
Number.....	917	1,078
Horsepower.....	3,694	4,814
Driven by purchased energy—		
Number.....	911	1,029
Horsepower.....	3,636	4,496
Driven by energy generated in establishments reporting—		
Number.....	6	49
Horsepower.....	58	318
Electric energy (kilowatt-hours):		
Generated in plant.....	178,808	(3)
Purchased.....	2,212,599	4,887,370

<sup>1</sup> Includes data for prime movers not driving generators.  
<sup>2</sup> Not called for on schedule.  
<sup>3</sup> Data not available.

## MODELS AND PATTERNS (EXCEPT PAPER PATTERNS)

[A preliminary report for this industry was issued December 17, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of models, patterns, and forms of all materials, except paper patterns and shoe-display forms.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1939	683	5,566	\$9,036,886	\$4,228,241	\$22,329,056	\$18,100,815	85
1937	594	5,728	9,762,172	4,142,274	22,289,402	18,147,128	(5)
1935	582	4,104	6,127,898	3,243,709	15,290,824	12,053,115	(5)
1933	422	2,795	3,525,136	1,482,539	8,027,170	7,144,634	(5)
1931	649	4,632	7,378,165	2,780,935	10,192,426	13,405,491	(5)
1929	804	6,778	13,233,622	5,314,359	30,021,074	25,306,715	249
1927	693	6,684	10,544,694	4,650,266	23,494,992	18,835,728	1,373
1925	689	5,262	9,419,777	4,027,230	22,484,585	17,557,355	1,458
1923	697	5,813	9,765,810	11,187,572	30,164,709	18,977,137	(5)
1921	656	3,936	6,020,634	4,042,100	15,742,112	11,700,012	(5)
1919	928	6,949	10,318,104	6,305,834	25,300,389	18,904,555	5,690
1914	762	4,274	3,103,061	2,045,327	8,604,695	6,559,368	1,800
1909	709	4,171	2,929,232	2,876,230	8,868,168	5,991,939	2,542
1904	547	2,780	1,783,184	922,081	4,545,004	3,622,923	1,503
1899	530	2,607	1,564,648	824,852	3,834,498	3,006,646	1,083

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Maryland	Massachusetts	Michigan	Minnesota	Missouri
<b>Number of establishments<sup>1</sup></b>	683	50	23	72	23	6	51	62	7	21
<b>Proprietors and firm members</b>	667	57	20	90	26	8	46	56	8	10
<b>Persons reported by manufacturing establishments, total<sup>2</sup></b>	6,038	196	165	564	195	25	538	1,035	33	290
<b>Salaried officers of corporations<sup>3</sup></b>	366	4	11	27	9	—	30	33	1	23
<b>Manufacturing:</b>										
<b>Salaried employees<sup>3</sup></b>	443	5	5	19	13	1	38	82	4	14
<b>Wage earners (average for the year)<sup>3</sup></b>	5,566	181	148	498	171	24	436	800	28	215
<b>Distribution</b>	257	6	1	20	2	—	34	18	—	38
<b>Construction</b>	6	—	—	—	—	—	—	3	—	—
<b>Other</b>	6	—	—	—	—	—	—	—	—	—
<b>Salaries and wages, total<sup>3</sup></b>	\$11,867,209	\$290,633	\$336,909	\$934,014	\$324,320	\$33,712	\$983,363	\$2,276,810	\$46,448	\$501,565
<b>Salaried officers<sup>3</sup></b>	1,510,007	11,900	57,087	78,484	31,108	—	133,126	208,466	500	83,632
<b>Manufacturing:</b>										
<b>Salaries<sup>3</sup></b>	840,229	6,311	6,575	33,283	26,340	927	56,970	209,096	4,762	25,631
<b>Wages</b>	9,036,886	272,856	265,837	790,641	263,985	32,785	711,172	1,819,997	41,186	327,956
<b>Distribution</b>	462,326	8,568	7,500	31,606	2,893	—	82,095	36,417	—	64,346
<b>Construction</b>	7,761	—	—	—	—	—	—	2,243	—	—
<b>Other</b>	—	—	—	—	—	—	—	—	—	—
<b>Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total</b>	4,228,241	128,313	84,098	370,772	116,508	14,806	209,194	711,738	15,477	104,396
<b>Materials, supplies, and containers</b>	3,831,346	119,780	74,355	332,600	104,938	13,863	187,480	635,942	13,609	92,309
<b>Fuel</b>	100,242	1,159	3,159	11,416	4,934	68	4,143	22,814	558	4,356
<b>Purchased electric energy</b>	222,906	6,774	5,003	23,303	5,184	875	16,803	37,847	1,310	7,107
<b>Contract work</b>	73,687	600	981	4,453	1,452	—	768	15,135	—	614
<b>Value of products</b>	22,329,056	718,182	541,619	1,978,484	592,245	72,944	1,658,767	4,117,359	98,979	792,097
<b>Value added by manufacture<sup>4</sup></b>	18,100,815	589,869	487,521	1,607,712	475,737	58,138	1,449,573	3,406,621	88,502	687,701

See footnotes at end of table.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	New Jersey	New York	Ohio	Oregon	Pennsylvania	Rhode Island	Texas	Washington	Wisconsin	Other States <sup>1</sup>
Number of establishments <sup>1</sup> .....	30	119	92	4	42	8	7	7	43	16
Proprietors and firm members.....	25	88	101	3	50	9	9	9	20	21
Persons reported by manufacturing establishments, total <sup>2</sup> .....	190	1,403	1,123	30	353	48	27	17	334	67
Salaried officers of corporations <sup>2</sup> .....	15	117	47	3	11	.....	.....	2	31	2
Manufacturing:										
Salaried employees <sup>2</sup> .....	8	96	88	5	29	0	1	1	22	6
Wage earners (average for the year) <sup>2</sup> .....	165	1,089	971	28	308	42	24	14	267	59
Distribution.....	2	101	15	.....	4	.....	2	.....	14	.....
Construction.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....
Other.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salaries and wages, total <sup>2</sup> .....	\$322,572	\$2,277,375	\$2,105,679	\$63,156	\$527,410	\$70,447	\$49,462	\$25,263	\$562,188	\$111,778
Salaried officers <sup>2</sup> .....	43,968	469,223	242,304	11,900	29,245	.....	.....	6,400	94,604	8,000
Manufacturing:										
Salaries <sup>2</sup> .....	13,222	159,284	189,330	10,555	36,775	7,938	2,400	276	35,701	14,243
Wages.....	264,528	1,480,191	1,041,608	45,691	450,476	62,509	42,562	18,587	408,784	89,535
Distribution.....	854	168,077	27,787	.....	4,040	.....	4,500	.....	23,039	.....
Construction.....	.....	.....	4,650	.....	868	.....	.....	.....	.....	.....
Other.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	101,574	1,183,765	707,160	15,279	202,003	30,747	19,684	12,359	156,422	43,950
Materials, supplies, and containers.....	89,281	1,069,604	640,743	14,269	187,038	27,396	18,389	10,966	128,744	39,680
Fuel.....	3,510	14,409	17,118	.....	4,665	1,281	139	453	5,012	1,638
Purchased electric energy.....	8,543	46,418	38,054	1,010	10,300	1,370	1,156	940	8,437	2,932
Contract work.....	240	23,274	11,241	.....	700	.....	.....	.....	14,229	.....
Value of products.....	586,330	4,606,871	3,871,156	109,988	1,057,160	143,885	117,140	70,078	950,422	248,344
Value added by manufacture <sup>4</sup> .....	484,756	3,423,106	3,164,000	91,709	855,163	113,138	97,456	57,719	794,000	204,394

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>4</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Alabama, 1 establishment; Colorado, 1; District of Columbia, 1; Georgia, 1; Iowa, 2; Kentucky, 2; Louisiana, 1; Maine, 1; Nebraska, 2; New Hampshire, 1; Oklahoma, 2; Tennessee, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production data are collected for this industry; therefore, no figures are available for the above tables.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	5,506	4,927	5,010	5,228	5,415	5,784	5,921	5,971	5,778	5,549	5,021	5,771	5,821
1937.....	5,728	5,533	5,501	5,733	5,745	5,828	6,065	6,066	6,021	5,907	5,019	5,418	5,243
1929.....	6,778	6,557	6,506	6,720	6,761	6,716	6,624	6,657	6,765	7,013	7,110	7,011	6,890
California.....	181	175	177	172	179	177	174	173	185	181	187	189	180
Connecticut.....	148	127	138	154	147	145	150	146	148	148	155	156	164
Illinois.....	493	471	492	503	498	493	498	489	498	498	499	518	513
Indiana.....	171	156	156	163	161	165	161	182	174	163	183	187	182
Maryland.....	24	22	23	24	23	24	25	23	21	22	25	25	25
Massachusetts.....	436	415	391	387	395	426	482	492	453	426	433	457	475
Michigan.....	899	703	721	730	893	1,158	1,155	1,202	1,011	788	803	780	785
Minnesota.....	28	28	27	30	31	30	32	24	25	24	26	27	29
Missouri.....	215	217	210	205	210	210	233	228	201	207	203	229	229
New Jersey.....	165	148	162	150	151	162	167	163	166	175	178	177	181
New York.....	1,080	992	945	1,042	1,085	1,057	1,046	1,104	1,161	1,173	1,117	1,185	1,216
Ohio.....	971	848	873	879	908	975	1,009	1,026	1,017	1,002	1,052	1,027	1,030
Oregon.....	28	29	31	28	28	28	28	28	27	28	28	28	28
Pennsylvania.....	308	245	283	306	305	316	311	299	306	313	327	352	337
Rhode Island.....	42	37	38	38	35	40	37	42	45	46	44	49	47
Texas.....	24	24	23	24	23	23	22	22	23	23	29	28	27
Washington.....	14	12	12	14	13	13	15	16	15	15	17	16	16
Wisconsin.....	267	246	249	272	287	289	272	255	264	250	255	281	282

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	683
Reporting expenditures for plant and equipment.....	204
Value of products:	
Total for the industry.....	\$22,329,056
Reporting expenditures for plant and equipment.....	12,232,657
Expenditures for plant and equipment:	
Total for the industry.....	314,594
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	62,233
Expenditures for new machinery and operating equipment.....	196,969
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	45,986
Expenditures unclassified.....	9,376

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$965,768	\$1,495,506
Finished products.....	290,516	520,727
Materials, supplies, etc.....	675,252	968,779
End of year, total.....	1,121,636	1,485,575
Finished products.....	333,543	516,789
Materials, supplies, etc.....	788,093	968,786
Value of products for the industry, total.....	22,329,056	22,289,402
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	19,763,154	18,637,759
Value for establishments not reporting inventories.....	2,565,902	3,651,643

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	683	804
Number of establishments reporting power equipment.....	683	762
Prime movers, Diesel and semi-Diesel engines, driving generators:		
Number.....	2	
Horsepower.....	55	
Prime movers not driving generators, total—		
Number.....		12
Horsepower.....		249
Steam engines—		
Number.....		3
Horsepower.....		135
Diesel and semi-Diesel engines—		
Number.....		8
Horsepower.....		89
Other internal-combustion engines <sup>1</sup> —		
Number.....		
Horsepower.....		
Hydroturbines and water wheels—		
Number.....		1
Horsepower.....		25
Generators, driven by Diesel and semi-Diesel engines, kilowatt rating.....	10	
Electric motors, total:		
Number.....	7,139	4,367
Horsepower.....	17,531	12,129
Driven by purchased energy—		
Number.....	7,128	4,367
Horsepower.....	17,521	12,129
Driven by energy generated in establishments reporting—		
Number.....	11	
Horsepower.....	10	
Electric energy (kilowatt-hours):		
Generated in plant.....	600	(?)
Purchased.....	6,146,435	6,465,785

<sup>1</sup> Gas, gasoline, etc.<sup>2</sup> Data not available.

## HAIR WORK

[A preliminary report for this industry was issued December 12, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of wigs, switches, braids, puffs, and related articles made largely from human hair but in some cases from mohair or other animal hair.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1899	42	322	\$260,723	\$788,906	\$1,401,105	\$662,109	-----
1907	34	325	295,307	850,948	1,004,141	818,193	(6)
1915	43	602	437,908	1,063,915	2,737,806	1,673,891	(7)
1923	37	228	187,637	306,495	985,888	670,393	(6)
1931	52	207	287,642	310,574	1,184,240	873,666	(6)
1929	59	350	432,340	538,479	1,693,588	1,155,109	18
1927	69	515	598,034	829,891	2,279,226	1,449,335	(7)
1925	85	864	974,982	3,046,276	6,089,756	3,043,480	(7)
1923	113	1,317	1,352,406	5,568,007	11,263,953	5,605,946	(7)
1921	128	1,222	1,256,198	6,734,188	10,951,844	4,217,656	(6)
1919	198	1,084	1,064,630	3,829,197	6,963,633	3,133,836	70
1914	205	1,193	580,815	1,528,942	3,334,946	1,806,004	4
1909	250	3,534	1,009,788	6,080,610	11,216,175	5,135,565	100
1904	125	863	334,778	727,688	1,782,461	1,054,803	33
1899	158	820	287,288	466,172	1,406,216	910,044	23

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Revised.

<sup>6</sup> Not called for on schedule.

<sup>7</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	New York	Pennsylvania	Other States <sup>1</sup>	ITEM	United States	Illinois	New York	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	42	5	28	3	6	Salaries and wages—Continued.					
Proprietors and firm members.....	36	3	27	3	3	Manufacturing:					
Persons reported by manufacturing establishments, total <sup>3</sup> .....	393	63	265	9	56	Salaries <sup>4</sup> .....	\$28,124	\$6,801	\$12,858	\$1,720	\$6,655
Salaried officers of corporations <sup>5</sup> .....	25	6	16	-----	3	Wages.....	260,723	40,926	183,144	6,760	30,884
Manufacturing:						Distribution.....	29,282	3,425	17,394	-----	8,463
Salaried employees <sup>6</sup> .....	22	4	11	2	5	Construction.....	-----	-----	-----	-----	-----
Wage earners (average for the year <sup>7</sup> ).....	322	51	224	7	40	Other.....	-----	-----	-----	-----	-----
Distribution.....	24	2	14	-----	8	Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	738,906	398,342	295,100	4,132	41,422
Construction.....	-----	-----	-----	-----	-----	Materials, supplies, and containers.....	719,213	394,988	280,179	3,680	40,366
Other.....	-----	-----	-----	-----	-----	Fuel.....	3,085	1,469	1,141	253	222
Salaries and wages, total <sup>8</sup> .....	\$418,532	\$108,442	\$249,679	\$7,489	\$52,022	Purchased electric energy.....	5,720	242	4,535	109	834
Salaried officers <sup>9</sup> .....	100,403	57,200	36,283	-----	6,920	Contract work.....	10,978	1,643	9,245	90	-----
						Value of products.....	1,401,105	542,300	736,931	17,667	104,207
						Value added by manufacture <sup>9</sup> .....	662,109	143,958	441,831	13,535	62,785

<sup>1</sup> Massachusetts, 2 establishments; New Jersey, 1; Ohio, 2; Washington, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>4</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>5</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

No detailed production data are collected for this industry; therefore, no figures are available for the above tables.

## CENSUS OF MANUFACTURES: 1939

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	322	287	277	292	285	278	280	331	331	360	393	385	359
1937.....	325	302	323	323	330	343	341	329	318	335	342	318	295
1929.....	359	330	352	354	356	347	346	358	371	378	379	378	362
Illinois.....	51	50	52	54	55	49	47	51	50	52	48	50	57
New York.....	224	190	177	191	183	182	186	233	234	262	298	290	256
Pennsylvania.....	7	7	7	7	7	7	7	7	7	7	7	7	7

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	42
Reporting expenditures for plant and equipment.....	11
Value of products:	
Total for the industry.....	\$1,401,105
Reporting expenditures for plant and equipment.....	205,624
Expenditures for plant and equipment:	
Total for the industry.....	7,025
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	235
Expenditures for new machinery and operating equipment.....	1,373
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	4,392
Expenditures unclassified.....	1,020

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$203,900	\$194,714
Finished products.....	129,549	116,228
Materials, supplies, etc.....	79,441	78,486
End of year, total.....	213,268	207,639
Finished products.....	133,375	127,920
Materials, supplies, etc.....	79,893	79,719

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937—Continued

	1939	1937
Value of products for the industry, total.....	\$1,401,105	\$1,664,141
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	1,120,014	1,412,576
Value for establishments not reporting inventories.....	280,191	251,565

TABLE 8.—PRIME MOVERS, MOTORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	42	59
Number of establishments reporting power equipment.....	42	20
Prime movers, aggregate:		
Number.....		3
Horsepower.....		18
Prime movers, steam engines, not driving generators:		
Number.....		3
Horsepower.....		18
Electric motors, driven by purchased energy:		
Number.....	60	107
Horsepower.....	81	26
Electric energy purchased (kilowatt-hours).....	116,723	89,248

# WOOL PULLING

[A preliminary report for this industry was issued October 31, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in detaching wool from sheepskins.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horsepower of prime movers
1930.....	17	836	\$1,100,973	\$9,615,022	\$13,122,104	\$3,507,082	1,015
1937.....	19	794	1,084,130	12,695,033	10,650,978	3,955,945	(5)
1935.....	17	866	975,151	9,065,297	12,403,197	3,337,900	(6)
1933.....	16	678	669,749	7,087,308	10,225,658	3,138,350	(6)
1931.....	14	640	914,787	5,358,852	7,877,613	2,018,761	(6)
1929.....	18	596	907,278	10,916,994	13,648,064	2,731,070	380
1927.....	18	524	768,990	12,460,056	14,640,401	2,174,345	925
1925.....	23	573	840,859	13,637,313	15,209,221	1,571,908	1,073
1923.....	27	696	850,468	11,308,221	15,176,021	3,867,809	(6)
1921.....	22	552	693,475	5,197,095	6,767,161	1,570,068	(5)
1919.....	24	705	909,788	12,809,592	17,361,231	4,551,639	1,560
1914.....	34	708	452,190	6,632,101	8,272,721	1,640,620	1,869
1909.....	37	631	368,915	4,103,250	5,180,856	1,077,605	1,293
1904.....	34	681	364,754	103,984	881,706	777,722	1,304
1899.....	34	475	247,950	53,975	531,287	477,312	780

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule. <sup>6</sup> Data not available.

**TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Pennsylvania	Other States <sup>1</sup>
Number of establishments <sup>2</sup> .....	17	3	6	8
Proprietors and firm members.....	11	2	6	3
Persons reported by manufacturing establishments, total <sup>3</sup> .....	910	155	412	343
Salaried officers of corporations <sup>3</sup> .....	23	5	12	6
Manufacturing:				
Salaried employees <sup>3</sup> .....	46	8	17	21
Wage earners (average for the year) <sup>4</sup> .....	836	142	380	314
Distribution.....	2		2	
Construction.....	3		1	2
Other.....				
Salaries and wages, total <sup>5</sup> .....	\$1,378,074	\$262,273	\$599,098	\$511,703
Salaried officers <sup>3</sup> .....	160,122	35,929	78,780	35,413
Manufacturing:				
Salaries <sup>3</sup> .....	113,744	22,624	42,417	48,703
Wages.....	1,100,973	203,720	472,366	424,887
Distribution.....	3,835		3,835	
Construction.....	4,400		1,700	2,700
Other.....				
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	9,615,022	1,675,131	3,912,591	4,027,300
Materials and supplies.....	9,508,924	1,661,145	3,880,465	3,987,314
Fuel.....	59,045	2,137	36,817	20,091
Purchased electric energy.....	35,381	11,849	7,401	16,131
Contract work.....	11,072		7,908	3,764
Value of products.....	13,122,104	2,430,360	5,508,960	5,173,775
Value added by manufacture <sup>6</sup> .....	3,507,082	764,238	1,596,369	1,146,475

<sup>1</sup> Indiana, 1 establishment; Maine, 1; Michigan, 1; New York, 1; Ohio, 1; Oregon, 1; Utah, 1; Washington, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

No detailed production data are collected for this industry; therefore, no figures are available for the above tables.

**TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—																	
		January	February	March	April	May	June	July	August	September	October	November	December						
United States:																			
1939.....	836	793	813	857	811	847	854	851	834	802	800	839	813						
1937.....	794	768	771	873	870	878	814	803	812	740	756	744	663						
1929.....	596	582	602	609	610	612	583	593	564	608	610	568	599						
California.....	142	150	150	149	147	152	147	146	140	128	120	133	133						
Pennsylvania.....	380	384	343	301	352	367	334	387	376	392	388	396	396						

**TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939**

	1939
Number of establishments:	
Total for the industry.....	17
Reporting expenditures for plant and equipment.....	10
Value of products:	
Total for the industry.....	\$13,122,104
Reporting expenditures for plant and equipment.....	8,491,751
Expenditures for plant and equipment:	
Total for the industry.....	64,807
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	45,256
Expenditures for new machinery and operating equipment.....	6,193
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	12,918

**TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937**

	1939	1937
Inventories:		
Beginning of year, total.....	\$1,930,021	\$2,082,887
Finished products.....	1,699,600	1,849,870
Materials, supplies, etc.....	236,421	232,907
End of year, total.....	2,019,894	3,061,610
Finished products.....	1,725,268	2,816,795
Materials, supplies, etc.....	294,626	234,815
Value of products for the industry, total.....	13,122,104	16,650,978
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	13,122,104	16,650,978
Value of establishments not reporting inventories.....		

## CENSUS OF MANUFACTURES: 1939

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929		1939	1929
Number of establishments.....	17	18	Prime movers—Continued. Prime movers not driving generators, ordinarily idle (included above), horsepower.....	225	-----
Number of establishments reporting power equipment.....	17	17		-----	-----
Prime movers, aggregate:			Generators, driven by steam engines, kilowatt rating.....	132	-----
Number.....	10	7	Electric motors, total:		
Horsepower.....	1,015	380		Number.....	178
Prime movers, steam engine, driving generators—			Horsepower.....	3,584	1,467
Number.....	3	-----	Driven by purchased energy—		
Horsepower.....	300	-----	Number.....	177	499
Prime movers not driving generators, total—			Horsepower.....	3,520	1,467
Number.....	7	7	Driven by energy generated in establishments report-		
Horsepower.....	715	380	ing—		
Steam engines—			Number.....	1	-----
Number.....	6	6	Horsepower.....	55	-----
Horsepower.....	615	330	Electric energy (kilowatt-hours):		
Hydroturbines and water wheels—				Generated in plant.....	8,640
Number.....	1	1	Purchased.....	1,605,676	1,345,625
Horsepower.....	100	50			

<sup>1</sup> Data not available.

# NEEDLES, PINS, HOOKS AND EYES, AND SLIDE AND SNAP FASTENERS

[A preliminary report for this industry was issued November 16, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of machine and hand needles, knitting and sewing; toilet and safety pins, wire hairpins, etc.; glove fasteners, snap fasteners, slide fasteners, hooks and eyes, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1899	58	10,403	\$11,804,341	\$13,484,971	\$38,155,126	\$24,670,155	2,412
1907	52	9,550	10,154,453	10,290,575	36,239,681	25,049,008	( <sup>5</sup> )
1915	50	10,104	9,493,911	9,882,712	32,829,505	23,446,793	( <sup>5</sup> )
1923	45	6,412	5,767,885	5,817,912	22,757,609	16,939,697	( <sup>5</sup> )
1931	46	5,354	5,666,534	4,842,405	20,342,038	15,409,633	( <sup>5</sup> )
1929	43	6,242	6,565,732	6,157,822	22,030,950	15,843,128	3,123
1927	45	5,606	6,098,477	5,922,844	20,325,250	14,402,406	3,857
1925	48	5,850	5,856,679	5,925,652	18,173,574	12,247,922	4,374
1923	49	6,834	6,703,079	7,795,975	22,147,468	14,351,493	4,942
1921	68	6,542	5,542,404	6,162,949	18,896,168	12,733,219	( <sup>5</sup> )
1919	92	9,294	8,809,781	10,227,199	29,304,995	19,077,796	4,951
1914	49	5,339	2,506,611	3,241,657	7,890,879	4,649,222	3,984
1909	49	4,638	2,064,378	2,328,674	6,694,095	4,365,421	3,644
1904	46	3,965	1,595,923	1,583,044	4,750,539	3,166,945	2,170
1899	52	2,653	1,037,364	1,227,097	3,237,982	2,009,985	1,895

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Connecticut	Illinois	New Hampshire	New Jersey	New York	Other States <sup>1</sup>
Number of establishments <sup>2</sup>	58	11	4	3	7	15	18
Proprietors and firm members	12	3				4	5
Persons reported by manufacturing establishments, total <sup>3</sup>	13,537	3,038	847	367	421	1,885	6,330
Salaried officers of corporations <sup>3</sup>	80	15	14	4	10	20	23
Manufacturing:							
Salaried employees <sup>3</sup>	1,632	397	67	10	17	92	1,040
Wage earners (average for the year) <sup>4</sup>	10,403	2,977	630	341	387	1,614	4,455
Distribution	922	193	114	3	7	113	492
Construction	494	106	22			46	320
Other							
Salaries and wages, total <sup>5</sup>	\$18,133,881	\$4,726,248	\$1,067,199	\$403,186	\$615,470	\$2,415,155	\$8,956,624
Salaried officers <sup>3</sup>	898,431	107,468	272,296	11,822	118,099	186,633	202,113
Manufacturing:							
Salaries <sup>3</sup>	2,897,591	721,402	120,738	30,244	42,285	192,458	1,781,404
Wages	11,804,341	3,355,977	470,084	329,744	430,202	1,788,795	5,429,539
Distribution	1,702,633	346,036	164,427	22,375	24,884	210,639	934,272
Construction	880,885	195,365	39,654			36,630	609,236
Other							
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	13,484,971	3,205,809	1,224,536	68,065	307,607	2,508,073	6,170,881
Materials, supplies, and containers	12,751,117	3,044,593	938,809	63,536	284,603	2,436,735	5,982,841
Fuel	181,663	79,859	13,821	2,864	13,252	17,513	54,354
Purchased electric energy	270,952	59,802	18,888	1,665	9,752	48,509	132,836
Contract work	281,239	21,555	253,618			5,316	850
Value of products	38,155,126	11,460,621	2,927,657	624,970	1,262,518	5,884,022	15,995,488
Value added by manufacture <sup>6</sup>	24,670,155	8,264,812	1,708,021	556,905	964,911	3,375,949	9,824,557

<sup>1</sup> California, 3 establishments; Massachusetts, 3; Missouri, 1; Ohio, 1; Pennsylvania, 6; Rhode Island, 2; Vermont, 1; Wisconsin, 1.

<sup>2</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Needles, Pins, Hooks and Eyes, and Slide and Snap Fasteners industry, all products, total value.....	\$38,155,126	\$36,239,581	\$22,030,950
Needles, pins, fasteners, etc.....	34,535,204	34,542,496	19,073,153
Other products (not classified in this industry) and contract and repair work.....	3,619,922	1,697,085	2,957,797
Needles, pins, hooks and eyes, and slide and snap fasteners, aggregate value.....	38,971,546	38,490,933	20,425,697
Needles, pins, fasteners, etc., made in this industry.....	34,535,204	34,542,496	19,073,153
Needles, pins, fasteners, etc., made as secondary products in other industries.....	4,436,342	3,948,437	1,352,544

<sup>1</sup> Value of paper fasteners and clips, thimbles, hair curlers, rivets, hose supporter trimmings, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Aggregate value.....	\$38,971,546	\$38,490,933	\$20,425,697
Needles, total value.....	\$7,638,053	\$7,258,399	\$6,488,809
Knitting-machine:			
Total thousands.....	226,425	192,714	( <sup>1</sup> )
Total value.....	\$4,446,998	\$3,713,237	\$4,828,865
Latch—			
Thousands.....	74,313	75,180	
Value.....	\$2,736,978	\$2,532,746	
Spring-beard <sup>2</sup> —			( <sup>1</sup> )
Thousands.....	152,112	117,534	
Value.....	\$1,710,020	\$1,180,491	
Sewing-machine, total value.....	\$2,130,005		
Common household—			
Thousands.....	57,371		
Value.....	\$540,286		
Industrial dry-thread—			
Thousands.....	122,850	\$3,545,162	\$1,660,004
Value.....	\$1,589,719		
Other needles, value.....	\$1,061,050		

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
Pins (not commonly known as jewelry):			
Common or toilet pins, total value.....	\$1,530,446	\$1,508,161	\$1,709,162
Quantity reported—			
Pounds.....	2,826,974	2,581,484	2,015,152
Value.....	\$1,016,116	\$956,160	\$1,221,101
Packs of 3,300.....	2,101,076	1,045,774	1,187,231
Value.....	\$514,330	\$358,438	\$488,061
Quantity not reported, value.....		\$193,533	
Hairpins, metal, total value.....	\$3,138,540	\$2,438,240	\$2,335,504
“Bobby” type—			
Made for sale in bulk—			
Pounds.....	473,982	330,503	
Value.....	\$237,037	\$222,535	
Made and packed for retail—			
Pounds.....	3,252,213	2,356,810	
Value.....	\$1,655,301	\$1,434,257	
Other types—			( <sup>1</sup> )
Made for sale in bulk—			
Pounds.....	1,717,683	2,784,680	
Value.....	\$330,722	\$464,912	
Made and packed for retail—			
Pounds.....	4,682,356	1,029,683	
Value.....	\$915,430	\$316,236	
Safety pins, total value.....	\$1,627,372	\$1,509,969	\$2,218,897
Made for sale in bulk or bunches—			
Gross (pins).....	10,295,013		
Value.....	\$1,288,041	11,826,752	8,008,813
Made or packed on cards or otherwise for retail—			
Gross (pins).....	1,769,157	\$1,509,969	\$2,218,897
Value.....	\$339,331		
Slide fasteners (zippers), value.....	\$18,876,264	\$20,444,076	( <sup>1</sup> )
Snapfasteners and clasps, value.....	\$2,452,527		\$5,532,700
Hooks and eyes:			
Great gross.....	330,214	283,229	181,656
Value.....	\$285,773	\$246,696	\$200,467
Miscellaneous products (including eyelets and hook-and-eye tape), value.....	\$3,422,571	\$5,085,392	\$1,940,098

<sup>1</sup> Not called for separately on schedule.  
<sup>2</sup> Data for hosiery, underwear, and other spring-beard needles combined to avoid disclosing production reported by individual establishments.  
<sup>3</sup> Includes a small amount reported as value of “Other sewing-machine needles” which cannot be shown separately without disclosing operations of individual establishments.  
<sup>4</sup> Includes data for shoe-machine, hand sewing, crochet, tape, darning, etc., needles to avoid disclosing output of individual establishments.  
<sup>5</sup> Figures combined to avoid disclosing data reported by an individual establishment for slide fasteners.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	A average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	10,403	9,931	10,039	9,884	9,632	9,610	9,823	10,130	10,594	10,965	11,808	11,204	11,160
1937.....	9,580	8,911	9,134	9,239	9,513	9,514	9,499	9,510	9,792	10,058	10,072	10,021	9,702
1929.....	6,242	5,872	6,010	6,013	6,056	6,055	6,399	6,302	6,358	6,726	6,790	6,309	6,015
California.....	30	24	25	33	28	28	27	28	28	34	33	33	35
Connecticut.....	2,977	2,927	2,942	2,936	2,906	2,869	2,862	2,898	2,948	3,021	3,143	3,140	3,133
Illinois.....	630	621	616	624	585	602	602	629	653	661	673	701	599
Massachusetts.....	93	92	93	91	90	91	91	91	91	92	95	101	102
New Hampshire.....	341	332	332	332	326	326	332	338	343	347	351	364	367
New Jersey.....	387	357	373	376	362	364	374	390	378	395	420	439	412
New York.....	1,614	1,399	1,567	1,545	1,489	1,470	1,501	1,482	1,679	1,770	1,850	1,826	1,794
Pennsylvania.....	3,374	3,256	3,237	3,112	2,982	2,978	3,105	3,343	3,501	3,668	4,248	3,565	3,499

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	58
Reporting expenditures for plant and equipment.....	46
Value of products:	
Total for the industry.....	\$38,155,126
Reporting expenditures for plant and equipment.....	37,024,917
Expenditures for plant and equipment:	
Total for the industry.....	2,260,664
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	542,675
Expenditures for new machinery and operating equipment.....	1,682,412
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	35,259
Expenditures unclassified.....	318

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$9,493,137	\$5,841,199
Finished products.....	4,995,462	3,019,844
Materials, supplies, etc.....	4,497,675	2,821,355
End of year, total.....	10,475,306	7,732,106
Finished products.....	5,162,346	4,374,119
Materials, supplies, etc.....	5,312,960	3,357,987
Value of products for the industry, total.....	38,155,126	36,239,581
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	37,653,112	35,637,207
Value for establishments not reporting inventories.....	502,014	602,374

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	58	43
Number of establishments reporting power equipment.....	57	40
Prime movers, aggregate:		
Number.....	12	21
Horsepower.....	2,412	3,123
Prime movers, driving generators, total—		
Number.....	8	121
Horsepower.....	2,027	13,123

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam engines—		
Number.....	5	19
Horsepower.....	977	11,638
Steam turbines—		
Number.....	1	16
Horsepower.....	750	11,003
Diesel and semi-Diesel engines—		
Number.....		11
Horsepower.....		125
Other internal-combustion engines <sup>2</sup> —		
Number.....		
Horsepower.....		
Hydroturbines and water wheels—		
Number.....	2	15
Horsepower.....	300	1457
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	250	
Prime movers not driving generators, total—		
Number.....	4	(3)
Horsepower.....	385	
Steam engines—		
Number.....	2	
Horsepower.....	325	
Hydroturbines and water wheels—		
Number.....	2	
Horsepower.....	60	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	35	
Generators, kilowatt rating, total.....	1,365	1,655
Generators, driven by—		
Steam engines, kilowatt rating.....	580	(3)
Steam turbines, kilowatt rating.....	600	
Hydroturbines and water wheels, kilowatt rating.....	225	
Generators, ordinarily idle (included above), kilowatt rating.....	155	(4)
Electric motors, total:		
Number.....	5,131	1,512
Horsepower.....	10,387	6,272
Driven by purchased energy—		
Number.....	4,735	1,291
Horsepower.....	8,234	3,571
Driven by energy generated in establishments reporting—		
Number.....	396	221
Horsepower.....	2,153	2,701
Electric energy (kilowatt-hours):		
Generated in plant.....	2,917,716	(4)
Purchased.....	14,788,836	4,259,317

<sup>1</sup> Includes data for prime movers not driving generators.  
<sup>2</sup> Gas, gasoline, etc.  
<sup>3</sup> Not called for on schedule.  
<sup>4</sup> Data not available.

# FIRE EXTINGUISHERS, CHEMICAL

[A preliminary report for this industry was issued November 6, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of portable fire extinguishers, hose reels, other apparatus (except motor-propelled), and appliances for fire extinguishing by means of chemicals; chemical preparations for use with such apparatus and appliances; hand grenades for fire extinguishing, etc.

**Omission of State statistics except for wage-earner employment.**—As no figures for salaries and wages, cost of materials, value of products, and value added by manufacture can be given for any State in this industry without disclosing approximations of data for individual establishments, no such table is included in this report. In table 5, however, figures are given for each State represented by three or more establishments.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939**

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work <sup>3</sup>	Value of products	Value added by manufacture <sup>4</sup>	Horse-power of prime movers
1939.....	28	995	\$1,273,055	\$4,704,634	\$9,228,416	\$4,523,782	45
1937.....	25	1,041	1,401,258	3,582,090	8,889,180	5,307,070	(?)
1935.....	25	806	994,837	2,478,533	5,342,793	2,864,260	(?)
1933.....	22	589	603,628	1,720,483	3,775,061	2,054,578	(?)
1931.....	25	571	616,832	1,796,421	4,452,815	2,656,394	(?)
1929.....	28	740	958,570	4,187,524	8,566,089	4,378,565	(?)
1927.....	26	832	1,191,708	4,009,775	8,035,156	4,025,381	(?)
1925.....	26	842	1,131,127	4,122,137	8,037,174	3,915,037	(?)
1923.....	26	762	847,420	3,366,159	6,152,082	2,785,923	(?)
1921.....	31	580	625,958	2,081,052	4,254,261	2,173,209	(?)
1919.....	32	777	751,119	2,693,416	5,563,180	2,869,764	11
1914.....	27	256	200,096	573,975	1,297,723	723,745	13
1909.....	31	195	126,728	304,821	754,165	449,344	26
1904.....	35	178	107,540	229,003	581,970	352,967	(?)
1899.....	17	64	32,828	70,874	217,833	146,959	3

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Figures for years prior to 1935 do not include cost of contract work.  
<sup>4</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>5</sup> Not called for on schedule.  
<sup>6</sup> Data not available.      <sup>7</sup> None reported.

**TABLE 2.—GENERAL STATISTICS IN DETAIL FOR THE UNITED STATES: 1939**

ITEM	United States
Number of establishments <sup>1</sup> .....	28
Proprietors and firm members.....	9
Persons reported by manufacturing establishments, total <sup>2</sup> .....	1,452
Salaried officers of corporations <sup>3</sup> .....	27
Manufacturing:	
Salaried employees <sup>3</sup> .....	284
Wage earners (average for the year) <sup>4</sup> .....	995
Distribution.....	146
Construction.....	
Other.....	
Salaries and wages, total <sup>5</sup> .....	\$2,253,302
Salaried officers <sup>3</sup> .....	136,893
Manufacturing:	
Salaries <sup>3</sup> .....	561,926
Wages.....	1,273,055
Distribution.....	256,428
Construction.....	25,000
Other.....	
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	4,704,634
Materials, supplies, and containers.....	4,613,997
Fuel.....	32,474
Purchased electric energy.....	51,769
Contract work.....	6,394
Value of products.....	9,228,416
Value added by manufacture <sup>6</sup> .....	4,523,782

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> California, 4 establishments; Colorado, 1; Illinois, 2; Massachusetts 3; Michigan, 4; Minnesota, 1; Missouri, 1; New Jersey, 2; New York, 4; Ohio, 4; Oregon, 1; Pennsylvania, 1.  
<sup>3</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.  
<sup>4</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>5</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

**TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937**

**TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937**

No detailed production data are collected for this industry; therefore, no such figures are available for the above tables.

**TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	995	896	873	912	910	912	930	1,024	1,027	1,057	1,120	1,138	1,145
1937.....	1,041	960	966	989	1,042	1,089	1,115	1,098	1,067	1,069	1,066	1,051	985
1929.....	740	682	661	678	697	727	710	761	771	788	807	815	786
California.....	18	18	18	18	18	18	18	18	18	18	18	18	18
Massachusetts.....	22	23	22	22	22	22	22	22	22	22	22	22	22
Michigan.....	63	51	49	60	62	61	63	63	60	81	82	65	58
New York.....	167	184	172	173	177	172	166	164	165	160	157	160	155
Ohio.....	88	84	88	86	84	82	83	85	85	91	94	97	98

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	28
Reporting expenditures for plant and equipment.....	16
Value of products:	
Total for the industry.....	\$9,228,416
Reporting expenditures for plant and equipment.....	8,033,421
Expenditures for plant and equipment:	
Total for the industry.....	335,332
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	158,357
Expenditures for new machinery and operating equipment.....	169,960
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	7,015

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$2,770,256	\$2,360,190
Finished products.....	1,626,768	1,146,327
Materials, supplies, etc.....	1,143,488	1,213,863
End of year, total.....	3,235,365	3,202,901
Finished products.....	1,758,764	1,669,675
Materials, supplies, etc.....	1,476,601	1,533,226

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937—Con.

	1939	1937
Value of products for the industry, total.....	\$9,228,416	\$8,889,160
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	9,144,863	8,844,644
Value for establishments not reporting inventories....	83,553	44,516

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	28	28
Number of establishments reporting power equipment.....	28	24
Prime movers, internal-combustion engines, <sup>1</sup> other than Diesel and semi-Diesel, driving generators:		
Number.....	1	-----
Horsepower.....	45	-----
Generators driven by internal-combustion engines, <sup>1</sup> other than Diesel and semi-Diesel, kilowatt rating.....	7	-----
Electric motors, driven by purchased energy—		
Number.....	370	280
Horsepower.....	3,526	1,464
Electric energy, purchased (kilowatt-hours).....	2,221,079	812,805

<sup>1</sup> Gas, gasoline, etc.

# MISCELLANEOUS FABRICATED PRODUCTS NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 30, 1940]

**Description of the industry.**—This industry embraces establishments primarily engaged in the manufacture of theatrical scenery, advertising curtains, combs and hairpins (other than metal or rubber), hair ornaments, beaded articles, holiday goods, celluloid novelties, and many other small articles not covered by distinct classifications. Because of changes in the classification of some establishments formerly assigned to this industry a retabulation was made of the 1937 reports and the figures given are comparable with those for 1939. No comparable figures are available for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments <sup>1</sup>	Wage earners (average for the year) <sup>2</sup>	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture <sup>3</sup>	Horsepower of prime movers
1939.....	582	13,608	\$11,251,780	\$23,321,980	\$51,849,418	\$28,527,438	1,934
1937 <sup>4</sup> .....	469	12,557	10,769,007	19,883,318	45,985,899	26,102,581	( <sup>5</sup> )

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.  
<sup>2</sup> See GENERAL EXPLANATIONS—Wage earners and wages.  
<sup>3</sup> Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.  
<sup>4</sup> No comparable data for prior years. <sup>5</sup> Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Colorado	Connecticut	Florida	Illinois	Indiana	Maryland	Massachusetts	Michigan	Minnesota
Number of establishments <sup>1</sup> .....	582	38	4	13	6	58	8	7	38	19	5
Proprietors and firm members.....	403	33	4	5	2	32	7	3	23	20	3
Persons reported by manufacturing establishments, total <sup>2</sup> .....	16,459	303	46	480	243	2,710	167	245	1,434	503	104
Salaried officers of corporations <sup>2</sup> .....	486	10	3	18	7	57	3	9	33	11	9
Manufacturing:											
Salaried employees <sup>2</sup> .....	1,286	29	3	24	12	289	14	36	115	30	8
Wage earners (average for the year) <sup>2</sup> .....	13,608	229	38	423	219	2,183	134	194	1,229	419	70
Distribution.....	1,053	35	2	15	3	178	16	6	56	43	17
Construction.....	17				2	3			1		
Other.....	9										
Salaries and wages, total <sup>2</sup> .....	\$16,973,418	\$856,944	\$38,750	\$416,368	\$152,617	\$3,146,523	\$164,162	\$277,506	\$1,439,046	\$487,344	\$157,200
Salaried officers <sup>2</sup> .....	2,049,307	33,418	3,630	46,712	11,520	281,462	8,315	62,388	172,748	56,486	36,664
Manufacturing:											
Salaries <sup>2</sup> .....	2,083,446	42,916	4,440	32,213	15,268	539,637	15,838	45,635	236,783	46,380	11,598
Wages.....	11,251,780	231,156	28,309	316,771	121,658	2,009,439	88,130	159,545	971,865	334,233	79,708
Distribution.....	1,556,312	49,454	2,371	20,672	2,650	311,488	51,879	9,938	56,848	50,245	29,230
Construction.....	24,511				1,521	4,497			1,302		
Other.....	8,062										
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	23,321,980	533,699	98,464	573,110	205,995	4,001,345	304,887	229,835	1,894,745	689,084	203,890
Materials, supplies, and containers.....	22,402,843	522,161	85,320	549,030	182,310	3,830,164	298,207	211,735	1,806,536	671,539	200,361
Fuel.....	211,170	978	647	14,665	18,703	37,901	2,599	7,095	22,363	5,295	1,830
Purchased electric energy.....	380,471	7,370	601	8,201	4,982	57,930	4,081	8,489	41,394	11,546	1,699
Contract work.....	327,496	3,190	11,896	1,214		75,350		1,916	24,452	704	
Value of products.....	51,849,418	1,245,471	177,329	1,186,098	403,822	9,403,594	572,425	583,584	4,199,562	1,439,240	462,131
Value added by manufacture <sup>4</sup> .....	28,527,438	711,772	78,865	612,988	197,827	5,402,249	267,538	353,749	2,304,817	750,156	258,241

See footnotes at end of table.

MISCELLANEOUS FABRICATED PRODUCTS

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Missouri	New Jersey	New York	North Carolina	Ohio	Pennsylvania	Rhode Island	Washington	Wisconsin	Other States <sup>5</sup>
Number of establishments <sup>1</sup> .....	12	32	250	3	20	19	12	4	14	20
Proprietors and firm members.....	4	26	175	6	11	18	8	4	2	17
Persons reported by manufacturing establishments, total <sup>2</sup> .....	271	1,055	6,096	29	309	517	1,009	19	480	438
Salaried officers of corporations <sup>3</sup> .....	18	30	206	1	14	15	9	2	20	11
Manufacturing:										
Salaried employees <sup>2</sup> .....	23	71	371	1	30	36	114	2	43	35
Wage earners (average for the year) <sup>3</sup> .....	216	870	5,062	27	238	433	806	15	375	367
Distribution.....	14	80	453		27	26	20		37	25
Construction.....		4	1						5	
Other.....			3			6				
Salaries and wages, total <sup>2</sup> .....	\$261,375	\$1,377,711	\$6,099,201	\$16,368	\$291,793	\$489,729	\$875,891	\$24,772	\$479,384	\$420,734
Salaried officers <sup>3</sup> .....	54,001	178,909	826,731	1,500	48,666	47,607	47,690	7,700	60,960	66,200
Manufacturing:										
Salaries <sup>2</sup> .....	25,539	141,009	552,934	311	35,677	50,385	186,367	4,255	58,269	37,862
Wages.....	161,880	889,101	4,136,828	14,557	170,844	347,356	610,667	16,717	299,804	263,712
Distribution.....	19,955	162,920	576,561		36,606	39,697	31,167		51,701	52,930
Construction.....		5,772	1,089			1,680			8,650	
Other.....			5,058			3,004				
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	508,064	998,493	8,568,205	19,636	573,899	530,183	996,356	17,094	1,099,409	1,275,597
Materials, supplies, and containers.....	501,646	869,585	8,297,419	18,625	556,282	505,195	951,483	15,345	1,077,962	1,251,938
Fuel.....	2,349	20,194	45,394	36	4,345	2,920	4,168	468	9,177	9,443
Purchased electric energy.....	4,069	24,978	141,137	975	5,530	8,192	22,422	389	12,270	14,216
Contract work.....		83,736	84,255		7,742	13,876	18,283	882		
Value of products.....	1,033,537	3,248,371	18,781,677	59,777	1,170,802	1,465,917	2,292,016	45,213	1,945,023	2,134,329
Value added by manufacture <sup>4</sup> .....	525,473	2,249,878	10,213,472	40,141	596,403	935,734	1,295,660	28,129	845,614	858,732

<sup>1</sup> See GENERAL EXPLANATIONS—Definition of establishment.

<sup>2</sup> See GENERAL EXPLANATIONS—Persons engaged—general classification.

<sup>3</sup> See GENERAL EXPLANATIONS—Wage earners and wages.

<sup>4</sup> Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

<sup>5</sup> Georgia, 2 establishments; Iowa, 2; Louisiana, 1; Maine, 1; Montana, 1; Nebraska, 1; New Hampshire, 1; Oklahoma, 2; Oregon, 1; Tennessee, 3; Texas, 2; Vermont, 2; Virginia, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production data are collected for this industry; therefore, no figures are available for the above table.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	13,608	10,975	12,007	12,627	12,496	12,399	12,638	13,165	13,734	15,001	16,373	16,742	15,140
1937.....	12,557	10,260	11,060	11,741	11,481	11,731	12,078	12,191	13,354	14,850	15,002	14,411	12,524
California.....	229	199	211	196	196	214	222	237	250	253	261	277	235
Colorado.....	38	30	30	25	35	48	47	42	42	41	38	36	45
Connecticut.....	423	373	369	397	418	420	395	411	434	490	496	462	425
Florida.....	219	215	159	167	177	241	248	230	243	243	237	240	230
Illinois.....	2,183	1,777	1,787	1,904	1,947	1,937	2,010	2,073	2,128	2,434	2,760	2,805	2,033
Indiana.....	134	118	160	154	146	122	133	120	131	134	130	141	125
Maryland.....	194	187	179	185	178	162	184	203	213	216	215	216	188
Massachusetts.....	1,229	958	1,279	1,410	1,369	1,286	1,278	1,308	1,147	1,196	1,191	1,207	1,123
Michigan.....	419	364	375	415	411	406	408	403	503	463	525	383	372
Minnesota.....	70	38	36	33	39	38	37	46	57	125	157	124	111
Missouri.....	216	185	188	191	189	200	201	189	206	232	246	278	292
New Jersey.....	870	626	748	798	805	785	791	835	875	964	1,087	1,140	881
New York.....	5,062	4,117	4,393	4,519	4,488	4,400	4,505	4,745	5,144	5,709	6,291	6,636	5,799
North Carolina.....	27	26	26	27	28	27	26	26	26	29	27	29	30
Ohio.....	238	223	258	274	252	223	207	211	226	238	242	242	234
Pennsylvania.....	433	297	362	367	372	399	411	423	446	455	533	549	578
Rhode Island.....	866	699	848	963	806	822	814	897	860	908	994	985	801
Tennessee.....	51	47	50	50	48	49	48	47	51	55	54	54	57
Washington.....	15	13	13	15	14	17	17	15	15	14	15	16	16
Wisconsin.....	375	191	227	263	277	300	348	388	431	471	538	593	506

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	582
Reporting expenditures for plant and equipment.....	279
Value of products:	
Total for the industry.....	\$51,849,418
Reporting expenditures for plant and equipment.....	38,285,088
Expenditures for plant and equipment:	
Total for the industry.....	701,675
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	154,889
Expenditures for new machinery and operating equipment.....	451,304
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	89,379
Expenditures unclassified.....	6,103

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$7,366,260	\$5,163,769
Finished products.....	2,566,853	1,944,046
Materials, supplies, etc.....	4,799,407	3,219,723
End of year, total.....	7,462,781	6,249,405
Finished products.....	2,673,131	2,504,934
Materials, supplies, etc.....	4,789,650	3,744,471
Value of products for the industry, total.....	51,849,418	45,985,899
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	48,468,028	41,989,615
Value for establishments not reporting inventories.....	3,381,390	3,996,284

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>

	1939
Number of establishments.....	582
Number of establishments reporting power equipment.....	577
Prime movers, aggregate:	
Number.....	35
Horsepower.....	1,934

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939<sup>1</sup>—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators, total—	
Number.....	8
Horsepower.....	1,190
Steam engines—	
Number.....	6
Horsepower.....	785
Steam turbines—	
Number.....	1
Horsepower.....	335
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	70
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	885
Prime movers not driving generators, total—	
Number.....	27
Horsepower.....	744
Steam engines—	
Number.....	18
Horsepower.....	570
Diesel and semi-Diesel engines:	
Number.....	1
Horsepower.....	25
Other internal-combustion engines <sup>2</sup> —	
Number.....	7
Horsepower.....	109
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	40
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	103
Generators, kilowatt rating, total.....	793
Generators, driven by—	
Steam engines, kilowatt rating.....	405
Steam turbines, kilowatt rating.....	312
Diesel and semi-Diesel engines, kilowatt rating.....	76
Generators, ordinarily idle (included above), kilowatt rating.....	612
Electric motors, total:	
Number.....	7,077
Horsepower.....	14,531
Driven by purchased energy—	
Number.....	6,991
Horsepower.....	14,143
Driven by energy generated in establishments reporting—	
Number.....	86
Horsepower.....	388
Electric energy (kilowatt-hours):	
Generated in plant.....	91,988
Sold.....	75,851
Purchased.....	13,706,428

<sup>1</sup> Comparable data for 1929 not available.<sup>2</sup> Gas, gasoline, etc.