

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES

Introduction.

In preparation for the 1935 Census, the former industry classification "Foundry and Machine-Shop Products Not Elsewhere Classified" was, because of its broad scope and unwieldy character, broken down into six classifications, namely:

- Boiler Shops.
- Cranes, and Dredging, Excavating, and Road-Building Machinery.
- Foundries (Gray-Iron and Malleable-Iron).
- Machine Shops.
- Machinery Not Elsewhere Classified.
- Printers' Machinery and Equipment.

The former classification "Elevators and Elevator Equipment" was discontinued and the establishments covered by it assigned to "Machinery Not Elsewhere Classified." The former classification "Meters (Gas, Water, Etc.) and Gas Generators" was also discontinued, manufacturers of meters being assigned to the "Instruments and Apparatus, Professional, Scientific, and Industrial" industry, and manufacturers of gas generators to the "Machine Shops" industry. The former "Printers' Supplies" and "Engravers' Materials" industries, in Group 5, "Printing, Publishing, and Allied Industries," were discontinued as separate classifications and are now included in "Printers' Machinery and Equipment." Manufacturers of check-writing machines, manifold devices, and addressing machines, formerly classified in the "Foundry and Machine-Shop Products Not Elsewhere Classified" industry, have been transferred to the "Cash Registers, Adding and Calculating Machines, and Other Business Machines Except Type-writers" industry.

The figures for years prior to 1935 for the industries as a group, as given in table 1 of this report, have been adjusted in accordance with the changes described in the preceding paragraph; but it is impracticable to compile comparative statistics of similar character for three of the industries—Cranes, and Dredging, Excavating, and Road-Building Machinery; Machinery Not Elsewhere Classified; and Printers' Machinery and Equipment—for presentation in table 2. The figures for 1933 and earlier years in the detailed production tables (table 5 for the Boiler Shops industry, table 8 for the Cranes, and Dredging, Excavating, and Road-Building Machinery industry, etc.) are comparable with those for 1935 except in a few cases to which attention is called in footnotes.

Descriptions of the Industries.

1321 **Boiler Shops.**—Establishments manufacturing industrial boilers, tanks, smokestacks, and similar commodities from iron and steel plate and sheet. This classification also covers shops engaged in

cutting, shaping, and punching steel plate for shipment in knocked-down or semiknocked-down condition for erection "on the job."

Cranes, and Dredging, Excavating, and Road-Building Machinery.—Establishments whose chief products are cranes and heavy machinery for use in dredging, excavating, and road building. This classification does not cover mining and well-drilling machinery, which is treated as a product of the Machinery Not Elsewhere Classified industry. 1324

Foundries (Gray-Iron and Malleable-Iron).—Establishments engaged primarily in the production of gray-iron and malleable-iron castings for sale and for interplant transfer. This classification does not, therefore, cover the production of castings by the foundry departments for consumption by the machine shops of plants engaged in the manufacture of stoves, furnaces, machinery, and other finished products. (The foundry departments of establishments manufacturing nonferrous-metal commodities are assigned to the "Aluminum Products" industry or to the "Nonferrous-Metal Alloys; Nonferrous-Metal Products, Except Aluminum, not Elsewhere Classified" industry, as the case may be; and steel foundries are classified in the "Steel-Works and Rolling-Mill Products" industry.) 1322

Machine Shops.—Machine shops that are not engaged in the manufacture of machinery, but perform work, to a large extent on individual order, such as making parts for repair and replacement, cutting gears, machining castings, etc. These shops also cold-roll steel strip (though much of this work is done in steel mills) and finish steel bars. Among the commodities manufactured by them are ball and roller bearings, flexible metallic hose and tubing, piston rings, and valves and fittings. (The machine-shop departments of establishments manufacturing nonferrous-metal commodities are assigned to the "Aluminum Products" industry or to the "Nonferrous-Metal Alloys; Nonferrous-Metal Products, Except Aluminum, not Elsewhere Classified" industry, as the case may be.) 1326

Machinery Not Elsewhere Classified.—Establishments manufacturing a large class of machinery and mechanical devices not specifically assigned to other industries. This classification does not, therefore, cover the production of agricultural implements, electrical machinery and apparatus, engines, household laundry machinery, machine tools, pumps, refrigerators, sewing machines, textile machinery, business machines, or transportation machinery, but figures for these classes of machinery have been assembled and are presented in table 21. 1305

Printers' Machinery and Equipment.—Establishments engaged primarily in the manufacture of machinery and other equipment (including type and engravers' plates and stones but not including paper and ink) for use by printers, photo-engravers, and bookbinders. In former censuses, manufacturers of these products were distributed among three industries, namely, (1) Printers' Supplies, (2) Engravers' Materials, and (3) Foundry and Machine-Shop Products. 1325

Valves, Faucets, and Fittings.

Data for the commodities belonging to this group were called for on the questionnaires for the six industries which produce the bulk of them; namely, (1) Plumbers' Supplies, Not Including Pipe or Vitreous-China Sanitary Ware; (2) Nonferrous-Metal Alloys; Nonferrous-

Metal Products, Except Aluminum, Not Elsewhere Classified; (3) Cast-Iron Pipe and Fittings; (4) Machine Shops; (5) Machinery Not Elsewhere Classified; (6) Steam and Hot-Water Heating Apparatus and Steam Fittings. The figures in table 17 include data for the production of valves, etc., specifically reported in certain cases by manufacturers in industries other than the six named. The figures for fittings may include data for some valves and faucets that were not reported separately.

TABLE 1.—GENERAL STATISTICS, FOR THE FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES AS A GROUP, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	7,610	6,203	7,259	8,647	22.7	-12.0
Proprietors and firm members.....	3,066	3,397	(1)	3,693	-9.7	-17.0
Salaried personnel, total ¹	67,069	(²)	(1)	87,664	(³)	-23.5
Salaried officers of corporations.....	9,084	(³)	(1)	10,876	(³)	-16.5
Supervisory, technical, and clerical employees.....	⁴ 57,985	⁵ 44,914	(1)	76,788	29.1	-24.5
Salaries paid, total ¹	\$144,051,364	(³)	(1)	\$249,125,717	(³)	-42.2
To salaried officers of corporations.....	\$43,310,886	(³)	(1)	\$74,521,451	(³)	-41.9
To supervisory, technical, and clerical employees.....	⁴ \$100,740,478	⁵ \$74,783,758	(1)	\$174,604,266	34.7	-42.3
Wage earners (average for year) ⁶	316,168	219,990	286,658	455,504	43.7	-30.6
Wages.....	\$368,632,135	\$205,460,598	\$329,417,706	\$699,030,858	79.4	-47.3
Cost of materials, etc., total.....	558,407,239	294,002,744	453,956,545	1,041,806,142	89.0	-46.4
Cost of materials and supplies.....	521,176,851	(1)	(1)	981,178,122	(1)	-46.9
Cost of fuel.....	19,583,693	(1)	(1)	36,018,668	(1)	-45.6
Cost of purchased electric energy.....	17,646,695	(1)	(1)	24,609,352	(1)	-28.3
Value of products.....	1,438,041,617	801,793,072	1,270,955,238	2,800,639,900	79.4	-48.7
Value added by manufacture ⁷	879,634,378	507,790,328	816,998,693	1,758,833,848	73.2	-50.0

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 13,391; salaries, \$36,773,791. Technical, 6,035; salaries, \$13,434,474. Clerical, 38,559; salaries, \$50,532,213. See sec. 10, p. 7.

⁵ Supervisory, 10,435; salaries, \$28,266,880. Clerical and other, 34,479; salaries, \$46,516,878. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—GENERAL STATISTICS FOR THE INDUSTRIES, FOR THE UNITED STATES: 1935 AND 1933
 [See "Introduction," third par., p. 1068]

	Boiler shops		Cranes, and dredging, excavating, and Road-Building machinery		Foundries (gray-iron and malleable-iron)		Machine shops		Machinery not elsewhere classified		Printers' machinery and equipment	
	1935	1933	1935	1933	1935	1933	1935	1933	1935	1933	1935	1933
Number of establishments.....	413	292	128	1,078	1,251	1,078	3,025	2,895	2,554	2,895	238	238
Proprietors and firm members.....	161	153	19	571	426	571	1,756	2,004	625	2,004	79	79
Salaries personnel, total 1.....	3,489	(?)	3,533	(?)	7,619	(?)	16,789	(?)	32,588	(?)	3,051	3,051
Salaried officers of corporations.....	600	(?)	253	(?)	1,456	(?)	2,691	(?)	3,785	(?)	239	239
Supervisory, technical, and clerical employees.....	3,289	3,233	4,380	3,478	6,163	3,478	14,098	14,826	7,803	14,826	2,752	2,752
Salaries paid, total 1.....	\$7,159,510	(?)	\$6,871,437	(?)	\$16,891,262	(?)	\$37,249,010	(?)	\$68,978,281	(?)	\$6,901,854	\$6,901,854
To salaried officers of corporations.....	\$2,261,733	(?)	\$1,472,155	(?)	\$5,880,518	(?)	\$12,292,070	(?)	\$19,361,802	(?)	\$2,033,002	\$2,033,002
To supervisory, technical, and clerical employees.....	\$4,897,777	\$3,678,372	\$5,399,282	\$7,727,794	\$11,001,744	\$7,727,794	\$24,956,934	\$25,854,321	\$49,616,489	\$25,854,321	\$4,868,852	\$4,868,852
Wage earners (average for year) 2.....	13,290	9,805	10,808	59,321	89,894	59,321	82,474	70,947	109,818	70,947	9,884	9,884
Wages.....	\$14,769,993	\$9,093,992	\$12,571,730	\$49,414,218	\$98,511,597	\$49,414,218	\$97,454,077	\$66,891,820	\$131,742,697	\$66,891,820	\$13,582,101	\$13,582,101
Cost of materials, etc., total.....	35,950,829	23,480,698	28,792,692	43,543,048	89,813,700	43,543,048	172,563,257	104,759,991	218,237,851	104,759,991	13,048,850	13,048,850
Cost of materials and supplies.....	34,309,809	(19)	27,523,331	(19)	75,780,727	(19)	162,983,764	(19)	208,324,989	(19)	12,254,181	12,254,181
Cost of fuel.....	691,936	(19)	676,397	(19)	9,316,897	(19)	3,919,433	(19)	4,625,273	(19)	353,757	353,757
Cost of purchased electric energy.....	949,084	(19)	592,914	(19)	4,716,136	(19)	5,660,660	(19)	5,287,589	(19)	440,912	440,912
Value of products.....	73,170,472	45,863,223	62,880,105	142,722,408	260,460,230	142,722,408	418,053,906	274,587,632	581,937,246	274,587,632	51,559,758	51,559,758
Value added by manufacture 11.....	37,219,643	22,365,625	34,067,413	99,179,443	100,646,470	99,179,443	245,490,549	169,807,641	363,699,395	169,807,641	38,510,908	38,510,908

1 No data for employees of central administrative offices are included. See sec. 10, p. 7.

2 Data incomplete.

3 For 1935: Supervisory, 618; salaries, \$1,540,833. Technical, 268; salaries, \$585,446. Clerical, 2,003; salaries, \$2,771,478. For 1933: Supervisory, 438; salaries, \$1,164,209. Clerical and other, 1,885; salaries, \$2,514,163.

4 Supervisory, 575; salaries, \$1,578,558. Technical, 426; salaries, \$897,557. Clerical and other, 2,279; salaries, \$2,023,167.

5 For 1935: Supervisory, 2,573; salaries, \$6,087,898. Technical, 311; salaries, \$666,948. Clerical, 3,279; salaries, \$4,247,268. For 1933: Supervisory, 1,830; salaries, \$4,058,841. Clerical and other, 2,878; salaries, \$3,668,953.

6 For 1935: Supervisory, 3,386; salaries, \$9,870,450. Technical, 1,304; salaries, \$2,968,739. Clerical, 9,408; salaries, \$12,117,145. For 1933: Supervisory, 3,391; salaries, \$9,406,855. Clerical and other, 11,465; salaries, \$15,947,456.

7 Supervisory, 5,719; salaries, \$16,099,394. Technical, 3,422; salaries, \$7,511,696. Clerical, 19,662; salaries, \$26,005,489.

8 Supervisory, 520; salaries, \$1,596,638. Technical, 304; salaries, \$304,578. Clerical, 1,923; salaries, \$2,467,636.

9 See sec. 11, p. 7.

10 No data.

11 Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 3.—BOILER SHOPS—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	Salaries	Wages	Cost of materials, etc., fuel, and pur- chased energy	Value of products	Value added by manufac- ture
United States..	413	3,489	13,290	\$7,159,510	\$14,769,993	\$35,950,829	\$73,170,472	\$37,219,643
California.....	26	113	827	260,164	980,980	2,714,500	4,854,216	2,139,716
Colorado.....	4	22	62	45,493	74,175	185,461	301,384	115,023
Connecticut.....	7	43	81	105,093	111,059	231,110	633,323	302,213
Georgia.....	5	43	255	108,740	229,423	542,717	1,151,681	608,964
Illinois.....	37	256	748	634,270	928,470	1,831,944	4,214,786	2,382,842
Indiana.....	15	69	345	105,843	384,044	746,118	1,027,034	890,916
Iowa.....	7	65	314	132,538	296,022	487,843	1,085,258	597,415
Kansas.....	3	32	99	50,871	103,316	237,330	440,121	202,791
Kentucky.....	7	23	68	40,701	77,215	136,608	200,033	151,327
Louisiana.....	8	25	154	39,011	136,049	399,099	835,788	436,089
Maryland.....	6	21	101	48,620	113,138	238,286	430,242	191,059
Massachusetts.....	19	82	306	201,369	379,912	737,385	1,505,111	857,729
Michigan.....	15	90	322	154,506	413,734	665,208	1,529,560	864,352
Minnesota.....	5	83	249	172,465	262,727	676,942	1,303,144	816,262
Missouri.....	15	147	608	287,519	700,184	1,901,952	3,407,576	1,565,623
Nebraska.....	4	12	68	29,380	70,535	117,709	261,733	144,024
New Jersey.....	11	54	260	151,355	230,325	675,003	1,184,407	508,804
New York.....	31	233	737	521,810	849,333	2,321,033	5,263,206	2,942,173
Ohio.....	38	823	2,023	1,413,097	2,523,983	4,980,868	11,263,703	6,222,835
Oklahoma.....	7	70	367	156,727	353,643	1,033,073	2,009,808	970,735
Pennsylvania.....	51	630	2,723	1,281,651	2,833,388	7,579,543	14,470,236	6,890,660
Rhode Island.....	4	7	43	16,656	48,907	45,220	140,282	95,062
Tennessee.....	10	102	622	232,223	561,680	1,517,955	2,722,053	1,204,098
Texas.....	17	86	439	201,420	491,271	1,942,860	3,018,941	1,076,672
Virginia.....	4	22	116	41,195	109,846	217,374	421,224	203,850
Washington.....	12	30	88	48,577	93,973	239,144	443,006	203,032
West Virginia.....	4	6	22	12,594	22,032	51,826	96,206	44,380
Wisconsin.....	21	147	682	299,772	819,657	2,004,536	4,785,064	2,780,528
Other States ¹	20	153	561	365,910	570,975	1,600,976	3,391,357	1,800,382

¹ Alabama, 3 establishments; Arizona, 1; Arkansas, 1; Delaware, 1; Florida, 1; Idaho, 1; Mississippi, 2; Montana, 1; North Carolina, 1; North Dakota, 1; Oregon, 3; Utah, 3; Vermont, 1. See sec. 23, p. 12.

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES 1073

TABLE 4.—BOILER SHOPS—WAGE EARNERS, BY MONTHS, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States.....	13,301	12,498	12,677	12,936	13,244	13,233	13,067	13,264	13,544	13,940	14,006	13,626	13,580
<i>States</i>													
Alabama.....	184	206	182	181	176	177	174	174	172	186	185	203	193
California.....	827	859	835	834	873	868	790	850	757	828	867	756	806
Colorado.....	62	5 ^a	62	56	71	66	69	71	66	64	57	58	60
Connecticut.....	81	76	77	55	68	65	76	88	90	97	92	103	89
Georgia.....	255	235	242	238	243	245	252	255	266	270	281	275	260
Illinois.....	749	727	751	754	780	712	709	721	751	776	789	748	773
Indiana.....	345	305	286	338	356	382	377	344	380	367	325	326	349
Iowa.....	314	284	310	295	325	339	329	337	318	335	324	283	286
Kansas.....	99	120	123	103	104	117	101	94	76	72	66	93	120
Kentucky.....	68	61	62	65	71	66	72	77	75	67	66	67	68
Louisiana.....	154	157	152	149	197	207	158	155	160	140	129	121	123
Maryland.....	101	92	91	101	83	88	104	103	108	110	112	112	111
Massachusetts.....	306	278	280	291	290	283	289	290	295	332	362	350	328
Michigan.....	322	297	291	308	315	320	312	304	323	330	300	361	343
Minnesota.....	255	239	240	237	234	233	264	267	258	264	234	266	271
Missouri.....	608	531	519	534	586	629	655	680	646	663	651	592	614
Nebraska.....	68	66	66	64	64	68	67	71	67	74	71	70	64
New Jersey.....	260	206	221	268	279	277	277	272	278	290	264	249	240
New York.....	737	660	632	615	695	736	752	721	764	772	824	854	815
Ohio.....	2,023	2,071	2,148	2,209	2,092	1,973	1,910	1,882	1,918	1,948	1,990	2,034	2,101
Oklahoma.....	368	245	343	331	340	373	362	378	369	406	439	422	402
Oregon.....	89	70	94	84	107	86	89	95	94	93	95	98	89
Pennsylvania.....	2,724	2,439	2,430	2,479	2,590	2,583	2,635	2,741	2,865	3,075	3,047	2,893	2,912
Rhode Island.....	43	39	38	39	43	42	43	44	42	48	48	47	42
Tennessee.....	623	671	671	582	539	565	498	513	642	714	698	709	679
Texas.....	439	341	355	396	434	454	427	544	557	497	445	417	396
Utah.....	50	42	47	49	56	53	52	55	60	46	41	49	64
Virginia.....	116	145	142	155	130	104	110	100	96	91	119	118	103
Washington.....	88	83	88	113	104	102	89	66	82	76	79	77	91
West Virginia.....	22	18	25	34	26	19	21	20	20	20	20	20	19
Wisconsin.....	632	693	704	748	677	717	724	703	686	651	626	633	624

¹ As the averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ slightly from the corresponding averages in table 3, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 5.—BOILER SHOPS—PRODUCTION, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Boiler-shops industry, all products, total value.....	\$73,170,472	\$45,866,223	(1)	(1)
2. Boiler-shop products.....	51,363,888	(1)	(1)	(1)
3. Other products (not normally belonging to the industry).....	16,765,799	(1)	(1)	(1)
4. Receipts for repair work.....	5,040,785	(1)	(1)	(1)
5. Boiler-shop products made as secondary products in other industries.....	23,628,667	(1)	(1)	(1)
Boiler-shop products, aggregate value (sum of 2 and 5).....	\$74,992,555	\$41,220,977	\$72,062,269	\$157,142,573
Tanks (iron and steel), total value.....	\$36,810,500	\$23,513,762	\$36,843,132	\$70,785,445
Number reported:				
Number.....	449,849	109,474	278,102	444,423
Value.....	\$24,623,381	\$12,700,926	\$28,202,759	\$63,501,210
Number not reported, value.....	\$12,187,119	\$10,812,836	\$8,640,373	\$7,284,235
Boilers, total value.....	\$10,793,811	\$7,378,496	\$16,478,359	\$34,722,032
Pressure over 15 pounds:				
Number reported:				
Number.....	9,686			
Value.....	\$8,306,464			
Number not reported, value.....	\$1,653,847			
Pressure 15 pounds and under:				
Number reported:				
Number.....	5,891	5,724	14,440	20,477
Value.....	\$759,298	\$5,828,732	\$16,032,395	\$34,003,377
Number not reported, value.....	\$74,202	\$1,549,764	\$445,964	\$718,655
Pressure stills and similar vessels, total value.....	\$3,413,228			
Number reported:				
Number.....	4,016			
Value.....	\$2,517,634			
Number not reported, value.....	\$895,594			
Stacks, total value.....	\$1,315,963	\$1,445,720	\$1,771,401	\$3,822,658
Number reported:				
Number.....	2,653	3,358	4,570	12,341
Value.....	\$731,379	\$652,260	\$1,115,554	\$3,793,977
Number not reported, value.....	\$584,584	\$893,466	\$655,907	\$23,081
Steel plate, fabricated, value.....	\$10,061,387			
Other boiler-shop products and those not distributed by kind, value.....	\$12,597,666	\$8,882,993	\$16,909,317	\$47,812,443

1 No data.

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES 1075

TABLE 6.—CRANES, AND DREDGING, EXCAVATING, AND ROAD-BUILDING MACHINERY—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States...	128	3, 533	10, 808	\$6, 871, 437	\$12, 571, 730	\$28, 792, 692	\$62, 860, 105	\$34, 067, 413
California.....	10	70	344	146, 692	382, 623	705, 217	2, 146, 544	1, 441, 327
Illinois.....	15	352	1, 452	809, 148	1, 905, 101	4, 217, 513	8, 740, 737	4, 529, 224
Indiana.....	5	372	1, 295	510, 497	1, 332, 207	3, 157, 535	6, 791, 731	3, 634, 196
Iowa.....	6	101	305	171, 918	340, 186	1, 227, 877	2, 523, 608	1, 285, 731
Michigan.....	12	294	934	679, 486	1, 160, 300	2, 618, 510	6, 204, 415	3, 585, 905
Minnesota.....	6	131	373	281, 887	437, 800	1, 030, 175	2, 364, 552	1, 334, 377
New York.....	11	124	357	225, 526	364, 604	701, 935	1, 808, 663	1, 106, 728
Ohio.....	26	744	2, 454	1, 465, 148	2, 589, 633	7, 339, 600	14, 952, 771	7, 113, 171
Pennsylvania.....	11	187	703	352, 345	710, 727	1, 494, 783	4, 222, 284	2, 727, 501
Other States ¹	8	997	2, 255	1, 004, 948	2, 906, 591	4, 328, 598	10, 915, 261	6, 086, 863
Wisconsin.....	18	161	335	323, 872	391, 908	971, 149	2, 183, 539	1, 212, 390

¹ Colorado, 1 establishment; Georgia, 1; Idaho, 1; Kansas, 1; Louisiana, 1; Maine, 1; Maryland, 1; Massachusetts, 2; Missouri, 1; Nebraska, 1; New Jersey, 2; Oklahoma, 1; Tennessee, 1; Texas, 2; Washington, 1. See sec. 11, p. 23.

TABLE 7.—CRANES, AND DREDGING, EXCAVATING, AND ROAD-BUILDING MACHINERY—WAGE EARNERS, BY MONTHS, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States...	10, 813	9, 034	9, 297	9, 649	10, 709	11, 170	11, 509	11, 473	11, 469	11, 309	11, 152	11, 298	11, 690
<i>States</i>													
California.....	344	351	323	403	448	407	391	349	330	319	272	262	268
Illinois.....	1, 452	1, 137	1, 239	1, 359	1, 466	1, 601	1, 531	1, 459	1, 474	1, 484	1, 495	1, 549	1, 557
Indiana.....	1, 295	804	912	1, 019	1, 287	1, 397	1, 666	1, 600	1, 518	1, 394	1, 223	1, 240	1, 473
Iowa.....	306	250	297	292	452	304	268	278	244	268	294	339	330
Michigan.....	933	824	837	958	1, 016	1, 087	985	933	896	846	870	950	968
Minnesota.....	377	353	385	323	347	408	414	391	407	411	389	393	398
New York.....	357	295	308	316	361	429	441	352	348	337	335	350	355
Ohio.....	2, 455	2, 105	2, 082	2, 076	2, 327	2, 387	2, 625	2, 701	2, 763	2, 768	2, 684	2, 698	
Pennsylvania.....	703	783	771	732	718	669	655	661	637	635	665	712	794
Wisconsin.....	2, 255	1, 838	1, 855	1, 872	1, 985	2, 232	2, 426	2, 456	2, 471	2, 478	2, 482	2, 454	2, 506

¹ As the averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ slightly from the corresponding averages in table 6, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 8.—CRANES, AND DREDGING, EXCAVATING, AND ROAD-BUILDING MACHINERY—PRODUCTION, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Cranes, and Dredging, Excavating, and Road-Building Machinery industry, all products, total value.....	\$62,860,105	(¹)	(¹)	(¹)
2. Cranes, and dredging, excavating, and road-building machinery.....	52,676,477	(¹)	(¹)	(¹)
3. Other products (not normally belonging to the industry).....	8,893,516	(¹)	(¹)	(¹)
4. Receipts for contract and repair work.....	1,290,112	(¹)	(¹)	(¹)
5. Cranes, etc., made as secondary products in other industries ²	16,957,639	(¹)	(¹)	(¹)
Cranes, and dredging, excavating, and road-building machinery, and parts, aggregate value (sum of 2 and 5).....	\$69,634,116	\$28,186,547	\$75,640,312	\$149,278,423
Cranes, hoists, and derricks (not including oil-well derricks), total value.....	\$13,227,332	\$5,606,847	\$18,447,532	\$57,839,874
Cranes:				
Crawler.....	\$1,447,142	\$427,666	\$1,959,026	\$3,025,698
Locomotive.....	\$734,911	\$575,988	\$1,832,850	\$5,953,216
Overhead traveling.....	\$4,650,084	\$1,239,545	\$3,234,899	\$23,053,992
Stationary.....	\$111,522	\$342,080	\$2,700,316	
Cranes not reported by kind.....	\$356,585			\$22,201,998
Hoists and derricks (including those made for replacement as parts for cranes).....	\$5,927,088	\$3,021,568	\$3,640,495	
Dredging machinery, other than mining, value.....	\$939,376	\$874,746	\$3,520,498	\$3,041,599
Excavating machinery, total value.....	\$17,511,689	\$6,618,902	\$26,666,542	\$57,103,248
Power shovels, total value.....	\$12,559,970	\$4,518,538	\$18,008,791	\$43,348,094
Number reported:				
Number.....	662	253	1,559	3,359
Value.....	\$7,553,031	\$3,912,231	\$18,165,635	\$41,094,550
Number not reported, value.....	\$5,006,939	\$606,307	\$443,106	\$2,343,544
Draglines and power scrapers, total value.....	\$2,880,696	\$1,638,681	\$4,401,263	\$7,242,371
Number reported:				
Number.....	4,985	1,342	4,775	1,706
Value.....	\$2,880,696	\$637,235	\$4,401,263	\$4,235,628
Number not reported, value.....		\$951,446		\$3,006,743
Trench excavators, total value.....	\$390,139	\$41,087	\$1,022,680	\$2,427,017
Number reported:				
Number.....	17	9	316	247
Value.....	\$93,134	\$21,453	\$1,022,680	\$1,673,002
Number not reported, value.....	\$297,005	\$19,634		\$754,015
Other excavating machinery, value.....	\$1,630,834	\$420,596	\$2,633,808	\$4,085,766
Road-building machinery, total value.....	\$26,039,204	\$11,125,699	\$27,005,740	\$30,693,707
Road graders, total value.....	\$13,885,105	\$4,500,160	\$9,640,744	\$16,754,433
Number reported:				
Number.....	6,606	5,006	8,005	14,855
Value.....	\$12,342,080	\$4,352,922	\$9,524,305	\$13,333,302
Number not reported, value.....	\$1,543,025	\$147,208	\$116,439	\$2,416,131
Road rollers, total value.....	\$911,467	\$608,019	\$2,918,971	\$3,892,100
Number reported:				
Number.....	197	179	787	1,090
Value.....	\$575,880	\$431,571	\$2,542,892	\$3,420,116
Number not reported, value.....	\$335,587	\$126,448	\$376,079	\$465,984
Stone crushers, value.....	\$1,996,533	\$1,558,936	\$4,556,308	\$3,241,162
Other road-building machinery (not including concrete mixers), value.....	\$8,498,607			
Road-building machinery not reported by kind, value.....	\$747,492	\$4,458,584	\$9,889,717	\$7,805,962
Parts and attachments, value.....	\$11,523,224	\$3,960,353	(¹)	(¹)
Rebuilt machinery, value.....	\$393,291	(¹)	(¹)	(¹)

¹ No data.

² Principally "Machinery Not Elsewhere Classified" and "Agricultural Implements and Tractors."

³ Not including value of parts and attachments.

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES 1077

TABLE 9.—FOUNDRIES—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	Salaries	Wages	Cost of materials, etc., fuel, and pur- chased energy	Value of products	Value added by manufac- ture
United States..	1,251	7,619	89,894	\$16,891,262	\$98,511,597	\$89,813,760	\$250,460,230	\$160,646,470
Alabama.....	18	44	530	79,895	350,727	330,004	1,084,695	754,691
Arizona.....	5	4	89	31,354	76,241	95,916	283,776	187,860
Arkansas.....	5	26	172	61,704	109,482	237,107	578,223	341,116
California.....	62	240	2,157	508,507	2,567,854	2,229,684	6,569,061	4,339,377
Colorado.....	14	34	286	62,801	254,242	288,649	914,872	626,223
Connecticut.....	29	257	2,168	661,953	2,316,603	1,660,303	5,157,743	3,497,440
Florida.....	8	18	119	33,357	115,270	90,298	347,890	257,592
Georgia.....	18	82	806	200,845	613,024	545,901	1,670,790	1,124,889
Idaho.....	3	2	15	4,060	20,352	28,478	66,242	37,764
Illinois.....	99	771	7,966	1,728,421	8,369,722	6,797,756	20,414,894	13,616,638
Indiana.....	64	538	6,654	1,190,572	6,592,977	5,883,504	15,022,336	10,038,832
Iowa.....	22	91	781	174,752	807,543	794,249	2,259,248	1,464,999
Kansas.....	10	58	606	121,766	507,010	478,605	1,656,530	1,077,925
Kentucky.....	10	31	296	72,769	310,097	646,034	1,101,156	456,122
Louisiana.....	10	31	156	49,367	136,832	241,331	481,848	240,017
Maine.....	10	13	112	25,370	104,580	66,667	241,395	174,728
Maryland.....	12	66	424	119,478	394,698	509,213	1,366,866	857,653
Massachusetts.....	64	283	2,283	752,054	2,411,760	1,787,605	6,092,487	4,304,882
Michigan.....	90	1,075	28,158	2,509,743	36,170,781	32,998,521	86,506,208	53,507,687
Minnesota.....	26	85	761	177,438	777,698	675,467	2,182,689	1,607,222
Missouri.....	28	136	1,327	327,860	1,265,015	1,375,750	3,701,016	2,325,266
Nebraska.....	5	10	56	11,479	49,643	55,799	161,767	105,968
New Hampshire.....	9	20	145	33,783	135,309	70,996	277,136	206,140
New Jersey.....	50	318	3,168	681,455	2,959,363	2,622,323	8,225,271	5,602,948
New York.....	89	610	4,876	1,355,000	5,055,664	4,356,168	13,125,829	8,769,661
North Carolina.....	21	36	236	54,977	231,410	177,591	644,460	466,869
Ohio.....	125	1,142	11,802	2,490,949	12,322,426	11,987,809	33,468,197	21,480,388
Oklahoma.....	11	20	135	42,525	143,236	85,366	379,899	294,533
Oregon.....	14	30	173	49,444	184,319	163,257	520,467	357,210
Pennsylvania.....	130	755	6,342	1,602,508	6,111,461	6,110,572	16,883,068	10,273,096
Rhode Island.....	5	36	351	67,536	345,654	222,858	753,148	530,290
South Carolina.....	7	15	126	23,713	126,236	50,553	277,616	227,063
Tennessee.....	16	88	681	178,854	482,106	728,268	1,714,847	991,579
Texas.....	29	95	727	220,893	653,169	658,582	2,067,986	1,400,404
Utah.....	7	16	93	31,701	98,774	84,022	404,668	320,676
Vermont.....	6	20	235	41,872	234,722	241,896	617,832	375,936
Virginia.....	25	53	411	98,997	353,575	420,308	1,169,533	749,225
Washington.....	28	59	394	107,357	444,125	339,259	1,149,218	809,959
West Virginia.....	8	23	247	62,647	248,548	246,445	702,996	456,551
Wisconsin.....	46	310	3,203	683,999	3,438,693	2,850,221	8,451,813	5,601,692
Other States 1.....	13	98	627	176,514	620,056	485,425	1,364,884	879,459

1 Delaware, 3 establishments; District of Columbia, 1; Mississippi, 2; Montana, 3; Nevada, 1; New Mexico, 1; North Dakota, 1; South Dakota, 1. See sec. 23, p. 12.

TABLE 10.—FOUNDRIES—WAGE EARNERS, BY MONTHS, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States.....	90,050	86,677	92,196	93,139	92,922	90,274	85,630	83,750	85,271	89,179	90,625	94,708	90,157
<i>States</i>													
Alabama.....	530	505	508	500	504	498	534	531	540	558	582	553	515
Arizona.....	89	92	80	89	78	87	80	92	83	89	87	94	116
Arkansas.....	172	175	173	168	173	164	167	169	168	168	180	173	182
California.....	2,157	2,024	2,076	2,118	2,082	2,164	2,160	2,180	2,181	2,161	2,235	2,200	2,232
Colorado.....	286	300	295	286	285	291	293	301	292	301	256	203	266
Connecticut.....	2,168	1,966	2,081	2,062	2,076	2,122	2,092	2,105	2,179	2,230	2,309	2,408	2,388
Delaware.....	404	291	328	328	331	325	394	434	473	458	463	472	532
Florida.....	119	115	120	119	121	123	121	122	115	117	114	117	124
Georgia.....	806	778	812	826	781	811	854	797	792	827	819	814	789
Idaho.....	15	15	15	15	15	15	15	15	15	15	15	15	15
Illinois.....	8,006	7,202	7,748	8,036	8,008	7,885	7,853	7,634	8,015	8,284	8,445	8,457	8,460
Indiana.....	6,662	6,230	6,715	7,010	7,046	6,642	6,281	6,340	6,151	6,719	6,637	7,037	7,131
Iowa.....	781	725	725	787	810	792	780	806	815	799	801	780	721
Kansas.....	578	597	589	591	574	588	594	595	589	577	547	552	543
Kentucky.....	296	282	296	299	292	291	295	278	300	305	305	308	303
Louisiana.....	156	150	140	149	143	164	152	155	157	156	160	167	171
Maine.....	112	111	113	112	114	113	111	113	112	111	110	111	109
Maryland.....	424	425	427	413	421	417	424	421	431	435	430	425	424
Massachusetts.....	2,283	2,220	2,216	2,210	2,249	2,256	2,246	2,290	2,284	2,295	2,340	2,375	2,412
Michigan.....	28,306	27,941	31,016	30,789	30,565	28,913	26,060	24,203	24,751	26,746	27,070	30,478	31,133
Minnesota.....	761	710	721	744	774	772	758	755	767	787	793	771	777
Missouri.....	1,327	1,217	1,319	1,306	1,301	1,324	1,329	1,307	1,389	1,356	1,400	1,320	1,347
Montana.....	126	109	117	119	128	123	124	123	128	126	138	136	142
Nebraska.....	56	49	51	53	53	59	59	59	57	56	57	58	57
New Hampshire.....	145	147	153	154	155	155	149	147	151	144	117	145	119
New Jersey.....	3,169	3,189	3,136	3,176	3,166	3,089	3,073	3,119	3,155	3,159	3,250	3,277	3,240
New York.....	4,875	4,947	5,045	5,118	5,088	4,999	4,007	4,550	4,609	4,774	4,857	4,808	5,012
North Carolina.....	236	235	235	230	234	234	230	236	233	240	240	238	241
Ohio.....	11,799	11,590	12,179	12,267	12,059	11,679	10,933	10,741	11,124	11,891	12,245	12,308	12,572
Oklahoma.....	135	118	121	121	124	132	153	142	139	149	135	141	144
Oregon.....	160	160	160	166	169	156	159	160	167	156	166	140	159
Pennsylvania.....	6,345	5,983	6,141	6,282	6,382	6,188	6,111	6,189	6,317	6,440	6,637	6,745	6,720
Rhode Island.....	351	323	312	332	341	327	315	339	360	356	376	405	413
South Carolina.....	126	125	125	128	128	127	124	124	124	123	122	127	131
Tennessee.....	681	649	675	699	652	654	646	632	685	682	699	709	743
Texas.....	730	711	725	729	729	720	724	740	746	721	724	740	751
Utah.....	93	92	92	92	92	91	93	93	96	98	98	91	91
Vermont.....	235	173	193	191	182	216	212	255	274	273	313	261	273
Virginia.....	411	379	404	400	405	407	424	425	431	428	415	404	413
Washington.....	394	366	376	373	388	395	386	390	408	416	407	410	411
West Virginia.....	247	224	230	232	237	237	247	253	266	263	262	253	260
Wisconsin.....	3,203	2,946	3,121	3,250	3,447	3,438	3,166	3,188	3,125	3,095	3,165	3,141	3,354

¹ As the averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ slightly from the corresponding averages in table 9, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES 1079

TABLE 11.—FOUNDRIES (GRAY-IRON AND MALLEABLE-IRON)—PRODUCTION BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Foundries (Gray-iron and Malleable-iron) industry, all products, total value.....	\$250,460,230	\$142,722,496	(1)	(1)
2. Gray-iron and malleable-iron castings.....	223,951,879	(1)	(1)	(1)
3. Other products (not normally belonging to the industry).....	26,508,351	(1)	(1)	(1)
4. Gray-iron and malleable-iron castings made for sale in other industries ²	38,787,115	(1)	(1)	(1)
Gray-iron and malleable-iron castings made for sale, aggregate value (sum of 2 and 4).....	\$262,738,994	\$159,365,582	\$217,426,705	\$491,150,062
Gray-iron (including semisteel) castings, except rolls:				
Tons (2,000 pounds).....	4 2,815,195	1,903,677	2,390,495	5,079,846
Value.....	\$199,438,976	\$120,635,581	\$174,197,327	\$375,508,194
Gray-iron rolls for rolling mills:				
Tons (2,000 pounds).....	86,342	88,893	66,462	126,074
Value.....	\$9,297,250	\$9,313,077	\$7,935,177	\$14,533,081
Malleable-iron castings:				
Tons (2,000 pounds).....	433,993	263,463	299,206	735,225
Value.....	\$50,540,532	\$26,602,895	\$35,294,201	\$101,108,837
Castings not reported by kind, value.....	\$3,462,236	\$2,814,029	-----	-----

¹ Not compiled.

² Includes \$7,423,610, value of 52,743 tons of steel castings and 5,494 tons of steel rolls, and \$3,337,973, value of 12,919,135 pounds of nonferrous castings. For total production of steel castings, see report entitled "Steel-Works and Rolling-Mill Products"; for production of nonferrous castings, see report entitled "Nonferrous-Metal Products."

³ Reported by foundry departments in other industries, principally "Machinery Not Elsewhere Classified" and "Steel-Works and Rolling-Mill Products."

⁴ Includes data for cast-iron car wheels (not called for separately on questionnaire but specifically reported by many foundry operators). For 1935, 38 foundries reported 337,563 tons of car wheels, valued at \$7,627,490, and 4 establishments building railroad cars reported 32,000 tons (estimated) of car wheels, valued at \$955,162.

⁵ Revised.

⁶ The difference between this total and that given for the year 1935 in the Census report entitled "Malleable-Iron Castings—December 1935, Compared With Preceding Months" (466,395 tons) is due to the fact that the latter total, but not the former, includes data for castings produced and consumed in the same plants.

TABLE 12.—GRAY-IRON AND MALLEABLE-IRON CASTINGS—PRODUCTION, BY QUANTITY AND VALUE, BY STATES: 1935, 1931, AND 1929

[The figures in this table refer only to gray-iron and malleable-iron castings made for sale as such by establishments classified in the "Foundries (Gray-iron and Malleable-iron)" industry and by those in other industries that reported the production of iron castings for sale. They do not, therefore, cover the large quantities of castings produced and consumed by establishments engaged in the manufacture of stoves, furnaces, machinery, and other finished products. Statistics are given for each State for which separate figures can be published without disclosing, exactly or approximately, the production reported by individual establishments. Certain of the "Other States," however, reported larger quantities and values of castings than some of the States shown separately.]

STATE	1935		1931		1929	
	Tons (2,000 pounds)	Value	Tons (2,000 pounds)	Value	Tons (2,000 pounds)	Value
GRAY-IRON CASTINGS						
United States.....	2,815, 195	\$199, 438, 976	2, 390, 495	\$174, 197, 327	5, 079, 846	\$375, 508, 194
Alabama.....	35, 852	1, 414, 130	42, 377	1, 952, 682	58, 131	2, 894, 286
Arizona.....	7, 224	244, 537	6, 161	235, 278	4, 200	330, 880
Arkansas.....	7, 101	508, 593	(?)	(?)	(?)	(?)
California.....	89, 249	6, 156, 286	72, 227	5, 545, 482	149, 054	12, 256, 525
Colorado.....	28, 611	1, 164, 804	40, 024	1, 463, 601	64, 673	2, 073, 577
Connecticut.....	39, 168	4, 442, 805	33, 193	3, 733, 527	77, 514	9, 349, 271
Florida.....	2, 628	212, 368	1, 530	123, 084	2, 005	174, 276
Georgia.....	25, 880	1, 522, 855	18, 526	977, 524	52, 202	2, 658, 792
Idaho.....	1, 037	101, 965	1, 050	87, 000	(?)	(?)
Illinois.....	241, 198	14, 794, 078	211, 759	13, 897, 627	504, 352	36, 073, 448
Indiana.....	150, 612	11, 367, 393	114, 089	8, 541, 833	233, 793	20, 778, 528
Iowa.....	35, 641	2, 251, 697	33, 846	2, 149, 723	97, 632	8, 287, 593
Kansas.....	28, 092	1, 675, 933	32, 024	1, 154, 278	65, 877	2, 836, 058
Kentucky.....	33, 453	1, 050, 854	20, 318	807, 080	37, 354	1, 770, 087
Louisiana.....	10, 168	354, 442	10, 432	449, 942	28, 140	1, 249, 087
Maine.....	1, 714	231, 976	2, 534	285, 101	3, 312	411, 243
Maryland.....	27, 963	1, 486, 413	34, 388	1, 747, 173	59, 651	3, 535, 991
Massachusetts.....	64, 484	5, 907, 208	83, 651	7, 965, 756	132, 065	14, 173, 058
Michigan.....	821, 387	66, 116, 295	444, 537	46, 149, 738	769, 487	63, 270, 354
Minnesota.....	38, 827	2, 042, 187	42, 446	2, 272, 994	84, 490	4, 529, 638
Missouri.....	72, 831	4, 261, 711	52, 624	3, 199, 944	123, 091	8, 741, 423
Montana.....	5, 208	292, 793	5, 121	321, 601	8, 852	553, 241
Nebraska.....	2, 176	198, 158	2, 935	229, 673	1, 475	89, 373
New Hampshire.....	2, 124	244, 926	2, 782	416, 101	6, 750	695, 737
New Jersey.....	79, 586	6, 965, 747	98, 870	8, 038, 379	155, 646	15, 320, 632
New York.....	133, 657	9, 700, 795	149, 002	11, 417, 394	346, 890	27, 735, 600
North Carolina.....	4, 878	449, 019	4, 043	300, 612	7, 713	699, 819
Ohio.....	255, 582	21, 016, 248	239, 672	18, 131, 822	739, 305	59, 501, 705
Oklahoma.....	3, 378	288, 236	3, 132	223, 537	10, 369	487, 894
Oregon.....	5, 781	485, 819	5, 030	503, 916	9, 696	1, 059, 912
Pennsylvania.....	350, 229	17, 581, 166	377, 476	18, 538, 672	824, 283	41, 779, 083
Rhode Island.....	14, 389	1, 071, 102	6, 846	779, 113	28, 722	2, 635, 181
South Carolina.....	2, 172	207, 220	784	53, 854	2, 896	2, 455, 005
Tennessee.....	26, 543	1, 316, 058	36, 421	1, 768, 175	54, 397	2, 787, 594
Texas.....	36, 457	1, 754, 208	37, 169	1, 958, 567	76, 879	4, 808, 022
Utah.....	12, 206	440, 168	14, 006	555, 284	19, 270	900, 496
Vermont.....	3, 824	542, 729	2, 167	270, 776	(?)	(?)
Virginia.....	28, 037	1, 246, 278	24, 515	1, 195, 956	42, 180	1, 978, 580
Washington.....	15, 066	1, 191, 462	15, 250	1, 053, 140	40, 595	2, 757, 013
West Virginia.....	7, 346	666, 429	6, 750	580, 064	19, 530	1, 268, 646
Wisconsin.....	56, 760	6, 059, 573	46, 822	4, 391, 636	105, 921	11, 641, 751
Other States.....	6, 726	412, 283	* 14, 466	* 728, 288	* 33, 384	* 2, 780, 267

For footnotes, see end of table.

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES 1081

TABLE 12.—GRAY-IRON AND MALLEABLE-IRON CASTINGS—PRODUCTION, BY QUANTITY AND VALUE, BY STATES: 1935, 1931, AND 1929—Continued

[See note at head of table]

STATE	1935		1931		1929	
	Tons (2000 pounds)	Value	Tons (2000 pounds)	Value	Tons (2000 pounds)	Value
MALLEABLE-IRON CASTINGS						
United States.....	433,993	\$50,540,532	299,206	\$35,294,201	735,225	\$101,108,837
Connecticut.....	8,349	1,614,031	6,939	1,489,580	18,495	3,659,869
Illinois.....	61,802	7,594,704	41,467	4,831,769	119,051	16,529,603
Indiana.....	42,133	4,913,783	25,007	2,988,401	85,708	10,559,037
Michigan.....	144,783	13,813,463	91,119	7,984,376	138,231	15,893,596
New Jersey.....	5,275	1,211,705	4,712	935,404	9,990	1,952,564
New York.....	20,857	2,713,068	19,762	2,602,554	71,898	11,139,742
Ohio.....	86,117	9,221,697	44,783	5,135,201	115,964	14,408,533
Pennsylvania.....	18,988	2,962,543	21,621	3,319,203	50,408	9,140,734
Wisconsin.....	30,476	3,863,607	23,061	2,511,995	77,317	9,464,223
Other States.....	15,213	2,631,341	20,735	3,495,718	48,163	8,360,936

¹ Includes data for 369,563 tons of car wheels, valued at \$3,582,652; no corresponding figures available for other years.

² Included in figure for "Other States" under "Gray-Iron Castings," to avoid disclosing, exactly or approximately, the production reported by individual establishments.

³ Includes data for States covered by footnote 2.

TABLE 13.—PRINCIPAL MATERIALS CONSUMED IN THE "FOUNDRIES (GRAY-IRON AND MALLEABLE-IRON)" INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1935

[Quantities and costs of principal materials consumed were reported by 1,106 of the 1,251 establishments in the industry. The combined value of products reported by these 1,106 establishments amounted to \$240,906,235, or 96.2 percent of the aggregate value of products of all establishments in the industry. Another reason for the difference between the sum of the costs of the several kinds of materials shown in this table and the total cost of materials as given in tables 2 and 9 is found in the fact that this table covers only certain specified materials, whereas the others cover all materials used]

KIND	Quantity	Cost
	<i>Tons (2,240 pounds)</i>	
Pig iron.....	1,148,809	\$23,758,943
Scrap iron.....	1,527,286	17,327,585
	<i>Pounds</i>	
Brass and bronze.....	4,159,944	407,414

TABLE 14.—MACHINE SHOPS—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	3,026	16,789	82,474	\$37,249,010	\$37,454,077	\$172,563,257	\$418,053,806	\$245,400,649
(A) Machine shops engaged in custom and repair work only.....	994	1,231	6,040	2,062,336	7,506,229	7,026,099	23,241,224	16,215,123
(B) Machine shops making products other than machinery for sale.....	2,032	15,558	76,434	35,186,674	80,947,848	165,537,158	394,812,582	229,275,424
<i>States¹</i>								
Alabama.....	23	40	208	53,992	186,068	209,734	622,852	413,118
Arizona.....	7	14	29	16,812	33,514	41,589	135,013	93,424
Arkansas.....	21	23	114	33,656	122,200	101,077	378,057	276,980
California.....	312	807	2,860	1,472,746	3,671,161	5,770,656	15,620,469	9,849,813
Colorado.....	24	43	140	72,962	153,271	141,030	682,199	541,169
Connecticut.....	57	1,202	9,763	2,980,857	11,281,981	14,563,267	42,641,034	28,077,767
District of Columbia.....	5	10	55	15,180	96,785	65,529	244,881	179,352
Florida.....	40	79	293	129,219	296,100	476,655	1,226,152	749,497
Georgia.....	29	42	218	77,104	201,754	218,646	648,566	429,020
Idaho.....	7	7	30	12,186	32,053	38,769	139,608	100,839
Illinois.....	252	1,619	7,001	3,604,799	8,642,750	20,037,838	43,454,431	23,416,563
Indiana.....	101	1,293	6,045	2,755,193	7,144,588	13,117,727	33,959,778	20,842,051
Iowa.....	34	181	841	269,685	849,813	1,791,360	3,895,378	2,104,018
Kansas.....	45	65	276	117,419	398,310	391,969	1,314,346	922,377
Kentucky.....	22	61	176	142,764	213,555	294,079	1,058,547	764,468
Louisiana.....	50	104	578	219,221	616,635	490,638	1,692,400	1,201,762
Maine.....	14	17	71	29,560	84,489	124,494	286,018	161,534
Maryland.....	42	302	1,093	666,370	1,256,206	2,022,140	5,011,099	2,988,869
Massachusetts.....	115	612	2,541	1,318,446	3,370,786	4,024,109	11,424,053	7,399,944
Michigan.....	184	1,601	10,681	4,136,422	12,616,996	23,853,250	53,941,839	30,688,889
Minnesota.....	46	149	623	283,642	716,242	1,035,772	3,049,307	2,013,535
Mississippi.....	15	19	109	32,026	118,747	102,608	367,806	265,198
Missouri.....	79	604	2,059	1,429,254	2,568,315	3,347,568	11,007,465	7,719,897
Montana.....	8	19	98	39,751	132,316	146,838	361,089	214,231
Nebraska.....	15	10	80	15,160	90,905	77,322	263,651	186,329
New Hampshire.....	9	14	70	17,233	74,924	53,485	212,124	158,639
New Jersey.....	110	700	2,994	1,527,412	3,643,874	5,618,762	14,635,787	9,017,025
New York.....	328	1,386	6,250	2,987,986	7,262,678	11,463,114	30,941,508	10,478,394
North Carolina.....	37	66	328	113,394	297,805	249,269	862,160	612,891
North Dakota.....	6	9	25	14,794	31,131	42,638	133,660	91,022
Ohio.....	217	1,680	9,452	4,028,893	11,124,154	26,534,649	54,414,126	27,879,477
Oklahoma.....	49	128	485	320,411	589,351	682,481	2,562,606	1,580,125
Oregon.....	49	71	446	132,375	550,684	732,370	1,737,165	1,004,795
Pennsylvania.....	268	2,721	11,829	6,010,924	13,584,580	26,700,758	59,120,659	32,410,901
Rhode Island.....	17	209	729	395,568	1,056,824	1,488,501	3,298,294	1,809,793
South Carolina.....	11	14	70	20,995	57,729	39,982	142,775	102,793
South Dakota.....	6	.....	37	.....	30,452	21,035	88,837	67,802
Tennessee.....	24	83	399	125,151	348,207	360,923	1,007,804	646,881
Texas.....	140	205	1,075	434,817	1,299,586	1,681,847	4,963,265	3,281,418
Utah.....	4	4	11	5,215	11,009	11,436	33,769	22,333
Vermont.....	3	4	13	2,615	13,922	8,405	30,015	30,010
Virginia.....	30	47	219	93,008	263,376	236,138	763,896	527,758
Washington.....	61	134	645	255,423	809,220	1,195,617	2,802,623	1,600,906
West Virginia.....	26	79	407	173,082	463,904	599,753	1,908,765	1,009,012
Wisconsin.....	74	258	871	533,698	885,292	1,265,221	3,952,137	2,686,916
Delaware.....	5	.....	.....	.....	.....	.....	.....	.....
Nevada.....	1	53	137	131,590	159,803	492,219	947,003	454,784
Wyoming.....	4	.....	.....	.....	.....	.....	.....	.....

¹ No machine shops reported from New Mexico.² Combined to avoid disclosing, exactly or approximately, data for individual establishments.

TABLE 15.—MACHINE SHOPS—WAGE EARNERS, BY MONTHS, BY STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States.....	82,695	75,410	79,153	81,873	82,089	82,831	81,503	80,971	81,954	84,508	85,914	87,163	88,066
<i>States</i>													
Alabama.....	208	206	208	201	198	199	207	212	208	213	225	222	199
Arizona.....	29	28	27	28	29	32	29	28	28	29	28	29	28
Arkansas.....	114	107	105	110	113	115	115	114	118	119	120	118	109
California.....	2,862	2,564	2,628	2,703	2,817	2,897	2,910	2,986	2,980	2,967	2,942	2,950	3,000
Colorado.....	140	126	138	126	125	131	136	154	159	154	146	154	183
Connecticut.....	9,769	8,224	8,779	9,181	9,387	9,513	9,518	9,650	9,952	10,429	10,658	10,896	11,037
District of Columbia.....	55	47	47	49	52	52	55	57	63	61	62	53	58
Florida.....	303	313	289	302	306	296	292	295	285	295	306	327	325
Georgia.....	213	211	210	214	211	213	221	221	220	218	220	224	230
Idaho.....	30	23	24	33	30	34	30	31	32	30	31	29	30
Illinois.....	7,174	6,365	6,688	7,023	7,323	7,202	6,991	7,026	7,231	7,482	7,447	7,637	7,679
Indiana.....	6,038	5,684	5,799	5,870	5,940	5,902	5,785	5,733	5,737	6,131	6,493	6,679	6,703
Iowa.....	949	606	803	1,062	1,122	991	993	1,011	931	1,005	964	948	967
Kansas.....	276	252	268	271	281	283	283	285	289	281	271	276	273
Kentucky.....	176	164	158	167	180	170	182	175	176	170	179	187	198
Louisiana.....	578	517	546	542	600	577	534	665	670	565	575	584	562
Maine.....	71	71	73	71	69	68	68	65	67	69	74	79	78
Maryland.....	1,093	975	945	982	1,040	1,113	1,197	1,166	1,204	1,185	1,115	1,110	1,085
Massachusetts.....	2,541	2,287	2,358	2,431	2,498	2,513	2,553	2,581	2,591	2,624	2,678	2,705	2,677
Michigan.....	10,684	10,602	11,260	11,665	11,491	11,119	10,286	9,885	9,853	10,465	10,456	10,450	10,674
Minnesota.....	623	621	651	669	694	697	654	629	570	565	650	523	558
Mississippi.....	109	108	106	108	106	110	109	112	113	111	107	109	109
Missouri.....	2,059	1,856	1,992	2,059	2,127	2,089	2,031	1,981	1,869	1,956	2,157	2,255	2,339
Montana.....	99	88	94	92	93	100	106	110	114	103	102	95	94
Nebraska.....	80	79	80	78	80	83	76	83	84	81	83	81	78
New Hampshire.....	70	64	66	64	63	66	77	79	75	75	69	70	74
New Jersey.....	2,994	2,349	2,580	2,708	2,810	2,956	2,936	3,098	3,210	3,313	3,316	3,224	3,424
New York.....	6,255	5,957	6,261	6,290	6,332	6,339	6,188	5,984	6,063	6,228	6,416	6,545	6,458
North Carolina.....	328	305	326	341	315	318	321	310	318	318	345	366	351
North Dakota.....	25	24	24	25	24	24	25	26	26	26	26	26	26
Ohio.....	9,442	8,331	8,974	9,361	9,582	9,525	9,510	9,078	9,290	9,615	9,872	10,071	10,101
Oklahoma.....	476	433	456	451	487	492	482	503	494	486	480	474	469
Oregon.....	438	458	400	400	436	408	430	433	439	463	455	434	446
Pennsylvania.....	11,829	11,120	11,364	11,554	11,385	11,616	11,591	11,648	11,837	12,059	12,267	12,662	12,849
Rhode Island.....	729	685	690	688	709	705	706	699	788	734	772	788	833
South Carolina.....	70	71	71	69	68	66	68	67	71	72	75	73	73
South Dakota.....	37	37	36	36	37	37	37	38	37	37	37	36	35
Tennessee.....	398	360	375	380	374	410	422	435	432	429	409	376	377
Texas.....	1,022	947	991	976	995	1,003	1,047	1,053	1,068	1,063	1,046	1,033	1,036
Utah.....	11	10	10	10	12	12	12	13	10	10	10	10	9
Vermont.....	13	14	12	13	14	13	11	13	13	13	15	15	14
Virginia.....	219	210	217	227	219	222	229	223	215	211	218	220	215
Washington.....	645	565	602	690	702	689	649	624	677	656	641	635	607
West Virginia.....	407	394	408	401	398	406	395	400	409	426	412	424	415
Wisconsin.....	871	813	862	920	931	880	882	869	867	845	822	843	916
Delaware.....													
Nevada.....	2,137	139	152	172	184	140	126	123	121	121	122	118	125
Wyoming.....													

¹ As the averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ slightly from the corresponding averages in table 14, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

² Combined to avoid disclosing, exactly or approximately, data for individual establishments.

TABLE 16.—MACHINE-SHOP PRODUCTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Machine-shops industry, all products, total value.....	\$418, 053, 806	\$274, 567, 632	(¹)	(¹)
2. Machine-shop products.....	391, 046, 606	(¹)	(¹)	(¹)
3. Other products (not normally belonging to the industry).....	27, 007, 200	(¹)	(¹)	(¹)
4. Machine-shop products (ball and roller bearings, gears, etc.) made as secondary products in other industries, value.....	137, 460, 582	(¹)	(¹)	(¹)
Machine-shop products, aggregate value (sum of 2 and 4).....	\$528, 516, 188	² \$303, 006, 517	² \$447, 905, 293	² \$1, 043, 275, 426
Cold-rolled strip steel, flat bright, except cold-rolled from drawn wire:				
Total tons (2,240 pounds).....	556, 739	405, 221	341, 409	³ 952, 812
Total value.....	\$54, 763, 486	\$35, 410, 147	\$34, 017, 294	³ \$88, 647, 021
Widths 6 inches and narrower:				
Total tons (2,240 pounds).....	307, 592	212, 599	166, 071	348, 480
Total value.....	\$34, 470, 552	\$21, 445, 747	\$10, 155, 441	\$39, 536, 721
Razor-blade strips (0.01" and thinner):				
Tons (2,240 pounds).....	908			
Value.....	\$697, 369	(⁴)	(⁴)	(⁴)
Other:				
Tons (2,240 pounds).....	306, 684			
Value.....	\$33, 773, 183			
Wider than 6 inches but under 12 inches:				
Tons (2,240 pounds).....	133, 803	86, 661	75, 858	220, 729
Value.....	\$11, 473, 910	\$6, 844, 433	\$7, 250, 391	\$18, 335, 481
Widths 12 inches and over, but under 24 inches:				
Tons (2,240 pounds).....	115, 344	105, 961	99, 480	³ 383, 603
Value.....	\$8, 819, 024	\$7, 119, 967	\$7, 611, 462	³ \$25, 774, 819
Cold-finished steel bars, total value.....	\$44, 846, 386	\$26, 026, 818	\$24, 833, 337	\$71, 755, 645
Drawn in coils:				
Tons (2,240 pounds).....	51, 404			
Value.....	\$4, 449, 536			
Drawn in straight lengths:		(⁴)	(⁴)	(⁴)
Tons (2,240 pounds).....	572, 758			
Value.....	\$40, 396, 850			
Ball and roller bearings and parts, total value.....	\$86, 571, 271	\$40, 530, 143	\$50, 528, 087	\$120, 033, 812
Ball bearings and parts, total.....	\$44, 517, 502	\$21, 153, 613	\$28, 309, 509	\$66, 880, 624
Ball bearings.....	⁵ \$41, 434, 062	(⁴)	(⁴)	(⁴)
Balls made for sale as such.....	⁶ \$2, 247, 868			
Other parts made for sale as such.....	⁷ \$735, 572			
Roller bearings and parts, total.....	\$42, 053, 769	\$19, 376, 530	\$22, 218, 578	\$53, 153, 188
Roller bearings.....	⁸ \$41, 148, 965	(⁴)	(⁴)	(⁴)
Rollers made for sale as such.....	⁹ \$804, 665			
Other parts made for sale as such.....	¹⁰ \$100, 139			
Fabricated pipe, value.....	\$8, 231, 513	\$3, 022, 104	\$5, 476, 817	\$6, 100, 451
Flexible metallic tubing and hose, value.....	\$2, 993, 454	\$1, 210, 055	\$1, 618, 299	\$4, 165, 484
Gears other than motor-vehicle, value.....	\$22, 883, 463	\$9, 055, 852	\$14, 143, 372	\$30, 325, 542
Industrial oil burners, total value.....	\$1, 615, 550	\$1, 108, 520	\$2, 234, 741	\$4, 305, 921
Number reported:				
Number.....	4, 583	9, 648	12, 088	
Value.....	\$704, 458	\$762, 685	\$1, 290, 198	
Number not reported, value.....	\$911, 092	\$345, 835	\$944, 543	\$4, 305, 921
Parts and attachments, value.....	⁶ \$9, 220, 679	(⁴)	(⁴)	(⁴)
Piston rings made for sale, value.....	\$15, 360, 014	\$11, 419, 191	\$13, 114, 915	\$20, 137, 700
Valves, faucets, and fittings, value.....	\$23, 421, 145	\$18, 998, 497	\$20, 747, 452	\$27, 852, 864

For footnotes, see end of table.

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES 1085

TABLE 16.—MACHINE-SHOP PRODUCTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935—Continued

	1935	1933	1931	1929
Machine-shop products—Continued.				
Water softeners, total value.....	\$1,239,100	\$983,983	\$2,283,851	(1)
Domestic:				
Number reported:				
Number.....	4,177			
Value.....	\$521,098	(4)	(4)	(4)
Number not reported, value.....	\$159,609			
Commercial and industrial, value.....	\$558,493			
Power-transmission chains, value.....	\$11,464,087			
Machine-shop products not reported separately, total value ²	\$209,366,288	\$113,529,413	\$214,240,864	\$489,984,625
Items reported as—				
Miscellaneous (air-conditioning equipment, barn equipment, brewery equipment, carburetors, gas generators, industrial furnaces, jacks, pulleys, railroad appliances, sheet steel purchased and slit into strips, sprinkler systems, etc.).....	\$187,553,858	\$93,634,851	\$190,489,987	\$452,265,794
Machine-shop work.....	\$15,046,163	\$14,253,576	\$14,501,140	\$24,644,250
General jobbing work.....	\$2,696,710	\$3,314,145	\$5,917,396	\$10,618,928
Rebuilt and reconditioned machinery.....	\$3,845,675	\$1,812,329	\$2,695,655	\$2,280,728
Experimental work.....	\$223,882	\$509,512	\$636,686	\$174,925
Amount received for manufacturing on contract, processing iron and steel, and machine-shop repair work.....	\$36,539,752	³ \$41,106,794	³ \$64,666,264	³ \$184,966,852

¹ No data.

² Not strictly comparable with 1935 figure because of change in classification. See footnotes 3, 6, and 9.

³ Includes data for widths over 24 inches.

⁴ Not reported separately.

⁵ The figures for ball bearings and for roller bearings include the values of balls, rollers, and other parts made for sale as such, not reported separately by certain manufacturers, and as a result, these figures overstate slightly, while those for balls, rollers, and other parts made for sale as such understate somewhat, the actual values of the respective classes of products made in 1935.

⁶ Figure for 1935 represents production in this industry only; no comparable figures available for earlier years. Total values of machine parts and attachments made in the six industries formerly classified as a single industry under the title "Foundry and Machine-Shop Products Not Elsewhere Classified" (see table 1), as reported for the several censuses, are as follows: 1935, \$59,646,283; 1933, \$48,444,662; 1931, \$52,193,329; 1929, \$69,579,655.

⁷ Production by establishments classified in "Machine Shops" industry only. For total production, see table 17.

⁸ The figures for this group of items are the sums of the data for items entered on the schedule under "A 11 other products (specify kind)." These products were specified in many but not in all cases.

⁹ Figures for 1933 and earlier years represent total receipts reported by all establishments in the group of six industries formerly classified as a single industry under the title "Foundry and Machine-Shop Products Not Elsewhere Classified" (see table 1) and therefore are not comparable with the corresponding figure for 1935, which refers to establishments in the Machine-Shops industry only. The 1935 total for the six industries in question, comparable with the figures for 1933 and earlier years, is \$59,666,012.

TABLE 17.—VALVES, FAUCETS, AND FITTINGS—PRODUCTION, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933

This table covers the production of valves, faucets, and fittings, regardless of the industry classification of the establishments by which manufactured, so far as separately reported to the Bureau of the Census]

	1935	1933
Valves (not including valves for steam and internal-combustion engines), faucets, and fittings, total value.....	\$133, 175, 902	\$69, 784, 234
Valves reported by kind of metal:		
Brass, bronze, and other nonferrous, value.....	\$31, 582, 831	\$16, 388, 113
Iron body, value.....	\$10, 914, 255	
Steel, value.....	\$4, 315, 812	\$6, 381, 112
Valves not reported by kind of metal, value.....	\$6, 350, 021	\$632, 404
Reducing valves reported separately, value.....	\$2, 484, 112	(¹)
Faucets and spigots reported separately:		
Number reported:		
Number.....	4, 535, 856	
Value.....	\$3, 268, 913	\$4, 090, 274
Number not reported, value.....	\$5, 026, 288	
Plumbers' brass and bronze goods not reported by kind, value.....	\$13, 358, 525	
Fittings reported by kind of metal:		
Brass and bronze, value.....	\$14, 624, 147	\$17, 341, 440
Cast-iron pipe fittings reported separately:		
Soil and plumbers' pipe fittings:		
Quantity reported:		
Tons (2,000 pounds).....	68, 419	23, 309
Value.....	\$3, 860, 061	\$1, 439, 557
Quantity not reported, value.....	\$940, 772	
Gas and water pipe fittings:		
Quantity reported:		
Tons (2,000 pounds).....	23, 339	20, 923
Value.....	\$2, 164, 950	\$2, 122, 808
Quantity not reported, value.....	\$167, 985	
Other cast-iron pipe fittings and those not reported by kind:		
Quantity reported:		
Tons (2,000 pounds).....	37, 443	16, 960
Value.....	\$4, 104, 786	\$1, 758, 073
Quantity not reported, value.....	\$3, 968, 438	\$2, 598, 607
Malleable iron, value.....	\$12, 144, 039	\$8, 795, 783
Steel, value.....	\$4, 534, 497	\$2, 733, 029
Other metals, value.....	\$2, 107, 036	
Fittings not reported by kind of metal:		
Nipples reported separately, value.....	\$4, 596, 125	\$4, 673, 944
Other fittings not reported by kind of metal, value.....	\$2, 662, 299	

¹ No data.

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES 1087

TABLE 18.—MACHINERY NOT ELSEWHERE CLASSIFIED—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	2, 554	32, 588	109, 818	\$68,978,291	\$131,742,637	\$218,237,851	\$581,937,246	\$363, 609, 395
Alabama.....	7	98	830	233, 040	744, 758	1, 390, 833	3, 887, 133	2, 496, 300
Arkansas.....	7	14	56	22, 412	60, 055	2, 107, 122	2, 380, 522	1, 498, 227
California.....	185	1, 350	4, 574	3, 070, 523	6, 136, 600	10, 634, 669	31, 093, 875	20, 464, 206
Colorado.....	12	135	698	254, 263	743, 064	950, 442	2, 903, 342	1, 952, 900
Connecticut.....	57	647	2, 146	1, 488, 798	2, 757, 692	3, 219, 296	9, 241, 085	6, 021, 789
Delaware.....	6	89	626	201, 307	918, 960	1, 263, 287	2, 486, 646	1, 223, 359
Georgia.....	20	127	607	298, 034	534, 506	882, 295	2, 380, 522	1, 498, 227
Illinois.....	266	3, 801	12, 770	8, 217, 024	15, 415, 795	30, 566, 903	74, 654, 957	44, 088, 054
Indiana.....	82	1, 025	3, 548	2, 079, 607	3, 906, 847	6, 236, 552	17, 251, 426	11, 014, 874
Iowa.....	38	409	1, 085	728, 759	1, 202, 920	2, 906, 742	7, 242, 948	4, 336, 206
Kansas.....	14	201	703	399, 655	711, 526	1, 571, 118	3, 911, 853	2, 340, 735
Kentucky.....	17	335	1, 110	680, 033	1, 075, 577	2, 179, 938	6, 001, 175	3, 821, 237
Louisiana.....	7	40	300	103, 834	263, 914	390, 612	979, 667	589, 055
Maine.....	11	86	372	170, 245	386, 970	304, 500	987, 287	682, 737
Maryland.....	33	323	1, 180	835, 449	1, 475, 433	2, 194, 380	6, 205, 279	4, 010, 899
Massachusetts.....	166	2, 354	7, 863	4, 877, 893	10, 286, 798	10, 623, 243	34, 938, 073	24, 314, 835
Michigan.....	125	1, 878	5, 427	3, 669, 787	6, 367, 395	11, 649, 380	31, 118, 413	19, 469, 033
Minnesota.....	67	491	1, 360	1, 013, 078	1, 571, 169	2, 780, 230	8, 134, 679	5, 404, 449
Missouri.....	74	739	2, 086	1, 470, 544	2, 315, 627	4, 350, 544	11, 647, 068	7, 296, 524
Nebraska.....	9	22	42	33, 744	54, 612	124, 167	281, 245	157, 078
New Hampshire.....	11	258	843	456, 859	978, 936	1, 059, 025	4, 256, 066	3, 197, 041
New Jersey.....	122	2, 411	6, 926	5, 132, 096	8, 641, 399	14, 382, 843	37, 312, 018	22, 929, 175
New York.....	315	4, 079	13, 381	8, 485, 764	16, 330, 635	23, 821, 179	65, 429, 140	41, 607, 961
North Carolina.....	11	42	205	71, 918	197, 211	272, 407	825, 404	553, 057
Ohio.....	263	3, 926	13, 812	8, 673, 441	16, 822, 305	30, 099, 323	77, 966, 353	47, 867, 035
Oklahoma.....	26	170	469	394, 434	574, 486	1, 431, 803	3, 003, 431	1, 571, 628
Oregon.....	24	194	735	345, 401	953, 365	1, 303, 461	3, 323, 497	1, 960, 036
Pennsylvania.....	266	3, 704	11, 286	7, 595, 866	12, 992, 762	21, 335, 655	58, 012, 743	36, 677, 093
Rhode Island.....	11	109	381	223, 340	454, 419	525, 005	2, 188, 894	1, 663, 889
Tennessee.....	19	122	501	243, 360	428, 174	959, 843	1, 952, 463	992, 620
Texas.....	66	1, 028	5, 177	2, 289, 345	6, 165, 247	8, 756, 771	24, 674, 080	15, 917, 309
Utah.....	7	40	146	91, 793	172, 592	867, 355	1, 324, 491	457, 136
Vermont.....	10	43	164	76, 070	155, 168	137, 212	561, 376	374, 164
Virginia.....	14	59	249	147, 565	215, 482	506, 987	1, 130, 529	623, 542
Washington.....	49	296	1, 246	614, 397	1, 656, 552	2, 311, 636	5, 740, 131	3, 428, 495
West Virginia.....	14	175	669	446, 398	749, 814	2, 272, 706	3, 994, 308	1, 721, 602
Wisconsin.....	113	1, 688	6, 013	3, 745, 450	7, 068, 456	13, 294, 149	33, 440, 912	20, 146, 763
Other States ¹	10	75	232	98, 765	255, 416	464, 238	1, 129, 225	664, 937

¹ District of Columbia, 1 establishment; Florida, 3; Idaho, 1; Mississippi, 2; Montana, 1; South Carolina 2. See sec. 23 p. 12.

Tennessee.....	490	452	478	494	510	500	407	469	486	532	539	556	560
Texas.....	5, 146	4, 493	4, 503	4, 603	4, 714	4, 905	5, 265	5, 573	5, 900	5, 038	5, 242	5, 329	5, 251
Utah.....	140	123	135	128	151	137	144	165	178	184	156	146	139
Vermont.....	164	124	125	153	176	171	164	176	179	180	169	183	165
Virginia.....	240	238	234	238	240	245	259	253	254	259	265	244	255
Washington.....	1, 247	900	980	1, 155	1, 308	1, 401	1, 376	1, 511	1, 290	1, 310	1, 337	1, 283	1, 256
West Virginia.....	657	613	650	713	684	737	735	690	632	647	651	605	628
Wisconsin.....	6, 009	5, 627	5, 916	6, 013	6, 150	6, 117	6, 197	6, 035	6, 130	6, 267	5, 846	5, 805	6, 000

1 As the averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 18, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 20.—MACHINERY NOT ELSEWHERE CLASSIFIED—PRODUCTION, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933

	1935		1933	
	Number	Value	Number	Value
1. "Machinery Not Elsewhere Classified" industry, all products, total value.....		\$581,937,246		(1)
2. Machinery.....	454,144	291		(1)
3. Parts and attachments.....	32,545	035		(1)
4. Other products (not normally belonging to the industry).....	280,990	968		(1)
5. Receipts for contract and repair work.....	14,256	952		(1)
6. Machinery made as secondary products in other industries.....	369,286	201		(1)
Machinery, aggregate value (sum of 2 and 6).....	523,430	492		\$270,092,020
Automobile lifts, total.....		4,013,447		1,868,732
Number reported.....	4,907	725,025		
Number not reported.....		3,288,422		1,868,732
Bakers' machinery and equipment, total.....		11,869,433		7,932,290
Bake ovens, total.....		3,170,184		1,785,388
Number reported.....	1,787	1,603,331	349	571,083
Number not reported.....		1,566,853		1,213,405
Bread-slicing machines, total.....		935,502		
Number reported.....	1,736	667,868		
Number not reported.....		267,634		
Wrapping machines.....	559	893,553		
Other bakers' machinery and equipment.....		6,870,194		
Baling presses (other than hay presses).....		739,909		395,350
Blowers and ventilating and exhaust fans, total.....		15,830,432		6,955,402
Bottlers' machinery, except for dairies (for dairy bottling machinery, see p. 1091).....		8,264,091		9,156,590
Canning machinery.....		3,271,114		3,139,013
Carpet sweepers.....		2,125,185		(2)
Cars, trucks, and tractors, industrial and mining, total.....		14,726,315		6,049,827
Industrial (factory, baggage, etc.), total.....		11,243,260		3,868,789
Hand, total.....		3,850,133		1,748,953
Number reported.....	40,007	1,101,340	57,471	1,084,318
Number not reported.....		2,754,793		664,635
Electric (storage-battery), total.....		2,645,038		
Number reported.....	1,001	2,391,843		
Number not reported.....		153,195		
Other industrial.....		4,842,095		
Mining, total.....		2,827,496		2,181,038
Number reported.....	7,308	912,032	5,214	643,050
Number not reported.....		1,915,464		1,537,988
Cars, trucks, and tractors not reported separately.....		655,653		
Cement and concrete machinery, total.....		5,870,066		1,732,129
Cement-making machinery.....		1,646,103		544,669
Concrete mixers, total.....		2,415,128		963,348
Number reported.....	3,136	2,334,699	812	672,721
Number not reported.....		80,429		290,627
Cement and concrete block machines, total.....		246,785		
Number reported.....	431	191,532		224,122
Number not reported.....		55,253		
Other cement and concrete machinery.....		1,562,050		
Clay-working machinery (brick, pottery, etc.).....		1,070,767		501,124
Clothes-pressing machines (other than laundry), total.....		3,190,864		2,013,665
Number reported.....	8,468	3,059,697	4,310	1,822,014
Number not reported.....		131,167		191,651

For footnotes, see end of table.

FOUNDRY AND MACHINE-SHOP PRODUCTS INDUSTRIES 1091

TABLE 20.—MACHINERY NOT ELSEWHERE CLASSIFIED—PRODUCTION, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933—CON.

	1935		1933	
	Number	Value	Number	Value
Machinery—Continued.				
Coffee roasting and grinding machines, food choppers and grinders, food mixers, slicing machines, etc., total.....	-----	\$14,597,884	-----	-----
Coffee roasting and grinding machines, and combination coffee-grinders and meat-choppers, total.....	-----	1,469,935	-----	\$1,481,950
Number reported.....	14,758	1,280,268	3,063	781,231
Number not reported.....	-----	189,667	-----	700,719
Food choppers and grinders, total.....	-----	2,361,026	-----	1,604,802
Number reported.....	57,237	2,051,884	54,114	614,616
Number not reported.....	-----	309,142	-----	990,186
Food mixers (including dough mixers), total.....	-----	6,497,873	-----	(^o)
Number reported.....	379,728	4,574,538	-----	-----
Number not reported.....	-----	1,923,335	-----	-----
Slicing machines (other than bread-slicing), ^a total.....	-----	3,322,855	-----	73,961,340
Number reported.....	423,590	2,343,182	714,675	2,892,357
Number not reported.....	-----	979,673	-----	1,068,983
Other food-preparation machines.....	-----	946,195	-----	-----
Coin-operated machines, complete, total.....	-----	16,406,626	-----	-----
Commodity or vending, total.....	-----	5,988,675	-----	5,471,576
Number reported.....	156,777	4,837,166	-----	-----
Number not reported.....	-----	1,151,509	-----	5,471,576
Game and amusement, total.....	-----	8,809,964	-----	-----
Number reported.....	65,183	2,111,490	-----	(^o)
Number not reported.....	-----	6,758,474	-----	-----
Gambling devices.....	-----	^b 1,547,987	-----	-----
Coin-operated mechanisms.....	-----	263,932	-----	-----
Condensers.....	-----	1,297,005	-----	990,373
Confectionery and ice-cream machinery.....	-----	5,051,688	-----	2,666,745
Conveying and elevating machinery, total.....	-----	22,044,785	-----	11,413,457
Belt-type.....	-----	3,935,354	-----	3,462,628
Bucket-type.....	-----	2,018,711	-----	2,106,911
Gravity.....	-----	1,778,987	-----	1,563,392
Pneumatic.....	-----	376,951	-----	401,422
Other types.....	-----	10,736,517	-----	3,653,805
Not reported by type.....	-----	3,203,215	-----	225,299
Cotton-ginning machinery.....	-----	4,891,997	-----	2,164,745
Dairy machinery, total.....	-----	14,864,380	-----	8,326,867
Cream separators, total.....	-----	4,448,983	-----	2,358,113
Capacity 500 pounds or less per hour.....	58,808	1,838,910	-----	(^o)
Capacity more than 500 pounds per hour.....	44,682	2,015,073	-----	-----
Milking machines (complete assemblies).....	7,250	476,169	1,296	111,202
Bottling machines for dairies, total.....	-----	1,000,663	-----	1,281,657
Number reported.....	4,740	746,602	-----	-----
Number not reported.....	-----	254,061	-----	1,281,657
Butter-making and butter-working machines.....	-----	814,655	-----	627,732
Pasteurizers, total.....	-----	2,196,057	-----	997,458
Number reported.....	2,589	1,473,012	-----	-----
Number not reported.....	-----	723,045	-----	997,458
Other dairy machinery and that not reported by kind.....	-----	5,027,853	-----	2,950,705
Dish-washing machines, total.....	-----	874,908	-----	360,543
Number reported.....	1,988	761,793	858	247,688
Number not reported.....	-----	113,115	-----	112,855
Elevators and elevator equipment, total.....	-----	11,791,863	-----	10,435,746
Passenger (including escalators), total.....	-----	5,267,717	-----	5,067,504
Number reported.....	1,930	5,186,135	1,279	4,756,137
Number not reported.....	-----	81,582	-----	311,367

For footnotes, see end of table.

TABLE 20.—MACHINERY NOT ELSEWHERE CLASSIFIED—PRODUCTION, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933—Con.

	1935		1933	
	Number	Value	Number	Value
Machinery—Continued.				
Elevators and elevator equipment—Continued.				
Freight, total.....		\$3,603,782		\$3,254,846
Number reported.....	1,507	3,151,228	1,424	2,403,026
Number not reported.....		452,554		
Sidewalk, total.....		92,478		851,820
Number reported.....	350	82,729		
Number not reported.....		9,749		
Dumb-waiters, total.....		145,788		
Number reported.....	408	114,539		
Number not reported.....		31,249		
Parts and attachments.....		2,682,098		2,113,396
Flour-mill and grain-mill machinery.....		5,107,349		2,353,862
Foundry machinery, total.....		5,585,427		1,957,185
Molding machines, total.....		1,296,400		1,051,183
Number reported.....	954	540,507	344	179,206
Number not reported.....		755,893		871,982
Sand-blast machines, total.....		628,699		257,727
Number reported.....	608	513,705		
Number not reported.....		114,994		257,727
Tumbling barrels.....		420,922		85,081
Other foundry machinery and that not reported by kind.....		3,230,346		563,186
Glass-making machinery.....		3,542,747		1,894,783
Hat-making machinery.....		747,522		482,507
Hydraulic machinery (other than for dredging), total.....		5,593,016		1,548,611
Presses.....		2,036,850		1,081,165
Other hydraulic machinery.....		3,556,166		407,446
Incandescent-lamp-making machinery.....		2,176,839		1,658,554
Laundry machinery (for commercial laundries only).....		11,050,500		5,980,185
Lawn mowers, total.....	693,638	4,937,134		3,467,266
Hand.....	683,961	3,359,024	814,009	2,982,043
Power and other.....	9,677	1,628,110		485,223
Leather-working machinery (other than shoe machinery).....		1,005,161		746,645
Metal-working machinery, total.....		53,837,585		13,529,573
Rod-working and wire-working machinery.....		1,545,461		296,872
Rolling-mill machinery.....		29,294,890		4,454,881
Sheet-metal-working machinery, total.....		13,977,226		7,133,467
Can-making machinery.....		10,923,838		5,291,490
Other sheet-metal-working machinery.....		3,053,388		1,841,977
Wire-drawing machines.....		3,233,889		390,515
Other metal-working machinery.....		5,836,119		1,253,838
Mining machinery (not including well-drilling).....		22,770,116		8,775,664
Oil-mill machinery, cottonseed and other.....		2,789,836		2,109,510
Oil-refinery machinery.....		7,931,446		4,807,179
Packaging machines, total.....		5,662,345		3,696,914
Number reported.....	36,778	2,609,043		
Number not reported.....		3,053,302		3,696,914
Packing-house machinery, total.....		5,316,881		2,755,760
Meat-packing machinery.....		1,996,909		1,453,885
Other packing-house machinery.....		3,319,972		1,301,875
Paint-making machinery.....		899,369		353,330
Paper-container machines, total.....		5,300,469		
Bag-making and envelope-making.....		1,328,725		(^a)
Box-making.....		3,971,744		2,110,295
Paper-mill and pulp-mill machinery.....		14,829,149		8,695,868
Pharmaceutical machinery.....		868,435		702,929
Pneumatic machinery (not including pneumatic tools), total.....		18,436,953		7,610,956
Air compressors, total.....		15,890,536		7,214,331
Number reported.....	29,354	10,079,265	27,693	5,704,715
Number not reported.....		5,811,273		1,609,616
Other pneumatic machinery.....		2,546,417		390,625

For footnotes, see end of table.

TABLE 20.—MACHINERY NOT ELSEWHERE CLASSIFIED—PRODUCTION, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933—Con.

	1935		1933	
	Number	Value	Number	Value
Machinery—Continued.				
Pulverizers, other than fuel pulverizers, total.....		\$2,128,139		(⁵)
Number reported.....	154	158,909		
Number not reported.....		1,969,230		
Pulverizers for pulverized-fuel installations.....		1,037,677		(⁵)
Rubber-working machinery.....		4,832,987		\$3,347,472
Shoe machinery.....		10,244,804		8,129,749
Stokers, mechanical, total.....		11,536,644		5,629,110
Residential, total.....		5,469,284		1,361,107
Number reported.....	34,812	4,648,672	7,635	1,361,107
Number not reported.....		820,592		
Commercial and industrial, total.....		6,067,380		4,268,003
Number reported.....	5,412	4,506,112	3,259	2,671,856
Number not reported.....		1,561,268		1,596,147
Stone-working machinery.....		1,263,805		484,324
Sugar-mill machinery.....		1,260,337		794,158
Tobacco-manufacturing machinery (including cigar and cigarette).....		1,692,952		1,106,288
Transmission machinery.....		11,898,571		9,693,272
Welding machines and apparatus, acetylene.....		3,561,846		2,142,092
Well-drilling machinery, including oil-well.....		51,485,717		21,482,955
Other oil-well machinery and supplies.....		3,407,567		
Woodworking machinery.....		12,542,327		6,099,865
Other machinery, and machinery not reported by kind.....		59,548,166		¹⁰ 46,841,439
Rebuilt machinery.....		333,973		926,958

¹ No comparable figures available.
² Value of machinery classified in other industries, \$28,483,328; machine-shop products, \$27,132,317; castings made for sale, \$9,114,270; boiler-shop products, \$4,029,392; other products, principally stampings, sheet metal, and structural-iron work, \$12,231,691.
³ Value of products normally belonging to Machinery industry, so far as separately reported by establishments in other industries. Does not represent total value of machinery made in other industries, since such machinery was not separately reported in all cases.
⁴ Not strictly comparable with 1935 figure for corresponding item.
⁵ Not reported separately; included in value of "Other machinery, and machinery not reported by kind."
⁶ For 1935 figures for bread-slicing machines, see p. 1090.
⁷ Includes data for bread-slicing machines, so far as separately reported for 1933.
⁸ Data incomplete.
⁹ No data.
¹⁰ Includes value of all items covered by footnote 5.

TABLE 21.—MACHINERY—PRODUCTION, FOR THE UNITED STATES: 1935

[The following table is a special presentation of statistics for the broad group of products covered by the general designation "Machinery"]

	Value		Value
Machinery, total value ¹	\$4,828,149,356	Motocycles, side cars, bicycles, and parts.....	\$22,807,356
Agricultural implements and tractors ²	257,384,942	Motor vehicles and chassis.....	2,152,985,565
Aircraft and parts.....	40,882,201	Printers' machinery and equipment.....	50,403,842
Business machines ³	117,860,295	Pumps and pumping equipment.....	74,946,417
Cranes, and dredging, excavating, and road-building machinery and parts.....	69,634,116	Refrigerating and ice-making apparatus.....	226,611,463
Electrical machinery, apparatus, and supplies.....	918,215,929	Scales and balances, parts, and attachments.....	12,439,880
Engines, turbines, water wheels, and windmills and parts.....	102,309,570	Sewing machines, parts, and attachments.....	21,541,600
Locomotives.....	21,735,216	Textile machinery, parts, attachments, and accessories.....	64,898,573
Machine tools.....	87,411,763	Washing machines, driers, etc., and parts and accessories.....	62,650,146
Machinery not elsewhere classified.....	523,430,492		

¹ For detailed production figures, see reports for the respective industries. (The names of the industries are identical with, or similar to, the names of the classes of products as given in this table, except as specified in footnotes 2 and 3.)
² For detailed production figures, see report on "Farm Equipment."
³ Made in "Cash Registers, Adding and Calculating Machines, and Other Business Machines except Typewriters," and "Typewriters and Parts" industries. For detailed production figures, see reports for these industries.

TABLE 22.—PRINTERS' MACHINERY AND EQUIPMENT—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	238	3,051	9,884	\$6,901,854	\$13,582,101	\$13,048,850	\$51,559,758	\$33,510,003
California.....	13	29	73	77,718	132,311	180,058	592,313	412,255
Connecticut.....	5	90	350	249,728	456,780	409,291	1,373,473	964,182
Georgia.....	3	6	16	10,916	17,653	53,910	152,282	93,372
Illinois.....	46	718	2,106	1,859,291	2,975,366	3,653,651	11,755,148	8,101,497
Massachusetts.....	7	67	312	243,176	389,509	573,905	1,773,232	1,199,327
Michigan.....	11	162	513	272,236	555,949	593,006	2,208,266	1,705,230
Missouri.....	10	19	34	43,889	42,345	59,823	240,691	181,168
New Jersey.....	14	247	1,116	593,877	1,665,444	1,193,763	4,496,621	3,297,853
New York.....	53	932	3,061	1,742,405	4,377,229	3,223,671	16,527,675	13,304,094
Ohio.....	15	216	826	516,871	1,123,243	1,181,250	4,722,584	3,541,304
Pennsylvania.....	19	334	772	739,441	977,611	918,839	3,914,677	2,995,833
Texas.....	4	7	10	15,925	11,572	20,717	80,963	60,246
Wisconsin.....	5	60	204	151,650	248,363	276,021	1,044,710	768,639
Other States.....	33	164	491	384,731	608,726	705,915	2,536,823	1,830,903

¹ Colorado, 1 establishment; District of Columbia, 1; Indiana, 2; Iowa, 2; Kansas, 2; Kentucky, 4; Louisiana, 1; Maine, 2; Maryland, 3; Minnesota, 6; Nebraska, 1; New Hampshire, 2; North Carolina, 1; Oklahoma, 2; Oregon, 1; Tennessee, 1; Washington, 1. See sec. 23, p. 12.

TABLE 23.—PRINTERS' MACHINERY AND EQUIPMENT—WAGE EARNERS, BY MONTHS, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States.....	9,947	9,377	9,486	9,608	9,719	9,734	9,830	9,770	10,079	10,332	10,312	10,473	10,647
<i>States</i>													
California.....	73	66	66	71	72	76	73	77	92	70	71	70	68
Connecticut.....	350	354	347	342	336	335	337	341	343	342	347	335	333
Georgia.....	16	16	16	15	16	16	16	16	16	16	17	16	16
Illinois.....	2,106	1,870	1,906	1,999	2,033	2,039	2,116	2,049	2,191	2,256	2,243	2,294	2,279
Kentucky.....	47	39	39	43	43	43	43	43	53	53	53	55	54
Maryland.....	13	13	13	13	13	13	14	14	14	14	13	13	13
Massachusetts.....	312	309	307	311	312	308	307	307	300	306	318	328	327
Michigan.....	513	408	406	414	434	449	471	482	539	603	634	649	664
Minnesota.....	141	99	108	115	158	157	153	151	150	149	148	145	162
Missouri.....	34	32	31	33	32	32	33	34	35	35	37	37	37
New Jersey.....	1,156	1,095	1,160	1,072	1,095	1,116	1,144	1,151	1,246	1,249	1,147	1,146	1,248
New York.....	3,060	3,110	3,086	3,094	3,070	3,056	3,018	3,009	2,990	3,037	3,054	3,076	3,118
Ohio.....	826	734	743	797	803	739	786	792	799	877	906	938	945
Pennsylvania.....	797	745	760	776	784	736	804	795	795	803	826	840	846
Texas.....	10	8	9	10	10	10	10	10	10	11	11	11	10
Wisconsin.....	204	212	214	217	218	213	206	209	209	214	189	175	170

¹ As the averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 22, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

1307

MACHINE TOOLS

[A preliminary report for this industry was issued Feb. 18, 1937]

Description of the industry.—The Machine Tools industry embraces establishments engaged primarily in the manufacture of the power-driven machines generally covered by the designation "machine tools." It conforms closely to the definition given in the Tariff Act approved September 21, 1922, paragraph 372, page 32, namely, "any machine operating other than by hand power which employs a tool for work on metal," but covers bending machines also. Certain types of machines designed for working metal—especially sheet-metal-working machines, welding machines, wire-drawing machines, and wireworking machines—do not come within the terms of this definition and consequently are classified elsewhere.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	259	232	279	280	11.6	-7.5
Proprietors and firm members.....	36	18	(1)	42	(*)	(*)
Salaried personnel, total ¹	7,291	(2)	(1)	8,865	(2)	-17.3
Salaried officers of corporations.....	531	(2)	(1)	575	(2)	-7.7
Supervisory, technical, and clerical employees.....	6,760	3,886	(1)	8,290	74.0	-13.5
Salaries paid, total ²	\$15,121,262	(2)	(1)	\$24,493,039	(2)	-33.3
To salaried officers of corporations.....	\$3,431,782	(2)	(1)	\$5,443,691	(2)	-37.0
To supervisory, technical, and clerical employees.....	\$11,689,480	\$6,139,509	(1)	\$19,049,348	90.4	-33.6
Wage earners (average for year) ³	28,185	12,714	21,262	47,391	121.7	-40.5
Wages.....	\$37,260,518	\$12,596,212	\$25,149,816	\$76,410,237	195.8	-51.2
Cost of materials, etc., total.....	36,347,430	10,844,323	21,900,879	64,284,022	235.2	-43.5
Cost of materials and supplies.....	34,037,308	(1)	(1)	60,898,645	(1)	-44.1
Cost of fuel.....	1,100,600	(1)	(1)	1,550,721	(1)	-29.0
Cost of purchased electric energy.....	1,209,522	(1)	(1)	1,834,656	(1)	-34.1
Value of products.....	121,832,570	41,433,523	81,286,568	244,578,088	194.0	-50.2
Value added by manufacture ⁷	85,485,140	30,589,200	59,385,689	130,294,066	179.5	-52.6

*Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,408; salaries, \$4,087,262. Technical, 1,019; salaries, \$2,345,760. Clerical, 4,333; salaries, \$5,250,458. See sec. 10, p. 7.

⁵ Supervisory, 882; salaries, \$2,521,340. Clerical and other, 3,004; salaries, \$3,618,169. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

1318

MACHINE-TOOL ACCESSORIES AND MACHINISTS' PRECISION TOOLS

[A preliminary report for this industry was issued June 3, 1937]

Description of the industry.—The Machine-Tool Accessories and Machinists' Precision Tools industry, as constituted for Census purposes, embraces establishments whose chief products are (1) attachments and accessories for machine tools, such as dies, jigs, fixtures, special tools, milling cutters, taps and dies, twist drills, reamers, etc., and (2) precision measuring tools, such as micrometers, verniers, gauges, etc.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	731	587	713	722	24.5	1.2
Proprietors and firm members.....	352	211	(1)	406	60.8	-13.3
Salaried personnel, total ²	4,084	(3)	(1)	3,885	(3)	5.1
Salaried officers of corporations.....	836	(3)	(1)	808	(3)	3.6
Supervisory, technical, and clerical employees.....	3,248	2,250	(1)	3,077	44.4	5.6
Salaries paid, total ²	\$10,299,771	(3)	(1)	\$12,825,679	(3)	-19.7
To salaried officers of corporations.....	\$4,135,566	(3)	(1)	\$5,549,999	(3)	-25.6
To supervisory, technical, and clerical employees.....	6,164,205	3,453,631	(1)	7,275,680	78.5	-15.3
Wage earners (average for year) ⁶	23,188	12,757	17,533	26,682	81.4	-13.3
Wages.....	\$34,413,847	\$14,159,179	\$26,558,780	\$51,084,540	143.0	-32.6
Cost of materials, etc., total.....	26,904,298	10,882,467	16,319,780	26,992,631	147.2	-3
Cost of materials and supplies.....	25,032,257	(1)	(1)	24,807,438	(1)	.9
Cost of fuel.....	550,503	(1)	(1)	734,397	(1)	-25.0
Cost of purchased electric energy.....	1,321,538	(1)	(1)	1,450,796	(1)	-8.9
Value of products.....	96,837,534	44,383,246	69,033,154	144,410,890	118.2	-32.9
Value added by manufacture ⁷	69,933,236	33,500,779	52,713,374	117,418,259	108.8	-40.4

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 901; salaries, \$2,697,516. Technical, 326; salaries, \$753,346. Clerical, 2,021; salaries, \$2,713,343. See sec. 10, p. 7.

⁵ Supervisory, 623; salaries, \$1,457,499. Clerical and other, 1,627; salaries, \$1,996,132. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 13, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	731	4,084	23,138	\$10,299,771	\$34,413,847	\$26,904,298	\$96,837,534	\$69,933,236
California.....	16	9	88	19,718	129,524	80,543	351,345	270,802
Connecticut.....	40	265	1,083	601,306	1,304,078	837,992	4,066,356	3,228,364
Illinois.....	78	849	1,824	901,009	2,417,785	2,114,746	6,500,314	4,685,568
Indiana.....	30	86	530	213,441	851,534	371,380	1,859,094	1,487,714
Massachusetts.....	43	572	2,774	1,174,797	3,074,489	2,451,968	10,498,940	8,046,972
Michigan.....	175	1,419	10,259	4,117,240	17,734,424	15,140,404	47,421,779	32,281,375
Minnesota.....	11	16	78	24,136	110,403	68,775	272,495	208,720
Missouri.....	8	19	108	56,147	104,621	142,306	415,333	273,027
New Jersey.....	43	99	587	266,399	851,073	306,914	1,874,505	1,507,591
New York.....	81	185	901	442,456	1,229,025	695,137	3,229,809	2,534,672
Ohio.....	111	670	3,142	1,689,808	4,527,110	3,121,529	14,068,087	10,046,558
Oregon.....	3	3	17	3,691	19,031	17,544	49,789	32,245
Pennsylvania.....	39	173	903	331,408	1,041,337	757,327	2,946,421	2,189,094
Rhode Island.....	8	109	360	199,453	383,936	279,098	1,238,057	958,959
Vermont.....	3	24	98	40,100	87,940	68,165	323,391	255,226
Wisconsin.....	30	58	295	137,776	400,588	278,400	1,082,072	755,672
Other States ¹	12	28	87	71,886	112,299	119,070	389,747	270,677

¹ Delaware, 1 establishment; District of Columbia, 1; Iowa, 2; Kentucky, 1; Maryland, 1; New Hampshire, 1; Texas, 2; Washington, 3. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935.....	23,137	21,388	21,666	22,161	22,588	23,062	23,449	24,106	25,080	24,879	23,603	22,983	22,643
1933.....	12,757	(*)	(*)	8,792	(*)	(*)	10,330	(*)	(*)	15,630	(*)	(*)	19,793
States, 1935													
California.....	88	95	91	99	95	86	89	93	88	77	86	83	79
Connecticut.....	1,083	901	969	1,043	1,072	1,088	1,089	1,095	1,109	1,123	1,134	1,172	1,199
Illinois.....	1,824	1,518	1,642	1,863	1,794	1,841	1,845	1,780	1,787	1,831	1,907	2,026	2,087
Indiana.....	580	470	499	514	443	452	467	568	557	605	621	604	569
Massachusetts.....	2,769	2,519	2,623	2,700	2,742	2,799	2,781	2,761	2,768	2,821	2,840	2,913	2,956
Michigan.....	10,264	9,929	9,707	9,668	10,064	10,346	10,712	11,222	11,948	11,457	10,022	9,243	8,845
Minnesota.....	78	62	70	77	81	79	80	76	82	86	89	77	81
Missouri.....	108	118	123	118	105	110	102	100	108	103	97	101	109
New Jersey.....	591	500	525	587	619	617	605	638	630	618	592	586	577
New York.....	901	774	797	880	878	927	949	924	945	924	915	945	949
Ohio.....	3,137	2,858	2,917	2,876	2,968	2,997	2,996	3,146	3,337	3,374	3,426	3,407	3,347
Oregon.....	17	18	16	16	18	16	17	17	14	16	15	17	21
Pennsylvania.....	903	867	907	893	896	901	875	872	913	940	952	918	906
Rhode Island.....	369	310	321	340	345	358	375	360	342	415	429	414	422
Vermont.....	93	90	91	93	93	92	93	93	94	93	93	95	96
Washington.....	19	14	16	17	16	19	18	19	19	21	22	23	22
Wisconsin.....	295	284	319	316	291	265	288	285	301	304	291	292	304

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

¹ As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Machine-Tool Accessories and Machinists' Precision Tools industry, all products, total value.....	\$96,837,534	\$44,383,246	\$69,033,154	\$144,410,890
2. Machine-tool accessories and machinists' precision tools.....	82,750,736	38,740,878	59,958,923	134,273,247
3. Other products (not normally belonging to the industry, value).....	12,687,808	4,929,567	7,041,659	7,832,392
4. Receipts for contract, custom, and repair work.....	1,398,990	712,801	1,432,572	2,305,251
5. Machine-tool accessories, etc., made as secondary products in other industries, value.....	22,188,135	8,137,478	14,592,331	48,865,701
Machine-tool accessories and machinists' precision tools, aggregate value (sum of 2 and 5).....	104,938,871	46,878,356	74,551,254	183,138,948
Attachments and fixtures, total value.....	58,490,850	25,894,336	47,863,095	98,143,962
General equipment:				
Chucks, lathe.....	705,247		574,716	2,725,483
Chucks, magnetic.....	164,442		84,908	360,495
Chucks, drill, and chucks and face plates not reported separately.....	1,003,433	714,031		
Vises (machine).....	161,308	81,099	339,964	1,311,792
Attachments for machine tools:				
Lathe (engine).....	228,625	103,721	200,168	
Boring-machine.....	110,127		215,628	
Drilling-machine.....	429,143	804,637	374,882	1,103,214
Milling-machine.....	488,594		(1)	
Other machine-tool attachments.....	627,735	98,563	1,839,643	
Special equipment:				
Jigs and fixtures.....	6,319,615		4,276,792	20,014,120
Subpresses, punches, dies, etc., for punch, stamping, and forming presses, etc.....	17,753,629		27,708,313	40,510,762
Semifinished products (die sets) and accessories:				
Die sets.....	1,420,730		(2)	(2)
Leader pins and bushings, dowel pins, die springs, jig bushings, etc.....	964,928	22,500,685	(2)	(2)
Die-casting and drop-forging dies.....	1,697,789		1,331,583	1,270,764
Tools for screw and automatic machines (box tools, hollow mills, work and tool holders, etc.).....	1,571,231		1,233,659	4,050,307
Specially designed tools.....	5,427,853		2,742,557	5,657,978
Special equipment not reported separately.....	14,434,151		3,474,140	4,629,382
Special machinery (other than machine tools) and model and experimental work.....	1,981,446	(3)	2,280,993	5,069,584
All other attachments and fixtures.....	3,006,824	1,691,600	2,094,777	5,254,469
Small cutting tools and tool holders, total value.....	39,366,670	17,609,255	(4)	(4)
Arbors and collars.....	155,059		99,449	364,716
Collets or sockets, etc. (lathe, milling-machine, and drill).....	343,445	164,477	92,602	345,523
Counterbores.....	507,095	56,093	323,358	1,116,719
Countersinks and combination countersinks and drills.....	355,780	104,399	193,336	1,65,222
Drills, carbon.....	1,938,215		1,845,137	4,096,629
Drills, high-speed.....	7,043,024	4,508,073	3,052,284	9,911,434
Hobbing cutters.....	2,131,237	483,784	1,106,139	2,078,916
Lathe, planer, and shaper tools (not including tool holders).....	442,559	(2)	540,261	1,140,643
Milling cutters (all types), end mills, slotting cutters, etc., solid and with inserted teeth):				
Solid.....	5,262,302	2,446,673	3,325,522	
Inserted-tooth.....	1,786,489	1,211,614	804,833	10,704,526
Milling cutters, drills, and reamers, not reported separately.....	1,112,420			
Reamers (solid, expansion, and inserted-blade):				
Carbon.....	1,093,671		810,940	3,114,356
High-speed.....	2,090,308	1,220,359	1,334,437	5,042,555

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1929 TO 1935—Continued

	1935	1933	1931	1929
Machine-tool accessories—Continued.				
Small cutting tools and tool holders—Continued.				
Threading tools:				
Taps and dies (not pipe-threading):				
Taps, carbon.....	\$1, 032, 483	\$1, 847, 588	(\$1, 157, 283	\$3, 526, 272
Taps, high-speed.....	1, 873, 829				1, 225, 271	3, 009, 694
Dies, carbon.....	862, 881	651, 534	670, 232	1, 337, 119
Dies, high-speed.....	650, 002				185, 778	1, 362, 678
Chasers.....	1, 780, 240	1, 017, 760	1, 345, 633	3, 251, 469
Pipe-threading:				
Taps.....	423, 787	405, 490	261, 046	300, 435
Dies.....	475, 403	450, 339	532, 425	1, 346, 867
Chasers.....	134, 241	(²)	(²)	(²)
Pipe stocks complete with dies.....	1, 305, 541	649, 890	1, 083, 890	2, 338, 528
All other small cutting tools, tool holders, mandrels, etc.....	5, 657, 569	2, 285, 282	2, 663, 696	
Precision measuring tools (micrometer and vernier).....	1, 182, 576	185, 868	2, 074, 922	
Gages (plug, ring, snap, thread, etc.).....	1, 331, 676	761, 060		
Other measuring tools.....	1, 574, 575	617, 760	1, 209, 165	
Miscellaneous equipment and accessories not included above:				30, 461, 286
Wheel-truing (diamond-point and other).....	671, 270	(³)		
Other.....	2, 321, 254	(³)	750, 520	
Machine-tool accessories, etc., not reported by kind.....		1, 910, 077		

¹ Figure for "Milling-machine" included in that for "Other machine-tool attachments."

² Not reported separately.

³ Figure for "Special machinery (***) and models and experimental work" included in that for

"Special equipment."

⁴ Data incomplete.

⁵ Countersinks only; not comparable with figures for subsequent years.

⁶ Revised.

1307

MACHINE TOOLS

[A preliminary report for this industry was issued Feb. 18, 1937]

Description of the industry.—The Machine Tools industry embraces establishments engaged primarily in the manufacture of the power-driven machines generally covered by the designation "machine tools." It conforms closely to the definition given in the Tariff Act approved September 21, 1922, paragraph 372, page 32, namely, "any machine operating other than by hand power which employs a tool for work on metal," but covers bending machines also. Certain types of machines designed for working metal—especially sheet-metal-working machines, welding machines, wire-drawing machines, and wireworking machines—do not come within the terms of this definition and consequently are classified elsewhere.

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Number of establishments.....	259	232	279	280	11.6	-7.5
Proprietors and firm members.....	36	18	(1)	42	(*)	(*)
Salaried personnel, total ¹	7,291	(2)	(1)	8,865	(2)	-17.3
Salaried officers of corporations.....	531	(2)	(1)	575	(2)	-7.7
Supervisory, technical, and clerical employees.....	6,760	3,886	(1)	8,290	74.0	-13.5
Salaries paid, total ²	\$15,121,262	(2)	(1)	\$24,493,039	(2)	-33.3
To salaried officers of corporations.....	\$3,431,782	(2)	(1)	\$5,443,691	(2)	-37.0
To supervisory, technical, and clerical employees.....	\$11,689,480	\$6,139,509	(1)	\$19,049,348	90.4	-33.6
Wage earners (average for year) ³	28,185	12,714	21,262	47,391	121.7	-40.5
Wages.....	\$37,260,518	\$12,596,212	\$25,149,816	\$76,410,237	195.8	-51.2
Cost of materials, etc., total.....	36,347,430	10,844,323	21,900,879	64,284,022	235.2	-43.5
Cost of materials and supplies.....	34,037,308	(1)	(1)	60,898,645	(1)	-44.1
Cost of fuel.....	1,100,600	(1)	(1)	1,550,721	(1)	-29.0
Cost of purchased electric energy.....	1,209,522	(1)	(1)	1,834,656	(1)	-34.1
Value of products.....	121,832,570	41,433,523	81,286,568	244,578,088	194.0	-50.2
Value added by manufacture ⁷	85,485,140	30,589,200	59,385,689	180,294,066	179.5	-52.6

*Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

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⁵ Supervisory, 882; salaries, \$2,521,340. Clerical and other, 3,004; salaries, \$3,618,169. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States	259	7,291	28,185	\$16,121,262	\$37,260,518	\$36,347,430	\$121,832,570	\$85,485,140
Connecticut	18	960	3,582	1,777,701	5,214,556	3,567,760	13,794,609	10,226,849
Illinois	36	838	3,050	1,769,908	3,966,537	4,168,453	14,331,187	10,162,734
Indiana	10	347	721	676,135	876,944	1,228,293	3,680,201	2,461,908
Massachusetts	21	592	1,969	1,225,272	2,741,522	3,079,146	10,879,831	7,800,685
Michigan	25	282	1,216	602,978	1,692,443	1,726,004	5,742,548	4,016,544
Missouri	3	21	62	51,604	76,089	53,222	171,740	118,518
New Jersey	8	75	230	217,399	324,839	355,889	1,147,019	791,180
New York	17	403	1,483	930,387	1,952,952	1,310,658	5,715,659	4,405,001
Ohio	64	2,099	7,888	4,444,541	10,736,337	11,563,047	34,022,390	22,469,343
Pennsylvania	19	512	1,857	940,760	2,116,801	2,288,241	8,345,590	6,057,349
Vermont	5	232	1,071	612,831	1,473,625	1,852,133	5,333,574	3,481,441
Wisconsin	16	376	1,283	729,225	1,630,021	1,436,009	5,067,147	3,581,138
Other States ¹	17	554	3,783	1,142,523	4,657,852	3,678,575	13,601,075	9,922,500

¹ California, 2 establishments; Iowa, 2; Kentucky, 2; Maryland, 2; Minnesota, 2; New Hampshire, 2; Rhode Island, 5. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935	28,106	22,928	24,090	24,970	25,400	26,100	26,948	28,374	30,068	31,159	31,902	32,370	32,962
1933	12,714	(*)	(*)	9,466	(*)	(*)	10,399	(*)	(*)	14,892	(*)	(*)	18,255
States, 1935													
Connecticut	3,499	2,773	2,972	3,080	3,097	3,157	3,356	3,374	3,734	3,905	4,069	4,106	4,305
Illinois	3,050	2,732	2,785	2,862	2,954	3,028	3,060	3,061	3,142	3,159	3,220	3,303	3,293
Indiana	721	715	735	644	622	601	654	691	720	771	809	845	848
Massachusetts	1,958	1,461	1,605	1,642	1,721	1,751	1,805	1,927	2,142	2,265	2,303	2,410	2,470
Michigan	1,216	1,178	1,196	1,164	1,120	1,162	1,134	1,149	1,219	1,208	1,311	1,316	1,357
Missouri	62	57	59	62	58	60	51	60	63	73	73	69	63
New Jersey	230	202	205	220	228	227	215	217	232	249	255	250	262
New York	1,486	1,174	1,223	1,288	1,362	1,383	1,399	1,483	1,601	1,658	1,744	1,762	1,760
Ohio	7,888	6,128	6,525	6,996	7,155	7,354	7,446	8,080	8,512	8,880	9,138	9,157	9,286
Pennsylvania	1,857	1,631	1,637	1,642	1,632	1,649	1,781	1,954	2,058	2,060	2,066	2,089	2,087
Rhode Island	2,829	2,247	2,321	2,380	2,505	2,685	2,787	2,904	2,984	3,134	3,215	3,336	3,448
Vermont	1,071	847	946	979	851	863	950	1,102	1,199	1,229	1,248	1,296	1,339
Wisconsin	1,283	1,000	1,077	1,157	1,203	1,221	1,311	1,369	1,452	1,419	1,394	1,363	1,426

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

¹ As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933

	1935		1933	
	Number	Value	Number	Value
1. Machine Tools industry, all products, total value.....		\$121,832,570		\$41,433,523
2. Machine tools (including replacement and repair parts)...		94,647,949		28,060,474
3. Other products (not normally belonging to the industry), value, and receipts from sale of electric energy.....		23,871,500		11,210,363
4. Receipts for contract and repair work.....		3,313,112		1,202,686
5. Machine tools made as secondary products in other industries.....		4,334,687		1,670,027
Machine tools (including replacement and repair parts), aggregate value (sum of 2 and 5).....		98,982,636		20,630,501
Bending machines.....	629	581,755	343	226,358
Boring machines:				
Horizontal.....	321	1,592,222	98	440,164
Vertical:				
Number reported.....	24	306,007	20	78,563
Number not reported.....		33,670		
Special types:				
Boring, drilling, and milling combined.....	80	1,178,337		
Other, including jig borers.....	97	719,990	(?)	1,457,324
Boring and turning combined.....	82	699,382		
Vertical turret lathes.....				
Broaching machines (other than keyseaters):				
Number reported.....	219	668,210	(?)	(?)
Number not reported.....		150,880		
Cutting-off machines (see p. 1104).				
Drilling machines:				
Horizontal.....	140	704,159	(?)	304,017
Vertical:				
Multiple-spindle other than sensitive:				
Number reported.....	360	1,143,970	45	154,137
Number not reported.....		64,833		
Standard.....		398,042	233	105,132
Sensitive (including bench type):				
Single-spindle (including bench type):				
Number reported.....	8,398	450,295	3,218	37,018
Number not reported.....		208,092		
Multiple-spindle.....	428	613,460	56	62,268
Horizontal and vertical not reported by number.....		557,815		
Radial:				
Number reported.....	250	774,272	(?)	304,106
Number not reported.....		324,426		
Combined vertical and horizontal.....	42	252,066		
Drilling and tapping.....		752,036		
Other special, including automatic and universal-head:			(?)	669,237
Number reported.....	173	539,392		
Number not reported.....		423,737		
Honing machines:				
Number reported.....	118	383,129	55	125,320
Number not reported.....		30,300		
Forging machines:				
Drop hammers and presses (impression-die):				
Number reported.....	71	494,200		
Number not reported.....		54,125		
Forging hammers (flat-die):			(?)	477,104
Number reported.....	18	41,147		
Number not reported.....		11,422		
Other, including bulldozers and upsetters.....		1,517,604		
Gear-cutting machines:				
Number reported.....	896	4,612,020	(?)	1,029,765
Number not reported.....		61,329		
Grinding machines:				
External-cylindrical:				
Number reported.....	618	3,185,921		
Number not reported.....		309,683		
Universal.....	208	646,973	319	1,045,153
Surface.....	1,113	1,933,055	107	329,743
Cutter and tool.....	590	738,700	172	203,606
Internal-cylindrical.....	503	2,588,024		
Drill.....	302	101,564		
Snagging or tool grinders (hand), wet or dry:				
Number reported.....	1,188	73,550	(?)	2,048,158
Number not reported.....		91,965		
Other, including disk.....		3,541,940		

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES:
1935 AND 1933—Continued

	1935		1933	
	Number	Value	Number	Value
Machine tools—Continued.				
Lathes:				
Bench (plain and screw-cutting).....	12, 174	\$1, 153, 495		
Engine:				
General-utility:				
16-inch swing and under.....	1, 935	2, 249, 289	} 3, 283	\$1, 424, 973
Over 16-inch swing but not over 22-inch.....	504	1, 058, 129		
Over 22-inch swing but not over 36-inch.....	96	490, 311		
Heavy-duty, over 36-inch swing.....	14	157, 869		
Gap.....	18	32, 923		
Automatic single-spindle, bar and chucking:				
Number reported.....	823	2, 298, 028	}	
Number not reported.....		959, 174		
Automatic multiple-spindle:				
Bar:				
Number reported.....	511	2, 971, 756	} 242	1, 185, 203
Number not reported.....		632, 103		
Chucking:				
Number reported.....	294	2, 548, 015	}	
Number not reported.....		576, 818		
Turret:				
Horizontal hand-operated:				
Ram-type.....	646	1, 523, 037	} 201	516, 372
Saddle-type, standard and heavy-duty:				
Number reported.....	290	1, 699, 923		
Number not reported.....		413, 789		
Other lathes, including polishing and buffing (bench and pedestal) and hand or speed, but not including vertical-turret (see p. 1102).....	(*)	791, 861	(*)	768, 277
Milling machines:				
Plain.....	410	990, 427	135	359, 515
Universal.....	582	1, 008, 090	120	294, 569
Vertical.....	406	1, 410, 636	69	191, 294
Planer-type.....	81	675, 325		
Other, including automatic and Lincoln-type:				
Number reported.....	651	2, 241, 181	} (*)	495, 893
Number not reported.....		30, 124		
Planers (see p. 1104).				
Portable tools:				
Drills:				
Electric:				
Number reported.....	70, 730	2, 336, 920	} 19, 091	775, 357
Number not reported.....		219, 160		
Pneumatic:				
Number reported.....	7, 449	1, 035, 621	5, 024	633, 488
Number not reported.....		1, 457, 340		
Grinders:				
Electric:				
Number reported.....	23, 112	1, 019, 194	5, 968	200, 541
Number not reported.....				60, 025
Pneumatic.....	4, 534	486, 477	2, 344	205, 698
Hammers (chipping, riveting, calking, etc.):				
Electric.....	965	115, 932	428	60, 821
Pneumatic:				
Number reported.....	11, 830	713, 060	10, 824	568, 456
Number not reported.....		156, 359		
Flexible-shaft:				
Number reported.....	2, 563	289, 760	}	
Number not reported.....		188, 100		
Other (including portable motor-driven garage equipment), and those not reported by kind:				
Number reported.....	14, 737	790, 748	} (*)	2, 302, 836
Number not reported.....		3, 624, 882		
Presses (except forging):				
Forming and stamping:				
Number reported.....	1, 635	3, 912, 867	755	1, 105, 799
Number not reported.....		556, 953		325, 767
Punch:				
Number reported.....	384	520, 697	(*)	99, 971
Number not reported.....		112, 776		
Other.....		1, 222, 901	(*)	164, 060
Punching machines (see p. 1104).				
Riveting machines (not portable):				
Number reported.....	487	129, 812		
Number not reported.....		362, 986		55, 185

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES:
1935 AND 1933—Continued

	1935		1933	
	Num-ber	Value	Num-ber	Value
Machine tools—Continued.				
Shapers:				
Horizontal:				
20-inch stroke and under.....	248	\$402, 633	35	\$58, 458
Over 20-inch stroke but not over 28-inch.....	81	179, 987		
Over 28-inch stroke.....	58	130, 918		
Vertical.....	76	208, 733		
Slotters.....				
Shears:				
Alligator, rotary, and combination punch and shear....	355	296, 372	105	124, 022
Straight.....	482	549, 253		
Other, including hand-lever and foot-power (see below)				
Threading machines:				
Other than pipe-threading:				
Die and rolling types.....	316	426, 984	134	132, 293
Milling type.....	36	188, 812		
Tapping machines:				
Number reported.....	313	321, 906		
Number not reported.....		251, 563		
Pipe cutting and threading machines:				
Single-head.....	718	656, 525	4 359	198, 934
Multiple-head (number not reported).....		139, 877		
Cutting-off machines:				
Band-saw.....	87	61, 125		
Hack-saw.....	879	344, 754		
Other, including cold-saw.....	44	128, 786		
Planers:				
Standard, over 36-inch.....	16	251, 438		
Open-side.....	25	172, 989		
Standard, 36-inch and under.....				
Other.....	101	128, 570		3, 437, 683
Punching machines (not portable).....		61, 701		
Shears, other than those specified above, including hand-lever and foot-power:				
Number reported.....	522	36, 398		
Number not reported.....		5, 708		
All other machine tools (number not reported).....		3, 147, 851		
Replacement and repair parts.....		11, 570, 873		5, 694, 269

¹ Revised.² No comparable data.³ Not strictly comparable with corresponding figure for 1935 because of changes in form of questionnaire.⁴ Estimated in small part.

1307

PUMPS (HAND AND POWER) AND PUMPING EQUIPMENT

[A preliminary report for this industry was issued Dec. 3, 1936]

Description of the industry.—The principal products of the establishments classified in this industry are hand and power pumps of all kinds, such as water pumps, gasoline pumps, air pumps (except compressors), oil pumps, hydraulic rams, spraying outfits (complete units), and spray pumps; domestic water systems; and pump jacks, pump cylinders, and other pumping equipment.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 to 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	326	257	303	322	26.8	1.2
Proprietors and firm members.....	65	52	(1)	101	(*)	-35.6
Salaried personnel, total ¹	4,965	(²)	(1)	6,921	(³)	-28.3
Salaried officers of corporations.....	448	(²)	(1)	496	(³)	-9.7
Supervisory, technical, and clerical employees.....	⁴ 4,517	⁵ 3,997	(1)	6,425	13.0	-29.7
Salaries paid, total ¹	\$9,689,947	(²)	(1)	\$16,665,780	(³)	-41.9
To salaried officers of corporations..	\$2,143,602	(²)	(1)	\$3,506,345	(³)	-38.9
To supervisory, technical, and clerical employees.....	⁴ \$7,546,345	⁵ \$6,333,098	(1)	\$13,159,405	19.2	-42.7
Wage earners (average for year) ⁶	14,990	11,110	15,156	23,106	34.9	-35.1
Wages.....	\$17,322,459	\$10,379,492	\$17,106,556	\$34,920,261	66.9	-50.4
Cost of materials, etc., total.....	\$35,223,860	\$20,257,029	\$33,734,650	\$66,802,372	73.9	-47.3
Cost of materials and supplies.....	33,879,892	(1)	(1)	64,633,270	(1)	-47.6
Cost of fuel.....	772,589	(1)	(1)	1,248,288	(1)	-38.1
Cost of purchased electric energy...	571,379	(1)	(1)	920,834	(1)	-37.9
Value of products.....	\$6,965,124	49,002,021	\$4,353,391	164,009,397	77.5	-47.0
Value added by manufacture ⁷	51,741,264	23,744,992	50,618,741	97,207,025	80.0	-46.8

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 821; salaries, \$2,333,585. Technical, 472; salaries, \$1,023,779. Clerical, 3,224; salaries, \$4,188,981. See sec. 10, p. 7.

⁵ Supervisory, 678; salaries, \$2,001,980. Clerical and other, 3,319; salaries, \$4,331,118. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 12, p. 11.

PUMPS AND PUMPING EQUIPMENT

1107

TABLE 4.—PUMPS (HAND AND POWER) AND PUMPING EQUIPMENT—PRODUCTION, BY KIND, NUMBER, AND VALUE, 1935, AND BY KIND AND VALUE, 1933, FOR THE UNITED STATES

	1935		1933
	Number	Value	Value
1. Pumps (Hand and Power) and Pumping Equipment industry, all products, total value.....		\$86,965,124	\$49,002,021
2. Pumps and pumping equipment.....	56,150,504	56,150,504	32,577,564
3. Spare parts and attachments.....	10,597,908	10,597,908	4,924,774
4. Other products (not normally belonging to the industry).....	14,655,680	14,655,680	7,288,360
5. Amount received for repair work.....	5,561,032	5,561,032	4,211,323
6. Pumps and pumping equipment made as secondary products in other industries, value.....	8,198,005	8,198,005	1,087,657
Pumps and pumping equipment, aggregate value (2, 3, and 6).....	74,946,417	74,946,417	40,589,905
Hand pumps, except gasoline, grease, oil, and spray:			
Air pumps (tire and other).....	1,858,610	930,216	537,099
Water pumps:			
Pitcher.....	237,795	319,819	} 469,986
Other.....	90,082	511,526	
Other hand pumps.....	74,740	259,727	210,365
Windmill pumps.....	42,157	335,673	159,597
Gasoline-dispensing pumps (hand and power):			
Stationary:			
With meters:			
Computing type.....	53,087	9,076,219	} 7,420,260
Noncomputing type.....	17,679	2,511,688	
Without meters.....	10,394	472,312	
Portable, other than airport.....	87	4,706	
Airport fueling units.....	618	104,200	
Grease pumps, hand and power.....	64,925	570,055	
Grease guns, hand and power:			
Number reported.....	135,805	1,423,679	} 1,394,341
Number not reported.....		213,481	
Lubricating-oil outfits and pumps.....		2,599,017	
Oil pumps, hand and power (filling-station only).....	72,334	105,921	} 991,226
Kerosene pumps.....	3,658	80,845	
Water systems and pumps:			
Deep-well systems, complete:			
Number reported.....	18,920	2,442,475	} 1,618,905
Number not reported.....		196,950	
Shallow-well systems, complete:			
Under 250 gallons per hour.....	24,193	649,009	} 1,732,563
250 to 499 gallons per hour.....	55,487	2,017,469	
500 gallons per hour and over.....	7,425	462,044	
Pumps for water systems, made for sale separately:			
Deep-well.....	7,482	2,491,307	} 1,205,067
Shallow-well.....	6,286	365,788	
Oil-well pumps.....		1,543,196	1,004,200
Sewage, sand, sump, bilge, etc.:			
Number reported.....	10,472	902,310	} 529,339
Number not reported.....		164,918	
Vacuum pumps:			
Number reported.....	4,337	1,733,736	} 1,156,450
Number not reported.....		331,440	
Spraying and dusting outfits, complete:			
Paint.....		4,210,777	2,065,315
Chemical sprayers (for liquids):			
Hand, with tank, barrel, knapsack, etc. (except household):			
Number reported.....	627,500	970,720	} 1,061,306
Number not reported.....		211,578	
Power (including self-propelled and traction) ²		1,523,920	
Chemical dusters:			
Hand.....	85,285	174,153	} 94,752
Power (including self-propelled and traction) ²		254,583	
Spray pumps made for sale as such (not included above).....	65,023	267,652	256,771
Sprayers, hand (household and other small types):			
Number reported.....	6,041,118	761,261	} 885,818
Number not reported.....		90,272	
Spray guns or nozzles made for sale separately (for use with spraying outfits).....		320,957	(³)
Washers, automobile and other (hand and power) ²	931	195,160	75,227
Hydraulic rams.....	1,990	28,245	17,813
Power pumps not elsewhere specified:			
Centrifugal pumps:			
Horizontal type:			
Number reported.....	41,565	5,427,429	} 1,568,921
Number not reported.....		1,793,007	
Vertical type.....	2,833	1,001,859	

For footnotes, see end of table.

TABLE 4.—PUMPS (HAND AND POWER) AND PUMPING EQUIPMENT—PRODUCTION, BY KIND, NUMBER, AND VALUE, 1935, AND BY KIND AND VALUE, 1933, FOR THE UNITED STATES—Continued

	1935		1933
	Number	Value	Value
Pumps and pumping equipment—Continued.			
Power pumps not elsewhere specified—Continued.			
Reciprocating pumps:			
Direct-acting steam:			
Number reported.....	3,908	\$1,853,634	\$1,493,705
Number not reported.....		783,604	
Other reciprocating:			
Number reported.....	2,002	1,076,388	902,980
Number not reported.....		148,720	
Rotary pumps:			
Gear type:			
Number reported.....	129,886	1,950,997	1,282,536
Number not reported.....		496,207	
Screw type.....		665	
Other types (cam, disk, etc.):			
Number reported.....	12,385	681,864	832,743
Number not reported.....		349,758	
Power pumps not listed above:			
Number reported.....	23,450	1,593,462	1,684,749
Number not reported.....		2,529,059	
Pump jacks and pumping powers:			
Number reported.....	12,007	270,389	93,417
Number not reported.....		67,126	
Cylinders made for sale separately:			
Number reported.....	139,599	392,104	336,713
Number not reported.....		242,435	
Miscellaneous pumps, and pumps not reported by kind.....		1,248,274	1,780,139
Spare parts and attachments.....		10,736,381	4,024,774

¹ Revised.

² Figures combined to avoid disclosing exact or approximate production of individual establishments.

³ No data.

1319

RADIO APPARATUS AND PHONOGRAPHS

[A preliminary report for this industry was issued Feb. 3, 1937]

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of radio apparatus, phonographs, and accessories. Some radio-apparatus *parts* such as transformers, batteries, coils, condensers, etc., are, however, treated as products of the Electrical Machinery, Apparatus, and Supplies industry, as they are made by establishments classified in that industry and sold to manufacturers of radio apparatus.

Statistics for prior Census years.—In the Censuses for 1929 and earlier years, manufacturers of radio apparatus were classified in the Electrical Machinery, Apparatus, and Supplies industry, and manufacturers of phonographs were separately classified. No comparative figures for years prior to 1931 are, therefore, available for either industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1935, 1933, AND 1931

	1935	1933	1931	PERCENT OF INCREASE OR DECREASE (—)	
				1933-1935	1931-1933
Number of establishments.....	196	156	217	25.6	-28.1
Proprietors and firm members.....	27	22	(1)	(*)	(1)
Salaried personnel, total ²	7,363	(3)	(1)	(1)	(1)
Salaried officers of corporations.....	327	(3)	(1)	(3)	(1)
Supervisory, technical, and clerical employees.....	47,036	5,345	(1)	31.6	(1)
Salaries paid, total ²	\$14,818,208	(3)	(1)	(3)	(1)
To salaried officers of corporations.....	\$2,224,098	(3)	(1)	(3)	(1)
To supervisory, technical, and clerical employees.....	\$12,594,110	\$3,248,546	(1)	52.7	(1)
Wage earners (average for year) ⁴	44,796	32,879	36,490	36.2	-9.9
Wages.....	\$42,906,018	\$29,654,376	\$35,145,577	44.7	-15.6
Cost of materials, etc., total.....	103,487,190	58,520,587	88,402,858	76.8	-33.8
Cost of materials and supplies.....	101,874,371	(1)	(1)	(1)	(1)
Cost of fuel.....	719,162	(1)	(1)	(1)	(1)
Cost of purchased electric energy.....	893,657	(1)	(1)	(1)	(1)
Value of products.....	200,972,523	121,801,611	193,142,845	65.0	-36.9
Value added by manufacture ⁷	97,485,333	63,281,024	104,739,987	54.1	-39.6

* Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,271; salaries, \$4,134,548. Technical, 1,283; salaries, \$2,866,327. Clerical, 4,482; salaries, \$5,593,235. See sec. 10, p. 7.

⁵ Supervisory and other, 4,273; salaries, \$3,224,724. Clerical and other, 4,273; salaries \$5,023,822. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	196	7,363	44,796	\$14,818,208	\$42,906,018	\$103,487,190	\$200,972,623	\$97,485,333
California.....	31	226	385	419,633	425,477	2,447,223	4,041,241	1,594,018
Illinois.....	46	822	5,852	1,760,015	5,180,759	22,598,502	38,922,510	16,323,948
Indiana.....	10	176	2,433	314,681	1,759,282	5,962,803	9,870,719	3,907,916
Massachusetts.....	8	334	2,346	702,859	2,031,205	3,554,947	8,124,399	4,569,452
Michigan.....	5	143	673	265,194	457,476	2,626,683	4,251,654	1,624,971
Minnesota.....	5	23	70	38,479	45,941	182,241	339,790	157,549
New Jersey.....	16	3,240	14,189	6,843,487	13,818,274	17,957,450	45,380,351	27,422,904
New York.....	45	863	3,611	1,498,804	3,739,017	12,087,472	23,011,177	10,923,705
Ohio.....	12	301	1,637	477,791	1,236,464	5,805,492	8,251,201	2,445,709
Other States ¹	18	1,235	13,600	2,497,265	14,212,123	30,264,317	58,776,481	23,515,164

¹ Connecticut, 4 establishments; District of Columbia, 2; Iowa, 2; Kentucky, 1; Nebraska, 2; Pennsylvania, 3; Rhode Island, 2; Washington, 2. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	44,628	36,706	36,624	37,521	37,335	36,400	35,021	40,558	48,433	56,055	61,393	57,731	49,951
1933.....	32,879	(*)	(*)	20,325	(*)	(*)	28,161	(*)	(*)	43,064	(*)	(*)	43,153
<i>States, 1935</i>													
California.....	385	349	328	335	394	348	399	351	334	388	439	482	502
Connecticut.....	561	499	486	500	670	643	590	564	552	541	538	553	532
Illinois.....	5,852	4,030	4,281	4,872	4,956	5,388	4,969	5,747	7,173	7,872	7,827	7,200	5,914
Indiana.....	2,432	1,941	1,922	1,663	1,566	1,590	1,191	1,445	2,669	3,424	4,263	4,301	3,215
Massachusetts.....	2,348	2,173	2,239	2,106	2,229	2,264	2,206	2,110	2,289	2,526	2,807	2,824	2,393
Michigan.....	670	690	653	620	491	560	542	460	625	762	874	949	896
Minnesota.....	70	41	46	55	63	53	64	63	60	80	97	100	104
New Jersey.....	14,026	11,626	11,797	12,576	11,162	8,894	8,958	11,608	14,910	17,902	20,684	20,123	18,008
New York.....	3,610	2,478	2,573	2,873	3,248	3,074	3,213	3,456	3,829	4,408	5,210	4,913	4,011
Ohio.....	1,634	1,474	1,484	1,451	1,839	1,724	1,281	961	1,592	2,303	2,350	1,977	1,169
Pennsylvania.....	10,988	9,919	9,221	8,960	9,301	10,448	10,851	11,422	11,973	13,569	12,971	11,885	11,336

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

¹ As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933

	NUMBER		VALUE	
	1935	1933	1935	1933
1. Radio Apparatus and Phonographs industry, all products, total value ¹			\$200,972,523	\$121,801,611
Radio receiving sets, phonographs, and apparatus ¹			187,396,251	² 115,350,111
3. Other products (not normally belonging to the industry).....			12,675,938	² 5,148,110
4. Receipts for custom, contract, and repair work.....			900,334	1,303,390
5. Radio receiving sets, phonographs, and apparatus, made as secondary products in other industries.....			19,577,319	3,884,819
Radio receiving sets, phonographs, and apparatus, aggregate value (sum of 2 and 5).....			200,973,570	² 119,234,930
Receiving sets, complete (cabinets, chassis, speakers, and tubes), total.....	(3)	(3)	132,212,416	70,553,334
Number reported.....	5,590,745	3,599,522	130,222,345	69,309,450
Number not reported.....			1,990,071	1,243,884
For home and general use, total.....			104,815,524	56,240,070
Number reported.....	4,377,804	2,896,964	103,563,014	55,166,673
Number not reported.....			1,252,510	1,073,397
Covering standard broadcast band, total.....	1,437,245	2,781,445	19,792,947	50,095,613
Socket-power-operated, total.....	1,250,219	2,088,827	14,908,165	48,163,644
Factory price not over \$11.....	646,919	415,198	5,533,462	3,438,544
Over \$11 but not over \$18.....	425,783		5,973,505	
Over \$18 but not over \$30.....	103,869	1,061,769	2,222,944	32,256,429
Over \$30 but not over \$45.....	9,989		349,617	
Over \$45 but not over \$65.....	2,091	311,870	103,737	12,468,671
Over \$65.....	492		43,340	
Not reported by price classification.....	61,571		681,580	
Battery-operated, total.....	187,026	92,618	4,884,782	1,931,969
Factory price not over \$11.....	5,828		52,414	
Over \$11 but not over \$18.....	57,208		827,922	
Over \$18 but not over \$30.....	⁴ 111,773	(⁴)	2,868,631	1,931,969
Over \$30 but not over \$45.....				
Over \$45.....	12,217		1,135,815	
Extending beyond standard broadcast band: Number and price classification reported, total.....	2,940,559	115,519	\$83,770,067	\$5,071,060
Number and price classification not reported.....			1,252,510	
Socket-power-operated: Number and price classification reported, total.....	2,700,738	(⁴)	76,741,724	(⁴)
Number and price classification not reported, total.....			1,252,510	
Factory price not over \$18.....	777,484		9,809,683	
Over \$18 but not over \$30.....	965,428		22,730,415	
Over \$30 but not over \$45.....	704,906		26,244,504	
Over \$45 but not over \$65.....	116,556		6,369,766	
Over \$65 but not over \$100.....	106,877		8,206,755	
Over \$100.....	29,487		3,380,596	
Not reported by number or price classification.....		(⁴)	1,252,510	(⁴)
Battery-operated, total.....	239,821		7,028,343	
Factory price over \$18 but not over \$30.....	95,329		2,724,676	
Over \$30 but not over \$45.....	102,843		3,448,592	
Other (not over \$18, and over \$45).....	41,649		855,075	
Home receiving sets not reported by kind or by price classification.....		(3)		1,073,397
Automobile sets, total.....	1,191,753	700,018	25,556,018	13,597,863
For general use: Factory price not over \$25.....	1,040,906		20,811,933	13,551,356
Over \$25.....	147,703	698,742	4,525,869	
For police use.....	3,149	1,276	218,216	40,507
Aircraft sets, including all accessory equipment except batteries.....	2,288		651,344	
All other receiving sets, including commercial receiving sets and direction finders: Number reported.....	18,895	2,540	451,969	⁶ 544,914
Number not reported.....			737,561	⁷ 170,487
Radio-phonograph combinations.....	23,362	30,092	2,461,346	1,407,650

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933—Continued

	NUMBER		VALUE	
	1935	1933	1935	1933
Radio receiving sets, etc.—Continued.				
Receiving tubes, total.....	78,231,142	59,859,259	\$28,975,216	\$25,215,050
For replacement, total.....	36,769,396	36,442,340	12,954,372	15,869,731
Alternating-current.....	(Glass..... Metal.....)	31,353,670	{ 8,149,208 774,053	13,823,180
Direct-current.....	(Glass..... A. C. and D. C. not reported separately.....)		{ 1,343,206 1,484,779	
Rectifiers (intended primarily for use with receiving sets).....	⁸ 3,762,328	5,088,670	1,203,126	2,046,551
For initial equipment, total.....	41,461,746	23,416,919	16,020,844	9,345,349
Alternating-current.....	(Glass..... Metal.....)	17,480,680	{ 7,920,819 3,975,992	7,128,039
Direct-current.....	(Glass..... A. C. and D. C. not reported separately.....)		{ 1,006,862 1,998,328	
Rectifiers (intended primarily for use with receiving sets).....	¹¹ 2,926,166	5,936,230	1,118,843	2,217,310
Transmitting tubes for initial equipment and for replacement, total.....	(⁹)	(⁹)	2,954,290	1,382,092
Three-electrode, low-power, 5 to 250 watts.....	65,766	}	{ 674,471	}
Screen-grid, low-power, 7½ to 750 watts.....	19,957		{ 439,654	
Screen-grid, above 750 watts, and transmitting tubes not reported separately:		(¹⁰)		(¹⁰)
Number reported.....	31,515		901,908	
Number not reported.....	(⁹)		177,924	
Three-electrode, air-cooled, 250 watts to 1 kw.....	(⁹)		344,516	
Three-electrode, water or oil cooled, 2½ to 100 kw.....	(⁹)		415,817	
Rectifier tubes not included above:				
Low-power, 500 watts and under.....	(⁹)	(⁹)	553,456	1,490,184
High-power, above 500 watts.....	(⁹)	(⁹)	159,016	
Transmitters (including all associated equipment except tubes):				
Broadcast type.....	(⁹)	(⁹)	401,400	450,933
Aircraft transmitters.....	(⁹)	(⁹)	1,003,795	59,245
Ship transmitters.....	(⁹)	(⁹)	1,249,743	516,420
Other transmitters, and those not reported separately.....	(⁹)	(⁹)	3,115,344	330,881
Phonographs and accessories:				
Phonographs for—				
Mechanical reproduction of records, including cabinets.....	(⁹)	(⁹)	2,106,644	128,211
Electrical reproduction of records, including cabinets and tubes.....	(⁹)	(⁹)	6,253,648	1,782,070
Records and electrical transcriptions.....	(⁹)	(⁹)	3,705,016	2,500,477
Needles.....	(⁹)	(⁹)	269,374	344,784
Miscellaneous:				
Receiving-set chassis made for sale separately ¹²	277,722	129,434	4,136,046	1,006,051
Loud speakers made for sale separately ¹²	(⁹)	(⁹)	5,616,329	3,001,601
Microphones (all types).....	(⁹)	(⁹)	455,315	343,853
Public-address and music-distribution apparatus.....	(⁹)	(⁹)	2,783,858	13 2,298,069
Other apparatus and products associated with radio equipment ¹⁴	(⁹)	(⁹)	8,561,313	6,487,169

¹ Figures include some duplication; see footnote 12.

² Revised.

³ Data incomplete.

⁴ Not reported separately.

⁵ Combined to avoid disclosing approximations of production reported by individual establishments.

⁶ Value of 2,540 sets for which number was reported.

⁷ Value of sets for which number was not reported.

⁸ Less than 1 percent represents metal tubes. Exact figures withheld to avoid disclosing approximations of data for individual establishments.

⁹ Less than 5 percent represents metal tubes. Exact figures withheld to avoid disclosing approximations of data for individual establishments.

¹⁰ Less than 10 percent represents metal tubes. Exact figures withheld to avoid disclosing approximations of data for individual establishments.

¹¹ Less than 25 percent represents metal tubes. Exact figures withheld to avoid disclosing approximations of data for individual establishments.

¹² The items covered by this footnote are duplicated in those covered by footnote 1, to the extent to which the products were sold to manufacturers of complete radio receiving sets for installation in such sets made within the year.

¹³ Includes value of home talking-moving-picture combinations. No such combinations were reported for 1935.

¹⁴ Includes value of dictating machines, figures for which are withheld from separate publication to avoid disclosing data for individual establishments.

1310

REFRIGERATORS AND REFRIGERATING AND ICE- MAKING APPARATUS

[A preliminary report for this industry was issued Jan. 29, 1937]

Description of the industry.—The Refrigerators and Refrigerating and Ice-Making Apparatus industry, as defined for census purposes, embraces establishments whose principal products are mechanical refrigerators (both the motor-driven or compression type and the absorption or heat-actuated type) and refrigerating systems¹ (both domestic and commercial), cabinets for sale as such (whether for use with mechanical refrigerating systems or for use with ice), and industrial ice-making and refrigerating machines. This classification does not cover the construction, by builders, of built-in cooling rooms, cabinets, etc. In censuses prior to that for 1933, manufacturers of mechanical refrigerators and refrigerating systems for domestic and commercial use were classified in the "Refrigerators, Mechanical" industry; manufacturers of ice refrigerators and cabinets for mechanical refrigerators, in the "Refrigerators and Refrigerator Cabinets, Exclusive of Mechanical Refrigerating Equipment" industry; and manufacturers of industrial ice-making and refrigerating machines, in the "Foundry and Machine Shop Products Not Elsewhere Classified" industry. Statistics for 1931, comparable with those for 1933 and 1935, are presented in this report; but, because of the changes in the constitution of the industry, it is impracticable to compile comparable figures for years prior to 1931.

Complete mechanical refrigerators.—It is impossible to calculate, from the census records, the total number of complete mechanical refrigerators (cabinets with the refrigerating systems installed) manufactured, for the reason that certain manufacturers of refrigerating systems purchase their cabinets, or manufacture them in plants other than those in which the systems are made, and have them shipped to warehouses for assembly. In these cases both the manufacturers of the systems and the manufacturers of the cabinets report separately to the Bureau of the Census, but no reports are made for the assembling done in their warehouses. Moreover, certain dealers purchase refrigerating mechanisms and cabinets from the manufacturers and have them shipped to warehouses for assembly. These dealers do not, of course, report to the Bureau of the Census as manufacturers. Thus the census figures show the entire output of refrigerating systems for sale as such by manufacturers, of cabinets for sale as such by manufacturers, and of complete refrigerators for sale as such by manufacturers, but do not show the total number of complete refrigerators produced, including those assembled in warehouses.

¹ The term "system," as used here, refers to a complete assembly, consisting of "high side" and "low side," with motor, control, and expansion valve or its equivalent. The cabinet is not a part of the system.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1935, 1933, AND 1931

	1935	1933	1931	PERCENT OF INCREASE OR DECREASE (-)	
				1935-1933	1931-1933
Number of establishments.....	275	204	227	34.8	-10.1
Proprietors and firm members.....	105	50	(¹)	(*)	-----
Salaried personnel, total ²	5,585	(³)	(¹)	(³)	-----
Salaried officers of corporations.....	352	(³)	(¹)	(³)	-----
Supervisory, technical, and clerical employees.....	⁴ 5,233	⁵ 4,403	(¹)	18.9	-----
Salaries paid, total ²	\$11,186,933	(³)	(¹)	(³)	-----
To salaried officers of corporations.....	\$1,791,421	(³)	(¹)	(³)	-----
To supervisory, technical, and clerical employees.....	⁴ \$9,395,512	⁵ \$7,573,048	(¹)	24.1	-----
Wage earners (average for year) ⁶	37,146	26,398	26,116	40.7	1.1
Wages.....	\$40,442,915	\$24,335,228	\$32,350,213	66.2	-24.8
Cost of materials, etc., total.....	116,283,054	69,601,374	88,561,761	67.1	-21.4
Cost of materials and supplies.....	113,232,909	(¹)	(¹)	(¹)	-----
Cost of fuel.....	1,152,962	(¹)	(¹)	(¹)	-----
Cost of purchased electric energy.....	1,897,183	(¹)	(¹)	(¹)	-----
Value of products.....	224,113,941	140,762,115	190,426,753	59.2	-29.4
Value added by manufacture ⁷	107,830,887	71,160,741	110,864,992	51.5	-35.8

*Percent not computed where base is less than 100.

¹ No data.² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.³ Data incomplete.⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,162; salaries, \$3,058,892. Technical, 642; salaries, \$1,396,338. Clerical, 3,429; salaries, \$4,040,252. See sec. 10, p. 7.⁵ Supervisory, 1,001; salaries, \$2,862,469. Clerical and other, 3,402; salaries, \$4,710,579. See sec. 10, p. 7.⁶ See sec. 11, p. 7.⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	275	5,585	37,146	\$11,186,933	\$40,442,915	\$116,283,054	\$224,113,941	\$107,830,887
California.....	34	172	734	449,935	864,904	2,107,146	3,986,719	1,379,573
Illinois.....	28	247	1,492	480,421	1,475,015	6,609,042	10,161,151	3,552,109
Indiana.....	9	1,013	6,487	1,822,849	5,977,207	17,502,438	36,511,030	19,008,562
Iowa.....	3	12	52	28,030	67,580	116,661	266,400	149,739
Maryland.....	4	37	112	60,718	115,930	299,480	541,412	241,932
Massachusetts.....	7	15	41	30,176	47,533	91,498	176,043	85,145
Michigan.....	19	729	7,007	1,556,352	7,475,954	29,179,375	51,020,410	21,841,035
Minnesota.....	14	187	2,322	402,313	1,710,017	5,066,220	9,230,591	4,164,371
Missouri.....	12	124	447	310,795	538,163	1,788,615	3,128,642	1,340,027
New Jersey.....	13	141	653	331,393	732,987	1,958,133	3,844,357	1,886,224
New York.....	51	408	2,908	883,211	3,549,547	8,097,653	18,090,148	9,092,495
North Carolina.....	3	4	20	3,517	16,889	58,734	133,939	75,205
Pennsylvania.....	21	863	3,874	1,474,848	4,188,737	12,567,140	26,382,191	13,815,051
Washington.....	6	13	31	21,116	33,307	122,825	190,977	68,152
Wisconsin.....	9	113	583	234,353	534,409	1,081,654	2,277,923	1,196,256
Other States ¹	42	1,507	10,383	3,096,906	13,114,736	29,636,440	68,171,408	28,634,968

¹ Colorado, 1 establishment; Connecticut, 4; Delaware, 1; Georgia, 3; Kentucky, 2; Nebraska, 3; New Hampshire, 1; Ohio, 16; Oregon, 3; Rhode Island, 1; Tennessee, 4; Texas, 2; West Virginia, 1. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	NUMBER REPORTED FOR—											
	January	February	March	April	May	June	July	August	Septem-ber	October	Novem-ber	Decem-ber
<i>United States</i>	37,203	44,003	47,628	47,622	45,049	38,610	33,002	31,368	26,988	28,465	30,495	34,812
1933.....	26,398	(*)	21,835	(*)	(*)	35,109	(*)	(*)	26,762	(*)	(*)	25,545
<i>States, 1935</i>												
California.....	736	685	769	844	849	884	776	697	707	683	668	664
Connecticut.....	99	97	173	177	143	95	79	62	59	75	73	70
Georgia.....	152	156	158	159	153	150	151	151	147	147	147	147
Illinois.....	1,097	2,575	2,997	2,212	2,097	1,634	1,634	605	579	601	744	890
Indiana.....	6,487	7,424	8,340	8,604	8,274	6,969	5,324	5,492	5,058	4,814	5,499	5,828
Iowa.....	52	44	46	48	50	53	54	54	55	61	62	57
Maryland.....	112	102	106	130	136	140	140	133	112	106	73	78
Massachusetts.....	41	34	37	44	49	53	47	46	39	39	38	37
Michigan.....	7,019	9,292	9,621	9,201	8,387	7,096	5,687	5,990	3,612	4,958	5,085	6,790
Minnesota.....	2,326	2,418	2,649	2,971	3,260	3,289	2,325	2,014	1,125	1,562	1,860	2,411
Missouri.....	447	387	488	503	499	498	481	432	423	439	422	455
Nebraska.....	108	84	94	111	130	144	144	115	84	90	90	96
New Jersey.....	653	648	707	734	729	757	685	651	595	586	583	596
New York.....	2,909	3,575	3,488	3,550	3,565	2,857	2,682	2,465	2,318	2,318	2,335	2,333
North Carolina.....	20	15	19	19	17	23	22	23	19	23	21	18
Ohio.....	9,216	10,953	11,959	11,872	10,232	7,656	7,299	7,495	7,536	7,510	8,373	9,632
Oregon.....	21	21	20	20	20	21	21	21	22	19	20	19
Pennsylvania.....	3,914	4,072	4,407	4,553	4,680	4,427	4,118	3,718	3,326	3,325	3,253	3,301
Tennessee.....	421	467	513	615	657	570	378	269	231	270	323	373
Washington.....	31	22	24	22	35	35	37	54	53	25	21	21
Wisconsin.....	584	625	641	684	655	622	575	568	504	502	491	556

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

1 As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ slightly from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933

	NUMBER		VALUE	
	1935	1933	1935	1933
1. Refrigerators and Refrigerating and Ice-Making Apparatus industry, all products, total value.....			\$224, 113, 941	\$140, 762, 115
2. Refrigerating and ice-making apparatus.....			206, 269, 583	126, 904, 660
3. Other products (not normally belonging to the industry).....			16, 653, 988	10, 920, 929
4. Receipts for custom, contract, and repair work.....			1, 190, 370	2, 870, 526
5. Refrigerating and ice-making apparatus made as secondary products in other industries.....			20, 341, 870	9, 168, 923
Refrigerating and ice-making apparatus, aggregate value (2 and 5).....			226, 611, 453	136, 123, 583
Mechanical refrigerators and refrigerating systems, compression-type (electric):				
Domestic (household), self-contained, total.....	1, 423, 393	956, 356	119, 872, 519	75, 459, 555
Capacity under 6 cubic feet.....	875, 397	433, 434	60, 903, 362	27, 347, 092
6 or more but under 10 cubic feet.....	536, 308	416, 310	55, 182, 029	39, 104, 540
10 cubic feet and over.....	11, 688	10, 062	2, 428, 417	1, 835, 392
Not reported by size.....		96, 550	1, 358, 711	7, 072, 591
Commercial, total.....			8, 344, 106	7, 986, 407
Water coolers, self-contained:				
Number reported.....	17, 954	(³)	1, 898, 420	975, 743
Number not reported.....			127, 167	
Ice-cream cabinets, self-contained:				
Number reported.....	14, 220	3, 499	2, 062, 034	613, 522
Number not reported.....			608, 846	1, 102, 177
Other commercial refrigerators and display cases, self-contained:				
Number reported.....	26, 284	3, 945	2, 399, 268	540, 944
Number not reported.....			1, 248, 371	4, 236, 863
Compressors and miscellaneous commercial equipment not reported separately.....				517, 158
Systems, ⁴ high sides, low sides, etc. (commercial and domestic):				
Systems complete without cabinets.....	242, 240	37, 748	11, 046, 989	1, 658, 519
High sides made for sale separately.....	222, 206		5, 976, 563	
Low sides made for sale separately:				
Number reported.....	30, 368	22, 292	1, 045, 853	739, 022
Number not reported.....			382, 980	
Compressors made for sale separately.....	54, 875	29, 961	3, 910, 311	3, 484, 276
Evaporators made for sale separately:				
Number reported.....	67, 985	16, 953	1, 573, 176	621, 763
Number not reported.....			569, 461	744, 831
Cabinets, ⁵ display cases, etc., for mechanical refrigerators, made for sale separately:				
Domestic (household):				
Capacity under 6 cubic feet.....	156, 294		3, 841, 022	
6 or more but under 10 cubic feet.....	145, 579	441, 278	5, 058, 797	12, 321, 279
10 cubic feet or more.....	12, 521		597, 438	
Commercial:				
Refrigerator cabinets:				
Number reported.....	13, 789	17, 667	1, 151, 245	1, 128, 612
Number not reported.....			2, 589, 693	339, 186
Display, storage, etc., cases:				
Number reported.....	8, 021	8, 425	3, 711, 459	3, 575, 995
Number not reported.....			3, 536, 086	1, 620, 615
Remote fountains or water coolers, with low sides, and other commercial cabinets.....	(³)	(³)	1, 295, 833	⁶ 280, 747
Ice refrigerators and ice boxes:				
Domestic (household):				
Number reported.....	308, 976	223, 252	6, 661, 051	3, 305, 663
Number not reported.....			233, 240	744, 223
Commercial ice refrigerators, water coolers, milk coolers, food-display cases, etc.....	(³)	(³)	3, 222, 793	3, 303, 251

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1935 AND 1933—Continued

	NUMBER		VALUE	
	1935	1933	1935	1933
Refrigerating and ice-making apparatus—Continued.				
Ice-making and refrigerating machines and apparatus, industrial, total.....			\$6, 570, 459	\$4, 115, 261
Complete machines:				
Capacity less than 10 tons per 24 hours:				
Number reported.....	4, 497	2, 274	2, 459, 671	921, 123
Number not reported.....			189, 160	299, 134
10 or more but under 100 tons:				
Number reported.....	847	1, 257	2, 824, 672	921, 348
Number not reported.....			369, 859	178, 905
100 tons and over:				
Number reported.....	34	26	588, 515	236, 845
Number not reported.....			138, 582	499, 762
Number and size not reported.....				1, 058, 144
Compressors made for sale as such:				
Number reported.....	1, 206		197, 766	
Number not reported.....			5, 000	
Evaporators made for sale as such:				
Number reported.....	69, 546		539, 861	
Number not reported.....			649, 386	
Air-conditioning unit systems:		(?)		(?)
Self-contained.....	3, 048		648, 825	
Not self-contained:				
Number reported.....	5, 821		1, 655, 785	
Number not reported.....			1, 907, 416	
Absorption-type refrigerators, custom-built refrigerators, cabinets cooled by replaceable chemical refrigerant ("Kold-Kans," etc.) and cooling equipment therefor, cabinets and display cases not reported by method of cooling, and parts for all types ⁸			29, 825, 440	14, 595, 379

¹ The values of the several items under "Systems, high sides, low sides, etc. (commercial and domestic)," and under "Cabinets, display cases, etc., for mechanical refrigerators, made for sale separately," are duplicated in the totals to which this footnote is indexed. See "Complete mechanical refrigerators," p. 1113.

² Includes \$761,147, value of refrigerating and ice-making apparatus and other products not reported in detail. (Reported on abridged questionnaire used in canvassing small establishments. See sec. 4, p. 3.)

³ Data incomplete.

⁴ See footnote 1, p. 1113.

⁵ See footnote 1.

⁶ Remote fountains or water coolers with low sides only.

⁷ No data.

⁸ Figures combined to avoid disclosing output of an individual manufacturer of absorption-type refrigerators.

1311

SCALES AND BALANCES

[A preliminary report for this industry was issued Jan. 6, 1937]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of weighing devices of all types, including those with automatic computing mechanisms and coin-operated scales.

Omission of State statistics except for wage-earner employment.—As no figures can be given for the most important State in this industry, namely, Vermont, without disclosing data for individual establishments, and as those States for which it would be possible to publish separate figures without disclosing (exactly or approximately) such data accounted for less than one-half of the total activity of the industry (as measured by number of wage earners employed) in the United States in 1935, no State statistics are included in this report except in table 2, in which figures are given for each State represented by three or more establishments, even though one or two of these establishments reported most of the wage earners employed in the industry in the State. (See sec. 23, p. 12.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	156	45	54	59	(*)	(*)
Proprietors and firm members.....	16	3	(?)	31	(*)	(*)
Salaried personnel, total ¹	803	(?)	(?)	1,065	(?)	-24.6
Salaried officers of corporations.....	70	(?)	(?)	88	(?)	(?)
Supervisory, technical, and clerical employees.....	⁵ 733	⁶ 709	(?)	977	3.4	-25.0
Salaries paid, total ²	\$1,561,176	(?)	(?)	\$2,849,331	(?)	-45.2
To salaried officers of corporations.....	\$407,797	(?)	(?)	\$703,458	(?)	-42.0
To supervisory, technical, and clerical employees.....	⁵ \$1,153,379	⁶ \$1,057,681	(?)	\$2,145,873	9.0	-46.3
Wage earners (average for year) ⁷	2,468	2,187	2,814	4,118	12.8	-40.1
Wages.....	\$2,633,489	\$1,825,009	\$3,232,752	\$5,995,475	44.3	-55.1
Cost of materials, etc., total.....	\$3,785,855	\$2,161,677	\$3,644,457	\$7,438,190	75.1	-49.1
Cost of materials and supplies.....	\$3,608,714	(?)	(?)	\$7,090,905	(?)	-49.1
Cost of fuel.....	\$80,134	(?)	(?)	\$174,883	(?)	-54.2
Cost of purchased electric energy.....	\$97,007	(?)	(?)	\$172,402	(?)	-43.7
Value of products.....	\$13,383,520	\$8,332,906	\$14,561,273	\$30,381,424	60.6	-55.9
Value added by manufacture ⁸	\$9,597,665	\$6,171,229	\$10,916,816	\$22,943,234	55.5	-68.2

*Percent not computed where base is less than 100.

¹ California, 2 establishments; Colorado, 1; Connecticut, 1; Illinois, 12; Indiana, 1; Kentucky, 2; Massachusetts, 1; Michigan, 2; Minnesota, 1; Missouri, 2; New Jersey, 8; New York, 8; Ohio, 5; Pennsylvania, 5; Utah, 1; Vermont, 2; Washington, 1; Wisconsin, 1.

² No data.

³ No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

⁴ Data incomplete.

⁵ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 146; salaries, \$393,225. Technical, 36; salaries, \$80,568. Clerical, 551; salaries, \$679,586. See sec. 10, p. 7.

⁶ Supervisory, 164; salaries, \$457,160. Clerical and other, 545; salaries, \$600,521. See sec. 10, p. 7.

⁷ See sec. 11, p. 7.

⁸ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

SCALES AND BALANCES

1119

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	2,468	2,377	2,411	2,429	2,432	2,456	2,417	2,466	2,477	2,515	2,526	2,553	2,555
1933.....	2,187	1,976	1,975	1,965	1,861	2,065	2,085	2,231	2,339	2,424	2,454	2,433	2,432
<i>States, 1935</i>													
Illinois.....	503	482	502	493	505	493	481	534	511	505	501	516	513
New Jersey.....	188	174	177	191	189	192	185	184	193	191	191	196	196
New York.....	372	370	383	376	355	363	346	342	352	379	396	401	401
Ohio.....	446	413	419	425	437	453	453	445	462	464	459	456	461
Pennsylvania.....	79	80	77	75	77	82	82	82	78	79	79	76	80

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Scales and Balances industry, all products, total value.....	\$13,383,520	\$8,332,906	\$14,561,273	\$30,381,424
2. Scales and balances, parts, and attachments.....	11,951,938	6,778,260	12,046,002	24,700,522
3. Other products (not normally belonging to the industry).....	1,307,642	1,136,911	1,758,826	4,628,358
4. Receipts for contract and repair work.....	123,940	417,735	756,445	1,052,544
5. Scales and balances made as secondary products in other industries.....	487,942	354,828	473,634	1,384,325
Scales and balances, parts, and attachments, aggregate value (2 and 5).....	\$12,439,880	\$7,133,088	\$12,519,636	\$26,034,847
<i>Scales:</i>				
<i>Automatic industrial:</i>				
Number.....	15,252	4,261	6,609	21,161
Value.....	\$3,300,930	\$1,179,870	\$1,832,535	\$4,589,733
<i>Calculating and computing:</i>				
Number.....	30,431	20,964	32,125	58,006
Value.....	\$3,596,876	\$2,129,286	\$4,016,640	\$9,070,021
<i>Beam, including steelyards:</i>				
Number.....	88,056	42,850	101,707	155,241
Value.....	\$2,020,400	\$1,382,006	\$2,372,156	\$5,084,861
<i>Spring, other than computing:</i>				
Total number.....	1,131,093	517,512	495,621	620,061
Total value.....	\$1,905,686	\$1,099,050	\$1,471,692	\$2,184,099
<i>Bathroom or "health":</i>				
Number.....	556,993			
Value.....	\$1,111,866			
<i>Other:</i>				
Number.....	574,070	(¹)	(¹)	(¹)
Value.....	\$794,290			
<i>Coin-operated:</i>				
Number.....	5,695	2,863	19,986	8,637
Value.....	\$286,466	\$188,679	\$1,412,051	\$1,447,419
<i>Balances:</i>				
Total number.....	123,462	30,337	39,826	41,738
Total value.....	\$700,395	\$525,681	\$553,880	\$1,277,115
<i>Precision:</i>				
Number.....	11,161			
Value.....	\$685,934			
<i>Other:</i>				
Number.....	112,301	(¹)	(¹)	(¹)
Value.....	\$114,461			
Other weighing devices, and scales and balances not reported by type, value.....	\$379,965	\$300,345	\$413,220	\$1,731,938
Parts and attachments, value.....	\$249,162	\$328,171	\$447,462	\$699,661

¹ Data incomplete.

1312

SEWING MACHINES AND ATTACHMENTS

[A preliminary report for this industry was issued Dec. 11, 1936]

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of sewing machines (hand, foot, and power) for household and for factory use.

Omission of State statistics except for wage-earner employment.—As no statistics can be published for the most important State in the Sewing Machines and Attachments industry, namely, New Jersey, without disclosing data for an individual establishment, and as those States for which it would be possible to publish separate figures without disclosing such data accounted for less than one-half of the total activity of the industry (as measured by number of wage earners employed) in the United States in 1935, no State statistics are included in this report except in table 2, in which wage-earner figures are given for each State represented by three or more establishments, even though one or two of these establishments reported most of the wage earners employed in the industry in the State. (See sec. 23, p. 12.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-	1929-
					1935	1935
Number of establishments.....	139	30	34	39	(*)	---
Proprietors and firm members.....	13	6	(2)	19	(*)	(*)
Salaried personnel, total ¹	1,190	(4)	(2)	1,703	(4)	-30.1
Salaried officers of corporations.....	51	(4)	(2)	50	(4)	(4)
Supervisory, technical, and clerical employees.....	⁶ 1,139	⁶ 823	(2)	1,653	38.4	-31.1
Salaries paid, total ²	\$2,520,695	(4)	(2)	\$3,610,859	(4)	-30.2
To salaried officers of corporations.....	\$374,610	(4)	(2)	\$335,738	(4)	11.6
To supervisory, technical, and clerical employees.....	⁴ \$2,146,085	⁶ \$1,555,903	(2)	\$3,275,121	37.9	-34.5
Wage earners (average for year) ⁷	7,509	6,313	8,090	10,467	18.9	-23.3
Wages.....	\$9,053,413	\$6,034,211	\$8,791,909	\$14,976,182	50.0	-39.5
Cost of materials, etc., total.....	6,027,458	2,862,117	6,090,980	16,458,425	110.6	-63.4
Cost of materials and supplies.....	5,551,087	(2)	(2)	15,855,848	(2)	-65.0
Cost of fuel.....	275,413	(2)	(2)	382,381	(2)	-28.0
Cost of purchased electric energy.....	200,958	(2)	(2)	220,196	(2)	-8.7
Value of products.....	22,635,452	12,926,146	20,148,125	45,094,600	75.1	-49.8
Value added by manufacture ⁸	16,607,994	10,064,029	14,057,145	28,636,175	65.0	-42.0

* Percent not computed where base is less than 100.

¹ Connecticut, 3 establishments; Illinois, 4; Maryland, 2; Massachusetts, 5; Missouri, 1; New Jersey 1; New York, 19; Ohio, 2; Pennsylvania, 2. See sec. 23, p. 12.

² No data.

³ No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

⁴ Data incomplete.

⁵ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 285; salaries, \$852,430. Technical, 151; salaries, \$309,737. Clerical, 703; salaries, \$983,918. See sec. 10, p. 7.

⁶ Supervisory, 194; salaries, \$613,918. Clerical and other, 629; salaries, \$936,985. See sec. 10, p. 7.

⁷ See sec. 11, p. 7.

⁸ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	7,509	7,446	7,518	7,529	7,504	7,411	7,486	7,454	7,488	7,521	7,576	7,580	7,597
1933.....	6,313	6,190	5,897	5,980	5,753	5,661	5,722	5,904	6,423	6,699	7,036	7,283	7,252
<i>States, 1935</i>													
Connecticut.....	1,475	1,422	1,456	1,465	1,471	1,452	1,472	1,467	1,504	1,521	1,530	1,488	1,456
Illinois.....	1,335	1,279	1,327	1,344	1,345	1,308	1,317	1,319	1,322	1,325	1,353	1,379	1,395
Massachusetts.....	228	229	238	229	229	229	231	229	227	227	226	227	221
New York.....	229	225	220	219	205	206	216	221	236	241	254	255	254

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Sewing Machines and Attachments industry, all products, total value.....	\$22,635,452	\$12,926,146	\$20,148,125	\$45,094,600
2. Sewing machines, parts, and attachments.....	20,881,054	12,188,444	17,248,379	40,465,659
3. Other products (not normally belonging to the industry).....	1,727,731	769,862	2,777,574	4,223,893
4. Receipts for contract and repair work.....	26,667	27,840	122,172	405,048
5. Sewing machines made as secondary products in other industries.....	660,546	261,829	178,500	494,443
Sewing machines, parts, and attachments, aggregate value (2 and 5).....	21,541,600	12,450,273	17,426,879	40,960,102
Sewing machines:				
Household types:				
Total number.....	343,248	128,008	231,569	669,027
Total value.....	\$9,827,274	\$4,385,653	\$7,621,753	\$25,095,008
Electric:				
Number.....	221,435	(1)	166,216	323,474
Value.....	\$7,858,685	(1)	\$0,129,440	\$10,481,823
Foot and hand:				
Number.....	121,813	(1)	65,353	345,553
Value.....	\$1,968,589	(1)	\$1,492,315	\$8,013,185
Industrial types:				
Total number.....	85,264	42,019	67,041	122,641
Total value.....	\$8,423,072	\$5,888,086	\$7,630,652	\$12,001,736
Electric:				
Number.....	16,357	(1)	(2)	(2)
Value.....	\$4,234,348			
Foot and hand:				
Number.....	48,907			
Value.....	\$4,198,724			
Sewing machines not reported by type:				
Number.....				2,080
Value.....				\$251,466
Parts and attachments, value.....	\$3,291,254	\$2,176,534	\$2,174,472	\$3,581,892

1 Data incomplete.

2 No data.

1313

TEXTILE MACHINERY AND PARTS

[A preliminary report for this industry was issued Feb. 18, 1937]

Description of the industry.—The establishments classified in this industry are engaged wholly or chiefly in the manufacture of machinery for use in the textile industries. The relatively large volume of "Extra parts, attachments, spindles, and accessories," more than two-fifths of the total value of textile machinery and parts made in 1935, is accounted for by the fact that some manufacturers of textile machinery ship a considerable proportion of their output, especially that destined for export, in the form of "knocked-down" or partly assembled machines. The records of these manufacturers do not in all cases show the numbers of complete machines represented by such shipments, and accordingly they are necessarily reported as parts.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE(-)	
					1933-1935	1929-1935
Number of establishments.....	349	314	330	376	11.1	-7.2
Proprietors and firm members.....	169	175	(1)	231	-3.4	-26.8
Salaried personnel, total ²	3,610	(2)	(1)	4,244	(2)	-14.9
Salaried officers of corporations.....	390	(2)	(1)	430	(2)	-9.3
Supervisory, technical, and clerical employees.....	\$ 3,220	\$ 2,705	(1)	3,814	19.0	-15.6
Salaries paid, total ²	\$8,485,611	(2)	(1)	\$12,660,745	(2)	-33.0
To salaried officers of corporations.....	\$2,374,093	(2)	(1)	\$3,701,149	(2)	-35.9
To supervisory, technical, and clerical employees.....	\$6,111,518	\$5,118,082	(1)	\$8,959,596	19.4	-31.8
Wage earners (average for year) ³	19,072	18,576	18,808	27,019	2.7	-29.4
Wages.....	\$21,245,578	\$18,737,260	\$21,238,231	\$37,836,406	13.4	-43.8
Cost of materials, etc., total.....	23,131,415	18,377,880	18,175,346	36,556,299	25.9	-36.7
Cost of materials and supplies.....	21,865,145	(1)	(1)	34,825,992	(1)	-37.2
Cost of fuel.....	623,471	(1)	(1)	895,568	(1)	-30.4
Cost of purchased electric energy.....	642,799	(1)	(1)	834,739	(1)	-23.0
Value of products.....	68,846,269	60,323,267	65,798,225	122,438,514	14.1	-43.8
Value added by manufacture ⁷	45,714,854	41,945,387	47,622,879	85,882,215	9.0	-46.8

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 908; salaries, \$2,490,945. Technical, 243; salaries, \$636,145. Clerical, 2,069; salaries, \$2,984,428. See sec. 10, p. 7.

⁵ Supervisory, 691; salaries, \$2,261,464. Clerical and other, 2,014; salaries, \$2,856,618. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 15, p. 11.

TEXTILE MACHINERY AND PARTS

1123

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufac- ture
United States.....	349	3,610	19,072	\$8,485,611	\$21,245,578	\$23,131,415	\$68,846,269	\$45,714,854
Connecticut.....	12	62	309	172,122	292,597	382,371	1,066,456	684,085
Georgia.....	19	48	232	109,480	199,952	306,496	749,561	443,065
Illinois.....	5	79	330	173,692	410,762	345,206	1,777,320	1,432,114
Massachusetts.....	103	1,516	7,752	3,660,600	8,570,489	9,706,961	26,842,807	17,135,846
New Jersey.....	37	163	741	451,576	798,848	1,519,066	3,687,138	2,167,472
New York.....	30	96	517	262,533	695,864	743,842	2,038,088	1,294,246
North Carolina.....	21	65	305	163,911	322,087	466,543	1,358,156	891,613
Pennsylvania.....	53	750	4,447	1,774,589	5,527,103	5,010,070	14,999,561	9,989,491
Rhode Island.....	36	423	1,679	888,611	1,774,614	2,439,692	8,013,360	5,573,668
South Carolina.....	11	30	204	65,759	175,507	248,379	744,968	496,589
Tennessee.....	4	11	42	9,975	33,007	58,714	118,499	59,335
Other States ¹	18	367	2,514	752,763	2,444,748	1,903,475	7,460,805	5,547,330

¹ Alabama, 1 establishment; California, 2; Kentucky, 1; Maine, 2; Maryland, 1; Michigan, 1; New Hampshire, 7; Ohio, 1; Vermont, 2. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	19,070	18,948	19,199	19,272	19,420	18,761	18,801	18,654	18,524	18,600	18,990	19,493	20,180
1933.....	18,576	(*)	(*)	14,112	(*)	(*)	16,206	(*)	(*)	23,486	(*)	(*)	22,801
<i>States, 1935</i>													
Connecticut.....	309	319	328	323	315	313	295	235	283	202	315	324	321
Georgia.....	234	260	255	240	236	221	229	230	228	219	232	228	229
Illinois.....	330	259	289	307	325	332	326	340	337	342	358	373	372
Massachusetts.....	7,752	7,633	7,736	7,771	7,779	7,681	7,626	7,623	7,560	7,565	7,646	7,969	8,423
New Hampshire.....	696	833	804	794	777	609	696	642	601	631	644	646	671
New Jersey.....	744	742	773	773	762	744	730	723	731	739	714	746	744
New York.....	517	495	509	513	506	506	517	517	515	525	532	525	543
North Carolina.....	305	309	320	313	303	299	300	286	300	296	305	307	316
Pennsylvania.....	4,447	4,141	4,332	4,400	4,603	4,524	4,514	4,525	4,543	4,894	4,424	4,455	4,508
Rhode Island.....	1,672	1,689	1,771	1,788	1,714	1,650	1,540	1,543	1,570	1,602	1,678	1,741	1,777
South Carolina.....	206	205	202	204	204	212	210	211	202	199	207	207	208
Tennessee.....	42	48	42	50	35	35	29	33	35	35	57	68	53

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

¹ As the averages for 1935 given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—TEXTILE MACHINERY AND PARTS—PRODUCTION, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935, 1933, AND 1929

	1935	1933	1929
1. Textile machinery and parts industry, all products, total value.....	\$68,846,269	\$60,323,267	\$122,438,544
2. Textile machinery, parts, attachments, and accessories.....	64,240,350	57,283,690	112,851,238
3. Other products (not normally belonging to the industry).....	2,042,801	713,255	2,609,414
4. Receipts for contract and repair work.....	2,563,118	2,326,322	6,077,892
5. Textile machinery and parts made as secondary products in other industries.....	658,223	608,262	2,073,885
Textile machinery, parts, attachments, and accessories, aggregate value (sum of 2 and 5).....	\$64,898,573	\$57,891,952	\$115,525,123
Fiber-to-fabric machinery, total value.....	\$11,500,852	\$10,442,152	\$23,106,002
Picker machines:			
Number.....	349	120	1,711
Value.....	\$628,733	\$380,090	\$1,903,416
Carding machines:			
Number.....	681	572	3,230
Value.....	\$777,171	\$817,807	\$2,847,993
Combing and garnetting machines and drawing frames:			
Number.....		1,819	3,572
Value.....		\$370,991	\$827,723
Roving frames:	1 \$918,305		
Number.....		123	656
Value.....		\$158,522	\$994,940
Spinning machines:			
Number.....	2,591	3,048	5,419
Value.....	\$3,057,564	\$4,081,577	\$4,858,799
Doubling and twisting frames:			
Number.....	1,005	801	2,350
Value.....	\$1,682,790	\$1,227,143	\$4,150,465
Winders—skein, spool, bobbin, quill, cone, etc.:			
Number.....	63,313	38,623	111,333
Value.....	\$3,573,873	\$2,857,347	\$4,824,964
Beaming, warping, and slashing machines:			
Number.....	379		911
Value.....	\$852,410	\$539,675	\$2,697,674
Fabric machinery, total value.....	\$14,115,562	\$11,248,100	\$29,012,000
Knitting machines, total value.....	\$7,706,791	\$4,819,935	\$19,060,519
Circular:			
Hosiery, total value.....	\$4,951,018		
Number reported:			
Number.....	2,209		
Value.....	\$4,470,855		
Number not reported, value.....	\$480,163		
Other circular:			
Number.....	1,573	3,452	12,079
Value.....	\$1,535,514	\$4,819,935	\$19,060,519
Other knitting machines, including loopers, total value.....	\$1,220,160		
Number reported:			
Number.....	1,435		
Value.....	\$1,146,935		
Number not reported, value.....	\$73,224		
Looms for weaving:			
Number.....		10,713	19,413
Value.....		\$5,976,236	\$9,614,561
Braiding machines:			
Number.....	\$6,408,861	1,215	6,988
Value.....		\$235,231	\$1,043,561
Other fabric machines, including Jacquard, lace and net, embroidery, and cordage and rope machines, value.....		\$213,008	\$193,305
Machinery for bleaching, dyeing, printing, mercerizing, finishing, etc., stock, yarn, and cloth, value.....	\$5,266,396	\$3,989,768	\$9,331,864
Other textile machinery and that not reported by class or type, value.....	\$4,725,587	\$3,573,364	\$9,302,284
Extra parts, attachments, spindles, and accessories, ² total value.....	\$29,290,176	\$28,638,508	\$43,842,943
Card clothing:			
Total square feet.....	656,581		
Total value.....	\$2,006,148		
For cotton:			
Square feet.....	268,640		
Value.....	\$600,557		
For wool:			
Square feet.....	637,224		
Value.....	\$1,203,884	(3)	(3)
For other fabrics:			
Square feet.....	50,717		
Value.....	\$135,707		
Heddles, value.....	\$129,126		
Spindles, value.....	\$92,466		
Other parts, attachments, and accessories, value.....	\$29,032,212		
Covers for rolls, value, and receipts for recovering.....	\$430,284		

¹ Combined to avoid disclosing approximations of data for individual establishments; data for numbers incomplete.

² See "Description of the industry," p. 112-2.

³ Not reported separately.

1315

WASHING MACHINES, WRINGERS, DRIERS, AND IRONING MACHINES, FOR HOUSEHOLD USE

[A preliminary report for this industry was issued Dec. 29, 1936]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the manufacture of laundry equipment for household use, comprising washing machines, ironing machines, wringers, driers, and extractors, whether operated by mechanical power or by hand. (Laundry machinery for use in commercial laundries is assigned to the "Machinery Not Elsewhere Classified" industry.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	41	41	59	65		(*)
Proprietors and firm members.....	3	4	(1)	9		(*)
Salaried personnel, total ²	1,529	(3)	(1)	1,713	(3)	-10.7
Salaried officers of corporations.....	90	(3)	(1)	134	(3)	-28.4
Supervisory, technical, and clerical employees.....	4 1,433	5 1,284	(1)	1,579	11.6	-9.2
Salaries paid, total ²	\$2,753,487	(3)	(1)	\$4,722,829	(3)	-41.7
To salaried officers of corporations.....	\$658,153	(3)	(1)	\$1,208,950	(3)	-45.6
To supervisory, technical, and clerical employees.....	4 \$2,095,334	4 \$2,165,882	(1)	\$3,513,873	-3.3	-40.4
Wage earners (average for year) ³	8,742	6,956	6,201	8,189	25.7	6.8
Wages.....	\$9,851,792	\$6,362,617	\$7,212,342	\$12,071,916	54.8	-18.4
Cost of materials, etc., total.....	36,995,916	24,361,338	24,520,948	40,707,373	51.9	-9.1
Cost of materials and supplies.....	36,408,454	(1)	(1)	40,011,095	(1)	-9.0
Cost of fuel.....	247,679	(1)	(1)	329,436	(1)	-24.8
Cost of purchased electric energy.....	339,783	(1)	(1)	366,842	(1)	-7.4
Value of products.....	62,425,345	44,542,334	50,928,564	82,329,924	40.1	-24.2
Value added by manufacture ⁷	25,429,429	20,180,996	26,407,616	41,622,551	26.0	-38.9

* Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 299; salaries, \$869,775. Technical, 63; salaries, \$152,961. Clerical, 1,071; salaries, \$1,072,693. See sec. 10, p. 7.

⁵ Supervisory, 349; salaries, \$986,161. Clerical and other, 935; salaries, \$1,179,721. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	41	1,529	8,742	\$2,753,487	\$9,851,792	\$36,995,916	\$62,425,345	\$25,429,429
Illinois.....	10	441	2,085	841,609	2,432,698	7,857,986	12,437,341	4,579,355
Iowa.....	8	288	2,382	591,129	3,027,207	11,297,275	20,850,036	9,552,761
New York.....	4	238	1,275	500,071	1,397,457	6,020,607	9,934,706	3,914,099
Ohio.....	8	332	1,695	456,704	1,585,094	5,279,905	8,449,810	3,169,905
Other States ¹	11	180	1,405	363,884	1,409,336	6,540,143	10,758,452	4,213,309

¹ California, 3 establishments; Indiana, 1; Kansas, 1; Michigan, 2; Minnesota, 1; Pennsylvania, 1; Wisconsin, 2. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	8,742	6,912	8,592	9,569	10,225	9,681	8,469	8,126	8,525	9,464	8,850	8,204	8,226
1933.....	6,956	5,178	5,295	5,249	5,816	5,512	5,745	6,634	8,232	9,092	10,833	8,083	7,598
<i>States, 1935</i>													
California.....	66	67	67	67	66	66	66	66	66	66	65	66	67
Illinois.....	2,085	1,796	1,936	2,358	2,563	2,525	2,107	1,725	1,917	2,202	2,165	1,882	1,739
Iowa.....	2,382	1,314	2,437	2,582	2,866	2,807	2,380	2,322	2,329	2,412	2,367	2,382	2,381
New York.....	1,275	1,011	1,177	1,367	1,508	1,260	1,165	1,196	1,165	1,451	1,419	1,224	1,351
Ohio.....	1,595	1,542	1,648	1,788	1,755	1,559	1,427	1,509	1,698	1,890	1,474	1,417	1,436

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. "Washing Machines, Wringers, Driers, and Ironing Machines, for Household Use" industry, all products, total value.....	\$62,425,345	\$44,542,334	\$50,928,564	\$82,329,924
2. Washing machines, etc., and parts and accessories.....	60,313,499	42,533,564	48,304,724	77,065,445
3. Other products (not normally belonging to the industry).....	1,991,080	1,321,749	1,838,041	3,070,393
4. Receipts for custom and repair work.....	120,766	687,021	785,799	1,204,086
5. Washing machines, etc., made as secondary products in other industries.....	2,336,647	1,163,179	1,076,639	3,047,439
Washing machines, driers, etc., and parts and accessories, aggregate value (sum of 2 and 5).....	62,650,146	43,696,743	50,281,363	81,012,884
Washing machines for household use (including apartment size):				
Number reported:				
Number.....	1,375,076	1,017,088	883,350	1,133,860
Value.....	\$52,127,064	\$37,569,289	\$43,267,056	\$71,145,572
Number not reported, value.....	\$145,341	\$495,670	\$79,875	\$242,572
Electric (standard size):				
Number reported:				
Number.....	1,192,142	1,003,322	794,920	1,956,062
Value.....	\$43,048,375	\$37,044,353	\$30,039,293	\$59,930,902
Number not reported, value.....		\$495,670		
Gas- or gasoline-engine-driven (standard size):				
Number.....	166,796		49,911	127,832
Value.....	\$8,986,116		\$3,730,862	\$10,663,135
Other—apartment size, electric and water power; standard size, hand and water power:				
Number reported:		13,766		
Number.....	16,108	\$524,936	38,519	149,066
Value.....	\$92,573		\$406,901	\$551,535
Number not reported, value.....	\$145,341		\$79,875	\$242,572
Ironing machines:				
Electric:				
Number.....	147,700			
Value.....	\$4,615,056	\$2,150,143	\$2,794,338	\$4,015,222
Other types, and ironing-machine attachments for washing machines, value.....	\$143,022			
Wringers, ³ driers, and extractors, value.....	\$2,482,418	\$2,206,487	\$2,140,135	\$3,607,457
Parts and accessories, value.....	\$3,137,245	\$1,275,154	\$1,969,959	\$2,002,061

¹ Data for apartment-size washing machines made in 1929 included with those for "Electric (standard size)." ² No data.

³ Includes wringers made for sale to washing-machine manufacturers for attachment to washing machines.

⁴ Includes value of 6,179 washing machines and ironing machines not reported separately.

Group 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER

THE INDUSTRIES AS A GROUP

[See p. 42]

This group embraces those industries which are engaged primarily in the manufactures of aircraft, vehicles for land transportation, locomotives, and watercraft. Railroad repair shops are classified in Group 15. (See p. 1168.)

The combined value of products for Groups 14 and 15 for 1935 amounts to \$4,725,725,680, which represents the manufacture of all classes of transportation equipment and the repair of rolling stock and other railroad equipment. The corresponding value for 1933 is \$2,419,690,925. No comparable figures are available for earlier years. (See "Change in classification," p. 1168.)

SUMMARY FOR GROUP 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER: 1929 TO 1935

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹
Total for the group--	1935	1,868	480,889	\$656,313,570	\$2,986,850,300	\$4,305,628,615	\$1,318,769,215
	1933	1,551	307,373	319,315,723	1,292,289,578	2,058,195,466	765,903,888
	1931	2,058	373,759	468,609,220	1,736,927,675	2,898,625,589	1,101,697,914
	1929	2,550	583,355	943,221,905	3,683,148,078	6,047,209,890	2,304,061,312
Aircraft and parts-----	1935	79	11,384	14,892,800	14,015,475	45,347,030	31,331,555
	1933	64	7,816	10,307,560	7,959,663	26,400,002	18,508,429
	1931	101	9,870	15,480,647	13,101,494	40,278,273	27,176,784
	1929	132	14,710	21,923,844	27,368,103	71,152,924	43,784,821
Carriage, wagon, sleigh, and sled materials. ²	1929	45	681	564,635	1,481,988	2,792,228	1,310,246
Carriages and sleds, children's.	1935	55	4,918	4,359,817	7,419,516	15,511,111	8,091,595
	1933	46	3,971	2,877,486	5,670,700	10,084,601	5,314,291
	1931	59	4,159	4,479,408	7,090,608	16,769,379	9,078,771
	1929	79	7,102	8,313,356	13,514,787	28,817,800	15,363,673
Carriages, wagons, sleighs, and sleds.	1935	45	1,592	1,283,825	3,683,045	6,845,109	3,162,064
	1933	53	1,409	922,448	2,350,485	4,752,810	2,402,361
	1931	70	1,321	1,199,430	2,494,072	5,160,000	2,666,618
	1929	88	2,873	3,417,963	2,917,965	6,178,985	3,261,029
Cars, electric and steam railroad, not built in railroad repair shops.	1935	150	21,481	25,755,674	61,710,000	100,542,275	38,832,185
	1933	138	14,266	14,710,122	27,310,737	46,147,507	18,830,770
	1931	152	18,785	25,553,200	59,753,869	99,057,122	39,003,253
	1929	147	40,015	63,387,382	223,880,397	328,220,204	104,330,867
Locomotives (other than electric), not made in railroad repair shops.	1935	14	3,790	3,971,648	9,493,244	17,383,347	7,899,161
	1933	13	2,374	1,862,529	4,266,216	6,927,300	2,601,082
	1931	16	5,443	5,589,610	14,870,504	22,118,696	7,218,045
	1929	16	11,045	17,994,078	52,808,092	83,858,258	31,050,160
Motorcycles, bicycles, and parts.	1935	23	5,093	5,213,837	12,813,092	23,085,633	10,272,511
	1933	19	3,038	2,639,031	6,161,686	12,055,367	5,893,671
	1931	19	3,294	3,563,016	5,519,773	13,009,758	8,176,985
	1929	21	4,392	6,263,876	11,281,827	23,894,806	12,013,478
Motor-vehicle bodies and motor-vehicle parts.	1935	825	240,757	328,374,734	1,003,106,211	1,550,924,109	547,817,958
	1933	701	145,745	148,321,562	437,186,310	4,756,034,004	4,318,847,688
	1931	940	150,649	193,770,459	516,945,484	945,403,758	428,401,274
	1929	1,188	222,760	368,626,279	893,936,782	1,551,208,079	687,271,297
Motor vehicles, not including motorcycles.	1935	121	147,044	217,039,434	1,814,132,025	2,361,080,654	576,957,929
	1933	122	97,869	103,784,905	767,708,278	1,090,946,283	329,178,065
	1931	178	134,866	156,755,887	1,044,405,902	1,597,520,202	523,120,369
	1929	210	224,688	364,457,839	2,394,560,618	3,709,514,088	1,314,954,379
Ship and boat building, steel and wooden, including repair work.	1935	556	44,830	55,421,801	60,456,602	1,540,800,887	94,413,285
	1933	395	30,885	33,890,080	31,172,125	92,600,191	61,524,066
	1931	518	45,262	62,028,150	72,321,080	189,093,411	114,071,422
	1929	624	55,089	88,274,153	85,848,090	231,300,165	145,451,472

¹ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

² Abandoned as a separate industry classification. Manufacturers of such materials as pulleys, hubs, and spokes are now classified in "Wood turned and shaped and other wooden goods, not elsewhere classified," in Group 3, and manufacturers of other materials for carriages, wagons, etc., are assigned to "Carriages, wagons, sleighs, and sleds."

³ Manufacturers of horse-drawn lunch wagons, classified in this industry prior to 1933, are now assigned to "Planing-mill products" in Group 3. The italic figures for 1931 have been adjusted for comparison with 1933.

⁴ Revised; revision not carried into total for group.

⁵ Revised to include data for manufacture of trailers; comparable with subsequent years.

⁶ Revised to exclude data for manufacture of trailers; comparable with subsequent years.

1401

AIRCRAFT

[A preliminary report for this industry was issued Dec. 19, 1936]

Description of the industry.—The establishments in this industry are engaged primarily in the manufacture of complete aircraft or of aircraft parts other than engines and tires, or in the repair of aircraft. Establishments operated by the Federal Government are not canvassed. The values of the *power plants* installed in aircraft are *not* included in the values of aircraft reported for 1931 and subsequent years. At the Census for 1929, manufacturers were not given specific instructions on this point, and therefore it is possible that the values of power plants were included in some cases. Establishments engaged primarily in the manufacture of aircraft engines for sale as such are classified in the "Engines (Except Tractors), Turbines, Water Wheels, and Windmills" industry. The total production of aircraft engines in the Engine industry, in the Aircraft industry, and in other industries, is accounted for in table 5 of this report and also in tables 4 and 5 of the report for the Engine industry.

Comparableness of value figures for earlier years with those for 1935.—The comparableness of the value-of-products figures in tables 1 and 2, and of the figures for number and value in table 4, for the several census years is affected somewhat by changes in the wording of the questionnaire. (See footnote 2, table 4.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	79	64	101	132	(*)	—40.2
Proprietors and firm members.....	12	1	(1)	15	(*)	(*)
Salaried personnel, total ¹	3,547	(3)	(1)	3,910	(3)	—0.3
Salaried officers of corporations.....	147	(3)	(1)	254	(3)	—42.1
Supervisory, technical, and clerical employees.....	\$ 3,400	\$ 1,810	(1)	3,656	87.8	—7.0
Salaries paid, total ¹	\$6,582,069	(3)	(1)	\$9,524,258	(3)	—30.9
To salaried officers of corporations.....	\$967,690	(3)	(1)	\$1,683,630	(1)	—42.5
To supervisory, technical, and clerical employees.....	\$5,614,379	\$3,516,061	(1)	\$7,840,628	59.7	—28.4
Wage earners (average for year) ¹	11,384	7,816	9,870	14,710	45.6	—22.6
Wages.....	\$14,892,800	\$10,307,500	\$15,480,647	\$21,923,844	44.5	—32.1
Cost of materials, etc., total.....	\$14,015,475	\$7,956,663	\$13,101,494	\$27,368,103	76.1	—48.8
Cost of materials and supplies.....	\$13,536,319	(1)	(1)	\$26,761,105	(1)	—49.4
Cost of fuel.....	\$200,307	(1)	(1)	\$289,445	(1)	—30.8
Cost of purchased electric energy.....	\$278,849	(1)	(1)	\$317,553	(1)	—12.2
Value of products.....	\$45,347,030	\$26,460,092	\$40,278,278	\$71,152,024	71.4	—36.3
Value added by manufacture ⁷	\$31,331,555	\$18,503,429	\$27,176,784	\$43,784,821	69.3	—28.4

* Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 484; salaries, \$1,274,798. Technical, 861; salaries, \$1,725,832. Clerical, 2,065; salaries, \$2,613,749. See sec. 10, p. 7.

⁵ Supervisory, 345; salaries, \$1,043,777. Clerical and other, 1,465; salaries, \$2,472,284. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	79	3,547	11,384	\$6,582,069	\$14,892,800	\$14,015,475	\$45,347,030	\$31,331,555
California.....	12	1,187	3,482	1,880,937	4,754,086	5,208,395	15,883,918	10,675,523
Kansas.....	4	86	248	97,793	253,430	431,715	941,158	509,443
Maryland.....	3	368	2,031	783,968	2,385,343	1,560,298	5,494,057	3,934,419
Missouri.....	4	70	186	148,862	237,557	224,529	783,500	558,971
New Jersey.....	4	18	139	40,506	127,876	150,781	405,241	254,460
New York.....	18	504	1,791	1,067,873	2,387,454	2,684,042	7,820,297	5,136,255
Ohio.....	11	212	604	456,171	794,965	942,653	2,994,198	2,051,545
Pennsylvania.....	7	120	204	237,039	257,051	199,087	850,118	651,031
Other States ¹	16	982	2,700	1,868,920	3,695,038	2,614,035	10,173,943	7,559,908

¹ Colorado, 1 establishment; Connecticut, 4; Delaware, 1; Illinois, 1; Indiana, 1; Michigan, 4; Nebraska, 1; Oklahoma, 1; Rhode Island, 1; Washington, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

AIRCRAFT

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935	11,384	10,159	10,192	10,571	10,929	11,718	11,960	12,143	11,904	12,350	12,140	12,072	
1933	7,816	6,584	6,798	7,151	8,420	8,698	8,154	7,885	7,952	8,227	8,560	8,883	
<i>States, 1935</i>													
California	3,482	4,232	3,727	3,595	3,191	3,128	3,117	2,760	2,590	3,084	3,495	3,880	
Kansas	248	207	214	246	295	282	257	238	248	258	255	281	
Maryland	2,031	1,485	1,650	1,923	2,155	2,349	2,413	2,437	2,306	2,244	2,651	2,023	
Michigan	388	203	236	277	385	482	577	610	499	471	443	202	
Missouri	186	216	172	178	146	210	215	284	242	183	152	50	
New Jersey	139	67	88	139	149	117	88	202	193	297	216	108	
New York	974	1,191	1,346	1,370	1,548	1,818	1,998	2,115	2,245	2,244	2,175	2,363	
Ohio	604	713	759	530	505	692	734	740	690	573	325	247	
Pennsylvania	204	195	204	213	221	191	190	194	209	212	214	216	

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE: 1929 TO 1935

[No data for power plants installed in aircraft included in figures for 1931 and subsequent years; for 1929, see "Description of the industry," p. 1129]

	1935	1933	1931	1929
1. Aircraft and parts industry, all products, total value.	\$45,347,030	\$26,460,092	\$40,278,278	\$71,152,924
2. Aircraft and parts	40,121,838	24,356,402	35,177,958	65,711,536
3. Experimental work	3,521,204	1,210,897	3,035,154	3,070,404
4. Receipts for repair work	1 829,347	519,440	1,562,191	617,737
5. Other products (not normally belonging to the industry)	874,641	373,353	502,075	1,753,187
6. Aircraft parts made as secondary products in other industries	760,363	1,262,895	599,231	865,706
Aircraft and parts, aggregate value (sum of 2 and 6) ..	\$40,882,201	\$25,619,297	\$35,777,189	\$66,577,242
Aircraft, heavier-than-air, begun and completed within the year: 2				
Total number	1,354	1,151	2,468	6,631
Total value	\$17,241,665	\$15,670,218	\$21,789,997	\$51,508,120
Airplanes:				
Total number	1,313	1,083	2,357	6,522
Total value	\$14,894,543	\$13,448,768	\$17,623,471	\$46,847,691
Open-cockpit (new):				
Total number	328	594	1,744	4,483
Total value	\$4,917,134	\$7,184,801	\$10,350,031	\$24,643,652
Monoplanes:				
Number	70			
Value	\$1,631,328			
Biplanes: 3				
Number	258	(3)	(3)	(3)
Value	\$3,285,806			
Cabin (new):				
Total number	985	462	543	1,601
Total value	\$9,977,409	\$6,174,004	\$7,083,896	\$21,426,185
Single-engine, 1-3-place: 4				
Number	605	102	75	
Value	\$2,265,122	\$217,018	\$336,340	1,350
Single-engine, 4-place and larger: 4				
Number	263	267	384	
Value	\$1,142,113	\$1,584,295	\$5,213,210	\$9,185,791
Multi-engine: 5				
Number	117	93	84	251
Value	\$6,570,174	\$4,372,691	\$1,534,346	\$12,240,394
Rebuilt and reassembled:				
Number	(3)	27	70	433
Value	(3)	\$89,063	\$189,544	\$777,864
Seaplanes and amphibians: 4				
Number	41	68	111	109
Value	\$2,347,122	\$2,221,450	\$4,166,626	\$4,060,429
Other aircraft, value 7				
	\$212,666	\$189,777	\$578,420	\$648,797
Aircraft under construction (begun in 1934 and finished in 1935, and begun in 1935 and not finished at close of year), value of work done during year 8				
	\$14,068,866	\$2,485,677	\$2,826,507	(3)
Parachutes, propellers, and pontoons, value.....				
	\$2,831,580	\$1,375,343	\$1,358,093	\$3,528,436
Parts, value.....				
	\$0,527,424	\$5,898,282	\$9,224,172	\$10,891,889

1 Includes receipts for contract work, \$61,412.

2 For 1935, reported as "Begun and completed in 1935"; for 1933, as "Built in 1933"; for 1931, as "Built in 1931"; for 1929, as "Completed in 1929."

3 Not reported separately.

4 Monoplanes and biplanes for 1935. Not reported separately for earlier years.

5 Monoplanes only for 1935. Monoplanes and biplanes not reported separately for earlier years.

6 For 1933, includes data for 1 rebuilt amphibian; for 1931, 2 rebuilt amphibians and 1 rebuilt seaplane; for 1929, 4 rebuilt seaplanes.

7 Autogiros, lighter-than-air airships, and balloons.

8 Work done on 893 aircraft, \$12,618,815; work done on other aircraft, number not reported, \$1,450,051.

9 No data.

TABLE 5.—AIRCRAFT ENGINES—PRODUCTION, BY NUMBER, RATED CAPACITY IN DETAIL, AND VALUE: 1929 TO 1935

[See "Description of the industry," p. 1120]

YEAR	NUMBER, BY HORSEPOWER CAPACITY, RATED OR NORMAL, NOT OVERLOAD						Total rated horse-power 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		
1935.....	2,866	204	173	314	427	1,748	1,269,751	\$12,610,285
1933.....	¹ 1,822	15	15	18	329	1,445	¹ 928,625	¹ 8,651,247
1931.....	3,794	499	212	492	552	2,039	1,342,535	13,779,791
1929.....	² 6,276	(³)	(³)	(³)	(³)	(³)	(⁴)	² 24,966,083

¹ Not including data for aircraft engines valued at \$87,875, not reported by number or horsepower rating.² Not including data for 34 engines, value not reported, made and installed in aircraft built by the same establishments.³ No data.⁴ Data incomplete.

1403

CARRIAGES AND SLEDS, CHILDREN'S

Because of the close relation and the amount of overlapping between this industry and the "Toys (Not Including Children's Wheel Goods or Sleds), Games, and Playground Equipment" industry, in Group 16, the reports for the two industries have been combined and are presented in the section for Group 16. (See pp. 1268 to 1274.)

1404

CARRIAGES, WAGONS, SLEIGHS, AND SLEDS

[A preliminary report for this industry was issued Feb. 2, 1937]

Description of the industry.—The establishments in this industry are engaged primarily in the manufacture of complete horse-drawn vehicles (including sleighs and sleds) of all classes; of wheelbarrows, handcarts, and pushcarts; and of parts made for sale as such. Manufacturers of lunch wagons, classified in this industry at the Censuses for 1931 and prior years, have been classified in the Planing-Mill Products industry (to which manufacturers of other ready-cut structures are assigned) at the Censuses for 1933 and 1935. The figures for 1931 were revised accordingly for comparison with those for subsequent years, but no corresponding revisions of the 1929 figures have been made.

Omission of State statistics except for wage-earner employment.—As no figures can be given for the most important State in this industry, namely, Illinois, without disclosing approximations of data for individual establishments, and as those States for which it would be possible to publish separate figures without disclosing such approximations of data accounted for less than one-half of the total activity of the industry (as measured by number of wage earners employed) in the United States in 1935, no State statistics are included in this report except in table 2, in which figures are given for each State represented by three or more establishments, even though one or two of these establishments reported most of the wage earners employed in the industry in the State. (See sec. 23, p. 12.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1935, 1933, AND 1931

[No comparable figures available for 1929. See "Description of the Industry," p. 1135]

	1935	1933	1931	PERCENT OF INCREASE OR DECREASE (-)	
				1933-1935	1931-1935
Number of establishments.....	1 45	53	70	(*)	(*)
Proprietors and firm members.....	15	10	(?)	(*)	(?)
Salaried personnel, total ²	266	(?)	(?)	(?)	(?)
Salaried officers of corporations.....	55	(?)	(?)	(?)	(?)
Supervisory, technical, and clerical employees.....	³ 211	⁴ 201	(?)	5.0	(?)
Salaries paid, total ³	\$483, 220	(?)	(?)	(?)	(?)
To salaried officers of corporations.....	\$162, 922	(?)	(?)	(?)	(?)
To supervisory, technical, and clerical employees.....	⁵ \$320, 298	⁶ \$273, 930	(?)	16.9	(?)
Wage earners (average for year) ⁷	1, 592	1, 409	1, 321	13.0	20.5
Wages.....	\$1, 283, 825	\$922, 448	\$1, 196, 430	39.2	7.0
Cost of materials, etc., total.....	\$3, 683, 045	\$2, 350, 485	\$2, 494, 072	66.7	47.7
Cost of materials and supplies.....	\$3, 580, 408	(?)	(?)	(?)	(?)
Cost of fuel.....	\$56, 156	(?)	(?)	(?)	(?)
Cost of purchased electric energy.....	\$46, 481	(?)	(?)	(?)	(?)
Value of products.....	\$6, 845, 109	\$4, 752, 846	\$5, 160, 090	44.0	32.7
Value added by manufacture ⁸	\$3, 162, 064	\$2, 402, 361	\$2, 666, 013	31.6	18.6

* Percent not computed where base is less than 100.

¹ Alabama, 1 establishment; Georgia, 1; Illinois, 3; Indiana, 5; Iowa, 3; Kentucky, 1; Louisiana, 2; Massachusetts, 1; Michigan, 1; Minnesota, 5; Mississippi, 1; Missouri, 1; New York, 2; North Carolina, 3; Ohio, 3; Pennsylvania, 4; Tennessee, 3; Virginia, 3; Wisconsin, 2.² No data.³ No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.⁴ Data incomplete.⁵ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 86; salaries, \$159,855. Technical, 7; salaries, \$12,414. Clerical, 118; salaries, \$148,029. See sec. 10, p. 7.⁶ Supervisory, 81; salaries, \$157,481. Clerical and other, 120; salaries, \$116,449. See sec. 10, p. 7.⁷ See sec. 11, p. 7.⁸ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	1, 592	1, 510	1, 584	1, 529	1, 619	1, 530	1, 491	1, 543	1, 669	1, 700	1, 665	1, 613	1, 647
1933.....	1, 409	900	1, 016	973	1, 052	1, 062	1, 282	1, 477	1, 752	1, 865	1, 846	1, 775	1, 913
<i>States, 1935</i>													
Illinois.....	388	342	371	381	453	456	411	402	422	391	339	330	354
Indiana.....	273	261	271	276	279	275	278	272	269	281	275	272	267
Iowa.....	12	6	10	12	10	10	10	11	13	14	17	16	13
Minnesota.....	131	112	113	110	121	116	130	151	182	153	129	132	136
North Carolina.....	201	238	217	195	168	139	129	152	190	246	254	245	238
Ohio.....	55	44	51	50	50	54	54	53	56	56	57	59	76
Pennsylvania.....	86	71	75	76	77	79	78	79	82	100	119	119	117
Tennessee.....	52	45	50	49	48	49	47	47	48	49	52	56	79
Virginia.....	142	138	166	163	160	121	132	141	150	151	150	119	110

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1935 AND 1931

[No comparable figures available for 1933]

	1935	1931 ¹
1. "Carriages, Wagons, Sleighs, and Sleds" industry, all products, total value....	\$6,845,109	\$5,160,090
2. Carriages, wagons, sleighs, sleds, and wheelbarrows.....	4,706,693	2,065,267
3. Parts for sale as such.....	526,565	1,503,561
4. Receipts for repair work.....	190,002	183,700
5. Other products (not normally belonging to the industry).....	1,415,840	1,397,562
6. Carriages, wagons, sleighs, sleds, wheelbarrows, and parts, made as secondary products in other industries.....	2,145,464	1,030,190
Carriages, wagons, sleighs, sleds, wheelbarrows, and parts, aggregate value (sum of 2, 3, and 6).....	\$7,378,722	\$4,664,018
Horse-drawn vehicles, total:		
Number.....	101,460	30,262
Value.....	\$4,714,140	\$1,705,117
Farm wagons:		
Number.....	48,708	10,316
Value.....	\$2,948,017	\$754,742
Farm trucks:		
Number.....	49,040	16,043
Value.....	\$1,532,368	\$623,284
Business vehicles, including mail carriers' wagons, public conveyances, and log and lumber wagons:		
Number.....	492	823
Value.....	\$91,214	\$187,187
Carriages, buggies, and sulkies:		
Number.....	1,010	711
Value.....	\$84,280	\$68,233
Two-wheeled carts:		
Number.....	913	1,712
Value.....	\$34,634	\$52,982
Sleighs and sleds (including bobsleds):		
Number.....	697	657
Value.....	\$23,627	\$18,689
Wheelbarrows:		
Number.....	519,815	(²)
Value.....	\$2,050,041	\$1,243,460
Handcarts and pushcarts:		
Number.....	1,003	5,473
Value.....	\$21,278	\$73,102
Parts for sale as such, value.....	\$593,263	\$1,582,339

¹ Revised. See "Description of the industry," p. 1135.² Data incomplete.

1405

CARS, ELECTRIC AND STEAM RAILROAD, NOT BUILT IN RAILROAD REPAIR SHOPS

[A preliminary report for this industry was issued Mar. 10, 1937]

Description of the industry.—This industry consists in the building, rebuilding, and repair of railroad cars by establishments engaged primarily in such work, not including railroad repair shops. The figures in tables 4 and 5, however, cover the total production of railroad cars, regardless of the Census classification of the establishments by which reported.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	150	138	152	147	8.7	2.0
Proprietors and firm members.....	3		(1)	3		
Salaried personnel, total ²	3, 079	(3)	(1)	6, 098	(3)	-49.5
Salaried officers of corporations.....	42	(2)	(1)	101	(2)	-73.0
Supervisory, technical, and clerical employees.....	⁴ 3, 037	⁵ 2, 466	(1)	5, 937	23.2	-48.8
Salaries paid, total ²	\$5, 974, 142	(3)	(1)	\$13, 365, 728	(3)	-55.3
To salaried officers of corporations.....	\$234, 536	(2)	(1)	\$1, 424, 410	(2)	-83.5
To supervisory, technical, and clerical employees.....	⁴ \$5, 739, 606	⁵ \$4, 305, 308	(1)	\$11, 941, 318	30.6	-51.9
Wage earners (average for year) ⁶	21, 481	14, 266	18, 785	40, 015	50.6	-46.3
Wages.....	\$25, 755, 674	\$14, 710, 122	\$25, 553, 260	\$63, 387, 382	75.1	-59.4
Cost of materials, etc., total.....	61, 710, 090	27, 310, 737	59, 753, 369	223, 889, 397	126.0	-72.4
Cost of materials and supplies.....	59, 950, 428	(1)	(1)	219, 166, 065	(1)	-72.6
Cost of fuel.....	1, 156, 896	(1)	(1)	3, 334, 121	(1)	-65.3
Cost of purchased electric energy.....	602, 766	(1)	(1)	1, 389, 211	(1)	-56.6
Value of products.....	100, 542, 275	46, 147, 507	99, 657, 122	328, 220, 204	117.9	-69.4
Value added by manufacture ⁷	38, 832, 185	18, 836, 770	39, 903, 253	104, 350, 807	106.2	-62.8

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,142; salaries, \$2,815,906. Technical, 161; salaries, \$389,472. Clerical, 1,734; salaries, \$2,534,228. See sec. 10, p. 7.

⁵ Supervisory, 1,038; salaries, \$2,617,940. Clerical and other, 1,428; salaries, \$1,777,458. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 13, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 4 and 7, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel and purchased energy	Value of products	Value added by manufacture
United States.....	150	3,079	21,481	\$5,974,142	\$25,755,674	\$61,710,090	\$100,542,275	\$38,832,185
Illinois.....	23	879	5,845	1,668,150	7,430,060	17,099,138	29,017,245	11,918,107
Indiana.....	11	294	2,028	650,157	2,454,327	7,072,328	11,437,667	4,365,339
Iowa.....	4	4	35	8,106	47,187	93,440	154,654	61,214
Kansas.....	9	29	289	60,154	317,197	348,871	833,666	484,795
Louisiana.....	3	11	80	22,022	94,639	73,256	214,205	141,009
Maryland.....	4	79	199	111,948	245,165	329,555	791,117	461,562
Minnesota.....	5	14	279	29,072	304,520	408,801	793,288	384,487
Missouri.....	11	272	1,419	393,511	1,565,808	3,086,017	5,228,109	2,142,092
Nebraska.....	3	11	232	21,692	237,197	354,423	651,940	297,517
New Jersey.....	4	59	168	123,924	175,813	409,041	741,553	332,512
Ohio.....	8	58	319	121,975	353,253	782,461	1,272,784	490,323
Oklahoma.....	6	16	123	30,612	136,340	154,824	346,399	191,875
Pennsylvania.....	16	598	3,553	1,168,892	3,404,105	10,825,917	15,605,049	4,779,132
Wisconsin.....	4	47	274	159,772	400,404	388,452	949,699	561,247
Other States ¹	39	708	6,638	1,404,155	8,589,659	20,283,566	32,504,840	12,221,274

¹ Alabama, 1 establishment; Arkansas, 1; California, 5; Colorado, 1; Delaware, 3; Florida, 1; Georgia, 2; Idaho, 1; Massachusetts, 1; Michigan, 2; New York, 5; Rhode Island, 1; South Carolina, 1; Tennessee, 1; Texas, 4; Virginia, 3; Washington, 4; West Virginia, 1; Wyoming, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 32, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	21,481	19,709	22,090	24,654	26,958	27,251	21,367	17,109	17,206	18,245	20,132	20,962	22,093
1933.....	14,266	12,457	11,926	12,367	12,831	13,118	12,866	14,470	16,210	16,238	16,398	15,610	16,696
<i>States, 1935</i>													
California.....	1,254	1,168	1,327	1,394	1,515	1,527	1,140	1,085	1,210	1,174	1,235	1,116	1,151
Delaware.....	498	511	658	561	642	695	475	423	450	401	405	411	441
Illinois.....	5,845	5,263	6,641	8,319	9,227	9,303	5,895	3,804	3,465	3,798	3,959	4,380	6,091
Indiana.....	2,028	2,106	2,160	2,303	2,192	1,892	1,754	1,616	1,841	2,101	2,361	2,067	1,945
Iowa.....	35	36	36	34	34	34	34	34	35	35	36	38	37
Kansas.....	289	315	322	294	300	300	278	289	286	293	284	261	245
Louisiana.....	80	81	77	78	82	83	81	82	78	79	78	78	83
Maryland.....	199	144	131	172	186	207	199	223	227	222	235	227	220
Minnesota.....	279	231	261	271	269	352	396	396	266	275	294	252	88
Missouri.....	1,419	1,460	1,671	1,930	2,075	1,748	1,505	1,110	1,068	1,027	973	1,218	1,243
Nebraska.....	232	239	228	241	228	227	232	229	227	234	227	237	233
New Jersey.....	168	177	156	167	161	150	139	123	124	136	166	213	306
New York.....	1,700	1,341	1,932	2,170	2,275	2,514	2,264	1,389	1,532	1,359	1,187	1,191	1,243
Ohio.....	319	287	448	454	328	324	291	284	277	267	287	286	296
Oklahoma.....	123	130	140	131	129	134	135	130	125	119	103	102	100
Pennsylvania.....	3,553	2,527	2,722	2,853	3,406	3,318	2,768	2,867	3,156	3,665	4,718	5,450	5,193
Texas.....	45	43	41	30	38	42	49	44	46	48	52	52	52
Virginia.....	519	429	490	418	443	519	526	512	503	524	632	651	642
Washington.....	412	317	387	431	458	555	495	434	399	444	408	380	232
Wisconsin.....	274	269	265	269	266	269	275	278	283	279	283	276	274

TABLE 4.—CARS BUILT, BY NUMBER AND VALUE, AND REPAIR WORK DONE: 1935, 1931, AND 1929*

	1935	1931	1929
1. "Cars, Electric and Steam Railroad, Not Built in Railroad Repair Shops" industry, all products, total value.....	\$100,542,275	\$99,657,122	\$328,220,204
2. Cars and parts.....	41,449,403	57,377,356	225,443,597
3. Receipts for repair work.....	47,531,540	37,937,122	97,267,618
4. Products not normally belonging to the industry.....	11,561,332	4,342,644	5,508,989
5. Cars and parts made as secondary products in other industries (chiefly railroad repair shops).....	¹ 4,509,249	² 5,819,110	² 24,684,482
Car building and repair work, aggregate value (sum of 2, 3, and 5).....	¹ \$93,490,192	\$101,133,588	\$347,395,697
Cars, total value.....	\$28,541,759	\$48,840,687	\$249,678,748
Steam-railroad cars:			
Total number.....	8,947	15,204	87,608
Total value.....	\$25,308,413	\$40,576,403	\$235,585,366
Passenger service:			
Number.....	142	193	1,365
Value.....	\$4,318,363	\$5,566,296	\$35,009,127
Freight service:			
Total number.....	8,805	15,011	86,243
Total value.....	\$20,990,050	\$35,010,107	\$200,576,239
Box cars:			
Number.....	1,810	3,088	34,168
Value.....	\$4,619,046	\$6,345,690	\$80,988,587
Flat and gondola cars and cabooses: ³			
Number.....	547	1,349	15,947
Value.....	\$1,487,668	\$3,330,781	\$35,908,532
Hopper:			
Number.....	4,373	2,676	10,132
Value.....	\$9,477,900	\$5,973,866	\$24,681,068
Other, including refrigerator, tank, and undistributed: ⁴			
Number.....	2,075	7,948	25,966
Value.....	\$5,405,436	\$19,359,770	\$58,997,122
Electric-railroad cars: ⁵			
Number.....	7,229	368	551
Value.....	\$3,233,346	\$7,158,812	\$6,615,793
Self-propelled cars: ⁶			
Number.....	7,229	⁽⁷⁾ 1,105	146
Value.....	\$3,233,346	\$1,105,472	\$6,865,595
Not reported by service, kind, or number, value.....			\$611,094
Other products, including car parts, value.....	¹ \$17,416,893	\$14,290,462	² \$97,716,940
Receipts for repair work.....	\$47,531,540	² \$38,002,439	

* Comparable figures for 1933 are available for the following items only:

1. All products, total value.....	\$40,147,507
2. Cars and parts.....	\$10,364,938
3. Receipts for repair work.....	\$32,928,139
4. Products not normally belonging to the industry.....	\$2,854,430
5. Cars and parts, value, and receipts for repair work, reported as secondary activities of other industries.....	\$1,456,148
Car building and repair work, aggregate value (sum of 2, 3, and 5).....	\$44,749,225
Steam-railroad cars, freight service, total:	
Number.....	1,936
Value.....	\$3,474,592

¹ Includes value of light-weight articulated-train production, which can not be shown separately without disclosing output of individual establishments.² Includes receipts for repair work done in other industries (not including the Railroad Repair Shops industries), as follows: For 1931, \$65,317; for 1929, \$449,331.³ Figures for flat and gondola cars and cabooses combined to avoid disclosing approximations of 1935 production reported by individual establishments.⁴ Figures for refrigerator and tank cars and cars undistributed by kind combined to avoid disclosing approximations of 1935 production reported by individual establishments. Data for stock cars included also for 1931 and 1929; no stock cars reported for 1935.⁵ Cars propelled by motors driven by power-house energy.⁶ Cars propelled by internal-combustion engines, including gasoline-electric and Diesel-electric.⁷ Combined to avoid disclosing approximations of production reported by individual establishments.⁸ No data.

TABLE 5.—CARS BUILT, BY CLASS, TYPE OF CONSTRUCTION, NUMBER, AND VALUE: 1935, 1931, AND 1929

[This table includes data for cars built in other industries, chiefly the Steam and Electric Railroad Repair Shops industries, as follows: For 1935, 1,204 cars, valued at \$3,157,016; for 1931, 2,877 cars, \$5,753,793; for 1929, 12,753 cars, \$23,623,157]

KIND	Census year ¹	NUMBER					Value
		Total	Wood	Steel under-frame	Steel body with wood interior	All-steel	
Aggregate-----	1935	9,176	-----	1,740	1,622	5,814	\$28,541,759
	1931	15,572	21	8,105	1,622	5,824	48,840,687
	1929	88,305	155	35,737	14,272	38,141	249,678,748
Steam-railroad cars, total-----	1935	8,947	-----	1,671	1,523	5,753	25,308,413
	1931	15,204	21	8,105	1,548	5,530	40,576,403
	1929	87,608	114	35,737	13,901	37,856	235,585,366
Passenger service (including baggage, express, and mail)-----	1935	142	-----	-----	4	138	4,318,363
	1931	193	-----	-----	16	177	5,566,296
	1929	1,365	-----	86	6	1,273	35,009,127
Freight service-----	1935	8,805	-----	1,671	1,519	5,615	20,990,050
	1931	15,011	21	8,105	1,532	5,353	35,010,107
	1929	86,243	114	35,651	13,895	36,583	200,576,239
Electric-railroad cars and self-propelled cars-----	1935	220	-----	69	99	61	3,233,346
	1931	368	-----	-----	74	294	8,264,284
	1929	697	41	-----	371	285	14,093,382

¹ No corresponding figures available for 1933.

² Includes \$611,994, value of cars not reported by service, kind, or number.

³ Figures for electric-railroad cars only.

1406

LOCOMOTIVES (OTHER THAN ELECTRIC) NOT MADE IN RAILROAD REPAIR SHOPS

[A preliminary report for this industry was issued Mar. 6, 1937]

Description of the industry.—This industry embraces establishments engaged in the construction of locomotives other than electric, and of mechanical assemblies for electric locomotives. Complete electric locomotives are treated as products of the Electrical Machinery, Apparatus, and Supplies industry. (This classification does not cover railroad repair shops or other establishments that may build locomotives as a secondary activity. Tables 1 and 2 do not, therefore, include any data for such establishments, but their production of locomotives is covered by the figures given in table 3.)

Omission of State statistics except for wage-earner employment.—In order to avoid disclosing exact or approximate data for individual establishments, no State statistics are included in this report except in table 3, in which wage-earner figures are given for Pennsylvania, the only State in the industry represented by more than two establishments. (See sec. 23, p. 12.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	14	13	16	16	(*)	(*)
Proprietors and firm members.....	3	3	(?)	5	-----	(*)
Salaried personnel, total ¹	944	(?)	(?)	1,801	(?)	-47.6
Salaried officers of corporations.....	20	(?)	(?)	52	(?)	(*)
Supervisory, technical, and clerical employees.....	² 924	³ 826	(?)	1,749	11.9	-47.2
Salaries paid, total ³	\$1,953,661	(?)	(?)	\$5,519,672	(?)	-64.6
To salaried officers of corporations.....	\$138,583	(?)	(?)	\$817,649	(?)	-83.1
To supervisory, technical, and clerical employees.....	⁴ \$1,815,078	⁵ \$1,429,514	(?)	\$4,702,023	27.0	-61.4
Wage earners (average for year) ⁷	3,790	2,374	5,443	11,045	59.6	-65.7
Wages.....	\$3,971,648	\$1,862,529	\$5,589,610	\$17,994,078	113.2	-77.9
Cost of materials, etc., total.....	9,493,244	4,266,218	14,870,591	52,808,092	122.5	-82.0
Cost of materials and supplies.....	8,688,579	(?)	(?)	50,927,349	(?)	-82.9
Cost of fuel.....	604,711	(?)	(?)	1,433,096	(?)	-57.8
Cost of purchased electric energy.....	199,954	(?)	(?)	447,647	(?)	-55.3
Value of products.....	17,383,347	6,927,300	22,118,636	83,858,258	150.9	-79.3
Value added by manufacture ⁸	7,890,103	2,661,082	7,248,045	31,050,166	196.5	-74.6

*Percent not computed where base is less than 100.

¹ Alabama, 1 establishment; Georgia, 1; Illinois, 1; Iowa, 1; New York, 2; Ohio, 2; Pennsylvania, 5; Virginia, 1.

² No data.

³ No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

⁴ Data incomplete.

⁵ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 200; salaries, \$685,231. Technical, 124; salaries, \$326,238. Clerical, 600; salaries, \$803,009. See sec. 10, p. 7.

⁶ Supervisory, 231; salaries, \$789,683. Clerical and other, 545; salaries, \$639,331. See sec. 10, p. 7.

⁷ See sec. 11, p. 7.

⁸ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

LOCOMOTIVES, NOT MADE IN RAILROAD REPAIR SHOPS 1143

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR PENNSYLVANIA, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	3,790	4,079	4,103	4,352	4,318	3,946	3,807	3,158	3,305	3,332	3,491	3,821	3,770
1933.....	2,374	2,246	2,158	2,084	1,916	1,951	2,083	2,119	2,435	2,641	2,997	3,027	2,827
Pennsylvania, 1935.	1,579	2,054	2,047	2,011	2,084	1,985	1,866	1,181	1,139	1,145	1,122	1,129	1,184

TABLE 3.—LOCOMOTIVES, STEAM, ELECTRIC, AND INTERNAL-COMBUSTION—PRODUCTION, BY TYPE, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Locomotive industry, all products, total value.....	\$17,383,347	\$6,927,300	\$22,118,636	\$83,858,258
2. Locomotives, except electric.....	5,595,407	703,940	11,532,985	61,910,650
3. Parts and assemblies.....	6,770,273	2,123,991	2,230,145	9,050,822
4. Other products (not normally belonging to the industry).....	4,710,676	3,810,284	6,349,851	8,804,961
5. Receipts for contract and repair work.....	306,991	289,085	2,005,655	4,091,825
6. Locomotives made as secondary products in industries except "Locomotives (Other Than Electric)," and as primary products in the "Electrical Machinery, Apparatus, and Supplies" industry, value.....	16,139,809	1 2,044,379	1 1,539,958	1 20,998,208
Locomotives, aggregate value (sum of 2 and 6).....	21,735,216	1 2,748,319	1 13,072,943	1 82,908,858
Steam and electric: 3				
Standard-gage:				
Number.....	132		4 147	4 892
Value.....	\$19,243,199		4 \$11,460,782	4 \$61,543,983
Mining and industrial:				
Number.....	67	4 \$423,526	4 32	4 103
Value.....	\$668,680		4 \$888,049	4 \$1,261,124
Electric, standard-gage and mining and industrial, value 5.....	(6)	\$1,961,645	(7)	8 \$17,705,499
Internal-combustion:				
Standard-gage, value 6.....	\$1,490,104			
Mining and industrial:				
Number.....	91	10 86	11 193	700
Value.....	\$333,233	10 \$358,148	11 \$724,112	\$2,398,252

1 Revised.
 2 Not including value of electric locomotives.
 3 Figures for steam and electric locomotives combined for 1935 to avoid disclosing data for individual establishments.
 4 Steam only.
 5 Figures for standard gage and mining and industrial combined to avoid disclosing values reported for individual establishments; data for number incomplete.
 6 Withheld to avoid disclosing data for individual establishments; included in values of "steam and electric" locomotives, above.
 7 Withheld to avoid disclosing data for an individual establishment.
 8 Includes value of parts and assemblies for electric locomotives.
 9 Number of standard gage, 1935, incomplete.
 10 Includes 78,750, value of locomotives for which number was not reported.
 11 Includes 352,854, value of locomotives for which number was not reported.

1409

MOTORCYCLES, BICYCLES, AND PARTS

[A preliminary report for this industry was issued Sept. 5, 1936]

Description of the industry.—The establishments in this industry are engaged primarily in manufacturing or in assembling complete motorcycles and bicycles, or in manufacturing parts and accessories other than engines, tires, lamps, and electrical supplies.¹ The total value of products for the industry thus includes duplication to the extent to which the products of establishments engaged primarily in the manufacture of parts and accessories are used as materials by establishments manufacturing complete machines. Many of the parts and accessories are, however, sold to dealers or to consumers for use as additional equipment or for replacement.

¹ Engines, tires, lamps (other than electric), and electrical equipment (including electric lamps) made by establishments engaged primarily in the manufacture of these commodities are included as products of the "Engines (Not Including Tractors), Turbines, Water Wheels, and Windmills," "Rubber Tires and Inner Tubes," "Lighting Equipment," and "Electrical Machinery, Apparatus, and Supplies" industries, respectively.

TABLE I.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	23	19	19	21	(*)	(*)
Proprietors and firm members.....			(1)	3		
Salaried personnel, total ²	680	(*)	(1)	722	(*)	-5.8
Salaried officers of corporations... Supervisory, technical, and clerical employees.....	54 4 626	(*) 3 395	(1)	39 683	(*)	(*) -8.3
Salaries paid, total ²	\$1,348,187	(*)	(1)	\$1,754,837	(*)	-23.2
To salaried officers of corporations... To supervisory, technical, and clerical employees.....	\$414,181 4 \$934,006	(*) 3 \$565,151	(1)	\$335,013 \$1,419,824	(*)	23.6 -34.2
Wage earners (average for year) ³	5,093	3,038	3,294	4,392	67.6	16.0
Wages.....	\$5,213,837	\$2,639,031	\$3,563,016	\$6,263,876	97.6	-16.8
Cost of materials, etc., total.....	\$12,813,002	\$6,161,686	\$5,519,773	\$11,281,327	107.9	13.6
Cost of materials and supplies.....	\$12,428,071	(1)	(1)	\$10,937,207	(1)	13.6
Cost of fuel.....	\$208,128	(1)	(1)	\$168,170	(1)	23.8
Cost of purchased electric energy..	\$176,893	(1)	(1)	\$176,950	(1)	.5
Value of products.....	\$23,085,633	\$12,055,357	\$13,696,758	\$23,894,805	91.5	-3.4
Value added by manufacture ⁷	\$10,272,541	\$5,893,671	\$8,176,985	\$12,613,478	74.3	-18.6

* Not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 154; salaries, \$383,541. Technical, 7; salaries, \$15,956. Clerical, 465; salaries, \$529,509. See sec. 10, p. 7.

⁵ Supervisory, 65; salaries, \$205,666. Clerical and other, 330; salaries, \$359,485. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaries of officers and employes	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States..	23	680	5,093	\$1,348,187	\$5,213,837	\$12,813,092	\$23,085,633	\$10,272,541
Massachusetts.....	4	180	1,203	312,403	1,152,269	3,188,625	5,389,312	2,200,687
New York.....	5	56	669	195,672	650,201	1,722,575	2,966,383	1,243,808
Ohio.....	5	148	820	288,071	830,241	2,571,774	4,568,211	1,996,437
Other States ¹	9	296	2,402	552,041	2,581,126	5,330,118	10,161,727	4,831,609

¹ Connecticut, 1 establishment; Illinois, 2; Indiana, 1; Kentucky, 1; Michigan, 1; Pennsylvania, 1; Wisconsin, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	5,093	4,541	4,872	4,636	4,705	4,962	4,943	5,064	5,172	5,434	5,784	5,665	5,337
1933.....	3,038	2,092	2,275	2,125	2,449	2,595	2,666	2,998	3,630	3,951	4,335	3,854	3,487
<i>States, 1935</i>													
Massachusetts.....	1,203	1,169	1,173	1,112	1,203	1,262	1,198	1,189	1,196	1,241	1,279	1,258	1,153
New York.....	669	384	631	602	600	653	623	684	732	785	820	794	712
Ohio.....	820	768	757	649	640	725	746	828	875	906	1,007	1,000	935

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE: 1935, 1931, AND 1929

[No comparable figures available for 1933. See sec. 4, p. 3]

KIND	1935	1931	1929
1. Motorcycles, Bicycles, and Parts industry, all products, total value.....	\$23,085,633	\$13,696,758	\$23,894,805
2. Motorcycles, side cars, bicycles, and parts.....	20,596,726	11,034,228	19,280,319
3. Other products (not normally belonging to the industry).....	2,399,625	1,607,956	4,321,839
4. Receipts for repair work.....	89,282	154,574	292,597
5. Bicycles and parts for bicycles and motorcycles made as secondary products in other industries.....	2,210,630	1,351,123	1,917,930
Motorcycles, side cars, bicycles, and parts, aggregate value (sum of 2 and 5).....	\$22,807,356	\$13,285,351	\$21,198,249
Bicycles:			
Number.....	656,828	260,029	307,845
Value.....	\$12,059,867	\$4,733,254	\$6,183,773
Motorcycles, side cars, and parts for bicycles and motorcycles ¹	\$10,747,489	\$8,552,097	\$15,014,476

¹ Figures combined to avoid disclosing output of individual establishments.

TABLE 5.—BICYCLES—PRODUCTION, BY NUMBER AND VALUE: 1899 TO 1935

YEAR	Number	Value	YEAR	Number	Value
1899.....	1,182,691	\$23,556,487	1925.....	303,446	\$7,030,566
1904.....	250,487	3,740,923	1927.....	255,456	5,803,440
1909.....	233,707	3,228,189	1929.....	307,845	6,183,773
1914.....	398,899	5,361,230	1931.....	260,029	4,733,254
1919.....	479,163	¹ 12,498,000	1933.....	³ 320,000	¹ 5,402,000
1921.....	² 216,464	² 6,218,394	1935.....	656,828	12,059,867
1923.....	486,177	10,726,900			

¹ Estimated in small part.² Not including data for bicycles made by certain establishments engaged primarily in other lines of manufacture, not separately reported. The combined value of bicycles and parts made by these establishments amounted to \$176,464.³ Estimated in part.

1407 1407

MOTOR VEHICLES; MOTOR-VEHICLE BODIES AND MOTOR-VEHICLE PARTS

[A preliminary report for these industries was issued Dec. 7, 1936]

The manufacture of motor vehicles and the manufacture of bodies and parts for such vehicles are treated for Census purposes as separate industries. In table A (p. 1148) the cost of materials, fuel, etc., and the value of products are omitted because combined figures for the two industries would include a great deal of duplication due to the use of the products of the Bodies and Parts industry as materials in the Motor Vehicles industry. No such duplication appears, however, in the combined "Value added by manufacture" item (see sec. 18, p. 11), and therefore this item has genuine statistical significance.

Summary for manufacturers of complete motor vehicles.—Table B (p. 1148) presents a summary covering (a) all plants engaged primarily in the production of complete motor vehicles and (b) subsidiary plants engaged in the manufacture of bodies, parts, etc., operated by manufacturers who use the products of these plants as materials in the assembling of complete motor vehicles. About half of these subsidiary plants are classified in the Motor-Vehicle Bodies and Motor-Vehicle Parts industry, and the remainder are assigned to various other industries, such as Foundries; Machine Shops; Electrical Machinery, Apparatus, and Supplies; Hardware Not Elsewhere Classified; and Steel-Works and Rolling-Mill Products. The purpose of this table is to bring out the importance, as measured by the figures for salaried officers and employees, wage earners, and value added by manufacture, of the entire group of plants operated by manufacturers whose final products are complete motor vehicles. As some of these plants are in different industrial areas, and in some cases in different States, from the plants in which the complete motor vehicles made by the manufacturers in question are assembled, it is necessary to classify the plants manufacturing bodies, parts, etc., separately in the several industries in order to make possible the compilation of correct State and industrial-area statistics. A few of the motor-vehicle manufacturers operate plants engaged in the production of commodities other than complete motor vehicles or bodies or parts, but no data for such plants are included in table B.

Summary statistics for Detroit Industrial Area and city of Detroit.—Because of the great importance of these industries in the Detroit Industrial Area (comprising Oakland and Wayne Counties) and in the city of Detroit, summary statistics for both the industrial area and the city are included in table 2 for the Motor-Vehicle Bodies and Motor-Vehicle Parts industry, and summary statistics for Detroit are included in the corresponding table for the Motor Vehicles industry. It is necessary, however, to withhold the figures for the Motor Vehicles industry for the Detroit Industrial Area, in order to avoid disclosing (by permitting comparison of State and area figures) approximations of data for three important establishments under the same ownership, located within the State but outside the area.

TABLE A.—COMBINED SUMMARY FOR MOTOR VEHICLES AND MOTOR-VEHICLE BODIES AND MOTOR-VEHICLE PARTS INDUSTRIES, FOR THE UNITED STATES: 1929 TO 1935

[See first paragraph of text, p. 1147]

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	946	823	1, 118	1, 398	14. 9	-32. 3
Proprietors and firm members.....	377	252	(1)	576	49. 6	-34. 5
Salaried personnel, total ¹	37, 244	(2)	(1)	47, 017	(3)	-20. 8
Salaried officers of corporations.....	1, 164	(2)	(1)	1, 825	(3)	-36. 2
Supervisory, technical, and clerical employees.....	\$ 36, 080	\$ 28, 715	(1)	45, 192	25. 6	-20. 2
Salaries paid, total ²	\$76, 131, 443	(2)	(1)	\$137, 529, 384	(3)	-44. 6
To salaried officers of corporations.....	\$3, 081, 876	(2)	(1)	\$16, 801, 848	(3)	-51. 9
To supervisory, technical and clerical employees.....	\$68, 049, 567	\$51, 342, 874	(1)	\$120, 727, 536	32. 5	-43. 6
Wage earners (average for year) ³	387, 801	243, 614	285, 515	447, 448	59. 2	-13. 3
Wages.....	\$545, 414, 168	\$252, 106, 467	\$350, 526, 346	\$733, 082, 618	116. 3	-25. 6
Value added by manufacture ⁴	\$1, 124, 775, 887	\$648, 025, 693	\$951, 581, 634	\$2, 002, 225, 067	73. 6	-43. 8

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 8,351; salaries, \$25,666,059. Technical, 3,545; salaries, \$3,035,128. Clerical, 24,184; salaries, \$34,348,350. See sec. 10, p. 7.

⁵ Supervisory, 5,366; salaries, \$19,132,791. Clerical and other, 23,349; salaries, \$32,210,083. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, fuel, and purchased electric energy. See first paragraph of text above; see also sec. 18, p. 11.

TABLE B.—SPECIAL SUMMARY FOR COMPANIES OR CONCERNS ENGAGED IN MANUFACTURING COMPLETE MOTOR VEHICLES: 1935

[See "Summary for manufacturers of complete motor vehicles," p. 1147]

	Number or amount
Number of establishments.....	201
Proprietors and firm members.....	7
Salaried officers and employees.....	28, 329
Salaries.....	\$56, 133, 538
Wage earners (average for the year).....	339, 766
Wages.....	\$495, 001, 675
Value added by manufacture ¹	\$1, 024, 527, 259
Production of complete motor vehicles and chassis: ²	
Number.....	3, 922, 951
Value.....	\$2, 152, 509, 180

¹ This item comprises (a) the value added by manufacture (see sec. 18, p. 11) for the Motor Vehicle industry proper, as given in table 1, p. 1150, and (b) the value added by manufacture for the subsidiary plants referred to in the section headed "Summary for manufacturers of complete motor vehicles," p. 1147.

² See item 2, table 4.

MOTOR VEHICLES

Description of the industry.—The classification "Motor Vehicles, Not Including Motorcycles" applies to all manufacturing establishments whose principal products are motor-propelled vehicles having four wheels or more, for use on highways. (The manufacture of motorcycles and bicycles is treated as a separate industry.) Manufacturers of motor-propelled fire-department apparatus, street sweepers, road oilers, etc., are also classified in this industry.

Number of manufacturers.—For Census purposes an assembling plant (a plant in which parts made in another plant under the same management are assembled into complete motor vehicles) is treated as a manufacturing establishment. This is necessary in order that each State, industrial area, and city may be credited with its due share of the industry. As a result the number of *establishments* shown, 121, is much in excess of the actual number of *manufacturers*. The numbers of such manufacturers reporting for the last three census years (counting the General Motors organization as 6) were as follows: 1935, 86; 1933, 90; 1931, 124. The numbers of manufacturers of the several classes of vehicles reporting for 1935 are given below. (Manufacturers of two or more classes of vehicles are, of course, counted more than once.)

Passenger vehicles except busses and taxicabs ..	22	Trucks	41
Busses	17	Truck tractors	14
Taxicabs	2	Fire-department apparatus	23
Ambulances	6	Street-cleaning apparatus	2
Hearses and undertakers' wagons	6	Other vehicles and apparatus	5

Of the total of 3,212,835 passenger cars (exclusive of busses and taxicabs) built in 1935, 3,061,694, or more than 95 percent, were produced by 10 manufacturers (counting individually the five in the General Motors group).

Detailed statistics of products (table 4.)—In the total value of products of this industry some duplication results from the inclusion of the value of bodies and parts made (as secondary products) by certain manufacturers for sale to other manufacturers in the industry. (See item 3, table 4.) On the other hand, the value of the complete vehicles, chassis, etc., made during the census year was somewhat less than the net value of the output of the industry, for the reason that the latter includes the value of bodies and parts, and especially parts, produced for sale direct to dealers or individual customers for use as additional equipment or for replacement.

Annual total of monthly sales figures.—In addition to the biennial statistics, the Bureau of the Census compiles monthly reports on factory sales of motor vehicles. The total of the monthly figures for 1935, 3,946,934, is slightly in excess of the corresponding Biennial Census figure, 3,923,052, the difference being due to the fact that the monthly figures represent sales whereas the Biennial Census figure refers to production. Moreover, the returns made by some of the manufacturers reporting in the Biennial Census cover fiscal or business years differing from the calendar year, whereas the total of the monthly figures covers the calendar years in all cases.

Motor-vehicle registration.—Annual figures on motor-vehicle registration are assembled and published by the Bureau of Public Roads, Department of Agriculture.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	121	122	178	210	-0.8	-42.4
Proprietors and firm members.....	7	12	(1)	19	(*)	(*)
Salaried personnel, total ²	16,544	(3)	(1)	26,784	(3)	-38.2
Salaried officers of corporations.....	219	(3)	(1)	409	(3)	-40.5
Supervisory, technical, and clerical employees.....	⁴ 16,325	⁵ 15,155	(1)	26,375	7.7	-38.1
Salaries paid, total ²	\$32,482,359	(3)	(1)	\$78,954,520	(3)	-58.9
To salaried officers of corporations.....	\$2,224,448	(3)	(1)	\$6,370,893	(3)	-65.1
To supervisory, technical, and clerical employees.....	⁴ \$30,257,911	⁵ \$25,476,653	(1)	\$72,583,627	18.8	-58.3
Wage earners (average for year) ⁶	147,044	97,869	134,866	224,688	50.2	-34.6
Wages.....	\$217,039,434	\$103,784,905	\$156,755,837	\$364,457,330	109.1	-40.4
Cost of materials, etc., total.....	\$1,814,132,025	\$767,768,278	\$1,044,405,902	\$2,394,560,618	136.3	-24.2
Cost of materials and supplies.....	\$1,802,844,214	(1)	(1)	\$2,372,664,710	(1)	-24.0
Cost of fuel.....	\$6,941,787	(1)	(1)	\$12,686,385	(1)	-45.3
Cost of purchased electric energy.....	\$4,346,024	(1)	(1)	\$9,209,523	(1)	-52.8
Value of products.....	\$2,391,089,954	\$1,096,946,283	\$1,567,526,262	\$3,709,514,988	118.0	-35.5
Value added by manufacture ⁷	\$576,957,929	\$329,178,005	\$523,120,360	\$1,314,954,370	75.3	-56.1

* Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 3,122; salaries, \$9,971,977. Technical, 1,070; salaries, \$3,785,996. Clerical, 11,533; salaries, \$10,490,938. See sec. 10, p. 7.

⁵ Supervisory, 2,614; salaries, \$9,384,197. Clerical and other, 12,541; salaries, \$16,092,456. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	121	16,544	147,044	\$32,482,359	\$217,039,434	\$1,814,132,025	\$2,391,089,954	\$576,957,929
California.....	10	446	4,593	595,869	6,243,656	104,447,382	120,815,123	18,307,747
Illinois.....	9	279	3,774	683,813	5,192,770	54,302,371	63,622,858	9,320,457
Indiana.....	10	1,447	8,723	2,697,579	10,696,971	49,405,178	99,506,241	20,161,063
Michigan.....	23	9,094	83,988	19,076,487	134,822,472	861,045,534	1,244,481,744	383,430,210
City of Detroit ¹	11	3,840	36,691	7,947,545	57,169,622	326,883,878	515,385,050	188,501,172
Remainder of State.....	12	5,254	47,297	11,128,942	77,652,850	534,161,656	729,096,694	194,935,038
New York.....	12	942	4,978	1,614,670	7,041,187	120,265,938	140,717,813	20,461,875
Ohio.....	14	1,333	8,641	2,574,555	11,382,885	87,116,794	108,338,943	21,225,149
Pennsylvania.....	7	918	6,030	1,645,957	7,497,678	44,719,725	56,878,750	12,150,031
Other States ²	36	2,085	26,319	3,593,429	34,161,815	492,839,103	586,068,476	93,820,373

¹ See "Summary statistics for Detroit Industrial Area and city of Detroit," p. 1147.

² Colorado, 2 establishments; Connecticut, 1; Delaware, 1; Georgia, 1; Kansas, 1; Kentucky, 1; Maine, 1; Maryland, 2; Massachusetts, 2; Minnesota, 1; Missouri, 6; New Jersey, 3; North Carolina, 2; Tennessee, 1; Texas, 1; Virginia, 1; Washington, 1; Wisconsin, 8. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

Average number employed during year	NUMBER REPORTED FOR—											
	January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>												
1935.....	155,234	163,046	166,303	164,852	153,834	145,144	132,747	117,580	105,509	130,078	160,248	160,958
1933.....	93,738	91,984	77,624	85,856	91,687	101,211	107,005	109,668	110,666	100,307	100,015	104,078
<i>States, 1935</i>												
California.....	5,521	6,173	6,101	6,165	5,311	3,645	3,219	2,952	2,188	4,208	4,842	4,791
Illinois.....	3,990	4,710	4,647	4,545	4,370	3,798	3,337	2,867	2,762	2,947	3,767	3,555
Indiana.....	9,411	8,957	9,254	8,905	8,921	8,869	8,041	8,621	5,861	7,529	9,362	10,026
Michigan.....	83,988	89,695	92,318	90,790	89,166	83,947	73,622	68,401	54,062	81,500	97,311	99,066
Missouri.....	7,061	7,095	7,181	7,755	7,044	6,029	5,575	5,339	4,507	5,714	6,498	6,402
New Jersey.....	4,986	5,219	5,231	4,824	4,095	3,763	3,663	3,527	3,326	3,566	3,462	3,394
New York.....	5,708	6,006	5,704	5,648	4,588	3,173	4,774	4,710	3,144	4,010	4,815	4,845
Ohio.....	8,434	9,019	8,392	8,436	7,951	6,051	6,179	7,442	7,571	9,491	9,491	9,212
Pennsylvania.....	6,030	7,300	6,569	6,312	5,850	5,740	5,703	5,691	5,524	5,085	5,701	5,354
Wisconsin.....	4,679	4,913	4,945	4,874	4,180	4,932	4,800	4,662	3,476	3,991	4,338	4,749

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929
1. Motor Vehicles industry, all products, total value.....	\$2,391,089,954	\$1,096,946,283	\$1,567,526,262	\$3,709,514,988
2. Complete vehicles and chassis:				
Number.....	3,922,951	1,847,997	2,294,949	5,293,377
Value.....	\$2,152,509,180	\$928,606,035	\$1,386,081,671	\$3,410,367,947
3. Other products (including motor-vehicle parts), not normally belonging to the industry.....	\$237,331,631	\$167,263,102	\$174,068,762	\$287,658,735
4. Receipts for repair work.....	\$1,249,143	\$1,087,146	\$7,375,829	\$10,998,306
5. Motor vehicles and chassis made as secondary products in other industries:				
Number.....	101	16	114	710
Value.....	\$476,385	\$43,932	\$1,091,827	\$1,197,805
Motor vehicles and chassis, aggregate (sum of 2 and 5):				
Number.....	3,923,052	1,848,013	2,295,063	5,294,087
Value.....	\$2,152,985,565	\$928,649,967	\$1,387,173,498	\$3,412,055,752
Passenger vehicles (not including busses and taxicabs):				
Total number.....	3,212,835	1,534,366	1,911,717	4,362,215
Total value.....	\$1,752,794,114	\$753,133,689	\$1,119,816,868	\$2,767,339,368
Closed:				
Total number.....	3,191,877	1,516,343	1,786,393	3,917,370
Total value.....	\$1,739,271,495	\$744,268,071	\$1,059,550,098	\$2,537,937,625
2-door:				
Number.....	1,774,145	863,234	1,010,178	2,213,232
Value.....	\$870,233,256	\$382,609,572	\$495,182,310	\$1,192,833,441
4-door:				
Number.....	1,417,732	653,109	776,215	1,704,138
Value.....	\$869,038,239	\$361,658,499	\$564,367,788	\$1,345,104,084
Open:				
Total number.....	20,958	18,023	125,324	444,845
Total value.....	\$13,522,619	\$8,865,618	\$60,266,770	\$220,401,843
2-door:				
Number.....	11,432	10,211	103,947	298,401
Value.....	\$7,522,840	\$4,974,254	\$47,741,235	\$151,108,503
4-door:				
Number.....	9,526	7,812	21,377	146,444
Value.....	\$5,999,779	\$3,891,364	\$12,525,535	\$78,298,340
Motor busses (including school, sightseeing, and public-utility):				
Total number.....	4,817	1,574	4,241	9,072
Total value.....	\$27,175,589	\$6,947,847	\$17,926,575	\$31,612,477
Under 21 passengers:				
Number.....	1,156	407	1,147	5,639
Value.....	\$1,409,913	\$800,468	\$1,274,911	\$7,462,042
21 to 32 passengers:				
Number.....	2,325	886	1,967	2,332
Value.....	\$13,420,078	\$4,551,403	\$8,031,588	\$13,572,817
33 passengers and over:				
Number.....	1,336	281	1,127	1,101
Value.....	\$12,345,598	\$1,535,976	\$8,620,076	\$10,587,618
Trucks:				
Total number.....	505,226	213,683	243,647	385,756
Total value.....	\$271,202,161	\$110,765,361	\$159,210,971	\$269,598,024
Light delivery (less than 1 ton):				
Number.....	202,197	78,911	79,821	124,414
Value.....	\$84,718,897	\$30,380,301	\$35,672,812	\$64,229,473
1 to 1½ tons, inclusive:				
Number.....	268,215			
Value.....	\$142,674,375			
2 to 4½ tons, inclusive:				
Number.....	32,411	134,772	163,826	261,342
Value.....	\$35,908,665	\$80,385,060	\$123,538,159	\$205,278,551
.5 tons and over:				
Number.....	2,403			
Value.....	\$7,900,224			

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 TO 1935—Continued

	1935	1933	1931	1929
Motor vehicles and chassis—Contd.				
Hearse and undertakers' wagons:				
Number.....	1,681	825	1,145	2,316
Value.....	\$3,769,407	\$1,910,805	\$2,953,526	\$5,655,220
Ambulances:				
Number.....	253	418	196	361
Value.....	\$589,188	\$520,471	\$448,779	\$1,005,864
Truck tractors, taxicabs, and commercial vehicles not specified above:				
Total number.....	4,568	6,114	5,946	20,549
Total value.....	\$7,941,733	\$8,013,958	\$9,940,735	\$28,937,334
Truck tractors:				
Number.....	2,464	(¹)	400	181
Value.....	\$5,027,693	(¹)	\$1,534,375	\$493,711
Taxicabs and commercial vehicles not specified above: ²				
Number.....	2,104	(¹)	5,546	20,368
Value.....	\$2,914,040	(¹)	\$8,405,860	\$28,443,623
Fire-department apparatus:				
Total number.....	538	244	666	1,350
Total value.....	\$2,811,209	\$1,475,496	\$4,989,864	\$7,863,644
Engines:				
Number.....	428	216	475	(³)
Value.....	\$2,154,775	\$1,242,655	\$3,548,845	(³)
Hook-and-ladder trucks:				
Number.....	77	9	108	(³)
Value.....	\$479,621	\$101,849	\$854,594	(³)
Chemical wagons and other fire apparatus:				
Number.....	35	19	83	(³)
Value.....	\$176,313	\$130,992	\$536,425	(³)
Other vehicles and apparatus (street-cleaning apparatus, etc.):				
Number.....	124	46	292	249
Value.....	\$762,076	\$219,243	\$724,647	\$1,286,600
Chassis:				
Total number.....	193,010	90,743	127,213	512,219
Total value.....	\$85,940,088	\$45,063,097	\$71,161,533	\$298,847,221
Passenger:				
Number.....	40,596	8,756	7,556	76,401
Value.....	\$13,452,829	\$3,874,725	\$3,739,131	\$32,397,856
Commercial:				
Number.....	151,675	81,804	119,264	433,112
Value.....	\$71,702,215	\$41,569,282	\$66,617,541	\$259,431,350
Bus:				
Number.....	739	183	393	2,706
Value.....	\$785,044	\$219,090	\$304,861	\$7,018,015

¹ Withheld to avoid disclosing approximations of the output of individual establishments.
² Figures for taxicabs combined with those for commercial vehicles not specified above, to avoid disclosing approximations of production reported by individual manufacturers.

³ No data.

TABLE 5.—PRODUCTS, BY KIND, NUMBER, AND VALUE, BY STATES: 1935

[This table gives statistics for each State for which it is possible to publish separate figures without disclosing exactly or approximately, the output of individual establishments. In some cases, however, certain of the "Other States" outranked some of the States for which separate figures are given]

KIND AND STATE	Number of establishments	PRODUCTS	
		Number	Value
Passenger vehicles (not including busses and taxicabs).....	55	3, 212, 835	\$1, 752, 794, 114
California.....	6	183, 108	95, 183, 288
Michigan.....	16	1, 587, 441	946, 666, 731
Ohio.....	3	92, 794	43, 261, 327
Other States.....	30	1, 349, 492	667, 677, 768
Motor busses.....	23	4, 817	27, 175, 580
California.....	4	313	290, 258
Other States.....	19	4, 504	26, 876, 331
Trucks.....	74	505, 226	271, 202, 161
California.....	10	39, 120	19, 626, 875
Illinois.....	8	18, 281	13, 253, 140
Michigan.....	11	142, 341	82, 366, 073
New York.....	6	54, 777	26, 180, 346
Ohio.....	8	22, 488	15, 943, 371
Pennsylvania.....	4	13, 234	10, 132, 995
Other States.....	27	208, 985	103, 609, 361
Ambulances, hearses, and undertakers' wagons.....	7	1, 934	4, 358, 595
Ohio.....	3	994	2, 281, 005
Other States.....	4	940	2, 077, 590
Other motor vehicles and apparatus (taxicabs, truck tractors, fire-department apparatus, etc.).....	41	5, 230	11, 515, 018
California.....	3	9	28, 200
Indiana.....	3	62	154, 133
New York.....	6	161	748, 195
Ohio.....	5	1, 092	2, 093, 752
Pennsylvania.....	4	499	1, 875, 018
Other States.....	20	3, 407	6, 614, 820
Chassis (passenger, commercial, and bus).....	42	193, 010	85, 940, 088
Michigan.....	10	32, 516	12, 222, 751
New York.....	5	4, 689	2, 775, 370
Other States.....	27	155, 805	70, 941, 958

1407

MOTOR-VEHICLE BODIES AND MOTOR-VEHICLE PARTS

Description of the industry.—The establishments in this industry are engaged primarily in the manufacture, for sale as such (or for transfer to motor-vehicle manufacturing establishments located elsewhere but operated under the same ownership), of motor-vehicle bodies, tops, gears (transmission, differential, and steering), rims, frames, wheels, radiators, windshields, axles, bumpers, bumperettes, shock absorbers, various other parts and assemblies (except complete chassis), and trailers. The manufacture of certain other parts and assemblies, of which the most important are engines, tires, springs, ignition apparatus, batteries, starting and lighting systems, and stamped sheet-metal parts for motor vehicles (such as fenders, dust shields, and hoods), is not, however, included in this industry.¹ Where a manufacturer makes various motor-vehicle parts in his main plant and assembles them into complete vehicles at branches, the main plant, with its wage earners, is classified in the Bodies and Parts industry and the branches in the Motor Vehicles industry. Similarly, if a manufacturer builds bodies in one plant and installs them on chassis in another, the first plant is classified in the Bodies and Parts industry and the second in the Motor Vehicles industry. Where all the parts, including the bodies, are made and assembled in the same plant, the entire plant is classified in the Motor Vehicles industry proper and no separate report is made for the manufacture of the bodies and parts.

In making use of the figures for this industry, it must be kept in mind that they include some duplication due to the fact that certain simple parts are made and sold by some manufacturers to other manufacturers who install them in more complex parts and assemblies. Moreover, some of the establishments in this industry make knock-down body sets and other unassembled body parts for sale to body-assembly plants.

Detailed statistics of products.—The differences between the values of the several classes or groups of products, as given in table 4, and the values of products for the several branches of the industry, as given in table 1-A, are due to the fact that table 4 covers the entire output of each class or group of products, whether made as a major product in the branch of the industry to which it normally belongs or as a minor product in some other branch, or in another industry, whereas the value-of-products figures in table 1-A cover the respective *branches* of the industry, and therefore relate only to the

¹ Establishments engaged primarily in the manufacture of engines, tires, and springs, for sale as such, are classified, respectively, in the "Engines (Not Including Tractors), Turbines, Water Wheels, and Windmills" industry, the "Rubber Tires and Inner Tubes" industry, and the "Springs, Steel, Except Wire" industry; those making ignition apparatus and other electrical equipment as their products of chief value are classified under "Electrical Machinery, Apparatus, and Supplies"; and manufacturers of stamped sheet-metal parts are assigned to the "Stamped and Pressed Metal Products; Enameling, Japanning, and Lacquering" industry.

products actually made in these branches. To illustrate: The combined value, \$402,968,561, of bodies (\$394,367,348) and truck cabs (\$8,601,213) made in 1935, as shown by table 4, includes the values of bodies and cabs made as secondary products in the Parts and Trailers branches of the industry, and also of those made as secondary products in other industries, but does not include the values of commodities other than bodies and cabs, made as secondary products in the Bodies and Truck Cabs branch of the industry; whereas the value of products of the Bodies and Truck Cabs branch, as given in table 1-A (\$545,600,107), covers the secondary products made in that branch but does not include data for bodies and cabs made in other branches of the industry and in other industries.

TABLE 1.—GENERAL STATISTICS FOR THE INDUSTRY, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	825	701	940	1,188	17.7	-30.6
Proprietors and firm members..	370	240	(1)	557	54.2	-33.6
Salaried personnel, total ²	20,700	(1)	(1)	20,233	(3)	2.3
Salaried officers of corporations.....	945	(1)	(1)	1,416	(1)	-33.3
Supervisory, technical, and clerical employees.....	⁴ 19,755	⁵ 13,560	(1)	18,817	45.7	5.0
Salaries paid, total ²	\$43,649,084	(1)	(1)	\$53,574,864	(1)	-25.5
To salaried officers of corporations.....	\$5,857,428	(1)	(1)	\$10,430,955	(1)	-43.8
To supervisory, technical, and clerical employees.....	⁴ \$37,791,656	⁵ \$25,866,221	(1)	\$43,143,909	43.1	-21.5
Wage earners (average for year) ⁶	240,757	145,745	150,649	222,700	65.2	8.1
Wages.....	\$328,374,734	\$148,321,562	\$193,770,459	\$368,625,279	121.4	-10.9
Cost of materials, etc., total.....	⁷ \$1,003,106,211	⁷ \$437,186,316	\$516,945,484	\$863,936,782	129.4	16.1
Cost of materials and supplies.....	\$935,039,094	(1)	(1)	\$844,215,403	(1)	16.7
Cost of fuel.....	\$3,503,106	(1)	(1)	\$9,089,510	(1)	-8.5
Cost of purchased electric energy.....	\$9,564,011	(1)	(1)	\$10,631,869	(1)	-10.0
Value of products.....	\$1,550,924,169	⁷ \$756,034,004	\$945,406,753	\$1,551,203,079	105.1	(1)
Value added by manufacture ²	\$547,817,958	⁷ \$318,847,688	\$428,461,274	\$687,271,297	71.8	-20.3

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 5,229; salaries, \$15,694,082. Technical, 1,875; salaries, \$4,249,132. Clerical, 12,651; salaries, \$17,848,442. See sec. 10, p. 7.

⁵ Supervisory, 2,752; salaries, \$9,748,594. Clerical and other, 10,808; salaries, \$16,117,627. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Revised.

⁸ Decrease of less than one-tenth of 1 percent.

⁹ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 13, p. 11.

TABLE 1-A.—GENERAL STATISTICS FOR THE INDUSTRY AND ITS BRANCHES, FOR THE UNITED STATES: 1935

	The industry as a whole	Bodies and truck cabs	Parts	Trailers
Number of establishments.....	825	395	325	105
Proprietors and firm members.....	370	241	62	67
Salaried personnel, total ¹	20,700	5,840	14,319	541
Salaried officers of corporations.....	945	360	489	96
Supervisory employees.....	5,229	1,857	3,292	100
Technical employees.....	1,875	174	1,638	63
Clerical employees.....	12,651	3,469	8,900	282
Salaries paid, total ¹	\$43,649,084	\$11,720,302	\$30,810,503	\$1,118,279
To salaried officers of corporations.....	\$5,857,428	\$1,328,752	\$4,109,754	\$418,942
To supervisory employees.....	\$15,694,032	\$4,884,018	\$10,606,082	\$204,002
To technical employees.....	\$4,249,132	\$328,247	\$3,787,033	\$133,852
To clerical employees.....	\$17,848,442	\$5,179,305	\$12,307,654	\$361,483
Wage earners (average for year) ²	240,757	73,705	164,491	2,561
Wages.....	\$328,374,734	\$99,258,578	\$226,292,935	\$2,823,221
Cost of materials, etc., total.....	\$1,003,106,211	\$375,677,126	\$616,990,419	\$10,438,666
Cost of materials and supplies.....	\$95,039,094	\$371,629,486	\$603,161,567	\$10,248,041
Cost of fuel.....	\$8,503,106	\$1,415,899	\$7,029,871	\$57,335
Cost of purchased electric energy.....	\$9,564,011	\$2,631,741	\$6,798,981	\$133,289
Value of products ³	\$1,550,924,169	\$545,600,107	\$986,907,202	\$18,416,860
Value added by manufacture ⁴	\$647,817,958	\$169,922,931	\$369,916,783	\$7,978,194

¹ See footnote 2, table 1.

² See sec. 11, p. 7.

³ See "Detailed statistics of products," p. 1155.

⁴ Value of products less cost of materials, fuel, and purchased electric energy.

TABLE 2.—SUMMARY FOR THE INDUSTRY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 9, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	825	20,700	240,757	\$43,649,084	\$328,374,734	\$1,003,106,211	\$1,550,924,169	\$547,817,958
Alabama.....	5	20	75	26,139	68,306	248,314	391,272	142,958
California.....	86	276	2,202	601,788	2,925,185	13,453,534	19,155,337	5,701,803
Colorado.....	6	21	72	43,881	74,817	186,096	331,932	145,836
Connecticut.....	11	94	795	223,307	984,528	1,420,716	3,235,176	1,814,460
Florida.....	8	12	69	27,491	76,209	92,619	226,882	133,863
Illinois.....	79	675	4,107	1,492,261	4,374,814	12,668,894	25,064,697	12,395,803
Indiana.....	47	2,208	14,133	4,209,121	16,660,514	39,606,685	74,846,462	35,239,777
Iowa.....	15	70	396	110,289	363,452	851,994	1,653,402	801,408
Kansas.....	3	10	32	10,806	33,546	132,848	203,209	70,361
Massachusetts.....	24	92	504	221,625	583,896	1,127,001	2,405,810	1,278,219
Michigan.....	134	10,091	154,857	21,894,345	221,813,904	677,693,442	1,018,596,515	340,903,073
Detroit Industrial area.....	76	7,522	117,771	16,796,234	167,509,109	505,075,754	763,120,001	258,044,247
City of Detroit.....	57	4,639	52,344	11,443,969	75,704,568	210,710,483	335,773,989	125,063,606
Remainder of area.....	19	2,883	65,427	5,352,265	91,804,541	294,365,271	427,346,012	132,980,741
Remainder of State.....	58	2,569	37,086	5,098,111	54,304,795	172,617,688	255,476,514	82,858,826
Minnesota.....	20	79	472	121,564	492,126	1,200,865	2,106,709	905,844
Nebraska.....	5	8	19	9,875	14,407	38,327	87,307	48,980
New Jersey.....	26	293	1,503	606,696	1,840,800	2,941,855	6,113,556	3,171,701
New York.....	103	1,421	10,944	2,853,897	14,036,584	46,296,526	74,073,417	27,776,891
North Carolina.....	8	34	264	68,158	219,826	359,489	742,497	383,003
Ohio.....	74	2,618	26,220	5,349,599	33,822,539	99,136,453	164,454,438	65,317,085
Oregon.....	9	29	126	55,931	139,611	357,984	634,012	276,028
Pennsylvania.....	48	694	6,382	1,657,208	7,939,507	18,124,113	29,311,147	11,187,034
Rhode Island.....	4	6	37	12,171	44,304	71,917	148,077	76,160
Tennessee.....	4	15	68	28,820	80,645	206,580	289,162	82,582
Texas.....	13	32	120	53,416	110,484	321,475	542,568	221,063
Washington.....	10	55	274	89,317	323,590	290,714	730,073	439,359
Wisconsin.....	27	1,229	11,076	2,657,677	14,050,143	43,689,890	68,930,420	25,240,539
Other States ¹	56	618	5,510	1,223,702	7,350,997	42,587,890	50,651,083	14,063,193

¹ Arizona, 2 establishments; Delaware, 2; Georgia, 7; Idaho, 1; Kentucky, 2; Louisiana, 4; Maryland, 5; Mississippi, 2; Missouri, 20; New Hampshire, 1; North Dakota, 1; Oklahoma, 2; South Carolina, 2; South Dakota, 1; Utah, 1; Virginia, 2; West Virginia, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRY, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935
 [See secs. 11 and 23, pp. 7 and 12]

Average number employed during year	NUMBER REPORTED FOR—											
	January	February	March	April	May	June	July	August	September	October	November	December
United States	240,757	267,732	262,008	262,616	254,010	233,087	219,001	202,278	202,233	238,931	257,839	262,375
1933	145,745	(*)	115,930	(*)	(*)	146,466	(*)	(*)	168,936	(*)	(*)	167,309
States, 1935												
Alabama	75	70	71	71	60	64	76	83	87	81	87	84
California	2,202	1,990	2,193	2,292	2,469	2,418	2,300	2,349	1,643	2,295	2,659	2,400
Colorado	72	63	64	74	80	78	77	100	75	59	71	66
Connecticut	795	846	577	558	643	662	718	757	846	1,042	1,111	1,090
Florida	60	76	70	65	65	64	67	70	73	71	68	70
Georgia	830	781	945	932	879	879	874	836	826	844	852	825
Illinois	4,107	3,625	3,611	3,749	3,814	3,654	3,778	3,985	4,678	5,053	5,034	4,765
Indiana	14,133	14,394	14,026	13,638	13,349	13,022	13,077	12,876	13,426	14,676	15,838	17,238
Iowa	396	302	447	439	453	459	439	396	388	399	386	401
Kansas	32	36	35	36	33	30	38	28	27	32	30	28
Louisiana	64	64	65	66	65	63	63	65	64	62	63	62
Maryland	820	105	533	828	1,071	1,161	1,217	1,184	395	895	1,140	1,212
Massachusetts	504	507	452	507	500	496	480	483	485	512	556	561
Michigan	154,857	169,718	172,213	174,080	167,349	149,121	137,184	123,631	126,735	150,824	163,124	166,946
Minnesota	472	269	248	174,269	300	349	395	736	812	830	738	312
Missouri	3,506	3,237	4,292	4,370	3,863	3,769	3,551	3,420	2,215	3,539	3,936	3,618
Nebraska	19	14	15	19	22	15	20	19	20	21	25	23
New Jersey	1,503	1,480	1,572	1,640	1,638	1,434	1,434	1,379	1,481	1,459	1,501	1,557
New York	10,944	9,535	11,765	12,062	11,524	11,208	10,419	9,886	8,283	11,167	12,047	12,424
North Carolina	264	216	183	193	223	319	394	429	313	218	251	230
Ohio	26,220	23,701	29,192	27,847	27,052	25,705	24,537	23,341	22,919	25,678	27,781	26,986
Oregon	108	119	127	137	133	126	129	120	116	132	132	134
Pennsylvania	6,882	7,285	6,975	6,073	6,062	5,863	6,027	5,793	6,430	7,227	8,274	8,815
Rhode Island	37	32	32	33	33	34	37	40	39	48	50	34
Tennessee	68	60	63	60	63	68	74	75	70	75	70	70
Texas	120	116	135	113	112	109	110	129	114	124	111	114
Washington	274	239	215	239	250	272	295	398	359	279	256	244
Wisconsin	11,259	11,327	11,919	12,060	11,693	11,220	10,689	9,340	8,970	10,959	11,674	11,806

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE: 1935 AND 1931

[This table covers production for sale and for interplant transfer. See "Description of the industry," p. 1155. No strictly comparable figures for 1933 and 1929 are available for many of the items in this table.]

	1935	1931
1. Motor-Vehicle Bodies and Motor-Vehicle Parts industry, all products, total value.....	\$1, 550, 924, 169	\$945, 406, 758
2. Bodies, parts, and trailers.....	1, 424, 639, 706	854, 878, 342
3. Other products (not normally belonging to the industry).....	122, 369, 590	82, 528, 001
4. Receipts for contract and repair work.....	3, 914, 873	8, 000, 325
5. Bodies, parts, and trailers made as secondary products in other industries.....	102, 823, 129	97, 827, 572
Motor-vehicle bodies and parts and trailers, aggregate value (sum of 2 and 5).....	\$1, 527, 462, 835	\$952, 705, 914
Bodies, total value.....	\$894, 367, 348	\$262, 561, 545
Passenger (not including bus and taxicab):		
Total number.....	2, 083, 205	1, 321, 549
Total value.....	\$351, 682, 014	\$226, 671, 324
Closed:		
Total number.....	2, 056, 949	1, 280, 346
Total value.....	\$346, 916, 366	\$220, 889, 816
2-door:		
Number.....	1, 211, 813	710, 724
Value.....	\$179, 201, 805	\$106, 379, 631
4-door:		
Number.....	845, 136	578, 622
Value.....	\$167, 714, 501	\$114, 510, 185
Open:		
Total number.....	26, 226	16, 163
Total value.....	\$4, 759, 024	\$3, 272, 160
2-door:		
Number.....	16, 874	8, 226
Value.....	\$3, 149, 624	\$1, 123, 428
4-door:		
Number.....	9, 352	7, 937
Value.....	\$1, 609, 400	\$2, 148, 732
Passenger, not reported by kind:		
Number.....	30	16, 040
Value.....	\$6, 624	\$2, 609, 348
Bus, total value.....	\$10, 036, 762	\$6, 692, 786
Number reported:		
Number.....	10, 983	7, 663
Value.....	\$10, 015, 319	\$6, 692, 786
Number not reported, value.....	\$21, 443	
Under 21 passengers:		
Number.....	2, 880	2, 032
Value.....	\$2, 013, 211	\$1, 153, 157
21 to 32 passengers:		
Number.....	1, 852	2, 840
Value.....	\$2, 474, 043	\$2, 374, 783
33 passengers and over:		
Number.....	6, 242	1, 235
Value.....	\$5, 528, 065	\$1, 494, 486
Bus, not reported by size:		
Number reported:		
Number.....		956
Value.....		\$1, 170, 360
Number not reported, value.....	\$21, 443	
Truck, commercial, and other, total value.....	\$32, 648, 572	\$29, 197, 435
Number reported:		
Number.....	189, 880	176, 704
Value.....	\$29, 463, 985	\$28, 072, 511
Number not reported, value.....	\$3, 184, 587	\$1, 124, 924
Panel:		
Number.....	63, 431	48, 763
Value.....	\$12, 345, 053	\$9, 068, 216
Platform:		
Number reported:		
Number.....	40, 022	42, 350
Value.....	\$4, 072, 091	\$3, 665, 767
Number not reported, value.....	\$236, 563	

MOTOR-VEHICLE BODIES AND PARTS

1161

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE: 1935 AND 1931—Contd.

[See note at head of table]

	1935	1931
Motor-vehicle bodies and parts and trailers—Continued.		
Bodies—Continued.		
Truck, commercial, and other—Continued.		
Dump:		
Number reported:		
Number.....	41,657	24,409
Value.....	\$5,206,751	\$3,739,765
Number not reported, value.....	\$570,743	
Express:		
Number.....	25,526	23,523
Value.....	\$1,723,102	\$2,686,366
Ambulance:		
Number.....	1,008	(1)
Value.....	\$854,964	
Hearse:		
Number.....	375	844
Value.....	\$455,354	\$334,189
Other (taxicab, sedan-delivery, refrigerator, trailer, and other special types):		
Number reported:		
Number.....	14,037	19,646
Value.....	\$4,273,824	\$5,318,191
Number not reported, value.....	\$1,001,702	
Truck, commercial, and other, not reported by kind:		
Number reported:		
Number.....	3,824	12,164
Value.....	\$532,846	\$2,729,517
Number not reported, value.....	\$1,375,579	\$1,124,924
Truck cabs:		
Number reported:		
Number.....	101,605	(1)
Value.....	\$8,234,125	
Number not reported, value.....	\$367,988	
Trailers for motor trucks, truck tractors, and passenger cars, total value.....	\$19,064,170	\$9,556,432
Number reported:		
Total number.....	22,951	12,647
Total value.....	\$15,018,524	\$9,556,432
Number not reported, value.....	\$4,045,646	
For motor trucks and truck tractors:		
Number reported:		
Number.....	18,898	(1)
Value.....	\$14,124,138	
Number not reported, value.....	\$3,871,617	
For passenger cars:		
Number reported:		
Number.....	3,905	(1)
Value.....	\$1,716,313	
Number not reported, value.....	\$129,621	
Trailers, not reported by kind:		
Number reported:		
Number.....	148	
Value.....	\$78,068	
Number not reported, value.....	\$44,608	
Parts, total value.....	\$1,104,530,104	\$680,037,937
Axles, total value.....	\$88,850,393	\$67,744,893
Front:		
Number.....	2,668,304	1,720,416
Value.....	\$20,524,421	\$15,723,268
Rear, complete assemblies:		
Number.....	1,874,097	1,598,838
Value.....	\$58,325,972	\$52,021,625
Axle shafts:		
Number reported:		
Number.....	3,256,085	2,437,763
Value.....	\$3,417,217	\$4,052,271
Number not reported, value.....	\$197,977	

For footnotes, see end of table.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE: 1935 AND 1931—Contd.

[See note at head of table]

	1935	1931
Motor-vehicle bodies and parts and trailers—Continued.		
Parts—Continued.		
Bumpers:		
Number reported:		
Number.....	6,526,142	2,991,689
Value.....	\$13,031,565	\$7,612,200
Number not reported, value.....	\$794,613	\$183,709
Frames, total value.....	\$45,569,208	\$21,764,953
Assembled:		
Number.....	3,806,179	2,536,680
Value.....	\$40,318,506	\$17,222,231
Unassembled (sets):		
Number.....	482,560	421,621
Value.....	\$5,250,702	\$4,542,722
Gears, steering, complete units:		
Number.....	3,650,546	1,592,637
Value.....	\$14,712,476	\$6,735,093
Gears other than steering (transmission, differential, etc.), value.....	\$44,598,667	\$45,575,870
Gears not reported by kind, value.....	\$1,023,526	.....
Heaters and horns, total value.....	\$20,670,563	\$9,027,001
Heaters:		
Number.....	(²)	870,844
Value.....		\$4,494,912
Horns:		
Number.....	(²)	3,105,894
Value.....		\$4,532,059
Radiators (shells and cores), value.....	\$38,376,922	\$27,312,134
Rear-axle housings:		
Number.....	2,246,422	1,326,163
Value.....	\$4,729,702	\$3,834,795
Shock absorbers:		
Number reported:		
Number.....	14,349,755	8,151,441
Value.....	\$18,782,083	\$10,619,606
Number not reported, value.....	.....	\$512,674
6-wheel sets or third-axle attachments, value.....	\$896,994	\$1,073,415
Wheels (other than 6-wheel sets or third-axle attachments):		
Total number.....	22,109,454	12,898,113
Total value.....	\$29,896,502	\$24,163,940
Disc:		
Number.....	8,647,557	1,780,869
Value.....	\$12,543,792	\$4,859,390
Wire:		
Number.....	7,057,180	9,654,833
Value.....	\$8,643,025	\$14,786,622
Cast-metal and wood-spoke:		
Number.....	6,404,717	1,482,361
Value.....	\$8,709,685	\$4,517,928
Windshields:		
Number.....	1,317,053	523,214
Value.....	\$8,937,478	\$3,177,606
Other parts and parts not reported by kind ³	\$770,044,228	\$446,097,777

¹ Not reported separately.² Not reported separately by all manufacturers.

³ Includes engines and parts not reported separately, made for transfer to plants in the Motor Vehicles industry operated under same ownership. Also includes, for 1935, knock-down body sets and other unassembled body parts not reported by kind. (See second paragraph of "Description of the industry," p. 1155.) Also includes following, for which figures are combined to avoid disclosing approximations of output of individual establishments: Clutches, rims, and windshield wipers, reported separately, and pick-up bodies, so far as separately reported.

SHIP AND BOAT BUILDING, STEEL AND WOODEN, INCLUDING REPAIR WORK

A preliminary report for this industry was issued Mar. 15, 1937]

Description of the industry.—This industry, as defined for Census purposes, embraces shipyards and other establishments engaged primarily in building and repairing vessels of all classes and sizes, and establishments producing masts, spars, and other such accessories for vessels. Since 1919 no data have been collected from shipyards operated by the Federal Government.

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

Value of products.—The term "value of products" as used in reference to craft that were begun and completed within the year, covers the entire value, including builders' profits, but in the cases of those that were begun within the preceding year and completed in the census year or were begun within the census year and completed later, it represents only the actual expenditures for labor, materials, etc. Thus the figures for "Work done within the year on vessels launched and boats completed within the year" in table 4 include the actual values of small craft begun and completed within the year but consist mainly of expenditures for labor and materials on other craft that were not begun and completed within the year. No figures on tonnage of vessels launched are given in table 4, for the reason that the data supplied by shipbuilders were incomplete.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	556	395	(1) 518	624	40.8	-10.9
Proprietors and firm members.....	233	144	(1)	345	61.8	-32.5
Salaried personnel, total ²	6,491	(³)	(1)	5,935	(³)	9.4
Salaried officers of corporations.....	496	(³)	(1)	559	(³)	-11.3
Supervisory, technical, and clerical employees.....	⁴ 5,995	⁵ 3,868	(1)	5,376	55.0	11.5
Salaries paid, total ²	\$14,887,322	(³)	(1)	\$15,717,446	(³)	-5.3
To salaried officers of corporations.....	\$2,479,148	(³)	(1)	\$3,463,413	(³)	-28.4
To supervisory, technical, and clerical employees.....	⁴ \$12,408,174	⁵ \$7,494,216	(1)	\$12,254,033	65.6	1.3
Wage earners (average for year) ⁶	44,830	30,885	45,262	55,089	45.2	-18.6
Wages.....	\$55,421,801	\$33,890,080	\$62,028,150	\$88,274,153	63.5	-37.2
Cost of materials, etc., total.....	60,486,602	31,172,125	72,321,989	85,848,690	94.0	-29.5
Cost of materials and supplies.....	57,446,428	(1)	(1)	81,744,283	(1)	-29.7
Cost of fuel.....	1,198,246	(1)	(1)	1,882,078	(1)	-36.4
Cost of purchased electric energy.....	1,841,928	(1)	(1)	2,221,729	(1)	-17.1
Value of products.....	154,899,887	92,696,191	186,993,411	231,300,165	67.1	-33.0
Value added by manufacture ⁷	94,413,285	61,524,066	114,671,422	145,451,475	53.5	-35.1

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 1,423; salaries, \$4,761,839. Technical, 406; salaries, \$1,155,215. Clerical, 4,166; salaries, \$6,491,120. See sec. 10, p. 7.

⁵ Supervisory, 1,201; salaries, \$3,988,251. Clerical and other, 2,667; salaries, \$3,505,965. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 4 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc. fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	556	6,491	44,830	\$14,887,322	\$55,421,801	\$60,486,602	\$154,899,887	\$94,413,285
California.....	64	338	2,984	934,169	3,897,085	3,877,492	10,931,188	7,053,696
Delaware.....	6	36	169	75,196	200,051	265,023	568,167	303,134
Florida.....	34	72	537	143,589	598,221	426,479	1,608,761	1,242,282
Illinois.....	12	23	235	53,226	235,023	189,716	616,512	426,796
Louisiana.....	11	79	912	199,378	867,016	555,708	2,327,627	1,771,919
Maryland.....	26	247	2,420	553,009	2,139,492	1,577,429	5,960,879	4,383,450
Michigan.....	16	129	660	374,808	859,341	1,011,761	2,865,885	1,854,124
Minnesota.....	9	12	103	17,393	134,087	153,067	340,604	180,637
New Jersey.....	45	1,449	8,135	3,133,667	9,264,460	13,507,794	28,993,411	15,485,647
New York.....	106	930	6,963	2,145,952	9,811,394	8,761,659	27,467,885	17,706,226
Ohio.....	14	108	628	216,961	721,462	605,853	1,981,329	1,375,476
Oregon.....	6	14	107	35,541	167,030	131,576	373,753	242,177
Pennsylvania.....	16	448	2,452	1,022,470	2,824,933	2,811,380	7,260,021	4,448,641
Rhode Island.....	8	21	315	35,229	382,536	378,508	904,320	525,882
Texas.....	10	84	830	218,131	1,013,060	815,867	2,897,054	2,081,187
Washington.....	35	116	1,129	289,461	1,536,787	908,323	3,324,528	2,410,295
Wisconsin.....	13	84	413	154,674	505,998	465,151	1,390,706	865,555
Other States ¹	125	2,296	15,838	5,284,468	20,273,825	23,042,946	55,087,107	32,044,281

¹ Alabama, 4 establishments; Connecticut, 21; Georgia, 3; Indiana, 2; Iowa, 2; Kansas, 1; Kentucky, 1; Maine, 27; Massachusetts, 35; Mississippi, 2; Missouri, 2; North Carolina, 2; South Carolina, 2; Virginia, 19; West Virginia, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—												
		January	February	March	April	May	June	July	August	September	October	November	December	
United States														
1935.....	44,895	40,151	43,521	43,766	45,970	48,385	41,815	43,981	43,682	44,611	46,408	48,210	48,240	
1933.....	30,885	(*)	(*)	27,537	(*)	(*)	28,697	(*)	(*)	35,042	(*)	(*)	35,945	
States, 1935														
Alabama.....	1,193	868	1,655	1,463	1,387	1,029	793	1,319	1,358	656	835	1,433	1,524	
California.....	2,984	2,960	3,468	3,201	2,791	2,535	2,595	2,679	3,201	3,243	3,203	3,173	2,759	
Connecticut.....	1,852	1,372	1,413	1,651	1,909	2,082	1,991	1,929	1,953	1,985	2,011	1,982	1,941	
Delaware.....	169	162	119	124	164	143	152	116	151	175	205	230	283	
Florida.....	537	606	502	468	538	504	508	581	618	448	413	648	553	
Georgia.....	46	40	45	45	51	46	44	49	49	62	43	42	46	
Illinois.....	242	164	195	138	224	330	231	199	289	232	320	273	306	
Louisiana.....	914	1,061	1,013	932	819	1,163	840	799	935	882	876	827	827	
Maine.....	851	792	777	795	865	923	928	854	838	826	850	879	890	
Maryland.....	2,420	2,276	2,447	2,195	2,434	2,337	2,683	3,333	2,923	2,110	2,122	2,022	2,163	
Massachusetts.....	5,174	3,911	4,125	4,603	4,779	5,238	5,458	5,625	5,732	5,624	5,621	5,619	5,752	
Michigan.....	660	408	506	607	1,018	1,028	758	663	578	551	538	596	620	
Minnesota.....	103	69	72	84	104	118	123	165	146	104	101	70	73	
New Jersey.....	8,135	7,841	8,200	8,731	8,854	9,470	5,396	5,790	5,340	8,897	9,594	9,714	9,788	
New York.....	6,972	5,926	6,334	6,135	7,078	8,434	7,214	7,278	7,235	6,756	6,716	7,326	7,235	
Ohio.....	675	642	613	646	738	622	518	687	663	375	675	863	1,043	
Oregon.....	107	110	139	154	84	83	63	107	112	120	93	123	99	
Pennsylvania.....	2,452	2,272	2,535	2,310	2,398	2,320	2,032	2,005	2,070	2,346	2,838	3,002	3,244	
Rhode Island.....	315	353	302	351	396	452	400	291	244	280	255	232	229	
Texas.....	830	764	899	877	955	816	622	1,130	997	799	752	695	656	
Virginia.....	6,315	5,660	5,926	5,968	6,080	6,375	6,469	6,540	6,643	6,568	6,579	6,573	6,476	
Washington.....	1,129	1,059	1,224	1,283	1,375	1,193	1,169	1,109	999	968	1,054	1,126	1,065	
Wisconsin.....	413	321	408	487	568	668	486	350	291	250	329	420	330	

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

¹ As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—NUMBER OF VESSELS LAUNCHED AND VALUE OF WORK DONE DURING YEAR, DISTRIBUTED ACCORDING TO MATERIAL (STEEL AND WOOD) AND KIND OF POWER: 1929 TO 1935

MATERIAL AND KIND OF POWER	Census year	Number of vessels launched	Value of work done during year ¹
1. Ship and Boat Building industry, all products, total value.....	1935 1933 1931 1929	----- ----- ----- -----	\$154,899,887 92,696,191 186,993,411 231,300,165
2. Ship and boat building (work done on vessels under construction), repair work, and miscellaneous products belonging to the industry, value.	1935 1933 1931 1929	----- ----- ----- -----	149,692,991 89,039,082 179,811,278 228,308,025
3. Other products (not normally belonging to the industry), value..	1935 1933 1931 1929	----- ----- ----- -----	5,206,896 3,607,109 7,182,133 7,992,140
4. Ship and boat building and repair work, secondary activities of other industries, value.	1935 1933 1931 1929	----- ----- ----- -----	308,966 22,828 963,310 1,876,229
Ship and boat building and repair work, aggregate value (2 and 4)	1935 1933 1931 1929	----- ----- ----- -----	150,001,957 89,111,910 180,777,588 228,184,264
Work done within the year on vessels launched and boats completed within the year, total.	1935 1933 1931 1929	----- ----- ----- -----	31,793,023 18,428,688 64,701,996 83,398,744
Vessels of 5 gross tons ² and over:			
Steel:			
Steam.....	1935 1933 1931 1929	12 7 38 43	18,224,475 12,494,771 33,280,268 36,104,864
Motor, except submarine.....	1935 1933 1931 1929	49 7 54 64	982,753 335,383 7,574,560 9,524,472
Submarines and barges (including sloop and schooner barges). ³	1935 1933 1931 1929	115 94 185 315	3,760,598 2,366,929 4,360,626 6,106,767
Lighters, scows, pile drivers, etc.....	1935 1933 1931 1929	14 5 44 41	579,219 974,434 1,156,936 1,589,535
Wooden:			
Motor, total.....	1935	197	2,067,941
5 to 15 tons.....	1935	84	431,820
16 tons and over.....	1935	113	1,636,121
5 tons and over.....	1933 1931 1929	58 342 626	349,777 4,544,618 10,712,880
Sail, with auxiliary motive power, total.....	1935	51	409,106
5 to 15 tons.....	1935	44	286,066
16 tons and over.....	1935	7	123,040
5 tons and over.....	1933 1931 1929	5 38 73	60,661 589,950 1,137,324
Barges, including sloop and schooner barges, total ⁴	1935	34	151,575
5 to 15 tons.....	1935	15	29,780
16 tons and over.....	1935	19	121,795
5 tons and over ⁵	1931 1929	33 90	119,984 514,563

For footnotes, see end of table.

TABLE 4.—NUMBER OF VESSELS LAUNCHED AND VALUE OF WORK DONE DURING YEAR, DISTRIBUTED ACCORDING TO MATERIAL (STEEL AND WOOD) AND KIND OF POWER: 1929 TO 1935—Continued

MATERIAL AND KIND OF POWER	Census year	Number of vessels launched	Value of work done during year ¹
Ship and boat building and repair work—Continued.			
Work done within the year on vessels launched—Continued.			
Vessels of 5 tons and over—Continued.			
Wooden—Continued.			
Lighters, scows, pile drivers, etc., 5 tons and over.....	1935	57	\$138, 168
	1933	5	30, 684
	1931	53	291, 759
	1929	224	2, 253, 853
Boats under 5 gross tons, ² total.....	1935	15, 573	5, 007, 935
	1933	5, 347	1, 663, 369
	1931	16, 542	5, 897, 898
	1929	29, 442	13, 358, 064
Motor (except lifeboats), total.....	1935	4, 421	3, 830, 851
	1933	2, 133	1, 315, 385
	1931	6, 169	4, 520, 666
	1929	14, 930	11, 397, 119
Inboard.....	1935	2, 294	3, 590, 984
	1933	796	1, 206, 315
	1931	2, 724	3, 822, 878
	1929	2, 600	8, 147, 501
Outboard.....	1935	2, 127	239, 867
	1933	1, 337	109, 070
	1931	3, 445	697, 788
	1929	12, 330	3, 249, 618
Sailboats.....	1935	1, 434	464, 255
	1933	592	119, 476
	1931	690	350, 418
	1929	798	531, 528
Rowboats.....	1935	4, 304	253, 630
	1933	971	41, 618
	1931	4, 859	271, 033
	1929	6, 531	399, 919
Lifeboats, total ³	1935	590	163, 210
	1931	539	431, 302
	1929	790	417, 185
Motor-propelled ⁴	1935	29	7, 356
	1931	45	107, 507
	1929	30	36, 108
Hand-propelled.....	1935	561	155, 854
	1933	175	73, 062
	1931	494	323, 495
	1929	760	381, 677
Canoes ⁵	1935	4, 034	206, 638
	1931	3, 388	211, 007
	1929	4, 683	341, 092
Other.....	1935	790	60, 151
	1933	6 1, 476	6 142, 928
	1931	867	113, 422
	1929	1, 740	271, 221
Ships and boats not distributable by material and by kind of power as reported for 1935.	1935	(7)	471, 253
	1933	(7)	122, 680
	1931	(7)	1, 899, 397
	1929	(7)	2, 060, 422

For footnotes, see end of table.

TABLE 4.—NUMBER OF VESSELS LAUNCHED AND VALUE OF WORK DONE DURING YEAR, DISTRIBUTED ACCORDING TO MATERIAL (STEEL AND WOOD) AND KIND OF POWER: 1929 TO 1935—Continued

MATERIAL AND KIND OF POWER	Census year	Number of vessels launched	Value of work done during year ¹
Ship and boat building and repair work—Continued.			
Value of work done on vessels under construction but not yet launched and on those launched prior to beginning of year:			
Steel.....	1935	-----	\$53,164,009
	1933	-----	16,511,482
	1931	-----	33,148,169
	1929	-----	18,061,390
Wood.....	1935	-----	394,058
	1933	-----	351,742
	1931	-----	1,181,734
	1929	-----	3,423,379
Amount received for repair work:			
Steel.....	1935	-----	48,044,643
	1933	-----	39,522,878
	1931	-----	58,166,179
	1929	-----	80,437,032
Wood.....	1935	-----	15,537,133
	1933	-----	12,222,818
	1931	-----	20,275,538
	1929	-----	34,291,205
Other products and receipts.....			
	1935	-----	1,128,101
	1933	-----	2,074,302
	1931	-----	3,303,972
	1929	-----	5,572,504

¹ The figures in this column, except those for small craft, are not the values of the vessels launched, for which numbers are given in preceding column. See "Value of products," p. 1163.

² The term "gross tonnage" is applied to the total internal capacity of a vessel expressed in tons of 100 cubic feet.

³ Combined to avoid disclosing data for an individual establishment.

⁴ Barges only.

⁵ No corresponding figures available for 1933.

⁶ Includes data for motor-propelled lifeboats and for canoes.

⁷ Data incomplete.

Group 15.—RAILROAD REPAIR SHOPS

THE INDUSTRIES AS A GROUP

[See p. 42]

This group comprises only two industries, "Railroad repair shops, electric" and "Railroad repair shops, steam." Although some cars and a few locomotives have been built by railroad repair shops, the greater part of the work done by such shops consists in making repairs rather than in new construction, and some of it has no connection with rolling stock. For these reasons, and because of the fact that the method of valuing their production differs from the methods employed in most other industries, railroad repair shops have been classified separately from establishments engaged primarily in the manufacture of railroad rolling stock.

Change in classification.—The Steam railroad repair shops industry, which formerly covered both "classified shops"—those engaged in making general and heavy or "classified" repairs—and small shops engaged in making light and running repairs, is now restricted to classified shops. (See "Statistics for earlier years," p. 1172.)

SUMMARY FOR GROUP 15.—RAILROAD REPAIR SHOPS: 1929 TO 1935

[See "Changes in industry groups, classifications, and titles," p. 13]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹
Total for the group...	² 1935	675	155,810	\$206,346,132	\$187,528,762	\$420,097,165	\$232,568,403
	³ 1933	716	175,348	196,830,457	144,958,424	361,456,459	216,537,655
	⁴ 1931	1,901	241,875	284,449,927	191,845,201	506,031,832	314,186,631
	1931	2,167	309,034	435,247,970	298,823,638	740,702,962	441,639,324
	1929	2,297	393,156	637,311,434	548,343,565	1,269,916,839	721,573,274
Railroad repair shops, electric.	1935	259	19,510	26,982,807	17,414,034	48,397,730	30,983,696
	1933	315	21,116	26,682,642	15,088,501	44,230,536	29,142,935
	1931	384	26,629	38,854,148	22,118,657	61,840,620	39,721,963
	1929	446	29,475	47,108,710	32,781,113	86,481,577	52,700,464
Railroad repair shops, steam.	² 1935	416	135,800	179,363,325	170,114,728	371,699,435	201,584,707
	³ 1933	401	154,752	169,847,815	129,869,923	317,264,873	187,594,659
	⁴ 1933	1,586	220,760	257,767,285	176,756,700	461,801,246	285,044,549
	1931	1,783	282,405	396,393,822	276,704,981	678,922,342	402,217,891
	1929	1,851	368,681	590,202,724	515,562,452	1,184,435,282	668,872,810

¹ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

² See "Change in classification," above.

³ Revised for comparison with 1935.

⁴ Comparable with earlier years.

1501

RAILROAD REPAIR SHOPS, ELECTRIC

Description of the industry.—Repair shops maintained by electric-railway companies for the purpose of making repairs on rolling stock and equipment are classified under the designation "Railroad Repair Shops, Electric." This classification does not cover shops operated by electric-railway companies wholly for the repair of busses.

Value of products.—The "value of products" for this industry represents, in general, the cost of materials, supplies, fuel, and electric energy used plus the amounts of salaries and wages paid to repair-shop employees.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	259	315	384	446	-17.8	-41.9
Salaried personnel, total ¹	1,462	(2)	(3)	2,507	(2)	-41.7
Salaried officers of corporations.....		(2)	(3)	49		
Supervisory, technical, and clerical employees.....	4 1,462	5 1,044	(3)	2,458	40.0	-40.5
Salaries paid, total ¹	\$3,173,072	(2)	(3)	\$5,423,674	(2)	-41.5
To salaried officers of corporations.....		(2)	(3)	\$153,729		
To supervisory, technical, and clerical employees.....	4 \$3,173,072	5 \$2,046,925	(2)	\$5,269,945	55.0	-39.8
Wage earners (average for year) ⁶	19,510	21,116	26,629	29,475	-7.6	-33.8
Wages.....	\$26,982,807	\$26,682,642	\$38,854,148	\$47,108,710	1.1	-42.7
Cost of materials, etc., total.....	17,414,034	15,088,501	22,118,657	32,781,113	15.4	-46.9
Cost of materials and supplies.....	16,615,228	(3)	(3)	31,331,150	(3)	-47.0
Cost of fuel.....	391,260	(3)	(3)	435,932	(3)	-10.2
Cost of purchased electric energy.....	407,546	(3)	(3)	1,014,031	(3)	-59.8
Value of products.....	48,397,730	44,230,586	61,840,620	85,481,577	9.4	-43.4
Value added by manufacture ⁷	30,983,696	29,142,085	39,721,993	52,700,464	6.3	-41.2

¹ No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

² Data incomplete.

³ No data.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 722; salaries, \$1,954,806. Technical, 81; salaries, \$182,813. Clerical, 659; salaries, \$1,035,453. See sec. 10, p. 7.

⁵ Supervisory, 488; salaries, \$1,263,008. Clerical and other, 556; salaries, \$783,017. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 4 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States	259	1,462	19,510	\$3,173,072	\$26,982,807	\$17,414,034	\$48,397,730	\$30,983,696
Alabama	4	16	92	35,908	113,938	87,983	237,829	149,846
California	17	71	1,953	163,269	2,520,118	1,095,605	3,812,081	2,716,476
Florida	4	5	73	11,419	84,929	53,363	151,008	98,245
Illinois	15	189	2,476	402,974	3,982,159	2,406,426	6,857,431	4,451,005
Indiana	14	35	362	57,987	397,511	207,734	676,608	468,874
Iowa	9	13	160	21,984	181,874	118,327	324,045	205,718
Kansas	5	3	58	5,107	52,671	48,584	110,162	61,578
Louisiana	4	20	103	30,068	138,938	82,728	253,380	170,652
Maine	4	4	73	7,342	85,513	49,886	142,741	92,855
Massachusetts	12	37	892	71,763	1,370,287	643,601	2,109,861	1,466,260
New York	19	490	5,447	1,112,523	8,149,851	5,102,577	14,513,051	9,410,474
Ohio	22	56	1,125	121,134	1,268,602	1,150,622	2,548,844	1,398,222
Pennsylvania	23	118	1,445	238,228	1,964,075	1,410,457	3,652,176	2,241,719
Tennessee	4	9	160	21,731	170,796	142,201	335,573	193,372
Texas	8	29	425	63,367	482,181	358,153	903,701	545,548
Washington	6	12	249	24,349	330,038	257,963	617,293	359,330
West Virginia	5	4	68	6,420	80,719	30,664	117,803	87,139
Other States ¹	84	351	4,354	777,509	5,608,607	4,167,160	11,033,543	6,866,383

¹ Arizona, 1 establishment; Arkansas, 2; Colorado, 4; Connecticut, 5; Delaware, 1; District of Columbia, 1; Georgia, 4; Kentucky, 2; Maryland, 3; Michigan, 1; Minnesota, 3; Missouri, 5; Montana, 2; Nebraska, 2; New Hampshire, 1; New Jersey, 18; North Carolina, 3; North Dakota, 1; Oklahoma, 3; Oregon, 2; Rhode Island, 1; South Carolina, 2; Utah, 3; Virginia, 7; Wisconsin, 7.

ELECTRIC-RAILROAD REPAIR SHOPS

1171

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	19,562	19,666	19,588	19,697	19,687	19,502	19,407	19,465	19,423	19,448	19,577	19,638	19,647
1933.....	21,116	21,654	21,561	21,897	21,116	21,032	20,824	20,714	20,786	20,875	20,995	21,191	21,241
<i>States, 1935</i>													
Alabama.....	92	89	88	89	92	91	92	100	99	97	91	86	86
California.....	1,958	1,934	1,918	1,938	1,953	1,962	1,962	1,979	1,975	1,967	1,961	1,967	1,983
Colorado.....	152	155	154	151	151	152	154	152	146	149	152	154	153
Florida.....	73	79	76	72	70	71	71	71	72	74	74	73	74
Illinois.....	2,476	2,479	2,472	2,487	2,513	2,512	2,451	2,497	2,458	2,406	2,504	2,458	2,415
Indiana.....	362	377	380	377	370	367	359	345	344	351	357	357	360
Iowa.....	160	153	153	159	157	157	161	163	164	163	162	163	163
Kansas.....	58	60	57	57	59	57	57	55	57	58	59	57	60
Louisiana.....	103	117	117	107	101	105	105	108	100	95	95	92	96
Maine.....	73	73	72	75	75	75	73	72	70	73	72	72	73
Maryland.....	312	317	308	306	303	304	303	302	323	323	321	317	323
Massachusetts.....	892	928	916	898	895	881	886	875	875	881	885	896	894
Minnesota.....	320	285	286	295	329	335	334	334	331	328	326	330	329
Missouri.....	457	464	463	465	461	459	455	453	454	454	454	453	452
New Jersey.....	835	867	843	842	846	812	815	818	817	829	840	843	843
New York.....	5,499	5,547	5,542	5,618	5,635	5,437	5,405	5,427	5,408	5,437	5,504	5,560	5,566
Ohio.....	1,125	1,138	1,138	1,146	1,127	1,121	1,115	1,109	1,114	1,094	1,126	1,131	1,137
Oklahoma.....	70	69	72	72	70	69	70	67	72	71	70	70	69
Pennsylvania.....	1,445	1,465	1,461	1,450	1,448	1,447	1,446	1,442	1,437	1,432	1,427	1,438	1,449
Tennessee.....	150	149	153	154	149	146	146	147	153	147	151	155	154
Texas.....	425	407	403	422	432	434	443	448	437	427	420	417	410
Utah.....	88	88	87	90	88	87	86	87	80	90	89	90	90
Virginia.....	391	393	392	392	391	389	394	390	392	392	388	390	391
Washington.....	249	248	252	251	251	246	243	245	245	249	250	251	254
West Virginia.....	68	69	69	69	69	67	67	67	67	67	67	67	67
Wisconsin.....	349	358	355	356	353	352	349	346	345	345	344	345	344

¹ As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, those for the United States and New York differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

1502

RAILROAD REPAIR SHOPS, STEAM

Description of the industry.—This industry, as now constituted for Census purposes, embraces repair shops maintained by steam railroads for making general and heavy or classified repairs to locomotives, cars, and other equipment. It does not cover roundhouses where only minor or running repairs are made, nor car-repair tracks and other locations where the work consists simply of inspection, of light repairs, or of replacements of parts made and finished elsewhere, which are installed by means of hand tools or portable motor-driven tools. The value of products shown for this industry represents, in general, the cost of materials, supplies, fuel, and electric energy used plus the amounts of salaries and wages paid to repair-shop employees.

Statistics for earlier years.—Prior to the census for 1935, this industry classification covered all steam-railroad repair shops that did work to the value of \$5,000 or more within the census year. As this resulted in the inclusion of data for many shops that were not in any sense comparable with manufacturing plants, it was decided, after correspondence and consultation with railroad officials and representatives of other Government agencies, to limit the classification in such a manner as to exclude shops engaged in light-repair work only, as specified in the preceding paragraph. As the statistics for earlier years, as originally published, are not comparable with those for 1935, two sets of figures for 1933 are given in table 1, the first comparable with 1935 and the second comparable with 1931 and 1929.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935*	1933 Revised— comparable with 1935*	1933 As pub- lished— comparable with earlier years*	1931	1929	Percent of in- crease or de- crease (-) 1933- 1935
Number of establishments.....	416	401	1,586	1,783	1,851	3.7
Salaried personnel, total.....	8,501	(2)	(2)	(2)	20,974	(2)
Salaried officers of corpora- tions.....		(2)	(2)	(2)	125	-----
Supervisory, technical, and clerical employees.....	4,501	7,884	12,012	(2)	29,849	7.8
Salaries paid, total.....	\$20,768,544	(2)	(2)	(2)	\$76,171,019	(2)
To salaried officers of cor- porations.....		(2)	(2)	(2)	\$458,928	-----
To supervisory, technical, and clerical employees.....	\$20,768,544	\$16,158,488	\$25,682,463	(2)	\$75,712,091	28.5
Wage earners (average for year).....	135,800	154,732	220,760	282,405	308,681	-12.2
Wages.....	\$179,363,325	\$169,847,815	\$257,767,285	\$306,393,822	\$560,202,724	5.6
Cost of materials, etc., total.....	170,114,728	129,869,923	176,756,700	276,704,981	515,562,452	31.0
Cost of materials and sup- plies.....	160,113,227	(2)	(2)	(2)	485,828,684	(2)
Cost of fuel.....	6,836,226	(2)	(2)	(2)	21,350,338	(2)
Cost of purchased electric energy.....	3,165,275	(2)	(2)	(2)	8,383,430	(2)
Value of products.....	371,699,435	317,264,873	461,801,246	678,922,342	1,184,435,262	17.2
Value added by manufacture.....	201,584,707	187,394,950	285,044,546	402,217,361	668,872,810	7.6

* See "Statistics for earlier years," above.

¹ No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

² Data incomplete

³ No data.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 5,190; salaries, \$15,417,641. Technical, 81; salaries, \$216,413. Clerical, 3,230; salaries, \$5,124,490. See sec. 10, p. 7.

⁵ Supervisory, 4,503; salaries, \$11,512,615. Clerical and other, 3,381; salaries, \$4,645,873. See sec. 10, p. 7.

⁶ Supervisory, 7,052; salaries, \$18,596,368. Clerical and other, 4,960; salaries, \$7,086,095. See sec. 10, p. 7.

⁷ See sec. 11, p. 7.

⁸ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

STEAM-RAILROAD REPAIR SHOPS

1173

TABLE 2.—SUMMARY BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 4 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	416	8, 501	135, 800	\$20, 758, 544	\$170, 363, 325	\$170, 114, 728	\$371, 609, 435	\$201, 584, 707
Alabama.....	11	191	3, 251	399, 829	4, 108, 829	2, 232, 624	6, 741, 282	4, 508, 658
California.....	12	238	5, 101	589, 929	7, 095, 361	5, 230, 344	12, 921, 856	7, 691, 512
Colorado.....	7	123	2, 127	262, 013	2, 700, 604	1, 853, 688	4, 816, 328	2, 962, 635
Florida.....	8	89	1, 565	249, 114	2, 030, 010	1, 511, 026	3, 790, 150	2, 279, 124
Georgia.....	10	189	3, 072	510, 209	3, 829, 323	3, 137, 680	7, 479, 701	4, 342, 021
Illinois.....	31	519	8, 388	1, 224, 148	11, 841, 124	11, 077, 466	24, 358, 596	13, 281, 140
Indiana.....	15	336	4, 526	771, 000	6, 341, 752	4, 990, 312	12, 113, 615	7, 123, 303
Iowa.....	8	160	2, 257	365, 400	3, 063, 332	2, 218, 142	5, 646, 874	3, 428, 732
Kansas.....	11	241	3, 757	594, 596	4, 971, 255	5, 334, 000	10, 905, 510	5, 571, 510
Kentucky.....	10	218	6, 442	520, 026	9, 381, 261	7, 121, 065	17, 022, 352	9, 901, 287
Louisiana.....	7	70	1, 097	169, 339	1, 373, 756	891, 740	2, 458, 458	1, 566, 718
Maryland.....	6	105	1, 777	261, 643	2, 314, 645	2, 881, 613	5, 786, 240	2, 904, 627
Massachusetts.....	8	154	2, 292	375, 459	3, 146, 342	3, 636, 541	7, 158, 342	3, 521, 801
Michigan.....	7	109	2, 639	280, 604	3, 572, 986	2, 674, 293	6, 527, 854	3, 853, 591
Minnesota.....	19	261	4, 789	649, 596	6, 048, 363	5, 783, 304	12, 603, 650	6, 820, 346
Missouri.....	14	225	3, 689	578, 917	4, 770, 005	5, 565, 126	11, 177, 304	5, 612, 178
New Jersey.....	7	67	1, 648	176, 593	2, 614, 208	1, 204, 065	3, 994, 966	2, 790, 901
New York.....	17	517	6, 547	1, 324, 049	9, 526, 946	7, 860, 014	18, 810, 482	10, 950, 468
Ohio.....	19	515	6, 682	1, 313, 634	9, 429, 442	8, 793, 562	19, 536, 139	10, 742, 577
Oklahoma.....	7	47	710	118, 552	952, 307	778, 820	1, 849, 679	1, 070, 859
Pennsylvania.....	51	1, 748	23, 680	4, 038, 472	28, 771, 762	44, 474, 689	77, 388, 630	32, 913, 941
Tennessee.....	11	206	3, 857	497, 580	5, 141, 429	3, 051, 564	8, 795, 400	5, 743, 836
Texas.....	16	305	5, 243	746, 250	6, 428, 006	5, 230, 835	12, 417, 475	7, 177, 640
Virginia.....	22	494	7, 440	1, 300, 634	9, 316, 290	6, 746, 491	17, 363, 416	10, 616, 925
Washington.....	7	85	1, 603	226, 483	2, 040, 929	2, 357, 956	4, 635, 108	2, 277, 152
West Virginia.....	10	202	3, 283	593, 732	3, 557, 725	2, 329, 700	6, 481, 213	4, 151, 507
Wisconsin.....	9	189	2, 507	473, 096	3, 371, 830	3, 293, 707	7, 151, 514	3, 897, 807
Other States ¹	56	898	15, 825	2, 147, 597	21, 623, 443	17, 875, 395	41, 767, 303	23, 891, 908

¹ Arizona, 1 establishment; Arkansas, 3; Connecticut, 1; Delaware, 1; District of Columbia, 1; Idaho, 1; Maine, 3; Mississippi, 3; Montana, 5; Nebraska, 8; Nevada, 1; New Hampshire, 3; New Mexico, 2; North Carolina, 4; North Dakota, 3; Oregon, 3; South Carolina, 5; Utah, 2; Vermont, 3; Wyoming, 3.

TABLE 3.—WAGE EARNERS, BY MONTHS, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12]

Average number employed during year ¹	NUMBERS REPORTED FOR—											
	January	February	March	April	May	June	July	August	September	October	November	December
United States.....	135,825	135,309	137,804	134,150	135,495	134,906	134,967	133,686	133,736	133,162	133,492	139,724
Alabama.....	3,251	3,238	3,309	3,304	3,153	3,151	2,992	3,603	3,019	3,524	3,557	3,582
Arkansas.....	1,310	1,374	1,440	1,429	1,384	1,298	1,112	1,349	1,349	1,494	1,542	1,545
California.....	5,101	4,638	4,897	5,014	5,177	5,091	5,131	5,194	5,343	5,324	5,240	5,506
Colorado.....	2,005	2,127	2,155	2,197	2,248	2,205	2,246	2,205	2,109	2,026	1,990	2,046
Florida.....	1,565	1,603	1,612	1,592	1,563	1,563	1,550	1,542	1,542	1,540	1,548	1,572
Georgia.....	3,007	3,028	3,072	3,035	3,051	3,069	3,070	3,023	3,018	3,130	3,151	3,184
Illinois.....	8,388	8,347	8,384	8,144	8,362	8,694	8,670	8,594	8,142	8,257	8,751	8,784
Indiana.....	4,526	4,761	4,884	4,784	4,582	3,703	4,318	4,237	4,335	4,552	4,574	4,900
Iowa.....	2,257	2,121	2,139	2,131	2,314	2,460	2,488	2,427	2,275	2,303	2,143	2,196
Kansas.....	3,757	3,732	3,579	3,573	3,605	3,699	3,990	3,957	3,963	3,981	3,704	3,664
Kentucky.....	6,442	6,284	6,422	6,238	6,009	5,879	5,725	5,945	6,278	7,289	7,503	7,705
Louisiana.....	1,097	1,097	1,121	1,117	1,079	1,090	1,082	1,018	1,053	1,118	1,138	1,128
Maryland.....	1,646	1,704	1,996	2,173	2,128	1,987	1,773	1,950	1,259	1,707	1,857	1,903
Massachusetts.....	2,292	2,313	2,301	2,301	2,354	2,351	2,493	2,127	2,159	2,236	2,350	2,380
Michigan.....	2,539	2,562	2,587	2,606	2,596	2,586	2,618	2,620	2,683	2,728	2,741	2,720
Minnesota.....	4,789	4,422	4,609	4,698	5,019	5,242	5,070	5,072	4,960	4,946	4,560	4,556
Mississippi.....	486	409	407	414	481	389	519	580	481	398	425	709
Missouri.....	3,689	3,430	3,637	3,792	3,681	3,647	3,684	3,722	3,746	3,826	3,817	3,561
Montana.....	716	656	724	731	735	739	975	954	870	877	800	766
New Jersey.....	1,648	1,723	1,704	1,461	1,645	1,719	1,719	1,685	1,553	1,650	1,665	1,699
New York.....	6,547	6,626	6,684	6,467	6,532	6,587	6,328	6,210	6,258	6,621	6,813	7,004
North Carolina.....	2,242	2,257	2,260	2,159	2,149	2,131	2,082	2,051	2,067	2,107	2,146	2,149
Ohio.....	6,682	6,807	6,860	6,742	6,682	6,689	6,682	6,596	6,629	6,681	6,601	6,406
Oklahoma.....	710	754	6,582	609	597	727	750	685	723	683	837	873
Pennsylvania.....	23,679	24,948	25,047	22,618	23,204	23,349	22,876	22,692	22,786	23,969	23,759	23,923
Tennessee.....	3,857	3,801	3,894	3,917	3,874	3,844	3,767	3,752	3,846	3,864	3,893	3,843
Texas.....	5,243	5,502	5,157	5,303	5,221	5,019	5,330	5,207	5,402	5,106	5,106	5,114
Vermont.....	555	567	558	549	542	540	570	554	555	556	559	560
Virginia.....	7,470	7,459	7,498	7,509	7,442	7,528	7,486	7,417	7,366	7,400	7,353	7,345
Washington.....	1,603	1,461	1,542	1,517	1,512	1,621	1,621	1,736	1,691	1,779	1,716	1,605
West Virginia.....	3,312	3,320	3,308	3,300	3,300	3,294	3,284	3,265	3,272	3,263	3,248	3,229
Wisconsin.....	2,306	2,538	2,813	2,877	2,635	2,655	2,661	2,537	2,201	2,267	2,292	2,267

¹ As the averages given in this table are derived from the figures for the 12 months in the calendar year, those for the United States, Pennsylvania, and Virginia differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

Group 16.—MISCELLANEOUS INDUSTRIES

THE INDUSTRIES AS A GROUP

[See p. 42]

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 16 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 tobacco for the manufacture of cigars, cigarettes, and other tobacco products; bone and shell for making buttons, hairpins, and fancy articles; broomcorn for brooms; and sand for foundry supplies.

Group 16 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 manufactures thereof," "Furs, dressed and dyed," "Hair work," "Lapidary work," and "Wool pulling."

For explanations of changes in classification and titles of some of the industries in this group, see "Group 16.—Miscellaneous Industries," page 15.

SUMMARY FOR GROUP 16.—MISCELLANEOUS INDUSTRIES: 1929 TO 1935

[See "Changes in industry groups, classifications, and titles," p. 42]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹
Aggregate for the group.	1935	11, 156	305, 222	\$280, 267, 914	\$1, 330, 191, 428	\$2, 211, 740, 604	\$881, 555, 200
	² 1933	8, 649	258, 612	202, 964, 604	1, 000, 183, 064	1, 677, 635, 035	677, 451, 971
	³ 1931	11, 722	298, 513	301, 145, 971	1, 278, 685, 030	2, 306, 120, 182	1, 027, 434, 552
	⁴ 1929	14, 580	414, 026	497, 753, 600	1, 361, 492, 576	3, 421, 003, 985	(3)
Musical instruments, total.	1935	192	8, 806	8, 738, 140	10, 131, 529	26, 633, 432	16, 501, 093
	1933	170	6, 106	5, 097, 008	5, 423, 610	15, 715, 434	10, 291, 824
	1931	230	10, 003	11, 151, 664	10, 762, 421	32, 206, 671	21, 444, 250
	1929	316	18, 625	25, 782, 387	30, 030, 326	79, 981, 287	49, 950, 061
Organs.....	1935	28	614	610, 730	576, 127	1, 698, 763	1, 122, 636
	1933	29	574	510, 269	387, 173	1, 626, 804	1, 239, 031
	1931	42	1, 460	1, 763, 270	1, 626, 948	5, 710, 028	4, 063, 080
	1929	62	2, 389	3, 603, 631	3, 090, 676	11, 322, 736	8, 232, 360
Pianos.....	1935	36	4, 110	4, 088, 673	5, 602, 476	12, 688, 485	7, 086, 069
	1933	36	2, 700	2, 381, 694	2, 828, 287	7, 242, 819	4, 414, 532
	1931	50	4, 737	5, 156, 909	5, 892, 230	15, 293, 048	9, 400, 818
	1929	81	9, 970	14, 000, 826	18, 866, 437	42, 501, 375	23, 634, 938
Piano and organ parts and materials.	1935	34	1, 217	1, 028, 654	1, 223, 489	3, 185, 962	1, 962, 473
	1933	33	768	527, 402	584, 480	1, 732, 193	1, 147, 713
	1931	50	1, 213	1, 178, 187	1, 004, 845	3, 089, 883	2, 085, 638
	1929	67	3, 090	3, 597, 210	4, 247, 919	11, 883, 098	7, 635, 179
Musical instruments and parts and materials, not elsewhere classified.	1935	94	2, 864	3, 010, 083	2, 720, 437	9, 060, 222	6, 330, 785
	1933	72	2, 064	1, 677, 643	1, 623, 670	5, 113, 618	3, 480, 948
	1931	88	2, 593	3, 053, 298	2, 238, 308	8, 113, 712	5, 875, 314
	1929	106	3, 176	4, 580, 720	3, 825, 294	14, 274, 078	10, 448, 784
Tobacco manufactures, total.	1935	890	90, 543	59, 447, 844	⁴ 809, 017, 589	1, 093, 400, 040	284, 382, 457
	1933	804	87, 325	50, 932, 946	⁴ 659, 095, 090	909, 082, 310	249, 937, 220
	1931	1, 228	99, 769	69, 411, 167	⁶ 785, 502, 241	1, 155, 851, 190	⁵ 370, 348, 949
	1929	1, 788	116, 119	94, 578, 749	⁶ 429, 272, 352	1, 246, 241, 839	(?)
Cigarettes.....	1935	29	24, 447	18, 314, 076	⁴ 641, 312, 072	806, 690, 052	165, 377, 080
	1933	27	22, 544	13, 835, 250	⁴ 503, 559, 633	637, 775, 557	134, 215, 924
	1931	40	20, 146	14, 663, 675	⁵ 555, 048, 846	759, 389, 235	⁵ 204, 340, 389
	1929	49	21, 142	18, 401, 203	⁶ 218, 423, 773	755, 245, 050	(?)
Cigars.....	1935	746	56, 019	33, 503, 474	⁴ 77, 807, 476	151, 264, 707	73, 457, 231
	1933	665	54, 558	30, 060, 615	⁴ 72, 589, 039	139, 372, 193	66, 783, 154
	1931	1, 063	85, 182	46, 074, 013	⁶ 119, 295, 138	227, 348, 832	⁵ 108, 053, 094
	1929	1, 587	84, 166	67, 222, 095	⁶ 138, 364, 250	311, 663, 838	(?)
Tobacco (chewing and smoking) and snuff.	1935	115	10, 077	7, 629, 394	⁴ 89, 897, 141	135, 445, 287	45, 548, 145
	1933	112	10, 223	7, 037, 081	⁴ 82, 946, 418	131, 934, 666	48, 988, 148
	1931	125	11, 441	8, 673, 479	⁶ 111, 158, 257	169, 113, 123	⁵ 57, 954, 866
	1929	152	10, 811	8, 955, 451	⁶ 72, 494, 320	179, 332, 951	(?)
Other industries, total.	1935	10, 074	205, 874	212, 081, 930	511, 042, 310	1, 091, 713, 216	580, 670, 006
	² 1933	7, 675	165, 183	146, 934, 650	335, 604, 964	752, 837, 885	417, 172, 921
	³ 1931	10, 264	188, 741	220, 798, 140	482, 420, 908	1, 118, 062, 321	635, 641, 353
	⁴ 1929	12, 476	279, 882	377, 392, 530	902, 189, 898	2, 094, 780, 859	1, 192, 590, 961
Artificial and preserved flowers and plants.	1935	190	3, 206	2, 608, 987	3, 305, 290	8, 993, 792	5, 688, 532
	1933	131	2, 338	1, 566, 677	2, 480, 608	6, 444, 924	3, 964, 316
	1931	188	2, 348	2, 139, 643	3, 415, 284	9, 085, 476	5, 620, 192
	1929	191	3, 216	3, 217, 642	5, 527, 451	14, 425, 420	8, 897, 069
Artists' materials ¹	1935	47	350	336, 998	1, 222, 200	2, 431, 162	1, 208, 872
	1933	38	265	259, 293	988, 891	2, 136, 740	1, 147, 849
	1931	45	328	368, 026	1, 210, 930	2, 544, 100	1, 333, 170
	1929	51	623	793, 941	2, 997, 826	5, 939, 740	2, 941, 014
Beauty-shop equipment, except furniture. ²	1935	82	2, 179	1, 967, 802	5, 017, 309	12, 524, 574	7, 507, 265
	1935	348	4, 158	3, 071, 614	7, 480, 065	14, 333, 380	6, 858, 295
	1933	260	3, 757	2, 111, 180	4, 601, 014	9, 072, 921	4, 471, 907
	1931	334	4, 086	3, 325, 998	6, 264, 020	13, 134, 907	6, 870, 867
1929	407	4, 542	4, 169, 087	9, 647, 688	19, 160, 353	9, 618, 665	

For footnotes, see end of table.

SUMMARY FOR GROUP 16.—MISCELLANEOUS INDUSTRIES: 1929 to 1935—Contd.

[See "Changes in industry groups, classifications, and titles," p. 42]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹
Other industries—Con.							
Brushes, other than rubber...	1935	250	6,818	\$6,007,328	\$18,588,896	\$42,091,455	\$23,502,559
	1933	221	5,809	4,821,015	12,200,138	24,575,879	12,375,741
	1931	204	5,891	5,991,850	14,227,575	30,827,087	16,599,512
	1929	303	7,261	7,962,538	21,688,253	45,549,270	23,861,017
Buttons.....	1935	297	10,288	8,151,186	11,078,933	28,030,735	16,951,802
	1933	200	9,888	6,705,511	8,614,088	22,411,607	13,797,519
	1931	212	8,224	6,661,117	8,303,222	21,524,572	13,221,360
	1929	242	9,034	8,813,927	11,501,401	28,977,919	17,476,518
Carbon paper and inked ribbons.	1935	56	1,425	1,629,239	7,500,075	14,694,797	7,194,722
	1933	47	1,171	1,242,933	5,156,605	11,225,436	6,068,831
	1931	54	1,198	1,462,688	6,033,738	13,475,518	7,441,780
	1929	57	1,251	1,702,358	7,990,753	17,295,140	9,304,387
Combs and hairpins, not made of metal or of rubber.	1935	11	238	193,315	314,804	705,692	390,888
	1933	17	411	278,835	470,561	911,287	440,726
	1931	23	653	571,112	837,101	1,916,641	1,079,540
	1929	24	656	640,857	1,006,824	2,482,419	1,475,595
Dairymen's supplies; creamery, cheese-factory and butter-factory equipment; and poultrymen's and apiarists' supplies. ¹¹	1929	172	5,450	6,925,320	16,371,116	42,246,758	25,875,642
Dentists' equipment and supplies.	1935	87	3,510	3,631,294	9,115,914	22,968,034	13,852,120
	1933	79	3,120	2,451,544	6,945,258	16,437,222	9,491,904
	1931	84	3,874	3,948,762	9,362,441	24,005,221	14,642,780
	1929	87	4,559	5,359,432	17,326,748	35,180,165	17,853,417
Feathers, plumes, and manufactures thereof.	1935	73	573	423,129	611,236	1,645,638	1,034,402
	1933	40	322	264,817	227,027	835,362	608,335
	1931	53	527	559,053	588,029	1,897,656	1,309,627
	1929	39	257	309,693	386,356	1,141,418	755,062
Foundry supplies.....	1935	46	400	445,579	3,445,101	6,519,166	3,074,065
	1933	40	334	315,149	1,325,998	2,788,115	1,462,117
	1931	52	428	491,502	2,080,108	3,998,401	1,918,293
	1929	59	853	1,255,801	5,534,548	10,458,589	4,924,041
Fur goods.....	1935	2,438	12,510	21,039,529	88,584,850	143,784,454	55,199,604
	1933	1,463	8,210	11,500,346	50,000,529	80,524,414	30,463,885
	1931	2,354	12,368	24,792,600	102,634,150	164,749,401	62,116,251
	1929	2,855	15,752	33,329,965	176,106,910	277,692,752	101,485,842
Furs, dressed and dyed.....	1935	167	6,434	7,561,237	6,506,244	21,339,863	14,833,619
	1933	181	5,304	6,246,303	9,933,725	24,947,543	15,407,818
	1931	243	5,160	7,968,006	16,220,722	37,872,653	21,661,931
	1929	248	5,167	8,596,377	18,648,954	40,237,192	21,588,238
Hair work.....	1935	43	502	437,908	1,039,995	2,737,806	1,697,811
	1933	37	228	187,637	306,495	985,888	679,393
	1931	52	207	237,642	310,574	1,184,240	873,666
	1929	59	359	432,340	538,479	1,693,588	1,155,109
Hand stamps and stencils and brands.	1935	277	2,255	2,531,825	2,659,588	9,338,102	6,678,514
	1933	256	2,196	2,062,120	1,855,263	7,636,990	5,781,727
	1931	288	2,406	3,370,835	2,394,753	10,045,366	7,650,613
	1929	332	2,971	4,080,780	3,811,158	15,036,023	11,224,865
Instruments and apparatus, professional, scientific, commercial, and industrial. ¹²	1935	283	15,216	17,573,390	20,509,815	68,344,158	47,834,343
	1933	241	8,894	9,183,451	9,886,173	35,914,549	26,328,376
	1931	302	13,341	15,911,986	15,952,564	59,447,395	43,494,831
	1929	306	21,914	30,091,408	39,858,808	121,191,687	81,332,819
Jewelry and instrument cases.	1935	72	2,312	1,979,717	2,351,780	6,363,453	4,011,673
	1933	62	1,095	840,573	1,134,811	3,095,753	1,960,942
	1931	92	1,398	1,414,842	1,941,319	4,919,423	2,978,104
	1929	113	2,269	2,472,880	3,324,450	8,826,727	5,502,268
Lapidary work.....	1935	60	153	200,787	1,288,634	2,049,813	811,179
	1933	34	107	124,428	483,058	822,373	339,815
	1931	53	205	339,503	1,378,233	2,474,998	1,096,765
	1929	100	506	1,001,706	8,234,889	11,942,421	3,707,532

For footnotes, see end of table.

SUMMARY OF GROUP 16.—MISCELLANEOUS INDUSTRIES: 1929 TO 1935—Contd.

[See "Changes in industry groups, classifications, and titles," p. 42]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹
Other industries—Con.							
Mattresses and bed springs not elsewhere classified.	1935	824	15,404	\$14,667,935	\$48,926,088	\$84,811,275	\$35,885,187
	1933	645	13,280	10,694,395	32,491,011	59,724,019	27,233,008
	1931	781	13,622	14,702,335	37,609,418	77,508,242	39,998,824
	1929	951	17,187	22,583,835	61,527,026	123,279,717	61,752,691
Miscellaneous articles not elsewhere classified.	1935	655	14,214	11,831,317	20,677,564	49,647,164	28,969,606
	1933	557	13,024	9,615,027	16,173,517	40,899,639	24,726,122
	1931	709	13,892	13,118,853	22,379,662	55,133,489	32,753,827
	1929	835	19,113	19,465,294	35,657,179	86,640,387	50,992,208
Models and patterns, not including paper patterns.	1935	582	4,104	6,127,868	3,197,495	15,296,824	12,099,329
	1933	422	2,795	3,525,136	1,482,536	8,627,170	7,144,634
	1931	649	4,332	7,378,165	2,786,935	16,192,426	13,405,491
	1929	804	6,778	13,233,622	5,314,359	30,621,074	25,306,715
Motion pictures, not including projection in theaters. ¹³	1929	142	10,784	24,860,092	38,441,025	184,102,410	145,661,394
Optical goods-----	1935	100	9,667	10,333,621	11,068,398	33,600,389	22,531,991
	1933	103	7,598	7,300,493	8,155,143	26,214,159	18,059,016
	1931	102	7,446	8,755,958	7,523,942	27,887,459	20,363,517
	1929	117	9,701	12,633,947	11,859,128	40,562,459	28,703,331
Paving materials: Blocks (except brick and stone) and mixtures.	1935	132	2,231	2,513,708	9,978,447	17,885,089	7,906,642
	1933	93	1,151	1,214,698	6,287,323	10,950,433	4,663,110
	1931	97	1,081	1,555,533	8,587,054	16,003,091	7,416,037
	1929	77	1,376	2,187,347	11,997,915	22,059,896	10,061,931
Pencils, lead (including mechanical), and crayons. ⁸	1935	47	5,182	4,235,611	8,255,061	19,999,357	11,744,296
	1933	43	4,048	3,166,791	5,134,097	14,394,002	9,259,905
	1931	46	3,969	3,700,129	6,128,175	17,237,351	11,100,176
	1929	55	6,247	6,927,063	11,913,737	31,292,780	19,378,093
Pens, fountain and stylographic; pen points, gold, steel, and brass.	1935	51	3,780	3,427,527	5,783,066	17,887,501	12,104,435
	1933	54	3,099	2,341,439	4,124,440	11,597,763	7,473,323
	1931	68	3,945	4,364,216	7,219,257	23,798,701	16,579,444
	1929	76	4,600	5,304,142	11,459,411	34,211,384	22,751,923
Phonographs ¹⁴ -----	1929	59	14,416	17,825,855	37,323,137	96,849,048	59,525,911
Photographic apparatus and materials and projection apparatus.	1935	118	12,000	15,807,322	26,132,752	73,966,255	47,833,507
	1933	84	8,975	10,154,891	11,984,799	53,859,959	41,875,166
	1931	110	10,609	13,082,078	20,867,793	79,506,499	58,693,706
	1929	115	12,987	20,507,499	30,392,531	102,827,386	72,434,855
Pipes (tobacco)-----	1935	29	2,240	2,283,345	1,942,054	6,176,402	4,234,348
	1933	22	1,362	1,145,314	960,270	3,273,851	2,313,581
	1931	24	1,677	1,761,388	1,775,548	5,522,316	3,746,768
	1929	24	1,680	1,961,020	1,749,222	5,557,982	3,808,760
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.	1935	108	6,478	6,084,820	42,966,636	76,172,504	33,295,893
	1933	74	4,418	4,435,500	23,892,848	44,833,073	20,940,225
	1931	83	4,123	5,331,030	32,706,052	58,962,919	26,256,887
	1929	102	6,027	8,951,537	61,391,590	103,506,060	42,114,500
Sandpaper, emery paper, and other abrasive paper and cloth. ¹⁵	1929	11	1,228	1,739,544	8,375,277	17,218,590	8,843,313
Signs and advertising novelties.	1935	1,075	13,712	14,931,988	21,221,833	61,362,382	40,140,540
	1933	848	12,044	11,577,349	15,311,910	47,144,351	31,832,441
	1931	1,078	14,463	18,484,776	21,297,359	74,681,351	53,393,992
	1929	1,239	20,000	27,900,605	35,701,412	118,044,157	82,342,745
Soda fountains and accessories.	1935	48	1,096	1,435,670	4,123,962	8,214,090	4,090,128
	1933	40	816	948,128	2,649,345	6,035,004	3,385,719
	1931	47	1,563	2,189,082	5,235,695	14,605,953	9,370,287
	1929	54	2,764	3,921,538	10,489,871	24,509,782	14,019,912
Sporting and athletic goods, not including firearms or ammunition.	1935	196	9,665	9,018,083	16,571,425	34,863,740	18,292,305
	1933	176	8,215	6,523,376	10,569,823	25,267,452	14,697,629
	1931	217	10,176	11,219,073	20,098,555	49,257,447	29,158,882
	1929	242	10,793	13,135,484	24,482,236	58,288,728	33,806,492

For footnotes, see end of table.

SUMMARY OF GROUP 16.—MISCELLANEOUS INDUSTRIES: 1929 to 1935—Contd.

[See "Changes in industry groups, classifications, and titles," p. 42]

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture ¹
Other industries—Con. Stationery goods not elsewhere classified. ¹⁶	1933	86	3,467	\$2,737,622	\$6,818,251	\$14,241,040	\$7,422,789
	1931	128	5,088	5,345,044	12,211,290	27,195,824	14,984,528
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified. ¹⁷	1935	124	4,774	4,741,987	11,751,751	24,258,357	12,506,606
	1933	118	4,285	3,784,513	8,728,484	19,389,666	10,661,182
	1931	131	4,120	4,544,613	10,253,017	22,646,635	12,393,618
	1929	163	6,477	8,746,270	20,052,483	43,055,811	22,453,328
Surgical and orthopedic appliances and related products.	1935	307	7,089	6,287,665	36,107,082	61,764,425	25,657,343
	1933	250	6,968	6,118,814	28,846,426	51,442,064	22,598,638
	1931	325	6,740	7,271,373	22,954,244	51,012,062	28,057,818
	1929	363	7,910	8,921,668	36,004,844	71,607,119	35,062,275
Theatrical scenery and stage equipment.	1935	48	279	436,589	749,120	1,937,004	1,187,878
	1933	40	312	396,699	616,898	2,043,785	1,426,887
	1931	45	365	640,117	1,218,498	3,002,860	1,784,362
	1929	55	547	992,133	2,098,498	5,507,827	3,409,329
Toys (not including children's wheel goods or sleds), games, and playground equipment.	1935	384	15,375	12,128,772	23,651,877	52,156,433	28,504,556
	1933	285	12,484	8,877,414	17,118,923	37,221,503	20,102,580
	1931	380	13,231	12,379,612	21,514,744	53,600,779	32,086,085
	1929	476	16,660	17,660,673	29,981,527	74,828,981	44,847,454
Umbrellas, parasols, and canes.	1935	83	2,186	1,712,054	6,140,198	10,085,739	3,945,541
	1933	80	2,155	1,530,932	4,971,666	8,258,697	3,287,101
	1931	93	1,852	1,610,627	5,135,061	9,114,759	3,978,798
	1929	141	2,855	2,768,410	10,907,373	17,994,376	7,087,003
Window shades (textile and paper) and fixtures.	1935	319	2,999	2,710,027	12,216,026	20,324,041	8,108,015
	1933	312	2,903	2,264,192	9,115,379	10,169,887	7,054,508
	1931	448	3,119	3,313,322	11,198,002	20,501,734	9,868,782
	1929	482	4,708	5,623,588	19,785,350	30,964,094	17,179,344
Wool pulling	1935	17	866	975,151	9,010,680	12,403,197	3,392,517
	1933	16	678	669,749	7,087,308	10,225,658	3,138,350
	1931	14	640	914,787	5,358,852	7,377,613	2,018,761
	1929	18	596	907,278	10,910,694	13,648,094	2,731,070

¹ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18' p. 11.

² Revised to exclude data for "Hats, straw, men's" industry, transferred to Group 2, and to include data for "Wool pulling" industry, transferred from Group 2.

³ No comparable data.

⁴ Amount of internal-revenue tax paid by tobacco, cigar, and cigarette manufacturers included in "Cost of materials," etc., to avoid inflating "Value added by manufacture." See "Inclusion of internal-revenue tax in cost of materials and value of products," p. 1260.

⁵ "Cost of materials," etc., revised to include amount of internal-revenue tax; "Value added by manufacture" revised accordingly. (See footnote 4.)

⁶ Not including amount of internal-revenue tax.

⁷ No comparable figures available. (See "Inclusion of internal-revenue tax in cost of materials and value of products," p. 1260.)

⁸ Manufacturers of crayons, formerly classified in "Artists' materials," are now classified in "Pencils, lead (including mechanical), and crayons." Figures for both industries for 1933 and prior years have been adjusted accordingly.

⁹ New classification; no comparable figures available for earlier years.

¹⁰ Revised; revision carried into total for subgroup but not into aggregate for group.

¹¹ Manufacturers formerly assigned to this industry are now classified in other industries, according to the character of their principal products.

¹² Manufacturers of gas and water meters, formerly assigned to "Meters (gas, water, etc.) and gas generators," Group 13 (abandoned at Census for 1935), are now classified in this industry. The figures for years prior to 1935 have been revised accordingly, but the revision has not been carried into the total for the subgroup nor into the aggregate for the group.

¹³ Not now treated as a manufacturing industry.

¹⁴ Manufacturers of phonographs are now classified in the "Radio apparatus and phonographs" industry, in Group 13.

¹⁵ Abandoned as a separate classification; now included in "Abrasive wheels, stones, paper, and cloth, and related products," in Group 10.

¹⁶ Abandoned as a separate classification; establishments formerly classified in this industry now assigned to industries in Groups 4, 5, and 16.

¹⁷ Revised to exclude data for establishments manufacturing mineral wool as a primary product, such establishments having been transferred to "Wallboard and plaster (except gypsum), building insulation, and floor composition," in Group 10. Revision not carried into total for subgroup or aggregate for group.

1603

ARTISTS' MATERIALS

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, wax, and tailors' chalk; 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. Crayons and crayon pencils, formerly treated as products of this industry, are now assigned to the Pencils and Crayons industry, and the figures for earlier years have been revised accordingly.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933 ¹	1931 ¹	1929 ¹	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	47	38	(?) 45	51	(*)	(*)
Proprietors and firm members.....	26	19	(?)	27	(*)	(*)
Salaried personnel, total ²	176	(?)	(?)	175	(?)	0.6
Salaried officers of corporations.....	38	(?)	(?)	36	(?)	(*)
Supervisory, technical, and clerical employees.....	³ 138	³ 111	(?)	139	24.3	-0.7
Salaries paid, total ²	\$375,173	(?)	(?)	\$530,511	(?)	-29.3
To salaried officers of corporations.....	\$179,406	(?)	(?)	\$237,977	(?)	-24.6
To supervisory, technical, and clerical employees.....	³ 195,767	³ 172,982	(?)	\$292,534	13.2	-33.1
Wage earners (average for year) ²	³ 350	265	328	623	32.1	-43.8
Wages.....	\$336,998	\$259,293	\$368,026	\$793,941	30.0	-57.6
Cost of materials, etc., total.....	1,222,290	988,891	1,210,930	2,997,826	23.6	-59.2
Cost of materials, supplies, and containers.....	1,172,275	(?)	(?)	2,946,059	(?)	-60.2
Cost of fuel.....	22,979	(?)	(?)	30,878	(?)	-25.6
Cost of purchased electric energy.....	27,036	(?)	(?)	20,889	(?)	-29.4
Value of products.....	⁴ 2,431,162	2,136,740	2,544,100	5,939,740	13.8	-59.1
Value added by manufacture ⁵	1,208,872	1,147,849	1,333,170	2,941,914	5.3	-58.9

* Percent not computed where base is less than 100.

¹ Revised. See "Description of the industry," above.

² No data.

³ No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

⁴ Data incomplete.

⁵ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 17; salaries, \$53,590. Technical, 14; salaries, \$24,350. Clerical, 107; salaries, \$117,827. See sec. 10, p. 7.

⁶ Supervisory, 33; salaries, \$81,932. Clerical and other, 78; salaries, \$91,050. See sec. 10, p. 7.

⁷ See sec. 11, p. 7.

⁸ Includes \$32,145, value of miscellaneous products not normally belonging to this industry, but does not include \$633,043, value of artists' materials made as secondary products in other industries. The total value of artists' materials made in 1935, so far as separately reported to the Bureau of the Census, regardless of the industry classification of the establishments by which manufactured, was \$3,032,060.

⁹ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18 p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 3 and 9, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States	47	176	350	\$375, 173	\$336, 998	\$1, 222, 290	\$2, 431, 162	\$1, 208, 872
California	4	5	5	5, 326	4, 336	10, 016	32, 304	22, 288
Illinois	6	4	15	4, 611	14, 501	25, 101	65, 053	39, 952
New Jersey	7	25	53	57, 864	66, 728	456, 761	708, 224	336, 463
New York	18	41	88	122, 197	91, 764	246, 571	571, 352	324, 781
Ohio	5	13	31	31, 852	28, 810	65, 844	214, 678	148, 834
Pennsylvania	4	80	146	145, 113	122, 392	379, 417	687, 283	307, 866
Other States ¹	3	8	12	8, 210	8, 967	38, 580	67, 268	28, 688

¹ Indiana, 1 establishment; Massachusetts, 1; Michigan, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935	350	325	337	353	360	357	354	346	349	345	353	360	356
1933	265	(*)	(*)	245	(*)	(*)	275	(*)	(*)	269	(*)	(*)	296
<i>States, 1935</i>													
California	5	5	5	5	5	5	5	5	5	5	5	5	5
Illinois	15	15	15	15	15	15	15	15	15	15	15	16	16
New Jersey	53	45	50	58	60	54	57	51	54	53	52	51	50
New York	88	82	83	86	90	90	87	85	85	88	92	95	91
Ohio	31	27	28	30	31	32	32	31	32	31	30	31	33
Pennsylvania	146	139	144	147	147	149	146	147	146	141	147	150	149

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

BEAUTY-SHOP EQUIPMENT, EXCEPT FURNITURE

[A preliminary report for this industry was issued Feb. 1, 1937]

Description of the industry.—The manufacture of beauty-shop equipment was classified as a separate industry for the first time in the Census for 1935. This industry embraces establishments engaged wholly or chiefly in the manufacture of devices and equipment for use in beauty shops or beauty parlors. The classification does not cover the manufacture of furniture, nor of 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 Machinery, Apparatus, and Supplies industry. As the classes of products now assigned to this industry were formerly distributed under other classifications, and in many cases were not separately reported, no comparable figures can be given for years prior to 1935.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1935

	Number or amount		Number or amount
Number of establishments.....	82	Wage earners (average for year) ¹	2, 179
Proprietors and firm members.....	40	Wages.....	\$1, 967, 802
Salaries personnel, total ²	481	Cost of materials, etc., total.....	5, 017, 809
Salaried officers of corporations.....	80	Cost of materials, supplies, and con- tainers.....	4, 030, 357
Supervisory, technical, and clerical employees.....	2401	Cost of fuel.....	11, 174
Salaries paid, total ³	\$1, 085, 993	Cost of purchased electric energy.....	65, 778
To salaried officers of corporations.....	\$461, 931	Value of products.....	12, 624, 674
To supervisory, technical, and clerical employees.....	\$ 624, 062	Value added by manufacture ⁴	7, 507, 265

¹ No data for employees of central administrative offices are included in the figures. See sec. 10, p. 7.

² Supervisory, 67; salaries, \$196,052. Technical, 33; salaries \$80,443. Clerical, 301; salaries, \$347,507. See sec. 10, p. 7.

³ See sec. 11, p. 7.

⁴ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 1 and 4, table 1]

	Number of estab- lish- ments	Salaried officers and em- ployees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manu- facture
United States.....	82	481	2, 179	\$1,085,993	\$1, 967, 802	\$5, 017, 809	\$12, 624, 674	\$7, 507, 265
California.....	12	31	168	45, 226	178, 696	665, 997	1, 501, 049	835, 052
Illinois.....	14	113	418	222, 600	308, 812	968, 579	1, 852, 200	838, 021
Minnesota.....	6	31	66	87, 115	69, 682	180, 048	431, 152	251, 104
New York.....	20	114	556	289, 003	516, 752	1, 559, 894	4, 718, 536	3, 158, 042
Ohio.....	7	25	90	94, 940	89, 042	269, 721	610, 853	341, 132
Pennsylvania.....	6	27	67	85, 107	44, 141	57, 916	247, 178	189, 202
Other States ¹	17	140	825	381, 933	705, 677	1, 315, 154	3, 193, 606	1, 848, 452

¹ Connecticut, 1 establishment; Indiana, 1; Kentucky, 1; Maryland, 1; Michigan, 3; Missouri, 4; New Hampshire, 1; New Jersey, 3; Oklahoma, 1; Wisconsin, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States.....	2,179	2,136	2,121	2,287	2,447	2,385	2,205	2,112	1,954	2,079	2,216	2,107	2,099
California.....	168	179	168	171	195	162	150	153	151	151	173	183	182
Illinois.....	418	395	385	478	539	520	438	419	350	330	360	395	402
Michigan.....	35	31	40	87	76	44	26	6	6	36	33	23	13
Minnesota.....	66	63	67	72	67	72	65	67	66	67	64	63	62
Missouri.....	89	110	94	91	104	112	104	74	59	77	84	70	86
New Jersey.....	569	569	569	544	549	525	522	528	558	638	700	557	565
New York.....	556	525	538	558	609	655	619	571	487	508	528	542	527
Ohio.....	90	79	79	101	117	99	91	94	90	86	87	80	78
Pennsylvania.....	57	68	61	60	61	65	57	61	52	50	49	52	52

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935

	Value
1. "Beauty-Shop Equipment, Except Furniture" industry, total value.....	\$12,524,574
2. Beauty-shop equipment.....	10,562,219
3. Other products (not normally belonging to the industry).....	1,904,748
4. Receipts for contract and custom work.....	57,607
5. Beauty-shop equipment made as secondary products in other industries.....	564,778
Beauty-shop equipment, except furniture, aggregate value (sum of 2 and 5).....	11,126,997
Permanent-waving machines.....	3,624,830
Hair driers.....	2,741,092
Permanent-waving pads.....	910,919
Permanent-waving-machine parts.....	356,215
Manicuring implements.....	704,212
Eyebrow-tweezers, power-driven.....	37,275
Other beauty-shop equipment and beauty-shop supplies ¹	2,752,454

¹ Hair curlers, machineless permanent-waving devices, heaters, permanent-waving solutions, eyelash curlers, eye shadow, etc.

BROOMS

[A preliminary report for this industry was issued November 3, 1933]

Description of the industry.—The Broom industry embraces commercial establishments engaged primarily in the manufacture of household brooms, whisk brooms, and industrial brooms, made from broom corn, 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 table 4, but no data for such institutions are included in any of the other tables.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	348	260	334	407	33.8	-14.5
Proprietors and firm members.....	362	220	(1)	389	64.5	-6.0
Salaried personnel, total ¹	401	(3)	(1)	474	(2)	-15.4
Salaried officers of corporations.....	120	(3)	(1)	129	(2)	-7.0
Supervisory and clerical employees.....	⁴ 281	⁵ 259	(1)	345	8.5	-18.6
Salaries paid, total ²	\$674,891	(3)	(1)	\$1,097,040	(2)	-38.5
To salaried officers of corporations.....	\$350,995	(3)	(1)	\$508,541	(2)	-31.0
To supervisory and clerical employees.....	⁴ \$323,896	⁵ \$298,690	(1)	\$588,499	8.4	-45.0
Wage earners (average for year) ³	4,153	3,757	4,086	4,542	10.7	-8.5
Wages.....	\$3,071,614	\$2,111,180	\$3,325,998	\$4,169,087	45.5	-26.3
Cost of materials, etc., total.....	7,480,065	4,601,014	6,264,020	9,647,688	62.6	-22.5
Cost of materials and supplies.....	7,348,258	(1)	(1)	9,489,474	(1)	-22.6
Cost of fuel.....	44,386	(1)	(1)	59,732	(1)	-25.7
Cost of purchased electric energy.....	87,421	(1)	(1)	98,482	(1)	-11.2
Value of products.....	14,338,360	9,072,921	13,134,907	19,166,353	68.0	-25.2
Value added by manufacture ⁷	6,858,295	4,471,907	6,870,887	9,518,665	53.4	-27.9

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 16, p. 7.

³ Data incomplete.

⁴ Supervisory, 97; salaries \$162,606. Clerical, 184; salaries, \$161,290.

⁵ Supervisory, 92; salaries, \$152,396. Clerical, 167; salaries, \$146,294.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States..	348	401	4, 158	\$674, 891	\$3, 071, 614	\$7, 480, 065	\$14, 338, 300	\$6, 858, 295
Alabama.....	5	7	57	7, 885	33, 095	88, 404	166, 436	78, 032
Arkansas.....	5	3	35	5, 162	23, 289	89, 825	153, 105	63, 280
California.....	16	5	117	7, 596	115, 427	257, 875	487, 469	229, 894
Florida.....	8	10	172	8, 304	85, 115	97, 789	256, 162	153, 373
Georgia.....	7	4	66	4, 215	42, 274	98, 426	179, 720	81, 294
Illinois.....	27	43	417	98, 153	339, 624	820, 867	1, 599, 917	779, 050
Indiana.....	11	28	183	39, 901	113, 328	274, 860	514, 805	239, 936
Iowa.....	13	10	102	18, 171	72, 105	176, 328	329, 397	153, 069
Kansas.....	12	4	69	4, 860	50, 863	137, 340	245, 475	108, 135
Kentucky.....	9	25	219	44, 647	146, 105	421, 073	694, 165	273, 092
Louisiana.....	7	5	64	3, 118	49, 177	124, 854	207, 176	82, 322
Maryland.....	9	17	398	65, 115	282, 771	440, 124	1, 305, 546	865, 422
Massachusetts.....	6	6	70	6, 985	63, 149	142, 255	265, 134	122, 879
Michigan.....	12	8	66	13, 024	56, 316	140, 860	275, 352	134, 492
Minnesota.....	11	11	58	16, 300	49, 261	137, 770	242, 111	104, 341
Mississippi.....	3	2	26	(¹)	13, 136	36, 893	74, 830	37, 937
Missouri.....	13	6	120	11, 198	86, 413	221, 333	389, 461	167, 628
New York.....	32	54	370	100, 360	290, 347	854, 818	1, 524, 128	669, 310
North Carolina.....	5	2	44	(¹)	24, 493	86, 463	134, 948	48, 485
Ohio.....	18	22	177	27, 541	137, 904	380, 956	660, 205	279, 249
Oklahoma.....	6	6	40	7, 703	31, 871	62, 740	143, 856	81, 116
Oregon.....	3	3	34	3, 671	24, 688	47, 328	113, 966	66, 038
Pennsylvania.....	29	33	331	52, 709	275, 469	614, 198	1, 177, 066	562, 868
Rhode Island.....	3	2	6	(¹)	5, 008	15, 772	24, 530	8, 753
Tennessee.....	8	6	59	4, 519	26, 596	82, 062	134, 710	52, 648
Texas.....	29	22	232	29, 405	166, 627	446, 382	809, 417	363, 035
Washington.....	5	1	24	(¹)	23, 193	58, 373	109, 946	51, 573
Wisconsin.....	7	4	40	3, 525	34, 602	81, 496	156, 607	75, 111
Other States ²	20	52	564	3 90, 824	407, 988	1, 042, 392	1, 962, 720	920, 323

¹ Withheld to avoid disclosing salaries of individual employees; included in figure for "Other States."² Arizona, 1 establishment; Colorado, 3; Connecticut, 1; Maine, 3; Montana, 1; Nebraska, 7; New Jersey, 5; South Carolina, 1; South Dakota, 1; Utah, 2; Virginia, 2; West Virginia, 2.³ Includes salaries for States covered by footnote 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935
 [See secs. 11 and 23, pp. 7 and 12]

1935	1933	Average number employed during year	NUMBER REPORTED FOR—											
			January	February	March	April	May	June	July	August	September	October	November	December
United States		4,158 3,757	4,026 (*)	4,117 (*)	4,139 3,730	4,200 (*)	4,101 (*)	4,026 3,772	3,824 (*)	3,977 (*)	4,317 3,773	4,409 (*)	4,427 (*)	4,338 3,705
States, 1935														
Alabama		57	54	56	53	53	52	55	62	64	64	64	62	53
Arkansas		35	35	35	35	35	35	35	35	37	37	38	35	34
California		117	114	114	118	116	118	118	125	120	120	120	121	125
Colorado		89	94	94	95	95	90	87	86	101	107	107	110	112
Florida		172	157	159	158	160	171	177	181	179	187	187	194	182
Georgia		66	63	62	68	66	64	67	73	72	67	67	66	64
Illinois		417	413	407	404	406	403	396	412	427	445	441	441	434
Indiana		193	203	197	198	195	193	182	182	182	193	187	182	176
Iowa		102	100	104	111	99	96	102	94	94	98	102	108	109
Kansas		69	60	64	70	72	63	58	64	64	81	79	78	78
Kentucky		219	227	224	221	214	205	170	178	178	241	247	247	231
Louisiana		64	70	70	73	63	53	56	54	64	64	67	66	58
Maine		11	11	11	11	11	11	11	11	11	11	11	11	11
Maryland		398	405	402	404	403	393	375	391	397	401	405	400	401
Massachusetts		70	68	70	73	72	61	62	58	58	72	72	82	82
Michigan		66	66	66	66	67	62	63	62	65	65	71	71	71
Minnesota		58	52	55	63	57	53	53	55	66	65	66	66	60
Mississippi		30	23	23	23	25	24	21	25	28	28	29	30	29
Missouri		120	111	111	113	106	107	107	115	144	144	141	140	137
Nebraska		267	249	263	279	298	292	271	281	264	276	276	270	274
New Jersey		119	119	119	117	118	120	120	120	122	124	124	123	122
New York		370	370	375	375	374	381	379	362	383	390	390	398	398
North Carolina		44	44	44	44	44	44	44	44	44	44	44	44	44
Ohio		171	165	185	190	172	161	150	163	186	189	189	193	187
Oklahoma		40	43	43	44	38	38	33	35	35	44	43	43	39
Oregon		34	42	42	35	35	35	35	32	32	31	31	30	27
Pennsylvania		331	307	317	325	318	313	310	327	352	352	363	365	364
Rhode Island		6	7	7	7	6	5	5	5	6	6	6	6	5
Tennessee		59	56	59	60	59	59	59	56	56	58	61	60	60
Texas		230	230	234	234	231	221	222	222	237	241	241	239	239
Washington		24	24	24	25	22	24	25	22	22	25	25	25	25
Wisconsin		40	40	39	40	40	40	40	39	39	39	39	40	43

*Data incomplete. See last sentence, second paragraph, sec. 1, p. 7.

BROOMS

1187

TABLE 4.—BROOMS—PRODUCTION, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929

	1935	1931	1929
1. Brooms industry, all products, total value.....	\$14, 338, 860	\$13, 134, 907	\$19, 106, 353
2. Brooms.....	13, 830, 106	12, 700, 247	18, 704, 571
3. Other products (not normally belonging to the industry).....	508, 254	434, 660	401, 782
4. Brooms made as secondary products in other industries.....	1, 252, 231	380, 618	621, 987
5. Brooms made in institutions for the blind.....	1, 061, 294	854, 882	1, 507, 885
Brooms, aggregate value (sum of 2, 4, and 5).....	16, 143, 631	13, 941, 747	20, 834, 443
MADE IN COMMERCIAL ESTABLISHMENTS AND IN INSTITUTIONS FOR THE BLIND			
Household brooms:			
Total dozens.....	3, 163, 403	2, 947, 400	3, 347, 830
Total value.....	\$13, 641, 749	\$11, 514, 921	\$16, 932, 817
Made of broomcorn:			
Dozens.....	3, 051, 356	2, 908, 955	3, 308, 125
Value.....	\$12, 447, 445	\$11, 811, 533	\$16, 658, 941
Made of bassine:			
Dozens.....	112, 047	38, 445	41, 714
Value.....	\$1, 094, 304	\$203, 388	\$273, 876
Whiskbrooms:			
Total dozens.....	474, 559	530, 334	553, 133
Total value.....	\$759, 149	\$936, 009	\$1, 208, 083
Made of broomcorn:			
Dozens.....	420, 744	435, 324	468, 371
Value.....	\$675, 271	\$824, 032	\$1, 017, 651
Made of other materials:			
Dozens.....	44, 815	95, 510	84, 762
Value.....	\$83, 878	\$111, 977	\$190, 432
Toy and hearth brooms, made of broomcorn:			
Dozens.....	75, 982	90, 221	86, 026
Value.....	\$89, 885	\$110, 071	\$125, 275
Industrial brooms:			
Total dozens.....	336, 353	231, 518	331, 547
Total value.....	\$1, 690, 866	\$1, 203, 922	\$1, 955, 602
Made of broomcorn:			
Dozens.....	162, 326	133, 311	173, 759
Value.....	\$771, 577	\$651, 381	\$1, 000, 147
Made of broomcorn and other materials (mixed):			
Dozens.....	122, 262	56, 844	78, 059
Value.....	\$551, 230	\$296, 588	\$450, 231
Made of bass or of bassine, or both:			
Dozens.....	33, 083	24, 270	39, 566
Value.....	\$259, 590	\$174, 893	\$303, 088
Made of bamboo, rattan, or reed, or of mixtures thereof:			
Dozens.....	18, 082	17, 084	40, 163
Value.....	\$108, 469	\$81, 060	\$202, 136
Other brooms (except street-sweeping-machine):			
Dozens.....	(¹)	(¹)	5, 299
Value.....	\$42, 816	\$140, 920	\$572, 272
Street-sweeping-machine brooms:			
Number.....	1, 213	1, 688	1, 800
Value.....	\$19, 166	\$34, 995	\$40, 394
MADE IN COMMERCIAL ESTABLISHMENTS			
Total value.....	\$15, 082, 337	\$13, 086, 865	\$19, 326, 558
Household brooms:			
Total dozens.....	2, 967, 672	2, 788, 108	3, 132, 620
Total value.....	\$12, 764, 151	\$10, 906, 375	\$15, 899, 225
Made of broomcorn:			
Dozens.....	2, 855, 625	2, 749, 663	3, 090, 906
Value.....	\$11, 659, 847	\$10, 702, 987	\$15, 625, 349
Made of bassine:			
Dozens.....	112, 047	38, 445	41, 714
Value.....	\$1, 094, 304	\$203, 388	\$273, 876
Whiskbrooms:			
Total dozens.....	465, 570	518, 093	535, 170
Total value.....	\$742, 371	\$915, 613	\$1, 171, 920
Made of broomcorn:			
Dozens.....	423, 082	427, 533	450, 708
Value.....	\$662, 060	\$809, 386	\$982, 388
Made of other materials:			
Dozens.....	42, 488	90, 510	84, 462
Value.....	\$80, 311	\$106, 227	\$189, 532

¹ No data.

TABLE 4.—BROOMS—PRODUCTION, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929—Continued

	1935	1931	1929
MADE IN COMMERCIAL ESTABLISHMENTS—continued			
Toy and hearth brooms made of broomcorn:			
Dozens.....	63, 792	70, 638	67, 991
Value.....	\$78, 975	\$89, 494	\$102, 285
Industrial brooms:			
Total dozens.....	289, 879	196, 069	263, 964
Total value.....	\$1, 444, 858	\$999, 459	\$1, 540, 462
Made of broomcorn:			
Dozens.....	133, 321	112, 452	127, 149
Value.....	\$601, 313	\$533, 537	\$721, 273
Made of broomcorn and other material (mixed):			
Dozens.....	105, 367	44, 582	63, 411
Value.....	\$479, 913	\$221, 287	\$351, 927
Made of bass or of bassine, or both:			
Dozens.....	32, 794	24, 146	39, 366
Value.....	\$256, 920	\$173, 984	\$301, 688
Made of bamboo, rattan, or reed, or of mixtures thereof:			
Dozens.....	18, 397	14, 889	34, 038
Value.....	\$106, 712	\$70, 651	\$165, 674
Other brooms (except street-sweeping-machine):			
Dozens.....	(¹)	(¹)	5, 299
Value.....	\$42, 816	\$140, 929	\$572, 272
Street-sweeping-machine brooms:			
Number.....	1, 213	1, 688	1, 800
Value.....	\$19, 166	\$84, 995	\$40, 394
MADE IN INSTITUTIONS FOR THE BLIND			
Total value.....	\$1, 061, 294	\$854, 882	\$1, 507, 885
Household brooms made of broomcorn:			
Dozens.....	195, 731	159, 292	215, 219
Value.....	\$787, 598	\$608, 546	\$1, 083, 592
Whiskbrooms:			
Total dozens.....	8, 989	12, 741	17, 063
Total value.....	\$16, 778	\$20, 396	\$36, 163
Made of broomcorn:			
Dozens.....	6, 662	7, 741	17, 633
Value.....	\$13, 211	\$14, 646	\$35, 263
Made of other materials:			
Dozens.....	2, 327	5, 000	300
Value.....	\$3, 567	\$5, 750	\$600
Toy and hearth brooms made of broomcorn:			
Dozens.....	12, 190	19, 583	18, 035
Value.....	\$10, 910	\$21, 477	\$22, 990
Industrial brooms:			
Total dozens.....	46, 474	35, 449	67, 683
Total value.....	\$246, 008	\$204, 463	\$415, 140
Made of broomcorn:			
Dozens.....	29, 005	20, 859	46, 610
Value.....	\$170, 264	\$117, 844	\$278, 874
Made of broomcorn and other materials (mixed):			
Dozens.....	16, 895	12, 262	14, 643
Value.....	\$71, 317	\$75, 301	\$98, 304
Made of bass or of bassine, or both:			
Dozens.....	289	133	200
Value.....	\$2, 670	\$909	\$1, 400
Made of bamboo, rattan, or reed, or of mixtures thereof:			
Dozens.....	285	2, 195	6, 125
Value.....	\$1, 757	\$10, 409	\$36, 652

¹No data.

1605

BRUSHES, OTHER THAN RUBBER

[A preliminary report for this industry was issued October 9, 1936]

Description of the industry.—The Brush industry embraces all establishments engaged primarily in the manufacture of brushes of any kind—toothbrushes, toilet brushes, paint and varnish brushes, household brushes, industrial brushes, etc.—*from materials other than rubber.*

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	250	221	264	303	13.1	-17.5
Proprietors and firm members.....	138	98	(1)	188	40.8	-26.6
Salaried personnel, total ²	1,368	(³)	(1)	1,498	(³)	-8.7
Salaried officers of corporations.....	238	(³)	(1)	281	(³)	-15.3
Supervisory, technical, and clerical employees.....	4 1,130	4 835	(1)	1,217	35.3	-7.1
Salaries paid, total ²	\$3,192,927	(³)	(1)	\$4,240,287	(³)	-24.7
To salaried officers of corporations.....	\$1,193,602	(³)	(1)	\$1,668,936	(³)	-28.5
To supervisory, technical, and clerical employees.....	4 \$1,990,325	4 \$1,390,724	(1)	\$2,571,351	42.8	-22.2
Wage earners (average for year) ⁶	6,813	5,809	5,891	7,261	17.4	-6.1
Wages.....	\$6,007,328	\$4,821,015	\$5,991,850	\$7,962,538	24.6	-24.6
Cost of materials, etc., total.....	18,588,896	12,200,138	14,227,575	21,688,253	52.4	-14.3
Cost of materials and supplies.....	18,273,603	(1)	(1)	21,294,515	(1)	-14.2
Cost of fuel.....	135,840	(1)	(1)	198,303	(1)	-31.5
Cost of purchased electric energy..	179,453	(1)	(1)	195,435	(1)	-8.2
Value of products.....	42,091,455	24,575,879	30,827,087	45,549,270	71.3	-7.6
Value added by manufacture ⁷	23,502,559	12,375,741	16,599,512	23,861,017	98.0	-1.5

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 273; salaries, \$936,334. Technical, 15; salaries, \$45,979. Clerical, 842; salaries, \$1,017,012. See sec. 10, p. 7.

⁵ Supervisory, 206; salaries, \$654,037. Clerical and other, 629; salaries, \$745,687. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufac- ture
United States.....	250	1,368	6,818	\$3,192,927	\$6,007,328	\$18,588,896	\$42,091,455	\$23,502,559
California.....	9	21	98	46,441	90,856	282,670	593,807	311,137
Illinois.....	25	106	451	246,861	394,082	2,014,997	4,258,228	2,243,231
Indiana.....	7	44	194	80,344	154,993	506,061	1,052,871	546,010
Maryland.....	6	108	753	211,000	618,992	1,994,920	3,633,031	1,738,111
Massachusetts.....	22	176	666	387,108	575,109	1,515,586	4,129,316	2,613,730
Michigan.....	8	25	83	44,536	90,117	271,447	550,040	279,493
New Jersey.....	20	69	366	160,464	340,162	891,734	1,925,525	1,033,701
New York.....	61	269	2,104	694,126	1,855,556	5,296,556	9,910,794	4,614,283
Ohio.....	16	133	530	318,116	493,680	1,608,467	3,269,196	1,660,729
Pennsylvania.....	18	45	212	110,247	208,786	530,968	1,134,394	603,426
Rhode Island.....	6	7	32	11,329	25,951	31,579	94,524	62,045
Washington.....	5	12	80	27,475	56,633	127,818	242,290	114,472
Wisconsin.....	9	29	116	54,291	92,522	159,649	387,668	228,019
Other States ¹	38	324	1,133	800,595	1,009,889	3,456,444	10,908,771	7,452,327

¹ Colorado, 2 establishments; Connecticut, 5; Delaware, 2; Florida, 2; Georgia, 1; Iowa, 1; Kansas, 2; Kentucky, 2; Maine, 1; Minnesota, 3; Missouri, 2; Nebraska, 2; New Hampshire, 3; North Carolina, 2; Oregon, 2; Texas, 1; Vermont, 4; Virginia, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	NUMBER REPORTED FOR—											
	January	February	March	April	May	June	July	August	September	October	November	December
Average number employed during year	6,818	6,441	6,769	6,900	6,854	6,821	6,793	6,847	6,959	7,161	7,200	6,873
1933	5,809	(*)	4,997	(*)	(*)	5,604	(*)	(*)	6,646	(*)	(*)	6,456
<i>United States</i>												
1935	98	94	97	99	101	97	98	98	101	98	98	97
California	376	301	387	409	404	413	404	403	383	382	365	368
Connecticut	461	425	461	448	443	449	448	463	474	479	469	448
Illinois	194	175	207	222	222	232	241	190	188	164	186	163
Indiana	753	695	703	704	728	727	767	807	811	817	825	793
Maryland	660	635	644	684	659	676	682	687	674	665	684	674
Massachusetts	83	82	85	84	86	91	89	84	86	87	81	69
Michigan	112	114	114	113	109	111	112	114	110	112	112	111
Minnesota	90	80	86	97	102	96	92	86	90	95	89	90
New Hampshire	366	368	377	368	379	366	367	371	352	358	358	365
New Jersey	2,104	1,938	2,071	2,110	2,024	1,989	2,049	2,078	2,218	2,337	2,354	2,222
New York	530	516	506	516	519	510	510	516	533	563	564	564
Ohio	212	200	205	207	209	219	226	223	221	217	207	203
Pennsylvania	32	33	33	35	31	33	28	31	32	34	33	33
Rhode Island	248	245	251	249	249	240	240	242	249	257	259	255
Vermont	80	81	79	80	83	79	78	79	82	83	84	83
Washington	116	115	116	120	119	116	115	116	115	115	115	115
Wisconsin												

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

TABLE 4.—BRUSHES—PRODUCTION, BY KIND AND VALUE: 1935, 1933, AND 1929

	1935	1933	1929
1. "Brushes, Other than Rubber" industry, all products, total value.....	\$42,091,455	\$24,575,879	\$45,549,270
2. Brushes.....	37,742,002	23,679,111	43,203,422
3. Other products (not normally belonging to the industry).....	4,308,144	896,768	2,302,593
4. Receipts for contract and custom work.....	41,309		43,255
5. Brushes made as secondary products in other industries, value.....	619,522	1,040,456	2,029,325
Brushes, aggregate value (sum of 2 and 5).....	38,361,524	25,619,567	45,232,747
Paint and varnish brushes (including artists' brushes).....	10,895,567	8,319,262	16,705,771
Household brushes.....	9,311,145	4,230,093	7,394,686
Toothbrushes, total.....	6,505,184	4,724,684	5,714,727
Handles or backs of cellulose compounds.....	6,057,970	} (1)	(1)
Handles or backs of other materials.....	447,214		
Toilet brushes, total.....	5,223,700	2,049,320	5,129,097
Not ornamented, mounted, or fitted with gold, silver, or platinum, total.....	5,128,976	} (1)	(1)
Handles or backs of cellulose compounds.....	2,590,239		
Handles or backs of other materials.....	2,538,737		
Ornamented, mounted, or fitted with gold, silver, or platinum.....	94,724	} (1)	(1)
Industrial brushes, total.....	5,186,675			3,232,170	6,228,876
Rotary, power.....	1,370,703	} (1)	(1)
Other (including push brooms).....	3,815,972		
Hair pencils and brushes not reported by kind.....	1,239,253			3,064,038	4,030,091

¹ No data.

1606

BUTTONS

[A preliminary report for this industry was issued December 30, 1936]

Description of the industry.—The establishments in this industry are those whose principal products are buttons, parts of buttons, and button blanks and molds, regardless of kind of material of which made.

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.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	297	200	212	242	48.5	22.7
Proprietors and firm members.....	201	115	(1)	127	74.8	58.3
Salaried personnel, total ²	1,068	(3)	(1)	894	(3)	19.5
Salaried officers of corporations.....	256	(3)	(1)	172	(3)	48.8
Supervisory, technical, and clerical employees.....	⁴ 812	⁵ 566	(1)	722	43.5	12.5
Salaries paid, total ²	\$2,339,467	(3)	(1)	\$2,442,244	(3)	-3.0
To salaried officers of corporations.....	\$1,070,847	(3)	(1)	\$1,001,541	(3)	6.9
To supervisory, technical, and clerical employees.....	⁴ \$1,298,620	⁵ \$955,611	(1)	\$1,440,703	35.9	-9.9
Wage earners (average for year) ³	10,288	9,888	8,224	9,034	4.1	13.9
Wages.....	\$8,151,186	\$6,705,511	\$6,661,117	\$8,813,927	21.6	-7.5
Cost of materials, etc., total.....	11,078,933	8,614,088	8,303,222	11,501,401	28.6	-3.7
Cost of materials, supplies, and containers.....	10,494,866	(1)	(1)	10,960,567	(1)	-4.5
Cost of fuel.....	230,149	(1)	(1)	222,457	(1)	3.5
Cost of purchased electric energy.....	353,918	(1)	(1)	288,377	(1)	22.7
Value of products.....	28,030,735	22,411,607	21,524,572	28,977,919	25.1	-3.3
Value added by manufacture ⁷	16,951,802	13,797,519	13,221,350	17,476,518	22.9	-3.0

¹ No data.² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.³ Data incomplete.⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 337; salaries, \$748,181. Technical, 54; salaries, \$38,736. Clerical, 421; salaries, \$461,703. See sec. 10, p. 7.⁵ Supervisory, 243; salaries, \$590,995. Clerical and other, 323; salaries, \$364,616. See sec. 10, p. 7.⁶ See sec. 11, p. 7.⁷ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufacture
United States..	297	1,068	10,288	\$2,369,467	\$8,151,186	\$11,078,933	\$28,030,735	\$16,951,802
Arkansas.....	5	6	51	3,684	28,824	19,272	69,151	49,879
Connecticut.....	11	131	890	277,645	777,490	1,087,649	2,978,212	1,890,563
Delaware.....	4	5	110	4,346	71,640	195,167	563,872	368,705
Illinois.....	13	15	196	31,220	112,133	80,977	281,744	200,767
Iowa.....	29	133	1,851	339,784	1,168,744	1,536,169	3,784,897	2,248,728
Kentucky.....	4	3	87	2,304	36,199	22,275	80,080	57,805
Massachusetts.....	11	49	646	120,263	461,193	640,966	1,402,621	761,655
Missouri.....	3	9	95	14,938	54,179	29,810	117,914	88,104
New Jersey.....	33	101	986	210,184	894,150	1,306,912	2,944,908	1,638,086
New York.....	152	418	3,250	927,340	2,920,686	4,381,563	11,006,196	6,624,603
Ohio.....	4	4	40	8,375	31,687	25,802	88,587	62,785
Pennsylvania.....	11	58	813	115,218	683,001	616,961	1,679,548	1,062,587
Other States ¹	17	136	1,273	314,166	911,255	1,135,380	3,032,915	1,897,535

¹ California, 1 establishment; Florida, 1; Maine, 1; Maryland, 2; Michigan, 4; Minnesota, 1; New Hampshire, 1; North Carolina, 1; Rhode Island, 1; Texas, 1; Virginia, 2; Washington, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935.....	10,288	10,342	10,778	10,533	10,325	9,736	9,368	9,336	9,813	10,501	10,094	10,988	11,048
1933.....	9,888	(*)	(*)	8,284	(*)	(*)	9,938	(*)	(*)	10,978	(*)	(*)	9,982
States, 1935													
Arkansas.....	51	24	24	24	24	24	24	24	36	36	36	163	169
Connecticut.....	890	904	897	884	869	868	880	860	857	887	934	925	911
Delaware.....	110	140	147	96	96	100	105	105	97	103	105	109	119
Illinois.....	196	167	199	176	135	185	150	157	205	220	228	260	271
Iowa.....	1,851	2,138	2,115	2,073	1,987	1,587	1,505	1,459	1,364	1,742	1,906	2,084	2,151
Kentucky.....	87	93	55	88	97	93	9	57	58	120	123	120	126
Massachusetts.....	646	641	776	752	686	649	619	639	619	604	546	595	630
Michigan.....	274	270	295	296	271	264	271	245	256	282	298	269	270
Missouri.....	95	155	142	93	49	57	26	26	55	101	142	141	157
New Jersey.....	986	933	1,007	978	973	951	919	933	995	1,020	1,028	1,030	1,050
New York.....	3,250	3,153	3,387	3,412	3,377	3,257	3,118	2,848	3,229	3,337	3,306	3,232	3,345
Ohio.....	40	31	29	28	24	23	22	29	28	32	32	91	105
Pennsylvania.....	813	793	824	737	827	755	769	959	993	924	770	740	648

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

BUTTONS

1195

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1935, 1931, AND 1929

[No comparable figures available for 1933]

	1935	1931	1929
1. Buttons industry, all products, total value.....	\$28,030,735	\$21,524,572	\$28,977,919
2. Buttons, button blanks, parts, etc., made in the industry.....	25,866,542	19,936,901	27,829,747
3. Other products (not normally belonging to the industry).....	2,164,193	1,587,671	1,148,172
4. Buttons, molds, etc., made as secondary products in other industries.....	850,863	253,431	582,839
Buttons, button blanks, parts, etc., aggregate value (sum of 2 and 4).....	\$26,717,405	\$20,190,332	\$28,412,586
Buttons:			
Total gross.....	65,779,228	49,498,909	58,295,627
Total value.....	\$24,296,061	\$17,750,410	\$24,215,203
Clothing:			
Galalith:			
Gross.....	10,823,247	1,819,616	1,190,052
Value.....	\$3,855,937	\$1,063,425	\$714,590
Composition: ¹			
Gross.....	9,074,489	4,835,730	6,084,188
Value.....	\$3,241,738	\$623,637	\$1,112,288
Cellulose compounds:			
Gross.....	724,876	496,785	391,248
Value.....	\$1,579,709	\$1,207,716	\$1,182,859
Metal:			
Embossed with a design, device, pattern, or lettering:			
Gross.....	3,059,615	1,835,880	2,843,427
Value.....	\$1,496,113	\$703,456	\$1,209,856
Other metal:			
Gross.....	3,197,210	4,011,970	4,923,835
Value.....	\$566,231	\$880,512	\$1,070,375
Covered with fabric: ²			
Gross.....	6,739,696	1,460,862	1,183,439
Value.....	\$2,220,019	\$863,449	\$759,339
Pearl or shell:			
Fresh-water:			
Gross.....	15,295,713	³ 18,023,787	21,447,983
Value.....	\$4,457,023	³ \$5,056,157	\$6,894,792
Ocean:			
Gross.....	5,322,416	³ 5,144,334	6,052,399
Value.....	\$2,890,936	³ \$3,376,086	\$5,251,894
Vegetable-ivory:			
Gross.....	3,379,821	5,112,860	6,825,036
Value.....	\$1,847,569	\$2,513,604	\$4,050,212
Wood:			
Gross.....	752,361		
Value.....	\$618,381		
Other buttons and buttons not reported by kind: ⁴			
Gross.....	7,400,784	6,757,085	7,354,020
Value.....	\$1,522,405	\$1,462,368	\$1,968,998
Parts of buttons, backs, etc., made for sale as such, value.....	(9)	\$194,249	\$225,731
Button blanks or molds:			
Made for sale as such:			
Gross.....	5,035,109	4,592,164	8,005,227
Value.....	\$1,219,643	\$734,133	\$1,863,641
Transferred to finishing plants under same ownership:			
Gross.....	5,178,988	7,561,759	7,194,611
Value.....	\$1,201,701	\$1,511,540	\$2,108,011

¹ Horn and hoof composition and compounds other than cellulose.

² Covered buttons made for sale as such to the trade, not buttons covered to individual order.

³ Data for a small quantity of pearl or shell shoe buttons included to avoid disclosing production of such buttons by individual establishments.

⁴ Bone, glass, horn, and other clothing buttons; collar and cuff buttons and studs, not metal; shoe buttons; buttons not reported by kind.

⁵ Included in value of "Other buttons" to avoid disclosing value of production reported by individual establishments.

1607

CARBON PAPER AND INKED RIBBONS

[A preliminary report for this industry was issued Dec. 23, 1936]

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

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	56	47	54	57	(*)	(*)
Proprietors and firm members.....	21	15	(1)	21	(*)	-----
Salaried personnel, total ²	529	(3)	(1)	509	(3)	3.9
Salaried officers of corporations.....	78	(3)	(1)	90	(3)	(*)
Supervisory, technical, and clerical employees.....	⁴ 451	⁵ 437	(1)	419	3.2	7.6
Salaries paid, total ²	\$1,381,551	(3)	(1)	\$1,530,423	(3)	-0.7
To salaried officers of corporations.....	\$609,081	(3)	(1)	\$689,837	(3)	-11.7
To supervisory, technical, and clerical employees.....	⁴ \$772,470	⁵ \$745,202	(1)	\$840,586	3.7	-8.1
Wage earners (average for year) ⁶	1,425	1,171	1,198	1,251	21.7	13.0
Wages.....	\$1,629,239	\$1,242,933	\$1,462,688	\$1,702,358	31.1	-4.3
Cost of materials, etc., total.....	7,500,075	5,156,605	6,033,738	7,990,753	45.4	-0.1
Cost of materials, supplies, and containers.....	7,376,766	(1)	(1)	7,874,496	(1)	-6.3
Cost of fuel.....	50,702	(1)	(1)	55,225	(1)	-8.2
Cost of purchased electric energy.....	72,607	(1)	(1)	61,032	(1)	19.0
Value of products.....	14,694,797	11,225,436	13,475,518	17,295,140	30.9	-15.0
Value added by manufacture ⁷	7,194,722	6,068,831	7,441,780	9,304,387	18.6	-22.7

* Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 46; salaries, \$222,561. Technical, 15; salaries, \$49,910. Clerical, 390; salaries, \$499,999. See sec. 10, p. 7.

⁵ Supervisory, 78; salaries, \$322,713. Clerical and other, 359; salaries, \$422,489. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	56	529	1,425	\$1,381,551	\$1,629,239	\$7,500,075	\$14,694,797	\$7,194,722
New Jersey.....	4	83	232	175,761	250,702	846,390	1,737,099	890,709
New York.....	21	185	569	715,967	713,966	3,362,455	6,331,530	2,969,075
Pennsylvania.....	4	11	34	10,257	43,952	235,370	381,127	145,757
Other States ¹	27	250	590	470,566	620,619	3,055,800	6,245,041	3,189,181

¹ California, 3 establishments; Colorado, 1; Connecticut, 2; Illinois, 9; Iowa, 1; Massachusetts, 3; Michigan, 1; Ohio, 4; Oregon, 1; Texas, 1; Wisconsin, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	1,425	1,392	1,415	1,429	1,440	1,432	1,409	1,400	1,382	1,411	1,445	1,450	1,433
1933.....	1,171	(*)	(*)	1,122	(*)	(*)	1,128	(*)	(*)	1,229	(*)	(*)	1,252
<i>States, 1935</i>													
California.....	17	17	17	17	17	17	17	17	17	17	17	18	18
Illinois.....	146	144	147	146	145	144	144	144	144	145	146	148	149
Massachusetts.....	144	138	138	141	148	144	141	145	142	147	146	149	150
New Jersey.....	232	223	225	227	239	235	230	229	232	224	236	239	240
New York.....	569	548	569	572	564	568	559	555	553	574	580	592	595
Ohio.....	104	110	101	104	103	100	103	102	104	104	107	105	108
Pennsylvania.....	34	33	35	36	36	36	31	33	32	32	34	32	34

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935, 1931, AND 1929

[No strictly comparable figures available for 1933]

	1935	1931	1929
1. Carbon Paper and Inked Ribbons industry, all products, total value.....	\$14,694,797	\$13,475,518	\$17,295,140
2. Carbon paper and inked ribbons.....	13,910,082	13,091,151	16,406,911
3. Other products (not normally belonging to the industry).....	766,752	378,197	888,229
4. Receipts for contract work.....	17,963	6,170	
5. Carbon paper and inked ribbons made as secondary products in other industries.....	994,418	1,443,477	374,541
Carbon paper and inked ribbons, total value (sum of 2 and 5).....	14,904,500	14,534,628	16,781,452
Carbon paper.....	9,042,434	8,415,048	10,157,384
Typewriter ribbons.....	4,446,705	4,506,733	5,471,363
Other inked ribbons.....	1,415,361	1,562,847	1,152,705

1609

COMBS AND HAIRPINS, NOT MADE OF METAL OR OF RUBBER

Description of the industry.—The establishments classified in this industry manufacture, as their principal products, combs, hairpins, barrettes, hair ornaments, comb mountings, etc., made from bone, horn, tortoise shell, celluloid, ivory, and other materials except metal and rubber. (Metal hairpins are classified in the "Needles, Pins, Hooks and Eyes, and Slide and Snap Fasteners" industry. Metal combs are not separately reported to the Bureau of the Census. Rubber combs and hairpins are treated as products of the "Rubber Goods Other Than Tires, Inner Tubes, and Boots and Shoes" industry, but are not reported separately.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	11	17	23	24	(*)	(*)
Proprietors and firm members.....	3	3	(1)	16	-----	(*)
Salaried personnel, total ²	38	(3)	(1)	121	(3)	-68.8
Salaried officers of corporations....	14	(3)	(1)	42	(3)	(*)
Supervisory and clerical employees.....	24	41	(1)	79	(*)	(*)
Salaries paid, total ²	\$81,750	(3)	(1)	\$267,983	(1)	-69.5
To salaried officers of corporations.	\$56,494	(3)	(1)	\$144,186	(3)	-60.8
To supervisory and clerical employees.....	\$25,256	\$49,343	(1)	\$123,797	-48.8	-79.6
Wage earners (average for year) ³	238	411	653	656	-42.1	-63.7
Wages.....	\$193,315	\$278,835	\$571,112	\$640,857	-30.7	-69.8
Cost of materials, etc., total.....	314,804	470,561	837,101	1,006,824	-33.1	-68.7
Cost of materials, supplies, and containers.....	300,714	(1)	(1)	974,106	(1)	-69.1
Cost of fuel.....	11,315	(1)	(1)	20,555	(1)	-45.0
Cost of purchased electric energy.....	2,775	(1)	(1)	12,163	(1)	-77.2
Value of products ⁷	705,692	911,287	1,916,641	2,482,419	-22.6	-71.6
Value added by manufacture ⁸	390,838	440,726	1,079,540	1,475,595	-11.3	-73.5

* Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, 8; salaries, \$12,573. Clerical, 16; salaries, \$12,683. See sec. 10, p. 7.

⁵ Supervisory, 16; salaries, \$25,722. Clerical, 25; salaries, \$23,621. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Includes value of miscellaneous products, not normally belonging to this industry, made as secondary products by establishments engaged primarily in the manufacture of combs and hairpins, as follows: For 1935, \$48,448; 1933, \$45,089; 1931, \$138,958; 1929, \$195,213. Does not include following values of combs and hairpins, not made of metal or of rubber, reported by establishments engaged primarily in other lines of manufacture: For 1935, \$704,025; 1933, \$30,218; 1931, \$101,949; 1929, \$653,476.

⁸ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

COMBS AND HAIRPINS, NOT MADE OF METAL OR RUBBER 1199

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 8, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufacture
United States--	11	38	238	\$81,750	\$198,315	\$314,804	\$705,692	\$390,888
Massachusetts-----	5	26	194	41,806	159,051	222,708	491,750	269,042
Other States ¹ -----	6	12	45	39,944	34,264	92,096	213,942	121,846

¹ Illinois, 1 establishment; New Jersey, 1; New York, 3; Ohio, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935-----	238	180	203	234	257	231	214	207	321	294	314	210	195
1933-----	411	(*)	(*)	325	(*)	(*)	440	(*)	(*)	536	(*)	(*)	403
<i>States, 1935</i>													
Massachusetts-----	194	140	164	185	199	173	155	154	267	245	231	184	169
New York-----	35	24	29	39	49	49	49	44	44	39	24	16	16

*Data incomplete. See second sentence, first paragraph, sec. 11, p. 7.

DENTISTS' EQUIPMENT AND SUPPLIES

[A preliminary report for this industry was issued Jan. 21, 1937]

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 plasters, and teeth. It does not, however, cover the manufacture of X-ray machines for dentists' use, which are assigned to the Electrical Machinery, Apparatus, and Supplies industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	87	79	84	87	(*)	-----
Proprietors and firm members.....	30	30	(1)	38	-----	(*)
Salaried personnel, total ²	970	(3)	(1)	958	(3)	1.3
Salaried officers of corporations.....	116	(3)	(1)	93	(3)	(*)
Supervisory, technical, and clerical employees.....	⁴ 854	⁵ 567	(1)	865	50.6	-1.3
SALARIES PAID, TOTAL ²	\$2,240,826	(3)	(1)	\$2,716,592	(3)	-17.5
To salaried officers of corporations.....	\$681,155	(3)	(1)	\$765,039	(3)	-11.0
To supervisory, technical, and clerical employees.....	⁴ \$1,559,671	⁵ \$948,955	(1)	\$1,951,553	64.4	-20.1
Wage earners (average for year) ⁶	3,516	3,120	3,874	4,550	12.7	-22.9
WAGES.....	\$3,631,294	\$2,451,544	\$3,948,702	\$5,359,432	48.1	-32.2
COST OF MATERIALS, ETC., TOTAL.....	9,115,914	6,945,258	9,362,441	17,326,748	31.3	-47.4
Cost of materials, supplies, and containers.....	8,898,518	(1)	(1)	17,047,529	(1)	-47.8
Cost of fuel.....	135,773	(1)	(1)	178,121	(1)	-23.8
Cost of purchased electric energy.....	81,623	(1)	(1)	101,098	(1)	-19.3
VALUE OF PRODUCTS.....	22,968,034	16,437,222	24,005,221	35,180,165	39.7	-34.7
Value added by manufacture ⁷	13,852,120	9,491,964	14,642,780	17,853,417	45.9	-22.4

*Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 208; salaries, \$619,414. Technical, 116; salaries, \$284,138. Clerical, 530; salaries, \$656,119. See sec. 10, p. 7.

⁵ Supervisory, 138; salaries, \$450,812. Clerical and other, 409; salaries, \$498,148. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufac- ture
United States.....	87	970	3, 516	\$2, 240, 826	\$3, 631, 294	\$9, 115, 914	\$22, 968, 034	\$13, 852, 120
California.....	5	9	6	15, 258	4, 527	26, 700	80, 475	53, 775
Colorado.....	3	7	11	9, 129	5, 893	37, 173	67, 184	30, 011
Illinois.....	9	54	147	109, 126	147, 790	131, 389	564, 139	432, 750
Massachusetts.....	5	14	78	27, 518	60, 764	170, 632	297, 234	126, 602
Minnesota.....	4	51	74	185, 403	96, 480	661, 445	1, 036, 107	374, 662
Missouri.....	4	11	6	27, 940	6, 399	49, 888	89, 504	39, 616
New York.....	23	464	1, 209	960, 150	1, 514, 155	5, 304, 804	9, 927, 697	4, 622, 893
Ohio.....	7	75	371	200, 700	336, 596	575, 875	1, 685, 234	1, 109, 359
Pennsylvania.....	15	140	1, 370	424, 582	1, 230, 910	958, 733	6, 726, 827	5, 768, 094
Other States 1.....	12	145	243	331, 020	227, 775	1, 199, 275	2, 493, 633	1, 294, 358

1 Connecticut, 2 establishments; Delaware, 1; Kentucky, 2; Michigan, 2; New Jersey, 1; Oregon, 1; Tennessee, 1; Texas, 1; Washington, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	3, 516	3, 337	3, 355	3, 409	3, 482	3, 520	3, 568	3, 525	3, 643	3, 613	3, 591	3, 562	3, 584
1933.....	3, 120	(*)	(*)	2, 918	(*)	(*)	3, 134	(*)	(*)	3, 251	(*)	(*)	3, 271
<i>States, 1935</i>													
California.....	6	7	6	6	6	6	6	6	6	6	6	6	6
Colorado.....	11	14	14	12	7	7	9	8	10	11	11	13	14
Illinois.....	147	141	140	146	144	141	142	144	149	148	154	157	159
Massachusetts.....	78	82	83	79	89	72	72	68	81	85	71	78	76
Minnesota.....	74	71	71	71	74	78	82	85	84	69	64	70	74
Missouri.....	6	6	5	6	6	6	5	6	7	5	7	6	6
New York.....	1, 209	1, 032	1, 067	1, 123	1, 204	1, 220	1, 314	1, 285	1, 321	1, 280	1, 251	1, 206	1, 207
Ohio.....	371	373	368	372	371	370	309	367	368	361	368	386	383
Pennsylvania.....	1, 370	1, 350	1, 351	1, 373	1, 360	1, 348	1, 341	1, 329	1, 353	1, 331	1, 389	1, 422	1, 441

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935, 1931, AND 1929

[No comparable figures available for 1933]

	1935	1931	1929
1. Dentists' Equipment and Supplies industry, all products, total value.....	\$22,968,034	\$24,005,221	\$35,180,165
2. Dentists' equipment and supplies.....	21,026,031	23,329,070	32,507,032
3. Other products (not normally belonging to the industry).....	1,724,035	331,546	2,650,567
4. Receipts for contract and custom work.....	217,968	344,605	22,566
5. Dentists' equipment and supplies made as secondary products in other industries.....	1,889,492	551,799	522,285
Dentists' equipment and supplies, aggregate value (sum of 2 and 5).....	22,915,523	23,880,869	33,029,317
Teeth.....	6,068,602	6,267,673	6,692,838
Dental gold ¹	6,446,276	7,161,011	12,287,031
Dental alloys and amalgams.....	857,603	1,109,311	1,318,654
Dental cements and filling materials.....	982,207	555,636	736,211
Denture materials, except rubber.....	487,661	(²)	(²)
Burrs, drills, and similar products.....	1,811,809	634,645	797,563
Hand instruments.....	133,387		
Dental chairs and cabinets.....	895,244	³ 890,359	³ 1,177,073
Rubber, waxes, compounds, and investments.....	592,914		
Other dental equipment, including equipment units and sterilizers ⁴	4,639,820	7,253,234	10,019,947

¹ Dental gold is made to some extent in the "Gold, Silver, and Platinum, Refining and Alloying" industry, but the amount of this production is not separately reported.

² No data.

³ Dental chairs only; no data available for dental cabinets.

⁴ Dental X-ray machines are treated as products of the Electrical Machinery, Apparatus, and Supplies industry, and figures for the production of such machines are included in the report for that industry.

1615

FUR GOODS

[A preliminary report for this industry was issued Dec. 22, 1936]

Description of the industry.—This industry, as constituted for Manufactures Census purposes, embraces establishments engaged primarily in the manufacture of fur garments, robes, trimmings, and other fur and fur-lined goods. It does not cover the dressing and dyeing of furs, which are activities of the "Furs, Dressed and Dyed" industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

[See secs. 11 and 23, pp. 7 and 12]

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	2,438	1,463	2,354	2,855	66.6	-14.6
Proprietors and firm members.....	404	1,296	(¹)	3,161	-68.8	-87.2
Salaried personnel, total ²	3,705	(³)	(¹)	4,101	(³)	-9.7
Salaried officers of corporations.....	1,817	(³)	(¹)	1,865	(³)	33.1
Supervisory, technical, and clerical employees.....	⁴ 1,888	⁵ 1,572	(¹)	2,736	20.1	-81.0
Salaries paid, total ²	\$7,792,801	(³)	(¹)	\$12,757,711	(³)	-38.9
To salaried officers of corporations...	\$5,327,612	(³)	(¹)	\$6,582,936	(³)	-19.1
To supervisory, technical, and clerical employees.....	⁴ \$2,465,189	⁵ \$2,146,029	(¹)	\$6,174,775	14.9	-60.1
Wage earners (average for year) ⁶	12,510	8,210	12,358	15,752	52.4	-20.6
Wages.....	\$21,039,529	\$11,500,346	\$24,792,600	\$33,329,965	82.9	-36.9
Cost of materials, etc., total.....	88,584,850	50,060,529	102,634,150	176,106,910	77.0	-49.7
Cost of materials and supplies.....	88,125,428	(¹)	(¹)	175,471,497	(¹)	-49.8
Cost of fuel.....	55,413	(¹)	(¹)	50,160	(¹)	30.4
Cost of purchased electric energy.....	394,009	(¹)	(¹)	585,253	(¹)	-32.7
Value of products.....	143,784,454	80,524,414	164,749,401	277,592,752	78.6	-48.2
Value added by manufacture ⁷	55,199,604	30,463,885	62,115,251	101,485,842	81.2	-45.6

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 274; salaries, \$711,411. Technical, 155; salaries, \$314,369. Clerical, 1,459; salaries, \$1,439,409. See sec. 10, p. 7.

⁵ Supervisory, 339; salaries, \$812,771. Clerical and other, 1,233; salaries, \$1,333,258. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaries of officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products	Value added by manufacture
United States.....	2, 438	3, 705	12, 510	\$7, 792, 801	\$21, 039, 529	\$68, 584, 850	\$143, 784, 454	\$56, 190, 004
California.....	58	67	357	103, 101	499, 376	1, 317, 404	2, 595, 310	1, 278, 416
Connecticut.....	3	4	16	5, 595	18, 407	70, 022	115, 067	45, 045
Illinois.....	88	193	514	486, 487	789, 166	2, 597, 001	4, 929, 909	2, 332, 898
Indiana.....	5	12	33	79, 823	45, 197	81, 688	162, 117	80, 429
Iowa.....	7	24	102	54, 063	91, 095	145, 960	398, 733	252, 707
Maine.....	3	11	26	12, 647	22, 631	29, 962	94, 308	64, 346
Maryland.....	5	7	27	5, 695	31, 719	80, 123	151, 946	65, 823
Massachusetts.....	15	46	78	87, 029	115, 265	259, 807	498, 409	233, 602
Michigan.....	15	37	223	94, 129	200, 404	455, 815	886, 331	430, 516
Minnesota.....	27	114	341	200, 938	365, 754	844, 828	1, 719, 807	874, 979
Missouri.....	12	42	166	131, 686	184, 224	609, 231	1, 068, 668	459, 437
New Jersey.....	12	68	225	22, 414	362, 701	842, 362	1, 392, 146	549, 784
New York.....	2, 101	2, 889	9, 731	6, 102, 576	17, 401, 732	78, 870, 412	125, 466, 041	46, 596, 229
Ohio.....	12	28	98	68, 541	150, 951	335, 688	631, 168	295, 480
Pennsylvania.....	39	73	242	121, 353	351, 345	1, 381, 435	2, 198, 187	816, 752
Washington.....	10	37	113	89, 137	122, 746	173, 163	456, 225	283, 062
Wisconsin.....	18	36	139	85, 088	147, 021	374, 027	680, 723	305, 696
Other States ¹	8	17	79	39, 899	80, 795	109, 916	337, 690	227, 774

¹ District of Columbia, 1 establishment; Montana, 1; Nebraska, 3; North Dakota, 2; Oregon, 1. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year ¹	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	12, 534	8, 571	8, 277	8, 667	9, 164	10, 986	13, 053	15, 575	16, 555	16, 727	16, 132	14, 152	12, 551
1933.....	8, 210	(*)	(*)	5, 718	(*)	(*)	7, 648	(*)	(*)	11, 791	(*)	(*)	8, 030
<i>States, 1935</i>													
California.....	358	316	309	255	288	273	315	391	430	443	457	417	400
Illinois.....	514	365	321	329	387	467	485	563	620	674	684	682	537
Indiana.....	33	32	32	32	31	31	31	31	32	35	36	36	36
Iowa.....	105	74	61	60	79	89	110	114	126	123	151	141	128
Maine.....	26	22	17	16	15	20	26	30	31	34	35	34	28
Maryland.....	27	21	20	14	15	17	26	35	38	38	38	36	30
Massachusetts.....	78	58	61	52	59	75	74	76	81	92	106	106	100
Michigan.....	223	207	197	189	188	196	211	216	229	237	276	258	296
Minnesota.....	341	254	192	246	286	340	344	372	373	420	445	440	384
Missouri.....	166	150	128	110	93	120	162	184	195	206	223	218	202
New Jersey.....	225	219	200	146	127	190	229	243	277	289	289	242	246
New York.....	9, 749	6, 301	6, 235	6, 731	7, 140	8, 624	10, 388	12, 604	13, 277	13, 216	12, 460	10, 654	9, 352
Ohio.....	98	75	74	69	61	67	93	126	134	129	130	126	94
Pennsylvania.....	242	166	161	168	149	181	218	238	326	364	341	304	291
Washington.....	113	91	75	71	71	89	106	112	134	145	160	160	126
Wisconsin.....	139	124	111	106	102	117	134	145	155	164	176	175	160

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

¹ As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, some of them differ from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1935, 1931, AND 1929

[No comparable figures available for 1933]

KIND	VALUE		
	1935	1931	1929
1. Fur-goods industry, all products, total value.....	\$143,784,454	\$164,749,401	\$277,592,752
2. Fur goods.....	135,693,455	150,835,839	253,716,375
3. Other products (not normally belonging to the industry)....	742,619	424,189	1,424,415
4. Receipts for contract work.....	2,717,897	1,806,889	3,210,920
5. Receipts for custom and repair work.....	4,630,483	11,682,484	19,241,042
6. Fur goods made as secondary products in other industries.....	340,324	615,606	173,342
Fur goods, aggregate value (sum of 2 and 6).....	136,033,779	151,451,445	253,880,717
Fur and fur-lined coats and overcoats, total.....	89,861,680	73,986,376	133,830,470
Fur coats:			
Men's.....	517,295	} (1)	} (1)
Women's.....	85,136,623		
Fur-lined coats for men and women.....	4,207,762		
Fur neck pieces, total.....	6,438,793	8,619,464	21,779,241
Silver and black fox.....	1,668,948	(1)	(1)
Other.....	4,769,845	(1)	(1)
Fur trimming, total.....	33,495,648	64,366,134	93,467,356
Silver and black fox.....	3,982,619	(1)	(1)
Other.....	29,513,029	(1)	(1)
Jackets, including sport jackets, fur and fur-lined, total.....	1,409,220		
Men's.....	81,909	} 4,529,471	} 4,803,650
Women's.....	1,327,311		
Wraps not specified above.....	799,207		
Fur hats and caps (not fur-felt).....	19,081		
Other fur and fur-lined goods, including fur robes.....	4,010,150		

¹ No data.

1616

FURS, DRESSED AND DYED

Description of the industry.—The establishments classified in this industry are engaged primarily in scraping, currying, tanning, bleaching, and dyeing pelts and in dressing hair and bristles. In most cases the work is done for others on a contract basis.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

[See secs. 11 and 23, pp. 7 and 12]

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	167	181	243	243	-7.7	-32.7
Proprietors and firm members.....	69	58	(1)	174	(*)	-60.3
Salaried personnel, total ¹	593	(²)	(1)	780	(³)	-24.0
Salaried officers of corporations.....	292	(²)	(1)	317	(³)	-7.9
Supervisory, technical, and clerical employees.....	4 301	5 440	(1)	463	-31.6	-35.0
Salaries paid, total ¹	\$2,040,320	(²)	(1)	\$3,081,603	(³)	-33.8
To salaried officers of corporations..	1,334,518	(²)	(1)	1,794,999	(³)	-25.7
To supervisory, technical, and clerical employees.....	4 705,802	5 953,065	(1)	1,286,604	-26.0	-45.1
Wage earners (average for year) ⁴	6,434	5,364	5,160	5,187	19.9	24.5
Wages.....	\$7,561,237	\$6,246,303	\$7,968,006	\$8,596,377	21.1	-12.0
Cost of materials, etc., total.....	\$6,506,244	\$9,539,725	\$16,220,722	\$18,648,954	-31.8	-65.1
Cost of materials and supplies.....	6,071,904	(1)	(1)	18,213,487	(1)	-66.7
Cost of fuel.....	120,042	(1)	(1)	187,346	(1)	-35.9
Cost of purchased electric energy.....	314,298	(1)	(1)	248,141	(1)	26.7
Value of products and receipts for contract work.....	21,339,863	24,947,543	37,872,653	40,237,192	-14.5	-47.0
Value added by manufacture ⁷	14,833,619	15,407,818	21,651,931	21,539,238	-3.7	-31.3

* Percent not computed where base is less than 100.

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 105; salaries, \$397,313. Technical, 42; salaries, \$110,567. Clerical, 154; salaries, \$191,922. See sec. 10, p. 7.

⁵ Supervisory, 149; salaries, \$532,004. Clerical and other, 291; salaries, \$421,961. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, supplies, fuel, and purchased electric energy. See sec. 18, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Salaries	Wages	Cost of materials, etc., fuel, and purchased energy	Value of products and receipts for contract work	Value added by manufacture
United States...	167	593	6,434	\$2,040,320	\$7,561,237	\$6,506,244	\$21,339,863	\$14,833,619
California.....	4	4	23	8,039	31,819	30,287	161,273	121,986
Illinois.....	4	12	82	19,503	90,508	183,456	348,488	180,032
New Jersey.....	23	156	2,495	667,725	3,249,966	1,409,161	6,513,206	5,104,045
New York.....	113	348	2,893	1,083,616	3,210,556	3,968,463	11,301,975	7,333,512
Pennsylvania.....	9	20	641	131,477	634,935	450,180	1,370,730	920,556
Other States ¹	14	53	299	129,960	343,753	476,697	1,649,185	1,173,488

¹ Colorado, 1 establishment; Connecticut, 2; Delaware, 1; Iowa, 1; Kentucky, 1; Massachusetts, 2; Michigan, 2; Minnesota, 1; Missouri, 1; Washington, 1; Wisconsin, 1. See sec. 23, p. 12.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States													
1935.....	6,434	6,043	6,083	6,317	6,339	6,506	6,497	6,566	6,780	6,915	6,746	6,277	6,134
1933.....	5,364	(*)	(*)	4,374	(*)	(*)	5,546	(*)	(*)	7,141	(*)	(*)	4,454
States, 1935													
California.....	23	11	14	17	18	9	20	36	37	39	39	20	21
Illinois.....	82	91	87	63	89	95	88	37	73	67	63	78	77
New Jersey.....	2,495	2,361	2,385	2,583	2,068	2,700	2,620	2,949	2,463	2,598	2,551	2,295	2,342
New York.....	2,893	2,687	2,714	2,749	2,707	2,825	2,893	3,101	3,192	3,180	3,017	2,844	2,801
Pennsylvania.....	641	582	577	574	558	564	561	687	705	721	731	724	711

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

1629

INSTRUMENTS AND APPARATUS, PROFESSIONAL, SCIENTIFIC, COMMERCIAL, AND INDUSTRIAL

[A preliminary report for this industry was issued Dec. 10, 1936]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of instruments properly so called, such as those used by surgeons (dental instruments are, however, assigned to the Dentists' Equipment and Supplies industry), by surveyors, and by navigators, and instruments for laboratory work, etc.; and of commercial and industrial measuring and control apparatus, such as meters and gauges (except machinists' gauges), controls, pyrometers, speedometers, etc. Electric meters and other devices primarily for electrical use are classified in the Electrical Machinery, Apparatus, and Supplies industry, and optical instruments are assigned to the Optical Goods industry. The classification does not cover the manufacture of gauges, controls, etc., made by manufacturers of machinery, boilers, furnaces, etc., for installation on their own products. The statistics for prior years have been revised by the inclusion of data for gas and water meters, transferred from the former "Meters (Gas, Water, etc.) and Gas Generators" industry.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933*	1931*	1929*	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	283	241	302	306	17.4	-7.5
Proprietors and firm members.....	110	181	(1)	125	-39.2	-12.0
Salaried personnel, total ¹	4,794	(2)	(1)	5,137	(3)	-6.7
Salaried officers of corporations.....	381	(2)	(1)	411	(3)	-7.3
Supervisory, technical, and clerical employees.....	4,413	3,184	(1)	4,726	38.6	-0.6
Salaries paid, total ²	\$10,356,052	(2)	(1)	\$13,600,680	(3)	-23.9
To salaried officers of corporations.....	\$2,544,879	(2)	(1)	\$3,265,261	(3)	-22.1
To supervisory, technical, and clerical employees.....	\$7,811,173	\$5,220,479	(1)	\$10,335,419	49.6	-24.4
Wage earners (average for year) ⁴	15,216	8,894	13,341	21,914	71.1	-30.6
Wages.....	\$17,573,396	\$9,183,461	\$15,911,986	\$30,091,408	91.4	-41.6
Cost of materials, etc., total.....	20,509,815	9,586,173	15,962,564	39,858,868	114.0	-48.5
Cost of materials, supplies, and containers.....	19,689,100	(1)	(1)	38,532,906	(1)	-49.0
Cost of fuel.....	339,186	(1)	(1)	638,675	(1)	-46.9
Cost of purchased electric energy.....	481,529	(1)	(1)	637,227	(1)	-24.4
Value of products.....	68,344,153	35,914,549	59,447,395	121,191,687	90.3	-43.6
Value added by manufacture ⁷	47,834,343	26,328,376	43,494,831	81,332,819	81.7	-41.2

* Revised.
¹ No data.
² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.
³ Data incomplete.
⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 709; salaries, \$2,279,044. Technical, 734; salaries, \$1,842,474. Clerical, 2,970; salaries, \$3,089,055. See sec. 10, p. 7.
⁵ Supervisory, 551; salaries, \$1,772,844. Clerical and other, 2,633; salaries, \$3,447,635. See sec. 10, p. 7.
⁶ See sec. 11, p. 7.
⁷ Value of products less cost of materials, containers, fuel, and purchased electric energy. See sec. 13, p. 11.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	Salaries	Wages	Cost of materials, containers, fuel, and purchased energy	Value of products	Value added by manufac- ture
United States.....	283	4,794	15,216	\$10,356,052	\$17,573,396	\$20,509,815	\$68,344,158	\$47,834,343
California.....	21	71	298	208,166	378,517	594,560	1,869,555	1,274,995
Colorado.....	3	19	54	44,106	57,180	24,821	161,917	137,096
Illinois.....	39	532	3,021	1,159,577	3,213,571	3,700,181	10,097,468	6,397,287
Indiana.....	4	26	91	73,743	105,887	135,699	420,090	284,391
Maryland.....	5	53	136	128,932	133,759	148,010	527,747	379,737
Massachusetts.....	22	246	707	535,676	797,811	1,023,899	3,467,487	2,443,588
New Jersey.....	14	253	1,166	554,558	1,243,623	1,447,527	4,780,625	3,333,098
New York.....	91	2,069	4,816	4,725,193	6,120,349	6,004,958	24,629,396	18,624,438
Ohio.....	14	216	554	438,937	612,249	743,404	2,626,325	1,882,921
Pennsylvania.....	37	881	2,675	1,637,285	3,134,565	4,176,156	12,528,450	8,352,294
Washington.....	4	1	11	(1)	13,407	13,772	38,350	24,578
Other States ²	29	427	1,689	849,879	1,762,478	2,496,828	7,196,748	4,699,920

¹ Withheld to avoid disclosing compensation of individual employees; included in figure for "Other States."

² Connecticut, 4 establishments; District of Columbia, 1; Georgia, 1; Iowa, 1; Michigan, 8; Missouri, 6; Oklahoma, 1; Oregon, 1; Rhode Island, 1; Tennessee, 1; Texas, 1; Utah, 1; Wisconsin, 2.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
1935.....	15,216	14,840	15,291	15,055	15,077	15,008	14,571	14,594	15,182	15,941	16,352	16,548	
1933.....	8,894	7,718	7,718	(*)	(*)	8,552	(*)	(*)	9,821	(*)	(*)	10,420	
<i>United States</i>													
<i>States, 1935</i>													
California.....	298	244	282	299	303	318	313	306	316	305	325	323	
Colorado.....	54	45	44	48	50	56	59	59	60	60	63	67	
Connecticut.....	367	354	385	380	367	359	372	361	341	359	390	387	
Illinois.....	3,021	3,427	3,703	3,291	3,191	3,060	2,550	2,419	2,450	2,929	3,176	3,301	
Indiana.....	91	86	86	94	94	94	95	96	95	88	89	91	
Maryland.....	136	143	141	147	144	139	141	143	139	102	123	125	
Massachusetts.....	707	686	684	684	696	695	707	699	721	736	745	750	
Michigan.....	632	648	594	590	557	372	356	476	870	878	757	806	
Missouri.....	95	80	90	100	108	99	101	101	100	99	91	90	
New Jersey.....	1,166	1,084	1,092	1,134	1,165	1,184	1,197	1,188	1,188	1,205	1,234	1,248	
New York.....	4,816	4,559	4,573	4,623	4,684	4,808	4,940	4,847	4,948	5,055	5,105	5,052	
Ohio.....	554	534	556	525	521	521	520	568	565	581	626	625	
Pennsylvania.....	2,675	2,413	2,511	2,565	2,590	2,610	2,611	2,696	2,771	2,912	2,994	3,038	
Washington.....	11	10	10	10	10	10	11	12	13	11	12	12	

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935, 1931, AND 1929

[No comparable figures available for 1933]

KIND	1935	1931	1929
1. "Instruments and Apparatus, Professional, Scientific, Commercial, and Industrial" industry, all products, total value.....	\$68,344,158	\$59,447,395	\$121,191,687
2. Instruments and apparatus, professional, scientific, commercial, and industrial.....	51,258,419	151,748,317	1103,168,505
3. Other products (not normally belonging to the industry).....	15,318,286	15,352,405	15,787,457
4. Receipts for custom, contract, and repair work.....	1,767,503	2,346,673	2,235,725
5. Instruments and apparatus made as secondary products in other industries.....	8,085,518	14,999,158	15,474,362
Instruments and apparatus, professional, scientific, commercial, and industrial, aggregate value (sum of 2 and 5).....	59,343,937	156,747,475	1108,642,867
Nautical and navigational instruments (binnacles, compasses, aircraft instruments, etc.).....	5,132,803	3,643,362	3,575,422
Surgical instruments and parts.....	3,412,415	3,417,826	5,223,078
Surveyors' instruments.....	1,642,976	1,303,580	2,390,811
Flow indicating, recording, and controlling equipment, including gas and water meters but not electric meters ¹	13,148,814	18,971,489	34,989,740
Pressure indicating, recording, and controlling equipment: Recording, including controllers.....	1,135,612		
Indicating.....	3,688,528		
Speedometers.....	5,393,985	2,860,693	16,624,401
Thermometers.....	4,945,389	5,541,281	9,538,737
Pyrometers.....	2,111,333	1,784,082	3,493,411
Hydrometers.....	656,700	323,979	833,996
Gas-analysis equipment.....	410,023	(3)	(3)
Laboratory instruments and apparatus not specified above, total.....	2,766,842	4,489,729	7,170,939
Electrical.....	1,181,920	(3)	(3)
Other.....	1,584,922	(3)	(3)
Other instruments and apparatus.....	8,434,415	11,010,983	19,417,976
Instruments and apparatus not reported separately.....	1,896,520		
Parts of instruments and apparatus.....	4,558,582	3,399,571	5,414,356

¹ Revised. See "Description of the industry," p. 1208.² See "Description of the industry," p. 1208.³ No data.

1623

LAPIDARY WORK

Description of the industry.—This industry embraces establishments engaged primarily in the cutting, recutting, polishing, and setting of diamonds and other precious and semiprecious stones, the drilling of pearls, the preparation of jewels for watches and chronometers and for surveyors' instruments, and the preparation of real and imitation stones for emblems. This work is done to some extent on a contract basis on materials owned by others, and the establishments that operate on this basis report their receipts for work done as "value of products." Some jewelry manufacturers cut stones for their own use, but do not report the value of such work separately; consequently some overlapping occurs between the Jewelry and Lapidary Work industries.

Omission of State statistics except for wage-earner employment.—As no statistics can be given for the most important State in this industry, namely, New Jersey, without disclosing approximations of data for individual establishments, and as those States for which it would be possible to publish separate figures without disclosing such approximations of data accounted for less than half of the total activity of the industry (as measured by number of wage earners employed) in the United States in 1935, no State statistics are included in this report except in table 2, in which wage-earner-employment figures are given for each State represented by three or more establishments, even though one or two of these establishments reported most of the wage earners employed in the industry in the State. (See sec. 23, p. 12.)

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (—)	
					1933-1935	1929-1935
Number of establishments.....	1 60	84	53	100	(*)	-40.0
Proprietors and firm members.....	81	30	(?)	112	(*)	-27.7
Salaried personnel, total ²	50	(⁴)	(?)	123	(⁴)	-59.3
Salaried officers of corporations.....	15	(⁴)	(?)	30	(⁴)	(*)
Supervisory, technical, and clerical employees.....	³ 35	⁶ 29	(?)	93	(*)	(*)
Salaries paid, total ³	\$94,080	(⁴)	(?)	\$396,877	(⁴)	-76.3
To salaried officers of corporations.....	\$51,638	(⁴)	(?)	\$167,054	(⁴)	-69.1
To supervisory, technical, and clerical employees.....	⁵ \$42,442	⁶ \$30,041	(?)	\$229,823	41.3	-81.5
Wage earners (average for year) ⁷	153	107	205	506	43.0	-69.8
Wages.....	\$200,787	\$124,428	\$339,503	\$1,001,706	61.4	-80.0
Cost of materials, etc., total.....	\$1,238,634	\$483,058	\$1,378,233	\$8,234,889	156.4	-85.0
Cost of materials and supplies.....	\$1,229,313	(²)	(²)	\$8,213,918	(²)	-85.0
Cost of fuel.....	2,190	(²)	(²)	3,869	(²)	-43.4
Cost of purchased electric energy.....	7,131	(²)	(²)	17,102	(²)	-58.3
Value of products and receipts for contract work ⁸	2,049,813	822,873	2,474,998	11,942,421	149.1	-82.8
Value added by manufacture ⁹	811,179	339,815	1,096,765	3,707,532	138.7	-78.1

* Percent not computed where base is less than 100.

¹ California, 9 establishments; Illinois, 2; Massachusetts, 4; New Jersey, 3; New York, 37; Pennsylvania, 3; Rhode Island, 1; Texas, 1.

² No data.

³ No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

⁴ Data incomplete.

⁵ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 3; salaries, \$6,560. Technical, 7; salaries, \$11,358. Clerical, 26; salaries, \$24,524. See sec. 10, p. 7.

⁶ Supervisory, 5; salaries, \$8,029. Clerical and other, 24; salaries, \$21,412. See sec. 10, p. 7.

⁷ See sec. 11, p. 7.

⁸ See "Description of the industry," p. 1212.

⁹ Value of products and receipts for contract work less cost of materials, supplies, fuel, and purchased electric energy.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935

[See secs. 11 and 23, pp. 7 and 12]

	Average number employed during year	NUMBER REPORTED FOR—											
		January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>													
1935.....	153	153	148	153	150	152	162	147	145	152	162	163	156
1933.....	107	(*)	(*)	96	(*)	(*)	108	(*)	(*)	111	(*)	(*)	123
<i>States, 1935</i>													
California.....	10	10	10	10	10	10	10	10	10	10	10	10	10
Massachusetts.....	21	23	21	20	20	20	20	17	18	24	22	23	23
New Jersey.....	55	56	52	54	53	55	53	54	54	53	55	61	60
New York.....	44	45	40	46	44	44	46	43	40	41	50	46	40
Pennsylvania.....	8	5	5	9	9	9	9	9	9	9	9	9	9

* Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.

1624

MATTRESSES AND BED SPRINGS NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued Dec. 9, 1936]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of mattresses (with or without inner springs) and pads filled with hair, cotton, felt, moss, or similar materials; wire springs for use on beds, couches, and cots; and spring cushions. It does not cover the activities of establishments engaged principally in the renovation of mattresses unless such establishments actually manufactured new products to the value of \$5,000 or more. For this reason, and for the further reasons that the industry classification excludes establishments whose products made during the census year were valued at less than \$5,000 (see sec. 6d, p. 5) and also excludes those that make mattresses and bed springs as secondary products (see sec. 14, p. 8) the actual number of establishments engaged primarily in the manufacture of mattresses and bed springs, as shown by the table below, is much smaller than the number of names listed in the International Directory of Bedding Manufacturers.

TABLE 1.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929 TO 1935

	1935	1933	1931	1929	PERCENT OF INCREASE OR DECREASE (-)	
					1933-1935	1929-1935
Number of establishments.....	824	645	781	951	27.8	-13.4
Proprietors and firm members.....	550	348	(1)	688	58.0	-20.1
Salaries personnel, total ¹	2,514	(²)	(1)	2,669	(³)	-5.8
Salaried officers of corporations.....	631	(³)	(1)	642	(³)	-1.7
Supervisory, technical, and clerical employees.....	⁴ 1,883	⁴ 1,850	(1)	2,027	1.8	-7.1
Salaries paid, total ²	\$5,107,002	(³)	(1)	\$7,013,752	(³)	-27.2
To salaried officers of corporations. To supervisory, technical, and clerical employees.....	\$2,261,317	(³)	(1)	\$2,882,101	(³)	-21.5
⁴ \$2,845,685	⁴ \$2,845,685	⁴ \$2,751,588	(1)	\$4,131,651	3.4	-31.1
Wage earners (average for year) ⁶	15,404	13,280	13,622	17,187	16.0	-10.4
Wages.....	\$14,667,985	\$10,604,395	\$14,702,335	\$22,583,835	37.2	-35.1
Cost of materials, etc., total.....	48,926,088	32,491,011	37,609,418	61,527,026	50.6	-20.5
Cost of materials and supplies.....	48,052,603	(1)	(1)	60,357,115	(1)	-20.4
Cost of fuel.....	309,433	(1)	(1)	491,042	(1)	-37.0
Cost of purchased electric energy.....	564,052	(1)	(1)	678,869	(1)	-16.9
Value of products.....	\$4,811,275	59,724,019	77,508,242	123,279,717	42.0	-31.2
Value added by manufacture ⁷	35,885,187	27,233,008	39,998,824	61,752,691	31.8	-41.9

¹ No data.

² No data for employees of central administrative offices are included in the figures for any year. See sec. 10, p. 7.

³ Data incomplete.

⁴ Supervisory, technical, and clerical employees reported separately for 1935 only, as follows: Supervisory, 563; salaries, \$1,316,451. Technical, 35; salaries, \$56,655. Clerical, 1,280; salaries, \$1,472,579. See sec. 10, p. 7.

⁵ Supervisory, 528; salaries, \$1,190,252. Clerical and other, 1,322; salaries, \$1,561,336. See sec. 10, p. 7.

⁶ See sec. 11, p. 7.

⁷ Value of products less cost of materials, fuel, and purchased electric energy. See sec. 18, p. 11.

The total production of new mattresses, whether made as primary products or as secondary products, by all establishments whose total output of new products of any kind during the census year was valued at \$5,000 or more, is, however, given in tables 4 and 5. This total may be accepted as practically complete, since the output of new mattresses by establishments whose production was valued at less than \$5,000 is relatively insignificant.

TABLE 2.—SUMMARY, BY STATES: 1935

[See secs. 11 and 23, pp. 7 and 12. See also footnotes 2 and 7, table 1]

	Number of establishments	Sal- aried officers and em- ployees	Wage earners (aver- age for the year)	Salaries	Wages	Cost of materials, fuel, and purchased energy	Value of products	Value added by manufac- ture
United States..	824	2, 514	15, 404	\$5, 107, 002	\$14, 667, 935	\$48, 926, 088	\$84, 811, 275	\$35, 885, 187
Alabama.....	9	26	107	42, 953	83, 505	281, 869	503, 107	221, 238
Arizona.....	3	4	19	4, 420	17, 103	72, 868	119, 391	46, 523
Arkansas.....	4	8	50	24, 970	39, 130	192, 527	325, 522	132, 995
California.....	48	161	1, 316	353, 622	1, 353, 240	4, 192, 691	7, 454, 302	3, 261, 701
Colorado.....	6	13	108	26, 993	115, 617	310, 273	590, 275	280, 002
Connecticut.....	19	49	295	96, 365	289, 613	732, 395	1, 446, 383	713, 988
District of Columbia..	5	6	62	9, 898	62, 384	191, 072	328, 511	137, 439
Florida.....	18	31	152	40, 722	125, 550	383, 977	707, 342	323, 365
Georgia.....	12	93	810	228, 723	623, 290	1, 936, 676	3, 699, 723	1, 763, 047
Illinois.....	46	196	1, 628	434, 008	1, 415, 217	5, 032, 984	8, 341, 802	3, 308, 908
Indiana.....	15	54	408	140, 132	350, 658	1, 140, 643	1, 971, 307	830, 664
Iowa.....	5	14	72	21, 582	62, 255	252, 552	401, 299	148, 687
Kansas.....	7	14	66	17, 288	54, 424	181, 789	276, 391	114, 602
Kentucky.....	8	27	174	48, 486	135, 555	422, 465	865, 531	443, 066
Louisiana.....	9	21	100	27, 947	70, 360	316, 376	516, 933	200, 557
Maryland.....	11	43	328	106, 727	293, 957	875, 630	1, 564, 436	688, 797
Massachusetts.....	58	158	650	294, 500	631, 803	2, 241, 395	3, 869, 111	1, 627, 716
Michigan.....	21	60	308	120, 868	292, 369	1, 109, 238	1, 809, 174	699, 936
Minnesota.....	7	70	392	167, 171	385, 328	1, 631, 553	2, 466, 692	935, 139
Mississippi.....	4	5	29	7, 800	10, 130	66, 592	123, 250	56, 668
Missouri.....	25	58	467	114, 235	428, 406	1, 411, 394	2, 448, 517	1, 037, 123
Nebraska.....	5	6	43	6, 760	39, 851	160, 672	263, 766	94, 094
New York.....	197	371	1, 961	768, 545	1, 990, 137	6, 809, 631	11, 645, 532	4, 835, 901
North Carolina.....	18	42	247	67, 770	165, 736	715, 134	1, 205, 727	490, 593
Ohio.....	33	108	622	247, 564	601, 878	2, 088, 210	3, 668, 151	1, 570, 941
Oklahoma.....	12	8	92	10, 297	80, 769	235, 556	462, 392	226, 836
Oregon.....	6	9	48	20, 881	53, 739	255, 776	373, 730	117, 954
Pennsylvania.....	53	166	929	326, 893	913, 588	3, 085, 936	5, 147, 511	2, 111, 575
Rhode Island.....	7	23	94	66, 458	93, 484	285, 088	552, 604	257, 516
South Carolina.....	8	7	56	7, 160	33, 342	171, 496	270, 367	98, 871
Tennessee.....	13	62	458	145, 206	321, 682	1, 256, 475	2, 084, 549	825, 074
Texas.....	40	59	492	98, 376	362, 728	1, 730, 847	2, 615, 615	875, 768
Utah.....	5	7	60	9, 984	48, 377	200, 179	329, 294	129, 115
Virginia.....	11	32	134	66, 068	85, 710	336, 639	690, 295	262, 757
Washington.....	11	13	99	23, 772	95, 252	345, 153	593, 508	248, 355
Other States ¹	65	490	2, 528	905, 764	2, 904, 788	8, 411, 428	15, 170, 114	6, 758, 686

¹ Delaware, 2 establishments; Idaho, 1; Maine, 2; New Hampshire, 2; New Jersey, 35; New Mexico, 1; North Dakota, 1; Vermont, 1; West Virginia, 4; Wisconsin, 15; Wyoming, 1.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1935 AND 1933, AND FOR STATES, 1935
 [See secs. 11 and 23, pp. 7 and 12]

	NUMBER REPORTED FOR—											
	January	February	March	April	May	June	July	August	September	October	November	December
<i>United States</i>	13,976 (*)	14,843 (*)	15,340 10,819	15,765 (*)	15,771 (*)	15,784 14,013	15,265 (*)	15,917 (*)	16,184 16,747	15,689 (*)	15,608 (*)	14,940 12,029
<i>States, 1935</i>												
Alabama.....	107	108	102	101	99	103	101	101	118	115	116	111
Arizona.....	19	13	19	18	14	13	16	18	19	23	23	25
Arkansas.....	50	46	47	30	49	48	51	53	52	52	55	52
California.....	1,316	1,262	1,266	1,266	1,307	1,320	1,266	1,476	1,110	1,161	1,592	1,565
Colorado.....	109	99	112	128	111	112	108	104	109	110	103	100
Connecticut.....	295	297	272	281	290	290	289	306	322	329	328	318
District of Columbia.....	63	55	58	62	67	68	61	63	68	71	62	60
Florida.....	158	162	133	120	124	129	134	139	158	182	218	224
Georgia.....	166	184	182	179	190	190	196	189	184	182	185	182
Illinois.....	810	814	809	790	790	790	796	859	846	819	845	800
Indiana.....	1,623	1,608	1,761	1,857	1,840	1,819	1,684	1,673	1,759	1,454	1,304	1,167
Iowa.....	418	383	414	436	438	448	410	432	454	432	413	398
Kansas.....	72	65	71	71	76	74	73	75	76	75	73	70
Kentucky.....	66	66	66	66	66	67	66	68	68	68	64	63
Louisiana.....	174	159	186	182	175	148	171	164	173	197	187	165
Maine.....	101	94	93	96	92	98	97	106	111	111	108	106
Maryland.....	328	308	317	320	350	334	329	324	337	347	333	326
Massachusetts.....	649	626	643	657	671	669	669	680	722	639	611	611
Michigan.....	308	249	311	327	321	330	312	304	317	314	306	300
Minnesota.....	392	353	372	374	383	413	423	423	432	411	385	368
Mississippi.....	29	29	30	30	24	30	29	29	30	30	29	29
Missouri.....	457	441	451	470	479	462	458	468	508	497	466	462
Nebraska.....	43	39	42	46	46	44	45	45	45	44	44	40
New Jersey.....	1,068	995	981	962	981	1,019	1,019	1,080	1,152	1,051	1,020	991
New York.....	1,966	1,819	1,822	1,978	2,011	2,111	1,957	2,046	2,113	2,110	2,020	1,984
North Carolina.....	247	237	232	243	242	243	243	254	259	254	254	251
Ohio.....	622	584	643	658	674	652	608	613	640	620	605	596
Oklahoma.....	92	83	97	97	96	96	99	89	90	90	84	86
Oregon.....	43	42	45	45	44	43	45	45	52	57	59	57
Pennsylvania.....	980	869	935	999	957	938	921	924	934	964	937	916
Rhode Island.....	94	87	89	89	92	94	92	95	95	102	101	99

South Carolina.....	57	62	68	61	63	47	52	51	48	45
Tennessee.....	468	436	440	434	430	424	462	502	435	461
Texas.....	492	316	418	522	626	385	481	495	484	360
Utah.....	60	56	59	58	60	57	56	62	65	67
Virginia.....	134	121	129	137	137	134	138	141	137	133
Washington.....	99	81	86	89	88	93	105	114	125	115
West Virginia.....	44	42	41	45	45	43	45	50	48	35
Wisconsin.....	1,379	1,275	1,432	1,314	1,344	1,371	1,450	1,441	1,370	1,376

*Data incomplete. See last sentence, second paragraph, sec. 11, p. 7.
 1. As the 1935 averages given in this table are derived from the figures for the 12 months in the calendar year, they differ somewhat from the corresponding averages in table 2, which are derived in part from figures for months in fiscal years differing from the calendar year. See sec. 11, p. 7.

TABLE 4.—PRODUCTS, BY KIND AND VALUE: 1935, 1931, AND 1929

[No comparable detailed statistics available for 1933]

KIND	1935	1931	1929
1. Mattresses and Bed Springs industry, all products, total value.....	\$84,811,275	\$77,508,242	\$123,270,717
2. Mattresses, bed springs, etc., made in the industry....	65,110,415	63,455,461	99,120,331
3. Other products (not normally belonging to the industry).....	18,775,710	13,135,062	22,490,947
4. Receipts for contract, custom, and repair work.....	925,150	917,719	1,653,430
5. Mattresses, bed springs, etc., made as secondary products in other industries.....	6,549,069	5,722,099	9,807,460
Mattresses, bed springs, etc., aggregate value (sum of 2 and 5).....	71,659,484	69,177,560	108,936,791
Mattresses, total.....	49,716,965	148,763,974	175,167,544
Inner-spring construction.....	32,118,076	25,325,172	33,905,070
Other than inner-spring construction.....	15,455,012	123,438,802	137,770,306
Kind not specified.....	2,143,877		3,510,168
Pads.....	483,414	(1)	(1)
Bed springs, total.....	17,857,761	18,738,827	31,680,705
Box.....	3,797,029	4,241,477	6,280,908
Coil.....	11,375,285	11,713,238	25,399,867
Fabric.....	1,445,085	2,784,112	
Kind not specified.....	1,240,362		
Spring cushions.....	994,502	826,214	1,332,008
Products not reported by kind.....	2,606,842	848,545	725,574

1 Data for pads included in figures for mattresses.

TABLE 5.—PRODUCTS, BY KIND, NUMBER, AND VALUE: 1935

Aggregate value.....	\$71,659,484	Bed springs—Continued	
Mattresses:		Coil, total value.....	\$11,375,285
Inner-spring construction, total value.....	\$32,118,076	Number reported:	
Number reported:		Number.....	1,217,506
Number.....	2,127,887	Value.....	\$5,916,190
Value.....	\$23,483,563	Number not reported, value.....	\$5,459,065
Number not reported, value.....	\$8,634,513	Fabric, total value.....	\$1,445,085
Other than inner-spring construction, total value.....	\$15,455,012	Number reported:	
Number reported:		Number.....	223,423
Number.....	1,982,881	Value.....	\$725,173
Value.....	\$10,719,939	Number not reported, value.....	\$719,912
Number not reported, value.....	\$4,735,073	Kind not specified, value.....	\$1,240,362
Kind not specified, value.....	\$2,143,877	Spring cushions, value.....	\$994,502
Pads, value.....	\$483,414	Products not reported by kind, value...	\$2,606,842
Bed springs:			
Box, total value.....	\$3,797,029		
Number reported:			
Number.....	192,595		
Value.....	\$1,995,839		
Number not reported, value.....	\$1,801,190		