

Group 17.—MACHINERY (EXCEPT ELECTRICAL)

The group as a whole.—This group comprises those industries whose primary products are machinery (not including electrical machinery) and special parts for use in the manufacture of machinery.

Data for establishments manufacturing aircraft engines formerly in this group have been transferred to the "Aircraft and parts, including aircraft engines" industry in Group 19, Transportation Equipment Except Automobiles. "Cold-rolled steel sheets and strip and cold-finished steel bars made in plants not operated in connection with hot-rolling mills," a new separate industry for 1939, formerly a part of the "Machine shop products" industry in this group has

been transferred to Group 14, "Iron and Steel and Their Products, Except Machinery." Data for some commercial and industrial instruments, formerly a part of the industry "Instruments and apparatus, professional, scientific, commercial, and industrial" in the former Group 16, "Miscellaneous Industries," have been included in this group as a part of the industry "Measuring instruments, mechanical (except electrical measuring instruments, watches, and clocks)."

For further explanations of changes in classifications and titles of some of the industries in this group see the text for each of the industries of the group, and the lists on p. 14.

SUMMARY FOR GROUP 17.—MACHINERY (EXCEPT ELECTRICAL): 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	9,506	522,980	\$748,288,262	\$1,285,211,133	\$3,254,173,950	\$1,968,962,817	434,109
1937.....	8,368	643,522	955,996,297	1,571,362,357	3,902,966,522	2,331,604,165	(⁵)
SUMMARY FOR SUBGROUPS AND FOR INDIVIDUAL INDUSTRIES							
SUBGROUPS, INDUSTRIES, AND CENSUS YEAR							
ENGINES AND TURBINES:							
1939.....	92	18,654	\$27,852,395	\$63,007,276	\$135,109,430	\$72,102,154	59,970
1937.....	114	25,325	39,045,896	66,687,874	146,601,895	79,914,021	(⁵)
Steam engines, turbines, and water wheels—							
1939.....	18	3,902	6,349,143	9,551,498	24,751,466	15,199,968	9,365
1937.....	22	4,102	7,614,310	7,011,880	22,424,777	15,412,897	(⁵)
Internal-combustion engines—							
1939.....	74	14,752	21,503,252	53,455,778	110,357,964	56,902,186	50,605
1937.....	92	21,223	31,431,586	59,675,994	124,177,118	64,501,124	(⁵)
AGRICULTURAL MACHINERY AND TRACTORS:							
1939.....	347	59,081	85,074,382	214,896,443	421,846,727	206,950,284	74,573
1937.....	298	80,238	124,967,763	293,136,534	578,340,881	285,204,347	(⁵)
Tractors—							
1939.....	30	31,275	49,845,575	135,626,339	253,951,435	118,325,096	28,745
1937.....	28	42,465	69,216,369	185,124,548	353,296,846	168,172,298	(⁵)
Agricultural machinery (except tractors)—							
1939.....	317	27,806	35,228,807	79,270,104	167,895,292	88,625,188	45,828
1937.....	270	37,773	55,751,394	108,011,986	225,044,035	117,032,049	(⁵)
CONSTRUCTION, MINING, AND RELATED MACHINERY:							
1939.....	487	34,723	50,216,206	110,054,686	262,673,822	152,619,136	34,630
1937.....	402	41,545	62,654,969	129,220,366	308,670,255	179,449,889	(⁵)
Construction and similar machinery (except mining and oil-field machinery and tools)—							
1939.....	199	17,259	25,198,311	63,376,072	140,137,586	76,761,514	16,782
1937.....	177	20,045	29,779,366	67,964,661	147,901,544	79,936,883	(⁵)
Oil-field machinery and tools—							
1939.....	223	12,524	18,740,996	31,304,546	88,977,327	57,672,781	10,921
1937.....	179	16,347	25,248,455	48,644,223	126,666,047	78,021,824	(⁵)
Mining machinery and equipment—							
1939.....	65	4,940	6,276,899	15,374,068	33,558,909	18,184,841	6,927
1937.....	46	5,153	7,627,148	12,611,482	34,102,664	21,491,182	(⁵)
METALWORKING MACHINERY:							
1939.....	1,332	77,684	128,768,808	130,026,262	442,650,306	312,624,054	35,089
1937.....	1,163	90,192	152,281,196	151,248,153	489,686,850	338,438,697	(⁵)
Machine tools—							
1939.....	200	36,624	62,333,150	63,866,133	218,044,728	154,178,595	20,030
1937.....	205	37,477	62,609,680	59,515,139	202,738,561	143,223,422	(⁵)
Machine-tool and other metalworking-machinery accessories, metal-cutting and shaping tools, and machinists' precision tools—							
1939.....	954	25,161	41,346,606	31,410,211	125,630,124	94,219,913	3,685
1937.....	806	32,893	55,956,935	46,002,316	162,002,009	116,999,693	(⁵)
Metalworking machinery and equipment, not elsewhere classified—							
1939.....	178	15,899	25,089,052	34,749,908	98,975,454	64,225,546	11,374
1937.....	152	19,822	33,714,681	45,730,698	124,946,280	79,215,582	(⁵)

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

SUMMARY FOR GROUP 17.—MACHINERY (EXCEPT ELECTRICAL): 1939 AND 1937—Continued

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
SUBGROUPS, INDUSTRIES, AND CENSUS YEAR—continued							
SPECIAL INDUSTRY MACHINERY:							
1939.....	1,346	64,678	88,790,938	121,456,339	349,507,607	228,051,268	54,251
1937.....	1,256	79,481	114,685,363	144,168,741	422,573,267	278,404,526	(⁴)
Food-products machinery—							
1939.....	379	13,979	18,936,642	31,949,526	90,840,544	58,891,018	13,531
1937.....	323	18,475	26,578,936	39,301,147	114,082,332	74,781,185	(⁴)
Textile machinery—							
1939.....	300	21,904	27,614,519	33,598,333	93,276,326	59,677,993	12,469
1937.....	356	25,340	33,139,469	35,546,266	107,428,810	71,882,544	(⁴)
Woodworking machinery—							
1939.....	130	3,622	4,656,946	8,291,723	21,604,106	13,312,383	3,743
1937.....	106	3,678	4,856,128	8,374,601	20,311,375	11,936,774	(⁴)
Paper-mill, pulp-mill, and paper-products machinery—							
1939.....	99	5,409	7,775,242	12,727,445	32,419,924	19,692,479	4,112
1937.....	91	6,813	10,861,258	19,015,419	43,406,178	24,390,759	(⁴)
Printing-trades machinery and equipment—							
1939.....	231	9,376	14,646,956	15,052,964	55,581,691	40,528,727	4,135
1937.....	230	13,716	22,377,662	20,965,903	78,628,255	57,662,352	(⁴)
Special industry machinery, not elsewhere classified—							
1939.....	207	10,388	15,160,633	19,836,348	55,785,016	35,948,668	16,261
1937.....	150	11,459	16,871,910	20,965,405	58,716,317	37,750,912	(⁴)
GENERAL INDUSTRIAL MACHINERY:							
1939.....	5,200	172,104	237,363,241	396,705,910	1,062,930,703	666,224,793	114,891
1937.....	4,498	202,400	289,167,952	478,221,579	1,238,619,968	760,398,389	(⁴)
Measuring and dispensing pumps—							
1939.....	38	5,054	6,750,717	19,019,628	44,286,332	25,266,704	1,700
1937.....	35	6,552	8,862,460	24,311,767	54,675,265	30,363,498	(⁴)
Pumping equipment and air compressors—							
1939.....	337	19,180	26,208,019	54,203,943	134,940,777	80,736,834	33,353
1937.....	310	21,668	30,910,080	60,748,965	144,046,061	83,297,096	(⁴)
Elevators, escalators, and conveyors—							
1939.....	183	8,915	13,357,937	25,057,146	64,128,051	39,070,905	5,790
1937.....	168	9,497	14,687,705	26,121,523	69,292,804	43,171,281	(⁴)
Cars and trucks, industrial—							
1939.....	55	2,732	3,149,298	7,800,921	17,319,579	9,518,658	1,543
1937.....	52	3,819	4,963,524	10,257,773	25,687,974	15,430,201	(⁴)
Blowers; exhaust and ventilating fans—							
1939.....	77	3,885	5,371,111	11,767,721	28,606,349	16,838,628	1,779
1937.....	42	3,997	5,845,251	12,730,768	30,264,909	17,534,141	(⁴)
Measuring instruments, mechanical (except electrical measuring instruments, watches, and clocks)—							
1939.....	68	6,692	8,873,656	13,177,382	39,684,434	26,507,052	1,094
1937.....	67	7,460	9,852,435	14,897,232	42,077,364	27,180,132	(⁴)
Mechanical power-transmission equipment—							
1939.....	218	30,268	43,751,830	50,366,749	170,291,472	119,924,723	14,893
1937.....	163	33,029	48,497,933	56,524,366	181,278,250	124,753,884	(⁴)
Stokers, mechanical, domestic and industrial—							
1939.....	61	3,549	4,789,265	9,857,338	24,545,164	14,687,826	3,608
1937.....	50	3,529	5,091,936	9,879,241	25,576,640	15,097,399	(⁴)
Machine-shop products, not elsewhere classified—							
1939.....	2,125	60,717	81,659,539	141,492,964	360,334,229	218,841,265	30,817
1937.....	1,626	65,370	91,910,561	153,964,606	382,254,724	228,290,118	(⁴)
Industrial machinery, not elsewhere classified—							
1939.....	579	21,936	31,178,421	52,964,472	140,628,049	87,663,577	13,395
1937.....	857	38,967	56,794,854	96,885,198	247,221,802	150,336,604	(⁴)
Machine-shop repairs—							
1939.....	1,459	9,176	12,273,448	10,997,646	38,166,267	27,168,621	6,919
1937.....	1,128	8,412	11,751,213	11,900,140	36,244,175	24,344,035	(⁴)
OFFICE AND STORE MACHINES:							
1939.....	230	42,885	57,919,914	44,804,973	187,663,187	142,858,214	28,870
1937.....	219	52,385	72,321,851	52,364,679	226,050,518	173,685,839	(⁴)
Office and store machines not elsewhere classified—							
1939.....	123	36,204	49,981,728	29,142,772	150,170,237	121,027,465	28,136
1937.....	115	44,776	63,019,746	33,548,159	180,826,510	147,278,351	(⁴)
Vending, amusement, and other coin-operated machines—							
1939.....	51	3,842	4,631,710	10,674,687	23,142,882	12,468,195	90
1937.....	47	4,310	5,186,695	12,958,541	27,367,616	14,409,075	(⁴)
Scales and balances—							
1939.....	56	2,839	3,306,476	4,987,514	14,350,068	9,362,554	644
1937.....	57	3,299	4,115,410	5,857,979	17,856,392	11,998,413	(⁴)
HOUSEHOLD AND SERVICE-INDUSTRY MACHINES:							
1939.....	472	53,171	72,302,378	204,259,254	391,792,168	187,532,914	31,835
1937.....	418	71,956	100,871,307	256,314,431	492,422,888	236,108,457	(⁴)
Laundry equipment, domestic—							
1939.....	42	7,466	9,277,024	36,865,346	61,601,221	25,235,875	3,283
1937.....	40	9,302	11,675,335	41,208,416	69,888,850	28,680,434	(⁴)
Commercial laundry, dry-cleaning, and pressing machinery—							
1939.....	82	2,705	3,476,555	8,821,037	21,838,863	13,017,826	5,046
1937.....	62	3,012	4,274,331	10,873,824	23,909,774	13,035,950	(⁴)
Sewing machines, domestic and industrial—							
1939.....	39	7,840	11,156,855	8,610,209	29,708,544	21,096,335	12,141
1937.....	36	9,019	13,550,890	9,002,951	34,835,852	25,832,901	(⁴)
Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment and complete air-conditioning units—							
1939.....	309	35,160	48,391,944	150,462,662	278,645,540	128,182,878	11,365
1937.....	280	50,623	71,370,751	195,229,240	363,788,412	168,559,172	(⁴)

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Wage earners and wages.³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁴ Comparable data not available for years prior to 1937 due to changes in the scope of the industry classifications.⁵ Not called for on schedule.

MACHINERY (EXCEPT ELECTRICAL)

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GENERAL STATISTICS IN DETAIL FOR THE GROUP, THE SUBGROUPS, AND FOR THE INDUSTRIES¹: 1939

ITEM	Aggregate for the group	ENGINES AND TURBINES			AGRICULTURAL MACHINERY AND TRACTORS			CONSTRUCTION, MINING, AND RELATED MA- CHINERY			
		Total	1711	1712	Total	1721	1729	Total	1731	1732	1733
Number of establishments ¹	9,506	92	18	74	347	30	317	487	199	223	65
Proprietors and firm members.....	4,911	13	-----	13	136	4	132	163	53	93	17
Persons reported by manu- facturing industries, total ²	680,297	25,493	5,531	19,962	74,160	39,262	34,898	46,932	23,216	16,815	6,901
Salaried officers of corpora- tions ³	11,287	204	44	160	458	48	410	705	350	241	114
Manufacturing:											
Salaried employees ³	95,376	4,779	1,250	3,529	11,397	6,221	5,176	7,186	3,796	2,297	1,093
Wage earners (average for the year) ⁴	522,980	18,654	3,902	14,752	59,081	31,275	27,806	34,723	17,259	12,524	4,940
Distribution.....	44,140	1,694	312	1,382	2,880	1,535	1,345	3,757	1,504	1,545	708
Construction.....	3,340	127	22	105	249	167	82	384	204	160	20
Other.....	3,174	35	1	34	95	16	79	177	103	48	26
Salaries and wages, total ⁵	\$1,109,857,923	\$43,845,564	\$10,523,909	\$33,321,655	\$113,612,805	\$64,803,114	\$48,809,691	\$78,055,121	\$38,470,010	\$28,940,301	\$10,644,810
Salaried officers ⁵	71,947,140	1,666,688	340,739	1,325,949	2,129,154	250,623	1,878,531	4,984,941	2,443,958	1,802,143	738,840
Manufacturing:											
Salaries ⁵	186,329,250	10,313,400	2,776,193	7,537,207	20,103,975	10,936,609	9,167,366	14,020,671	6,990,308	4,841,908	2,188,455
Wages.....	748,288,262	27,852,395	6,349,143	21,508,252	85,074,382	49,845,575	35,228,807	50,210,206	25,198,311	18,740,996	6,276,899
Distribution.....	93,568,714	3,773,315	1,051,352	2,721,963	5,767,054	3,463,214	2,303,840	8,155,045	3,457,109	3,306,870	1,391,066
Construction.....	5,244,288	131,977	6,118	125,859	455,237	291,208	164,029	470,201	267,711	193,583	8,907
Other.....	4,480,26	107,789	364	107,425	83,003	15,885	67,118	208,057	112,613	54,801	40,643
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	1,285,211,133	63,007,276	9,551,498	53,455,778	214,896,443	135,626,339	79,270,104	110,054,686	63,376,072	31,304,546	15,374,068
Materials, supplies, and containers.....	1,224,978,946	60,666,273	9,133,733	51,532,540	207,078,621	130,846,734	76,231,887	104,843,218	60,429,972	29,646,801	14,766,445
Fuel.....	22,811,514	1,391,125	289,725	1,101,400	4,069,622	2,195,197	1,874,425	1,839,626	990,082	551,342	298,202
Purchased electric energy.....	24,854,389	449,640	125,638	324,002	2,248,033	1,372,923	875,110	2,255,517	1,017,171	978,956	259,390
Contract work.....	12,566,284	500,238	2,402	497,886	1,500,167	1,211,485	288,682	1,116,325	938,847	127,447	50,031
Value of products.....	3,254,173,950	135,109,430	24,751,466	110,357,964	421,846,727	253,951,435	167,895,292	262,673,822	140,137,586	88,977,327	33,558,909
Value added by manufacture ⁶	1,968,962,817	72,102,154	15,199,968	66,902,186	206,950,284	118,325,096	88,625,188	152,619,136	76,761,514	57,672,781	18,184,841

ITEM	METALWORKING MACHINERY				SPECIAL INDUSTRY MACHINERY						
	Total	1741	1742	1749	Total	1751	1752	1753	1754	1755	1759
Number of establishments ²	1,332	200	954	178	1,346	379	300	130	99	231	207
Proprietors and firm members.....	663	19	609	35	496	139	125	32	28	93	79
Persons reported by manufacturing industries, total ³	100,226	47,675	31,542	21,009	86,432	20,007	27,259	5,121	7,258	13,139	13,648
Salaried officers of corporations ³	1,820	495	1,023	302	1,949	546	411	222	192	261	317
Manufacturing:											
Salaried employees ³	14,693	7,725	3,234	3,734	11,755	2,954	2,806	693	1,206	2,002	2,094
Wage earners (average for the year) ⁴	77,684	36,624	25,161	15,899	64,678	13,979	21,904	3,622	5,409	9,376	10,388
Distribution.....	4,786	2,050	1,746	990	7,163	2,419	1,602	553	411	1,376	802
Construction.....	464	320	117	27	453	31	361	3	26	20	12
Other.....	779	461	261	57	434	78	175	28	14	104	35
Salaries and wages, total ⁵	\$186,823,717	\$90,776,404	\$58,679,346	\$37,367,967	\$139,766,118	\$32,497,864	\$39,586,846	\$8,004,578	\$12,990,332	\$23,480,578	\$23,205,920
Salaried officers ⁵	13,709,542	5,099,246	6,180,926	2,429,370	12,411,838	3,158,913	2,717,426	1,041,899	1,605,548	1,816,454	2,071,598
Manufacturing:											
Salaries ⁵	30,997,026	16,546,460	6,808,217	7,642,349	22,721,385	5,714,673	4,967,188	1,238,622	2,437,694	4,178,695	4,184,513
Wages.....	128,768,808	62,333,150	41,346,606	25,089,052	88,790,938	18,936,042	27,614,519	4,656,946	7,775,242	14,640,956	15,160,633
Distribution.....	11,539,884	5,603,332	3,820,100	2,116,452	14,684,574	4,548,476	3,512,179	1,032,828	1,105,540	2,679,758	1,705,793
Construction.....	740,525	519,257	188,495	32,773	659,039	33,503	509,372	2,505	51,736	39,780	22,143
Other.....	1,067,932	674,959	335,002	57,971	598,344	105,657	266,162	31,778	14,572	118,935	61,240
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	130,026,252	63,866,133	31,410,211	34,749,908	121,456,339	31,949,526	33,598,333	8,291,723	12,727,445	15,052,964	19,836,348
Materials, supplies, and containers.....	121,021,083	59,940,248	28,159,768	32,921,087	115,114,788	30,363,802	32,005,000	7,768,782	12,141,188	14,169,692	18,666,324
Fuel.....	2,375,607	1,109,910	637,315	628,282	2,356,694	493,483	772,922	131,814	250,505	319,643	388,827
Purchased electric energy.....	3,809,425	1,507,801	1,511,472	790,152	2,677,478	592,165	747,471	180,732	254,034	429,579	473,507
Contract work.....	2,820,237	1,308,174	1,101,656	410,407	1,307,379	500,076	72,940	210,905	81,718	134,050	307,690
Value of products.....	442,650,306	218,044,728	125,630,124	98,975,454	349,507,607	90,840,544	93,276,326	21,604,106	32,419,924	55,581,691	55,785,016
Value added by manufacture ⁶	312,624,054	154,178,595	84,219,913	64,225,546	228,051,268	58,891,018	59,677,993	13,312,383	19,692,479	40,528,727	35,948,668

See footnotes at end of table.

GENERAL STATISTICS IN DETAIL FOR THE GROUP, THE SUBGROUPS, AND FOR THE INDUSTRIES¹: 1939—Con.

ITEM	GENERAL INDUSTRIAL MACHINERY					
	Total	1760	1761	1762	1763	1764
Number of establishments ²	5,200	38	337	183	55	77
Proprietors and firm members.....	3,173	7	113	50	17	29
Persons reported by manufacturing industries, total ³	228,377	7,395	27,187	13,103	3,770	5,446
Salaried officers of corporations ³	5,179	66	491	339	92	93
Manufacturing:						
Salaried employees ³	31,331	1,050	4,374	2,051	517	641
Wage earners (average for the year) ⁴	172,104	5,054	19,180	8,915	2,732	3,885
Distribution.....	17,500	1,124	2,831	1,600	419	724
Construction.....	945	50	130	107	2	21
Other.....	1,318	51	181	91	8	82
Salaries and wages, total ⁵	\$366,910,781	\$11,952,529	\$43,266,655	\$22,604,696	\$5,330,131	\$9,063,141
Salaried officers ³	29,784,655	555,519	2,870,775	1,711,798	436,966	636,659
Manufacturing:						
Salaries ³	59,433,984	1,984,468	8,290,311	3,836,475	893,966	1,144,611
Wages.....	237,363,241	6,750,717	26,208,019	13,357,937	3,149,298	5,371,111
Distribution.....	36,816,338	2,490,720	5,437,053	3,308,947	833,534	1,743,697
Construction.....	1,547,974	106,961	210,267	263,868	2,600	25,105
Other.....	1,964,589	64,144	250,230	125,671	13,767	141,958
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	396,705,910	19,019,628	54,203,943	25,057,146	7,800,921	11,767,721
Materials, supplies, and containers.....	374,422,618	18,124,210	52,022,568	23,756,670	7,489,224	11,280,704
Fuel.....	7,804,205	177,558	1,022,824	315,201	108,250	174,092
Purchased electric energy.....	9,863,660	218,232	771,462	447,768	147,906	115,197
Contract work.....	4,615,427	499,628	387,089	537,507	55,541	197,728
Value of products.....	1,062,930,703	44,286,332	134,940,777	64,128,051	17,319,579	28,606,349
Value added by manufacture ⁶	666,224,793	25,266,704	80,736,834	39,070,905	9,518,658	16,838,623

ITEM	GENERAL INDUSTRIAL MACHINERY—continued					
	1765	1766	1767	1768	1769	1770
Number of establishments ²	68	218	61	2,125	579	1,459
Proprietors and firm members.....	16	60	15	1,216	195	1,455
Persons reported by manufacturing industries, total ³	8,556	37,363	4,927	79,399	30,303	10,928
Salaried officers of corporations ³	95	380	89	2,162	860	512
Manufacturing:						
Salaried employees ³	1,229	4,352	659	10,494	5,002	962
Wage earners (average for the year) ⁴	6,692	30,268	3,549	60,717	21,936	9,176
Distribution.....	497	2,124	591	5,141	2,211	238
Construction.....	15	94	29	337	157	3
Other.....	28	145	10	548	137	37
Salaries and wages, total ⁵	\$13,102,996	\$61,199,554	\$7,576,509	\$125,651,864	\$51,594,364	\$15,568,342
Salaried officers ³	698,648	3,482,635	515,631	12,202,643	5,262,471	1,410,910
Manufacturing:						
Salaries ³	2,410,520	9,012,492	1,174,325	19,404,075	9,813,972	1,468,769
Wages.....	8,873,656	43,751,830	4,789,265	81,659,539	31,178,421	12,273,448
Distribution.....	1,070,478	4,618,784	1,045,221	10,967,216	4,916,370	384,318
Construction.....	16,208	147,943	42,437	477,095	250,811	4,684
Other.....	33,491	185,870	9,630	941,296	172,319	26,213
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	13,177,382	50,366,749	9,857,338	141,492,964	52,964,472	10,997,646
Materials, supplies, and containers.....	12,716,768	46,819,844	9,435,503	132,786,360	49,918,956	10,071,811
Fuel.....	181,227	1,204,578	173,434	3,169,747	992,201	235,093
Purchased electric energy.....	227,362	1,958,853	190,759	3,847,661	1,358,719	579,741
Contract work.....	52,025	383,474	57,642	1,689,196	694,596	61,001
Value of products.....	39,684,434	170,291,472	24,545,164	360,334,229	140,628,049	38,166,267
Value added by manufacture ⁶	26,507,052	119,924,723	14,687,826	218,841,265	87,663,577	27,168,621

See footnotes at end of table.

MACHINERY (EXCEPT ELECTRICAL)

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

ITEM	OFFICE AND STORE MACHINES				HOUSEHOLD AND SERVICE-INDUSTRY MACHINES				
	Total	1771	1772	1776	Total	1781	1782	1783	1784
Number of establishments ²	230	123	51	56	472	42	82	39	309
Proprietors and firm members.....	57	26	15	16	210	6	37	11	156
Persons reported by manufacturing industries, total ³	52, 671	44, 144	4, 770	3, 757	66, 006	9, 610	3, 654	9, 568	43, 174
Salaried officers of corporations ⁴	350	197	71	82	622	89	89	56	388
Manufacturing:									
Salaried employees ⁴	6, 827	5, 811	493	523	7, 408	1, 095	588	1, 110	4, 615
Wage earners (average for the year) ⁴	42, 885	36, 204	3, 842	2, 839	53, 171	7, 466	2, 705	7, 840	35, 160
Distribution.....	2, 353	1, 693	354	306	4, 007	849	245	285	2, 627
Construction.....	181	167	8	6	537	59	4	273	201
Other.....	75	72	2	1	261	52	23	3	183
Salaries and wages, total ⁴	\$80, 504, 257	\$67, 676, 777	\$7, 261, 067	\$5, 566, 413	\$100, 339, 560	\$13, 890, 421	\$5, 779, 573	\$14, 895, 466	\$65, 774, 100
Salaried officers ⁴	3, 269, 934	1, 943, 881	856, 340	469, 713	3, 990, 388	622, 649	640, 821	400, 471	2, 326, 447
Manufacturing:									
Salaries ⁴	13, 849, 845	11, 830, 254	971, 530	1, 048, 061	14, 888, 964	1, 952, 851	1, 101, 910	2, 369, 156	9, 465, 047
Wages.....	57, 919, 914	49, 981, 728	4, 631, 710	3, 306, 476	72, 302, 378	9, 277, 024	3, 476, 555	11, 156, 855	48, 391, 944
Distribution.....	5, 018, 024	3, 497, 468	786, 209	734, 347	7, 914, 480	1, 873, 806	530, 749	484, 321	5, 025, 604
Construction.....	350, 211	329, 512	13, 767	6, 932	889, 124	102, 919	4, 385	481, 751	300, 069
Other.....	96, 329	93, 934	1, 511	884	354, 226	61, 172	25, 153	2, 912	264, 989
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	44, 804, 973	29, 142, 772	10, 674, 687	4, 987, 514	204, 259, 254	36, 365, 346	8, 821, 037	8, 610, 209	150, 462, 662
Materials, supplies, and containers.....	42, 866, 612	27, 736, 558	10, 453, 790	4, 676, 264	198, 965, 733	35, 706, 872	8, 528, 081	8, 090, 976	146, 639, 804
Fuel.....	802, 039	643, 936	47, 092	111, 011	2, 172, 696	281, 419	80, 315	295, 183	1, 515, 779
Purchased electric energy.....	822, 314	609, 234	100, 676	112, 404	2, 728, 322	371, 170	94, 894	218, 654	2, 043, 604
Contract work.....	314, 008	153, 044	73, 129	87, 835	392, 503	5, 885	117, 747	5, 396	263, 475
Value of products.....	187, 663, 187	150, 170, 237	23, 142, 882	14, 350, 068	391, 792, 168	61, 601, 221	21, 838, 863	29, 706, 544	278, 645, 540
Value added by manufacture ⁵	142, 858, 214	121, 027, 465	12, 468, 195	9, 362, 554	187, 532, 914	25, 235, 875	13, 017, 826	21, 096, 335	128, 182, 878

¹ The numbers at the head of each column represent the following industries:

- 1711. Steam engines, turbines, and water wheels.
- 1712. Internal-combustion engines, not including aircraft and motor-vehicle engines.
- 1721. Tractors.
- 1729. Agricultural machinery (except tractors).
- 1731. Construction and similar machinery (except mining and oil-field machinery and tools).
- 1732. Oil-field machinery and tools.
- 1733. Mining machinery and equipment.
- 1741. Machine tools.
- 1742. Machine-tool and other metalworking-machinery accessories, metal-cutting and shaping tools, and machinists' precision tools.
- 1749. Metalworking machinery and equipment, not elsewhere classified.
- 1751. Food-products machinery.
- 1752. Textile machinery.
- 1753. Woodworking machinery.
- 1754. Paper-mill, pulp-mill, and paper-products machinery.
- 1755. Printing-trades machinery and equipment.
- 1759. Special industry machinery, not elsewhere classified.
- 1760. Measuring and dispensing pumps.

- 1761. Pumping equipment and air compressors.
- 1762. Elevators, escalators, and conveyors.
- 1763. Cars and trucks, industrial.
- 1764. Blowers; exhaust and ventilating fans.
- 1765. Measuring instruments, mechanical (except electrical measuring instruments, watches, and clocks).
- 1766. Mechanical power-transmission equipment.
- 1767. Stokers, mechanical, domestic and industrial.
- 1768. Machine-shop products, not elsewhere classified.
- 1769. Industrial machinery, not elsewhere classified.
- 1770. Machine-shop repairs.
- 1771. Office and store machines not elsewhere classified.
- 1772. Vending, amusement, and other coin-operated machines.
- 1776. Scales and balances.
- 1781. Laundry equipment, domestic.
- 1782. Commercial laundry, dry-cleaning, and pressing machinery.
- 1783. Sewing machines, domestic and industrial.
- 1784. Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment and complete air-conditioning units.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy. See GENERAL EXPLANATIONS—Value added by manufacture.

STEAM ENGINES, TURBINES, AND WATER WHEELS

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

Description of the industry.—This industry, as constituted for census purposes, embraces establishments engaged primarily in the manufacture of steam engines, steam turbines, water wheels, and water turbines. It does not include the production of locomotives classified in the "Locomotives (including frames) and parts: railroad, mining, and industrial" industry; of turbo-generators, classified in the electrical "Generating, distribution, and industrial apparatus, and apparatus for incorporation in manufactured products, not elsewhere classified" industry; of steam engines made for installation as parts of blowers, pumps, etc.; or of steam engines made for installation in ships, etc., manufactured in the same plants.

At prior censuses establishments engaged primarily in the manufacture of steam engines, turbines, and water wheels were classified under the industry designation "Engines, turbines, water wheels, and windmills." The figures for 1937 in this report are the results of a retabulation for statistics comparable with those for 1939.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	18	3,902	\$6,349,143	\$9,551,498	\$24,751,466	\$15,199,968	9,365
1937 ⁴	22	4,102	7,614,310	7,011,880	22,424,777	15,412,897	(5)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No data available for prior years. ⁵ Not called for on schedule.

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

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

ITEM	United States	Pennsylvania	Other States ¹
Number of establishments ²	18	8	10
Proprietors and firm members.....			
Persons reported by manufacturing establishments, total ³	5,531	4,744	787
Salaried officers of corporations ⁴	44	21	23
Manufacturing:			
Salaried employees ⁵	1,250	1,111	139
Wage earners (average for the year) ⁶	3,902	3,348	554
Distribution.....	312	262	50
Construction.....	22	1	21
Other.....	1	1	

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

ITEM	United States	Pennsylvania	Other States ¹
Salaries and wages, total ²	\$10,523,909	\$9,205,653	\$1,318,256
Salaried officers ³	340,739	201,289	139,450
Manufacturing:			
Salaries ⁴	2,776,193	2,512,760	263,433
Wages.....	6,349,143	5,579,373	769,770
Distribution.....	1,051,352	910,699	140,653
Construction.....	6,118	1,168	4,950
Other.....	364	364	
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	9,551,498	7,986,960	1,564,538
Materials and supplies.....	9,133,733	7,623,549	1,510,184
Fuel.....	289,725	248,769	40,956
Purchased electric energy.....	125,638	112,522	13,116
Contract work.....	2,402	2,120	282
Value of products.....	24,751,466	21,330,677	3,420,789
Value added by manufacture ⁵	15,199,968	13,343,717	1,856,251

¹ California, 2 establishments; Illinois, 1; Iowa, 2; Massachusetts, 2; New York, 1; Ohio, 1; Texas, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

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

	1939	1937
Steam Engines, Turbines, and Water Wheels industry, all products, total value.....	\$24,751,466	\$22,424,777
Steam engines, turbines, water wheels, and parts made in this industry.....	16,882,585	17,085,881
Miscellaneous products not specified.....	74,256	
Receipts for contract and repair work.....	783,996	748,971
Other products (not classified in this industry).....	7,010,629	4,592,925
Steam engines, turbines, water wheels, and parts, aggregate value.....	25,663,889	23,052,105
Steam engines, turbines, water wheels, and parts made in this industry.....	16,882,585	17,085,881
Steam engines, turbines, water wheels, and parts made as secondary products in other industries—		
(a)—Made as secondary products within the Machinery (Except Electrical) group.....	3,928,918	6,866,224
(b)—Made as secondary products outside of the Machinery (Except Electrical) group.....	4,852,386	

¹ Chiefly value of internal-combustion engines, condensers, blowers, and fans.

STEAM ENGINES, TURBINES, AND WATER WHEELS

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

PRODUCT	1939				1937
	Produced in this industry	Produced in industries within the Machinery (Except Electrical) group	Produced in industries outside the Machinery (Except Electrical) group	Aggregate	
Steam engines, turbines, water wheels, and parts, aggregate value.....	\$16,882,585	\$3,928,918	\$4,852,386	\$25,663,889	\$23,952,105
Steam engines (reciprocating):					
Number.....	267	25	56	348	571
Horsepower.....	105,232	6,233	5,900	117,365	125,389
Value.....	\$905,900	\$156,588	\$92,063	\$1,154,551	\$1,738,286
Steam turbines (marine and other), total:					
Number.....	1,529	639	225	2,393	12,522
Horsepower.....	807,058	92,947	320,560	1,220,565	1,153,475
Value.....	\$10,067,083	\$1,779,775	\$3,592,650	\$15,439,508	\$16,214,463
Marine—					
Number.....	86	(2)	236	122	151
Horsepower.....	391,660	(2)	311,100	702,760	199,848
Value.....	\$4,803,871	(2)	\$3,565,210	\$3,369,081	\$3,353,790
Other than marine—					
Number.....	1,443	(2)	2828	2,271	2,471
Horsepower.....	415,398	(2)	2102,397	517,795	953,627
Value.....	\$5,263,212	(2)	\$1,807,215	\$7,070,427	\$12,860,673

PRODUCT	1939				1937
	Produced in this industry	Produced in industries within the Machinery (Except Electrical) group	Produced in industries outside the Machinery (Except Electrical) group	Aggregate	
Steam engines, turbines, water wheels, etc.—Con.					
Water wheels:					
Number.....	(3)	(3)			49
Horsepower.....	(2)	(2)			12,558
Value.....	(2)	(2)			\$130,067
Water turbines:					
Number.....	(3)	(3)			112
Horsepower.....	(2)	(2)			836,663
Value.....	(2)	(2)			\$5,885,436
Steam engines and turbines not reported by number or horsepower.		(2)	2	\$145,610	\$145,610
Parts and attachments:					
For steam engines and turbines.....	\$665,142	(2)	\$1,365,973	\$2,031,115	\$1,298,520
For water wheels and turbines.....	\$634,901	\$242,701		\$877,602	\$645,742

1 Revised.
2 Combined to avoid disclosing approximations of the production reported by individual establishments.
3 Produced principally in the industry, but combined in the aggregate column to avoid disclosing approximations of the production reported by individual establishments.

TABLE 5.—PRODUCTION BY CLASS, TYPE, NUMBER, RATED HORSEPOWER CAPACITY IN DETAIL, AND VALUE: 1939

	TOTAL			NUMBER, BY HORSEPOWER CAPACITY, RATED OR NORMAL, NOT OVERLOAD											
	Number	Rated horsepower capacity	Value	Less than 1	1 or more but under 5	5 or more but under 10	10 or more but under 20	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 600	600 or more but under 1,000	1,000 or more but under 5,000	5,000 and over
Steam engines (marine and other), reciprocating.....	348	117,365	\$1,154,551		7	12	38	70	29	74	11	19	14	74	
Steam turbines:															
Marine.....	122	702,760	8,369,081					10	4	40		10	10	2	46
Other.....	2,271	517,795	7,070,427	1	82	244	460	600	373	217	134	46	48	48	18
Water wheels.....	49	12,558	130,067	3	8	2	7	11	1	5	4	4		4	
Water turbines.....	112	836,663	5,885,436		3	1	3	14	10	9	15	7	13	14	23

CENSUS OF MANUFACTURES: 1939

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	3,902	3,889	3,874	3,830	3,727	3,673	3,634	3,733	3,799	3,953	4,130	4,216	4,370
1937.....	4,102	3,267	3,567	3,763	3,936	4,036	4,152	4,227	4,334	4,471	4,494	4,512	4,464
Pennsylvania.....	3,348	3,407	3,384	3,335	3,223	3,174	3,144	3,201	3,202	3,318	3,500	3,580	3,706

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	18
Reporting expenditures for plant and equipment.....	11
Value of products:	
Total for the industry.....	\$24,751,466
Reporting expenditures for plant and equipment.....	23,956,493
Expenditures for plant and equipment:	
Total for the industry.....	1,054,652
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	128,072
Expenditures for new machinery and operating equipment.....	872,363
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	54,217

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$9,381,134	\$6,062,517
Finished products.....	832,766	819,296
Materials, supplies, etc.....	8,548,368	5,243,221
End of year, total.....	10,134,311	10,674,112
Finished products.....	859,544	1,571,804
Materials, supplies, etc.....	9,274,767	9,102,308
Value of products for the industry, total.....	24,751,466	22,424,777
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	24,751,466	22,424,777

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	18
Number of establishments reporting power equipment.....	13
Prime movers, aggregate:	
Number.....	25
Horsepower.....	9,365
Prime movers, driving generators, total—	
Number.....	13
Horsepower.....	8,275
Steam engines—	
Number.....	6
Horsepower.....	1,245
Steam turbines—	
Number.....	7
Horsepower.....	7,030
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	500
Prime movers not driving generators, total—	
Number.....	12
Horsepower.....	1,090
Steam engines—	
Number.....	8
Horsepower.....	930
Steam turbines—	
Number.....	4
Horsepower.....	160
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	520
Generators, kilowatt rating, total.....	6,025
Generators, driven by—	
Steam engines, kilowatt rating.....	875
Steam turbines, kilowatt rating.....	5,150
Generators, ordinarily idle (included above), kilowatt rating.....	360
Electric motors, total:	
Number.....	4,145
Horsepower.....	49,799
Driven by purchased energy—	
Number.....	1,086
Horsepower.....	9,220
Driven by energy generated in establishments reporting—	
Number.....	3,059
Horsepower.....	40,579
Electric energy (kilowatt-hours):	
Generated in plant.....	10,216,700
Purchased.....	11,861,227

¹ Comparable data for 1929 not available.

INTERNAL-COMBUSTION ENGINES

[A preliminary report for this industry was issued October 4, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments whose chief products are internal-combustion engines (except for aircraft and motor vehicles) including Diesel and semi-Diesel types. It does not include the production of engines made for installation in locomotives (Diesel-electric), ships, boats, or tractors when the engines and the locomotives, etc., are built by the same establishment. The term "carburetor engines," as used in this report, covers internal-combustion

engines in which the fuel vapor is mixed with air by means of either a carburetor of the ordinary type or a "mixing-valve."

At prior censuses establishments engaged primarily in the manufacture of internal-combustion engines were assigned to the former "Engines, turbines, tractors, water wheels, and windmills" industry. The figures for 1937 in this report are the result of a retabulation for statistics comparable with those for 1939.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	74	14,752	\$21,503,252	\$53,455,778	\$110,357,964	\$56,902,186	50,605
1937 ⁴	92	21,223	31,431,586	59,675,994	124,177,118	64,501,124	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Data not available for prior years.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Michigan	Missouri	New York	Ohio	Pennsylvania	Wisconsin	Other States ¹
Number of establishments ²	74	9	7	5	8	7	7	14	17
Proprietors and firm members.....	13	3	-----	-----	3	-----	5	1	1
Persons reported by manufacturing establishments, total ³	19,962	544	1,917	991	2,344	2,779	1,503	6,790	3,094
Salaried officers of corporations ⁴	160	12	15	11	12	14	8	39	49
Manufacturing:									
Salaried employees ⁵	3,529	107	367	184	600	572	284	950	465
Wage earners (average for the year) ⁶	14,752	381	1,431	770	1,645	2,050	1,120	5,172	2,183
Distribution.....	1,382	25	90	26	84	139	87	570	361
Construction.....	105	19	-----	-----	2	-----	4	57	23
Other.....	34	-----	14	-----	1	4	-----	2	13
Salaries and wages, total ⁷	\$33,321,655	\$1,058,696	\$3,254,054	\$1,722,342	\$3,763,570	\$5,339,723	\$2,056,067	\$11,033,128	\$5,094,075
Salaried officers ⁸	1,325,949	71,216	95,791	84,561	101,240	153,100	20,787	415,909	383,345
Manufacturing:									
Salaries ⁹	7,537,207	217,814	777,002	347,847	1,079,618	1,285,014	499,960	2,184,199	1,145,753
Wages.....	21,503,252	696,294	2,121,761	1,199,986	2,348,817	3,504,099	1,896,044	7,492,288	2,743,963
Distribution.....	2,721,963	52,804	195,824	89,943	223,632	394,191	137,729	887,969	739,866
Construction.....	125,859	20,568	-----	-----	8,823	-----	1,547	52,539	42,382
Other.....	107,425	-----	63,676	-----	1,440	3,319	-----	224	38,766
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	53,455,778	1,807,929	6,427,637	1,354,913	5,951,758	11,203,141	2,540,831	15,073,041	9,096,528
Materials and supplies.....	51,532,540	1,787,911	6,236,939	1,272,014	5,752,337	10,944,540	2,393,495	14,485,110	8,710,194
Fuel.....	1,101,400	3,837	159,423	75,566	145,779	92,237	120,547	362,366	141,645
Purchased electric energy.....	324,002	24,998	9,714	7,333	38,979	50,459	26,789	107,101	58,629
Contract work.....	497,836	41,183	21,561	-----	14,663	115,905	-----	118,464	186,060
Value of products.....	110,357,964	3,858,511	11,383,697	3,986,637	10,396,025	19,513,318	6,196,357	34,089,993	20,933,426
Value added by manufacture ¹⁰	56,902,186	2,050,582	4,956,060	2,631,724	4,444,267	8,310,177	3,655,526	19,016,952	11,836,898

¹ Connecticut, 4 establishments; Illinois, 4; Indiana, 2; Iowa, 1; Minnesota, 3; Nebraska, 1; New Jersey, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

CENSUS OF MANUFACTURES: 1939

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

	1939	1937
Internal-Combustion Engines industry, all products, total value.....	\$110,357,964	\$124,177,118
Internal-combustion engines and parts made in this industry.....	90,914,101	101,816,406
Receipts for contract and repair work.....	5,800,671	6,206,356
Other products (not classified in the industry).....	13,136,730	16,154,356
Miscellaneous products not specified.....	506,462	
Internal-combustion engines and parts, aggregate value.....	107,420,407	119,090,947
Internal-combustion engines and parts made in this industry.....	90,914,101	101,816,406
Internal-combustion engines and parts made as secondary products in other industries.....	16,506,306	17,274,541
(a)—Made as secondary products within the Machinery (Except Electrical) group.....	11,046,492	(¹)
(b)—Made as secondary products outside of the Machinery (Except Electrical) group.....	5,459,814	(²)

¹ Chiefly value of steam turbines, transmissions, compressors, and generators.² Data not available.

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

PRODUCT	1939			1937
	Produced in this industry	Produced in other industries	Aggregate	
Internal-combustion engines and parts, aggregate value ¹	\$90,914,101	\$16,506,306	\$107,420,407	\$119,090,947
Injection engines ¹ :				
Compression-ignition (Diesel)—				
Marine—				
For direct connection to propeller shaft—				
Number.....	647		647	700
Horsepower.....	115,051		115,051	129,789
Value.....	\$4,291,187		\$4,291,187	\$5,543,248
For electric drive and auxiliary use—				
Number.....	(²)	(²)	235	214
Horsepower.....			64,136	50,436
Value.....			\$3,921,415	\$3,314,522
For connection to propeller shaft by reduction gearing—				
Number.....	908		908	711
Horsepower.....	156,336		156,336	75,378
Value.....	\$5,543,257		\$5,543,257	\$3,290,260
Other Diesel—				
Stationary—				
Number.....	3,597	3,294	6,891	5,942
Horsepower.....	390,844	287,963	678,807	592,505
Value.....	\$11,390,378	\$5,989,653	\$17,380,031	\$17,300,783
For installation in contractors', agricultural, and other portable and semiportable equipment—				
Number.....	349		349	
Horsepower.....	32,041		32,041	
Value.....	\$982,783		\$982,783	
Other (tractor, railway, Diesel-electric, etc.)—				
Number.....	5,847	3,249	9,096	
Horsepower.....	625,005	166,459	791,464	
Value.....	\$9,454,146	\$2,722,037	\$12,176,183	

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

PRODUCT	1939			1937
	Produced in this industry	Produced in other industries	Aggregate	
Internal-combustion engines and parts—Continued.				
Injection engines—Con.				
Surface-ignition and spark-ignition—				
Number.....	1,137		1,137	2,177
Horsepower.....	72,772		72,772	127,401
Value.....	\$1,232,970		\$1,232,970	\$2,943,582
Injection engines not reported in detail, value.....				\$832,884
Carburetor engines ¹ :				
Marine engines—				
Inboard—				
Number.....	(²)	(²)	11,819	10,347
Horsepower.....			722,813	615,475
Value.....			\$3,830,510	\$3,203,663
Outboard—				
Reported by number and horsepower—				
Number.....	129,335		129,335	477,705
Horsepower.....	521,146		521,146	433,022
Value.....	\$3,466,932		\$3,466,932	\$4,406,482
Not reported by number and horsepower, value.....		\$95,285	\$95,285	\$159,554
Tractor engines made for sale separately—				
Number.....	25,618	7,045	32,663	34,149
Horsepower.....	706,063	204,308	910,371	1,625,795
Value.....	\$2,638,685	\$1,177,741	\$3,816,426	\$5,047,511
Railway car—				
Number.....	1,867		1,867	2,719
Horsepower.....	16,453		16,453	41,191
Value.....	\$499,645		\$499,645	\$787,198
Industrial engines—				
Portable—				
Number.....	(²)	(²)	61,423	55,204
Horsepower.....			714,618	840,049
Value.....			\$5,460,945	\$6,145,599
Stationary—				
Number.....	7,795	15,795	23,590	36,570
Horsepower.....	311,639	247,332	558,971	943,574
Value.....	\$3,300,521	\$2,046,082	\$5,346,603	\$11,322,876
Other and not-specified types of carburetor engines—				
Reported by number and horsepower—				
Number.....	203,514	13,584	217,098	255,414
Horsepower.....	2,269,389	98,308	2,367,697	2,652,700
Value.....	\$11,404,512	\$856,399	\$12,260,911	\$13,942,905
Not reported by number and horsepower, value.....				\$734,013
Mixing-valve engines—				
Number.....	435	705	1,140	20,503
Horsepower.....	98,512	1,752	100,264	116,573
Value.....	\$4,713,573	\$37,068	\$4,750,641	\$4,824,171
Internal-combustion engines not reported by class or type, value		\$760,952	\$760,952	
Parts and attachments.....	\$14,990,533	\$1,613,198	\$16,603,731	\$27,247,526

¹ Not including engines made for installation in ships, boats, and tractors built by the same establishment. Data for motor-vehicle engines are included in the report for Motor Vehicles, Motor-Vehicle Bodies, Parts and Accessories and data for aircraft engines in the report for Aircraft and Parts, Including Aircraft Engines.² Value produced in the Machinery (Except Electrical) group of industries, \$11,046,492, and in industry classifications outside the Machinery (Except Electrical) group, \$5,459,814.³ Produced principally in the industry but shown only in the aggregate to avoid disclosing approximations of the production reported by individual establishments.⁴ Revised.

TABLE 5.—PRODUCTION BY CLASS, TYPE, NUMBER, RATED HORSEPOWER CAPACITY IN DETAIL, AND VALUE:
1939

[This table covers engines, for which rated horsepower capacity was reported in detail. For value of engines, etc., for which number and horsepower were not reported, see table 4]

	TOTAL			NUMBER, BY HORSEPOWER CAPACITY, RATED OR NORMAL, NOT OVERLOAD										
	Num- ber	Rated horse- power capac- ity	Value	Less than 1	1 or more but under 5	5 or more but under 10	10 or more but under 20	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 600	600 or more but under 1,000	1,000 or more but under 5,000
Internal-combustion engines ¹ :														
Injection engines—														
Compression-ignition (Diesel)—														
Marine—														
For direct connection to propeller shaft.....	647	115,051	\$4,291,187				2	86	169	218	89	52	24	7
For electric-drive and auxiliary use.....	235	64,136	3,921,415			4	31	54	32	23	37	18	23	13
For connection to propeller shaft by reduction gearing.....	908	156,336	5,543,257				6	241	136	465	23		13	24
Other Diesel—														
Stationary.....	6,891	678,807	17,380,031			185	693	1,034	2,494	2,034	268	97	44	42
For installation in contractors', agricultural, and other portable and semiportable equipment.....	349	32,041	982,783					141	73	106	27	1	1	
Other (tractor, truck, railway, Diesel-electric).....	9,096	791,464	12,176,183					2,825	2,917	3,202	19	8	76	49
Surface-ignition and spark-ignition ²	1,137	72,772	1,232,970				173	258	434	253	19			
Carburetor engines—														
Marine engines—														
Inboard.....	11,819	722,813	3,830,510	41	1,819	246	666	2,740	4,300	1,798	176	9	24	
Outboard.....	129,335	521,146	8,466,932	5,057	81,943	37,789	1,932	2,600	14					
Tractor engines for sale as such.....	32,663	910,371	3,816,426				4,478	23,629	4,451	105				
Railway car.....	1,867	16,453	499,645		1,031	667	61	87	20	1				
Industrial engines—														
Portable.....	61,423	714,618	5,460,945	13,517	24,285	6,511	6,491	6,905	3,362	265	87			
Stationary.....	23,590	558,971	5,346,603		7,678	3,672	1,816	7,406	2,943	506	55	14		
Other types of carburetor engines.....	217,098	2,367,697	12,260,911	134,578	32,279	2,376	6,377	16,103	24,454	922	1		8	
Mixing-valve engines.....	1,140	100,264	4,750,641		705		1	146	51	43	82	45	50	17

¹ Not including engines manufactured for installation by ship, boat, and tractor builders. Data for motor-vehicle engines are included in the report for Motor Vehicles, Motor-Vehicle Bodies, Parts and Accessories, and data for aircraft engines in the report for Aircraft and Parts, Including Aircraft Engines.

² Combined to avoid disclosing approximations of the production reported by individual establishments.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	14,752	13,549	14,102	14,068	15,227	15,038	14,126	14,370	14,649	14,801	15,406	15,360	15,726
1937.....	21,223	18,808	21,445	21,999	22,426	23,050	23,159	22,756	21,647	21,273	20,035	19,315	18,768
California.....	381	304	323	333	347	364	418	363	331	351	429	507	505
Connecticut.....	268	273	269	268	267	260	261	262	267	266	273	273	270
Illinois.....	751	721	733	756	757	759	796	810	759	760	760	694	707
Michigan.....	1,431	1,285	1,368	1,655	1,911	1,639	1,346	1,354	1,284	1,249	1,450	1,208	1,375
Minnesota.....	240	228	246	295	300	263	263	219	212	201	192	207	250
Missouri.....	770	645	805	764	776	802	800	775	748	727	757	805	835
New York.....	1,645	1,488	1,512	1,492	1,484	1,463	1,481	1,594	1,725	1,772	1,859	1,907	1,959
Ohio.....	2,050	2,065	2,052	2,127	2,281	2,287	1,341	1,482	1,980	2,090	2,174	2,332	2,384
Pennsylvania.....	1,120	1,033	1,062	1,057	1,063	1,090	1,139	1,170	1,076	1,101	1,171	1,295	1,185
Wisconsin.....	5,172	4,856	5,034	5,114	5,195	5,158	5,332	5,322	5,217	5,186	5,247	5,125	5,276

CENSUS OF MANUFACTURES: 1939

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT:
1939

	1939
Number of establishments:	
Total for the industry.....	74
Reporting expenditures for plant and equipment.....	60
Value of products:	
Total for the industry.....	\$110,357,964
Reporting expenditures for plant and equipment.....	108,064,630
Expenditures for plant and equipment:	
Total for the industry.....	3,709,919
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	661,770
Expenditures for new machinery and operating equipment.....	2,908,191
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	139,958

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$35,370,196	\$35,492,771
Finished products.....	16,712,494	15,976,990
Materials, supplies, etc.....	18,657,702	19,515,781
End of year, total.....	38,031,558	40,907,185
Finished products.....	16,286,967	18,625,748
Materials, supplies, etc.....	21,744,591	22,281,437
Value of products for the industry, total.....	110,357,964	124,177,118
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	110,265,149	122,939,616
Value for establishments not reporting inventories.....	92,815	1,237,502

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	74
Number of establishments reporting power equipment.....	73
Prime movers, aggregate:	
Number.....	127
Horsepower.....	50,605
Prime movers, driving generators, total—	
Number.....	99
Horsepower.....	48,827
Steam engines—	
Number.....	9
Horsepower.....	5,175
Steam turbines—	
Number.....	7
Horsepower.....	14,486
Diesel and semi-Diesel engines—	
Number.....	71
Horsepower.....	27,016
Other internal-combustion engines ² —	
Number.....	12
Horsepower.....	2,150
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	240
Prime movers not driving generators, total—	
Number.....	28
Horsepower.....	1,778
Steam engines—	
Number.....	4
Horsepower.....	615
Diesel and semi-Diesel engines—	
Number.....	8
Horsepower.....	410
Other internal-combustion engines ² —	
Number.....	16
Horsepower.....	753
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	250
Generators, kilowatt rating, total.....	33,771
Generators, driven by—	
Steam engines, kilowatt rating.....	3,950
Steam turbines, kilowatt rating.....	9,325
Diesel and semi-Diesel engines, kilowatt rating.....	19,121
Other internal-combustion engines, ² kilowatt rating.....	1,375
Generators, ordinarily idle (included above), kilowatt rating.....	157
Electric motors, total:	
Number.....	17,212
Horsepower.....	124,408
Driven by purchased energy—	
Number.....	8,658
Horsepower.....	48,795
Driven by energy generated in establishments reporting—	
Number.....	8,554
Horsepower.....	75,613
Electric energy (kilowatt-hours):	
Generated in plant.....	55,027,124
Sold.....	4,141,508
Purchased.....	21,852,925

¹ Comparative data for 1929 not available.² Gas, gasoline, etc.

TRACTORS

[A preliminary report for this industry was issued October 4, 1940]

Description of the industry.—This industry, as constituted for census purposes, includes establishments engaged primarily in the manufacture of agricultural tractors, tractors used on construction work, and industrial tractors. Establishments manufacturing any of these items as the product of primary importance were classified in the "Agricultural implements (including tractors)" industry for 1937, but the figures for 1937 given in this report have been adjusted for comparison with those for 1939.

Detailed production statistics on agricultural tractors and tractors used for construction work for 1939 and 1937 are published in the annual report entitled "Manufacture and Sale of Farm Equipment and Related Products: 1939," and are also given in table 4 in this report.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939-----	30	31, 275	\$49, 845, 575	\$135, 626, 339	\$253, 951, 435	\$118, 325, 096	28, 745
1937 ⁴ -----	28	42, 465	69, 216, 369	185, 124, 548	353, 296, 846	168, 172, 298	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Data not available for prior years.

⁵ Not called for on schedule.

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

ITEM	United States	Illinois	Wisconsin	Other States ¹
Number of establishments ¹	30	6	7	17
Proprietors and firm members.....	4			4
Persons reported by manufacturing establishments, total ²	39, 282	19, 647	12, 330	7, 285
Salaried officers of corporations ³	48		8	40
Manufacturing:				
Salaried employees ⁴	6, 221	2, 855	2, 373	963
Wage earners (average for the year) ⁴	31, 275	15, 576	9, 780	5, 919
Distribution.....	1, 535	1, 148	88	299
Construction.....	167	68	77	22
Other.....	16		4	12
Salaries and wages, total ⁵	\$64, 803, 114	\$33, 828, 727	\$19, 131, 457	\$11, 842, 930
Salaried officers ³	250, 623		41, 500	209, 123
Manufacturing:				
Salaries ⁴	10, 936, 609	5, 470, 579	3, 647, 300	1, 818, 730
Wages.....	49, 845, 575	25, 604, 688	15, 037, 210	9, 203, 677
Distribution.....	3, 463, 214	2, 648, 789	243, 778	570, 647
Construction.....	291, 208	104, 671	156, 610	29, 927
Other.....	15, 885		5, 059	10, 826
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	135, 626, 339	69, 605, 061	36, 884, 731	29, 136, 547
Materials and supplies.....	130, 846, 734	67, 856, 592	34, 629, 040	28, 361, 102
Fuel.....	2, 195, 197	797, 891	830, 947	565, 359
Purchased electric energy.....	1, 372, 923	899, 737	265, 162	208, 024
Contract work.....	1, 211, 485	50, 841	1, 159, 582	1, 062
Value of products.....	253, 951, 435	121, 550, 621	68, 493, 028	63, 907, 786
Value added by manufacture ⁵	118, 325, 096	51, 945, 560	31, 608, 297	34, 771, 239

¹ California, 2 establishments; Iowa, 2; Kansas, 1; Michigan, 1; Minnesota, 3; New York, 1; Ohio, 3; Pennsylvania, 1; Washington, 1; West Virginia, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

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

	1939	1937
Tractors industry, all products, total value.....	\$253,951,435	\$353,296,846
Tractors, parts and attachments made in this industry—		
Tractors (except industrial).....	149,569,783	1266,604,641
Tractors, industrial.....	7,888,162	
Parts and attachments.....	46,298,909	
Miscellaneous products not specified.....	276,567	
Receipts for contract and repair work.....	216,118	1,333,851
Other products (not classified in the industry).....	* 51,201,896	85,358,354
Tractors, parts and attachments, total value.....	214,704,664	1268,394,076
Tractors, parts and attachments made in the industry.....	202,256,854	1266,604,641
Tractors, parts and attachments made as secondary products in other industries.....	12,447,810	* 1,789,435

* Includes parts and attachments for agricultural machinery reported by tractor manufacturers. Data not called for separately on schedule.

* Chiefly value of engines, machinery for road building, agricultural machinery, and castings.

* Data for parts and attachments for tractors not called for separately on schedule. This figure does not include tractor parts and attachments reported by establishments whose major products were agricultural machinery.

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

	1939		1937	
	Number	Value	Number	Value
Tractors and attachments and parts, total value.....		\$214,704,664		1268,394,076
Tractors, all types (except industrial), total ¹	215,462	157,577,449	283,155	227,679,355
Wheel type, all kinds, total.....	185,558	110,856,746	237,837	159,685,605
With steel tires.....	31,959	19,281,424	129,291	81,524,710
With rubber tires.....	153,599	91,575,322	108,546	78,160,895
Except "all-purpose," total.....	26,973	20,523,664	53,882	42,384,936
With steel tires.....	10,628	7,257,555	34,494	25,013,421
With rubber tires.....	16,345	13,266,109	19,388	17,371,515
Belt horsepower:				
Under 25, total.....	11,248	6,713,112	15,588	9,701,400
With steel tires.....	3,932	2,154,220	10,248	5,847,662
With rubber tires.....	7,316	4,558,892	5,340	3,853,738
25-29, total.....	4,861	3,602,401	7,907	5,834,464
With steel tires.....	2,331	1,614,006	5,402	3,736,903
With rubber tires.....	2,530	1,988,395	2,505	2,097,561

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

	1939		1937	
	Number	Value	Number	Value
Tractors, etc.—Continued.				
Wheel type—Continued.				
Except "all-purpose"—Con.				
Belt horsepower—Continued.				
30-49, total.....	10,575	\$9,953,806	18,844 11,543	\$15,428,856 11,420,216
With steel tires.....	4,352	3,469,829		
With rubber tires.....	6,223	6,483,977		
50 and over, total.....	289	254,345		
With steel tires.....	13	19,500		
With rubber tires.....	276	234,845		
"All-purpose," total.....	158,585	90,333,082	183,955	117,300,669
With steel tires.....	21,331	12,023,869	94,797	56,511,289
With rubber tires.....	137,254	78,309,213	89,158	60,789,380
Belt horsepower:				
Under 30, total.....	149,195	83,075,956	174,057	109,481,870
With steel tires.....	20,722	11,589,505	91,917	54,365,317
With rubber tires.....	128,473	71,486,451	82,140	55,116,553
30 and over, total.....	9,390	7,257,126	9,898	7,818,799
With steel tires.....	609	434,364	2,880	2,145,972
With rubber tires.....	8,781	6,822,762	7,018	5,672,827
Track laying type, all sizes, total.....	20,127	45,305,160	34,602	66,418,335
Belt horsepower:				
Under 50.....	13,284	19,249,076	26,444	36,621,258
50 and over.....	6,843	26,056,084	8,158	29,797,077
Garden tractors.....	9,777	1,415,543	10,716	1,575,415
Attachments and parts for tractors (except industrial).....		45,998,522		40,714,721
Tractors, industrial.....	3,826	7,888,162	(*)	(*)
Attachments and parts for industrial tractors.....		3,740,531	(*)	(*)

¹ Does not include figures for industrial tractors, attachments and parts.

² Statistics from annual report on "Manufacture and Sale of Farm Equipment and Related Products: 1939."

³ Not called for separately on schedule.

TABLE 5.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL IN THE TRACTORS INDUSTRY: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	102,918	\$2,544,164
Scrap iron and steel purchased as such.....	70,545	1,074,527

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	31, 275	30, 029	32, 051	33, 325	32, 567	30, 285	29, 480	29, 232	30, 309	31, 296	32, 416	31, 165	33, 143
1937.....	42, 465	36, 148	38, 485	40, 810	42, 745	43, 817	44, 279	44, 874	45, 952	47, 230	47, 115	39, 880	38, 239
Illinois.....	15, 576	15, 559	16, 456	16, 959	15, 549	13, 757	13, 550	14, 313	15, 357	16, 595	17, 021	15, 336	16, 462
Minnesota.....	1, 111	1, 203	1, 181	1, 070	1, 034	1, 011	1, 127	1, 194	1, 157	1, 102	981	1, 127	1, 146
Ohio.....	571	514	530	578	716	648	657	393	516	547	585	636	637
Wisconsin.....	9, 780	8, 748	8, 974	9, 572	10, 009	9, 815	9, 884	10, 041	9, 923	9, 810	10, 374	9, 932	10, 280

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	30
Reporting expenditures for plant and equipment.....	23
Value of products:	
Total for the industry.....	\$253, 951, 435
Reporting expenditures for plant and equipment.....	253, 160, 349
Expenditures for plant and equipment:	
Total for the industry.....	8, 481, 181
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	1, 613, 487
Expenditures for new machinery and operating equipment.....	6, 773, 233
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	94, 461

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$83, 145, 423	\$80, 594, 961
Finished products.....	44, 190, 765	46, 627, 096
Materials, supplies, etc.....	38, 954, 658	33, 967, 865
End of year, total.....	85, 742, 572	113, 555, 543
Finished products.....	43, 149, 945	54, 243, 660
Materials, supplies, etc.....	42, 592, 627	59, 311, 883
Value of products for the industry, total.....	253, 951, 435	353, 296, 846
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	253, 951, 435	353, 296, 846
Value for establishments not reporting inventories.....		

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	30
Number of establishments reporting power equipment.....	30
Prime movers, aggregate:	
Number.....	41
Horsepower.....	28, 745
Prime movers, driving generators, total—	
Number.....	13
Horsepower.....	22, 260
Steam engines—	
Number.....	3
Horsepower.....	1, 600
Steam turbines—	
Number.....	9
Horsepower.....	20, 600
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	60
Prime movers not driving generators, total—	
Number.....	28
Horsepower.....	6, 485
Steam engines—	
Number.....	24
Horsepower.....	5, 925
Steam turbines—	
Number.....	4
Horsepower.....	560
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	975
Generators, kilowatt rating, total.....	16, 125
Generators, driven by—	
Steam engines, kilowatt rating.....	1, 075
Steam turbines, kilowatt rating.....	15, 000
Hydroturbines and water wheels, kilowatt rating.....	50
Electric motors, total:	
Number.....	27, 659
Horsepower.....	223, 183
Driven by purchased energy—	
Number.....	18, 728
Horsepower.....	136, 848
Driven by energy generated in establishments reporting—	
Number.....	8, 931
Horsepower.....	86, 335
Electric energy (kilowatt-hours):	
Generated in plant.....	54, 576, 471
Sold.....	23, 500
Purchased.....	157, 254, 248

¹ Comparative data for 1929 not available.

AGRICULTURAL MACHINERY (EXCEPT TRACTORS)

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of agricultural machinery and equipment, except tractors, for use in the preparation or maintenance of the soil, the planting and harvesting of the crop, preparing crops for market or for use, and other operations or processes pertaining to agriculture. The manufacture of agricultural hand tools is not included in this industry.

Detailed production statistics.—The annual collection of detailed data on production and sales of agricultural implements and other farm equipment, begun in 1921 and discontinued after the preparation of the report for 1931, was resumed in 1936 (covering 1935). As detailed production statistics for 1939 and 1937 will be found in the report entitled "Manufacture and Sale of Farm Equipment and Related Products," only a sum-

mary of the statistics on products is given in table 4 in the Agricultural Machinery (Except Tractors) report.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	317	27,806	\$35,228,807	\$79,270,104	\$167,895,292	\$88,625,188	45,828
1937 ⁴	270	37,773	\$5,751,394	108,011,986	225,044,035	117,032,049	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Data not available for prior years.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Florida	Georgia	Illinois	Indiana	Iowa	Kansas	Massachusetts	Michigan
Number of establishments ¹	317	24	3	7	40	21	21	7	5	16
Proprietors and firm members.....	132	23	2	2	11	3	10	7	4	8
Persons reported by manufacturing establishments, total ²	34,898	408	16	443	16,449	4,396	1,006	65	140	875
Salaried officers of corporations ³	410	12	2	11	51	44	22	2	5	23
Manufacturing:										
Salaried employees ³	5,176	60	2	49	2,671	647	168	9	9	144
Wage earners (average for the year) ³	27,806	289	9	360	13,270	3,541	790	52	122	613
Distribution.....	1,845	44	3	17	388	143	16	2	4	91
Construction.....	82	1		34	18	10				1
Other.....	79	2		6	35	3				3
Salaries and wages, total ²	\$48,809,691	\$599,386	\$17,988	\$394,476	\$24,152,969	\$6,205,444	\$1,312,281	\$71,952	\$197,171	\$1,276,581
Salaried officers ³	1,878,531	36,225	3,284	62,423	230,509	294,610	84,525	18,375	35,964	77,012
Manufacturing:										
Salaries ³	9,167,366	104,795	3,231	48,491	5,012,086	1,100,573	280,398	13,362	19,740	230,192
Wages.....	35,228,807	342,836	10,373	233,571	18,183,125	4,580,760	900,523	36,778	134,120	800,747
Distribution.....	2,303,840	111,745	1,100	45,792	591,723	202,004	32,093	3,437	7,347	162,632
Construction.....	164,029	1,758		102,611	24,694	2,803	14,742			817
Other.....	67,118	2,027		4,199	32,915					5,181
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	79,270,104	877,785	25,048	575,553	40,152,644	10,935,152	2,214,186	132,733	368,877	2,592,329
Materials and supplies.....	76,231,887	854,568	24,434	543,435	38,570,964	10,607,970	2,155,592	128,805	358,998	2,523,948
Fuel.....	1,874,425	7,136		14,816	916,348	253,249	36,122	1,923	2,477	26,053
Purchased electric energy.....	875,110	13,581	614	16,922	415,706	70,403	22,472	2,005	5,460	41,640
Contract work.....	288,682	2,500		380	249,626	3,530			1,942	688
Value of products.....	167,895,292	1,957,384	62,979	1,310,189	83,049,108	21,381,906	5,499,500	282,652	685,058	4,605,142
Value added by manufacture ⁴	88,625,188	1,079,599	37,931	734,636	42,896,464	10,446,754	3,285,314	146,919	316,181	2,012,813

See footnotes at end of table.

AGRICULTURAL MACHINERY (EXCEPT TRACTORS)

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

ITEM	New York	North Carolina	Ohio	Pennsylvania	Tennessee	Texas	Virginia	Washington	Wisconsin	Other States ¹
Number of establishments ¹	21	10	21	12	4	10	10	5	30	51
Proprietors and firm members.....	1	7	2	7	—	9	1	1	4	30
Persons reported by manufacturing establishments, total ²	2,457	379	1,887	726	372	126	348	82	2,815	1,908
Salaried officers of corporations ²	40	16	40	21	6	5	11	11	45	43
Manufacturing:										
Salaried employees ²	328	38	210	86	50	23	24	10	452	196
Wage earners (average for the year) ³	1,947	310	1,504	558	311	90	302	53	2,218	1,467
Distribution.....	129	15	122	54	4	4	11	8	97	193
Construction.....	3	—	—	7	1	—	—	—	1	6
Other.....	10	—	11	—	—	4	—	—	2	3
Salaries and wages, total ²	\$3,415,448	\$440,185	\$2,300,608	\$874,936	\$461,865	\$122,440	\$323,821	\$115,096	\$3,927,764	\$2,599,280
Salaried officers ²	186,256	96,297	167,884	83,279	51,600	23,645	34,805	36,006	167,372	188,460
Manufacturing:										
Salaries ²	593,720	56,630	277,478	127,392	94,352	26,673	48,974	11,379	775,479	342,421
Wages.....	2,355,643	259,957	1,650,723	535,866	304,568	64,361	226,621	50,258	2,800,070	1,727,907
Distribution.....	235,202	27,301	199,117	122,450	10,433	6,087	13,421	17,453	182,889	331,614
Construction.....	4,000	—	—	5,949	912	—	—	—	1,670	6,876
Other.....	10,627	—	5,408	—	—	1,674	—	—	284	2,002
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	4,337,513	393,564	3,819,373	1,131,164	532,105	206,7470	276,697	103,587	6,477,334	4,117,720
Materials and supplies.....	4,063,711	354,693	3,680,166	1,089,583	495,704	198,697	247,319	101,157	6,259,939	3,972,204
Fuel.....	205,107	14,867	100,968	21,883	19,940	5,287	21,544	387	136,247	90,071
Purchased electric energy.....	68,512	9,004	38,193	19,698	16,461	2,500	7,834	2,043	67,436	54,626
Contract work.....	183	15,000	46	—	—	256	—	—	13,712	819
Value of products.....	9,914,394	1,098,772	8,974,537	2,695,090	1,450,083	462,947	866,665	276,388	12,839,536	10,482,962
Value added by manufacture ⁴	5,576,881	705,208	5,155,164	1,563,926	917,978	256,207	589,968	172,801	6,362,202	6,365,242

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Persons engaged—general classification.

³ See GENERAL EXPLANATIONS—Wage earners and wages.

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

¹ Alabama, 1 establishment; Colorado, 2; Connecticut, 1; Idaho, 2; Kentucky, 4; Louisiana, 1; Maine, 2; Minnesota, 15; Mississippi, 2; Missouri, 8; Nebraska, 4; New Hampshire, 1; New Jersey, 3; North Dakota, 1; Oregon, 1; Vermont, 1; Wyoming, 2.

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

	1939	1937
Agricultural Machinery (Except Tractors) industry, all products, total value.....	\$167,895,292	\$225,044,035
Agricultural machinery, parts and attachments made in the industry:		
Agricultural machinery.....	118,881,667	188,212,277
Attachments and parts.....	31,695,854	
Miscellaneous products not specified (including products for interplant transfer).....	4,955,834	36,317,475
Other products (not classified in the industry).....	11,964,041	
Receipts for contract and repair work.....	397,896	514,283
Agricultural machinery, parts, and attachments, total value.....	\$152,949,140	\$198,238,773
Agricultural machinery, parts, and attachments made in the industry.....	150,577,521	188,212,277
Agricultural machinery, parts, and attachments made as secondary products in other industries.....	2,371,619	10,026,496

¹ Includes parts and attachments for tractors reported by the agricultural machinery manufacturers. Data not called for separately on schedule.

² Chiefly value of engines, machinery for road building, and casting.

³ For data on total production of agricultural machinery in all industries, see annual report on "Manufacture and Sale of Farm Equipment and Related Products: 1939."

⁴ This figure does not include data for parts and attachments for agricultural machinery reported by establishments whose major products were tractors; not called for separately on schedule.

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

PRODUCT	1939	1937
Total value ¹	\$152,949,140	\$198,238,773
Planting, seeding, and fertilizing machinery.....	14,366,554	27,525,813
Plows and listers.....	20,305,434	33,042,165
Harrows, rollers, pulverizers, and stalk cutters.....	11,723,431	16,652,889
Cultivators and weeders.....	12,290,016	22,230,536
Harvesting machinery.....	47,961,746	46,602,012
Haying machinery.....	14,256,248	19,740,475
Machines for preparing crops for market or for use.....	19,622,304	20,471,601
Lawn mowers.....	9,691,278	8,427,434
Windmills.....	1,928,615	2,612,724
Windmill towers.....	803,514	933,124

¹ Figures from the annual report "Manufacture and Sale of Farm Equipment and Related Products: 1939." The data include the value of agricultural machinery made as secondary products in plants classified in industries other than "Agricultural Machinery (Except Tractors)" industry. For further details see annual report on "Manufacture and Sale of Farm Equipment and Related Products: 1939."

TABLE 5.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL IN THE AGRICULTURAL MACHINERY (EXCEPT TRACTORS) INDUSTRY: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	68,393	\$1,549,700
Scrap iron and scrap steel.....	85,498	1,123,848

CENSUS OF MANUFACTURES: 1939

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	27,806	27,900	29,743	30,142	30,480	29,924	28,344	25,653	25,719	26,033	26,667	25,748	27,314
1937.....	37,773	33,777	35,792	37,990	39,031	39,289	39,615	38,805	38,434	40,367	41,206	33,600	35,370
California.....	289	281	297	309	314	337	327	268	266	266	277	266	271
Florida.....	9	9	9	10	9	9	10	9	9	9	9	9	9
Georgia.....	360	416	373	357	348	310	246	279	308	305	386	481	508
Illinois.....	13,270	12,542	13,627	14,030	14,573	14,497	13,958	12,979	12,897	13,261	12,754	11,539	12,578
Indiana.....	3,541	3,657	3,862	3,763	3,858	3,709	3,445	2,629	3,018	3,225	3,770	3,690	3,870
Iowa.....	790	913	987	974	950	952	904	842	753	520	513	551	624
Kansas.....	52	51	53	55	49	48	56	58	56	53	50	49	46
Kentucky.....	410	411	405	405	404	400	376	391	410	410	426	433	436
Massachusetts.....	122	144	158	161	162	159	154	94	72	49	88	109	117
Michigan.....	613	620	781	775	686	652	599	600	598	444	424	573	602
Minnesota.....	651	672	688	758	761	743	690	616	549	507	605	607	613
Missouri.....	118	205	227	153	168	182	127	86	70	47	45	56	55
Nebraska.....	162	160	162	163	148	131	134	147	173	178	181	183	185
New Jersey.....	38	56	56	49	50	51	25	15	15	15	19	48	56
New York.....	1,947	2,135	2,141	2,159	2,169	2,013	1,881	1,694	1,530	1,640	1,953	2,076	1,973
North Carolina.....	310	291	287	287	281	291	302	302	315	332	350	346	338
Ohio.....	1,504	1,483	1,593	1,632	1,614	1,542	1,435	1,460	1,422	1,485	1,545	1,360	1,476
Pennsylvania.....	553	582	584	585	533	542	550	459	484	556	585	616	621
Tennessee.....	311	337	339	335	340	329	288	242	262	291	318	280	366
Texas.....	90	105	109	107	106	86	66	58	62	62	98	108	107
Virginia.....	302	319	320	311	274	289	287	256	264	281	344	341	338
Washington.....	53	32	38	46	58	81	75	78	65	48	44	31	38
Wisconsin.....	2,218	2,382	2,547	2,614	2,528	2,498	2,329	2,027	2,038	1,951	1,802	1,904	1,993

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	317
Reporting expenditures for plant and equipment.....	194
Value of products:	
Total for the industry.....	\$167,895,292
Reporting expenditures for plant and equipment.....	159,990,378
Expenditures for plant and equipment:	
Total for the industry.....	2,734,413
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	834,040
Expenditures for new machinery and operating equipment.....	1,758,649
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	141,724

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$95,266,384	\$112,334,800
Finished products.....	50,725,318	42,654,800
Materials, supplies, etc.....	44,541,066	69,680,000
End of year, total.....	88,462,425	99,796,703
Finished products.....	47,444,133	44,018,453
Materials, supplies, etc.....	41,018,292	55,778,250
Value of products for the industry, total.....	167,895,292	225,044,035
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	167,584,554	223,496,615
Value for establishments not reporting inventories.....	310,738	1,547,420

AGRICULTURAL MACHINERY (EXCEPT TRACTORS)

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TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 ¹

	1939		1939
Number of establishments.....	317	Prime movers—Continued.	
Number of establishments reporting power equipment.....	317	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Diesel and semi-Diesel engines—	
Number.....	259	Number.....	2
Horsepower.....	45,828	Horsepower.....	160
Prime movers, driving generators, total—		Other internal-combustion engines ² —	
Number.....	84	Number.....	56
Horsepower.....	39,271	Horsepower.....	1,129
Steam engines—		Hydroturbines and water wheels—	
Number.....	42	Number.....	61
Horsepower.....	15,084	Horsepower.....	678
Steam turbines—		Prime movers not driving generators, ordinarily idle (included above), horsepower.....	78
Number.....	19	Generators, kilowatt rating, total.....	26,890
Horsepower.....	20,719	Generators, driven by—	
Diesel and semi-Diesel engines—		Steam engines, kilowatt rating.....	10,045
Number.....	7	Steam turbines, kilowatt rating.....	14,275
Horsepower.....	910	Diesel and semi-Diesel engines, kilowatt rating.....	632
Other internal-combustion engines ² —		Other internal-combustion engines, ² kilowatt rating.....	63
Number.....	2	Hydroturbines and water wheels, kilowatt rating.....	1,875
Horsepower.....	86	Generators, ordinarily idle (included above), kilowatt rating.....	483
Hydroturbines and water wheels—		Electric motors, total:	
Number.....	14	Number.....	17,457
Horsepower.....	2,472	Horsepower.....	132,601
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	543	Driven by purchased energy—	
Prime movers not driving generators, total—		Number.....	11,988
Number.....	175	Horsepower.....	90,037
Horsepower.....	6,557	Driven by energy generated in establishments reporting—	
Steam engines—		Number.....	5,469
Number.....	35	Horsepower.....	42,564
Horsepower.....	3,625	Electric energy (kilowatt-hours):	
Steam turbines—		Generated in plant.....	24,223,922
Number.....	21	Sold.....	383,325
Horsepower.....	965	Purchased.....	62,021,656

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

CONSTRUCTION AND SIMILAR MACHINERY (EXCEPT MINING AND OIL-FIELD MACHINERY AND TOOLS)

[A preliminary report for this industry was issued December 31, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of heavy machinery used by the construction industries for portable or fixed plant operation in dredging (including mining dredges), excavating, and road-building. Road-maintenance machinery (such as sweepers and snow plows) are also included in this classification. Well-drilling machinery is treated as a product of the "Industrial machinery, not elsewhere classified" industry. Establishments engaged primarily in the manufacture of mining machinery have been assigned to the "Mining machinery and equipment" industry and those engaged primarily in the manufacture of oil-field machinery and tools have been assigned to the "Oil-field machinery and tools" industry.

Statistics for prior census years.—The scope of the industry classification has been changed from that of 1937 because of the addition of data for establishments

manufacturing concrete mixers, formerly a product of the "Machinery not elsewhere classified" industry. The figures for 1937 have been revised by including data for establishments manufacturing concrete mixers as their primary product.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	199	17,259	\$25,198,311	\$63,376,072	\$140,137,586	\$76,761,514	16,782
1937 ⁴	177	20,045	29,779,366	67,964,661	147,901,544	79,936,883	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable figures for earlier years.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Illinois	Indiana	Iowa	Michigan	Minnesota
Number of establishments ¹	199	17	20	8	9	13	9
Proprietors and firm members.....	53	9	1	—	2	3	3
Persons reported by manufacturing establishments, total ²	23,216	615	2,728	1,056	867	1,884	855
Salaried officers of corporations ²	350	18	38	17	16	22	14
Manufacturing:							
Salaried employees ²	3,796	79	256	228	112	378	181
Wage earners (average for the year) ³	17,259	461	2,138	788	662	1,386	592
Distribution.....	1,504	46	269	23	77	90	68
Construction.....	204	1	22	—	—	3	—
Other.....	103	10	5	—	—	5	—
Salaries and wages, total ²	\$38,470,010	\$938,778	\$4,971,856	\$1,685,179	\$1,349,843	\$3,072,494	\$1,452,602
Salaried officers ²	2,443,958	66,699	313,456	103,939	112,185	215,536	87,723
Manufacturing:							
Salaries ²	6,990,308	137,233	614,139	372,717	187,586	681,656	329,114
Wages.....	25,198,311	685,200	3,329,034	1,157,439	933,217	2,027,130	871,009
Distribution.....	3,457,109	92,381	630,026	51,084	116,855	138,105	164,756
Construction.....	267,711	1,800	74,598	—	—	5,041	—
Other.....	112,613	5,465	10,603	—	—	5,026	—
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	63,376,072	2,299,489	9,143,740	3,124,886	2,849,371	4,746,779	2,005,252
Materials and supplies.....	60,429,972	1,628,865	8,935,974	3,032,806	2,790,024	4,599,700	1,921,541
Fuel.....	990,082	16,110	120,414	35,884	18,055	49,636	40,139
Purchased electric energy.....	1,017,171	33,061	76,388	55,996	41,292	90,847	43,572
Contract work.....	938,847	621,453	10,964	200	—	6,596	—
Value of products.....	140,137,586	4,290,375	20,758,148	6,689,273	6,161,626	9,844,228	4,166,550
Value added by manufacture ⁴	76,761,514	1,990,886	11,614,408	3,564,387	3,312,255	5,097,449	2,161,298

See footnotes at end of table.

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

ITEM	New Jersey	New York	Ohio	Pennsyl- vania	Washing- ton	Wisconsin	Other States ⁶
Number of establishments ¹	5	15	37	16	6	19	25
Proprietors and firm members.....	5	5	10	3	3	4	13
Persons reported by manufacturing establishments, total ²	610	842	6,130	1,056	365	5,150	1,059
Salaried officers of corporations ²	16	22	90	23	12	25	37
Manufacturing:							
Salaried employees ²	171	199	905	182	15	940	150
Wage earners (average for the year) ²	406	536	4,534	826	314	3,949	668
Distribution.....	17	75	557	22	18	150	92
Construction.....		7	13		2	48	108
Other.....		3	31	3	4	38	4
Salaries and wages, total ²	\$965,468	\$1,374,462	\$10,225,683	\$1,573,798	\$745,276	\$8,555,038	\$1,509,533
Salaried officers ²	88,069	104,568	758,625	91,704	83,744	182,388	235,322
Manufacturing:							
Salaries ²	203,860	352,728	1,794,229	289,121	28,088	1,835,100	164,737
Wages.....	652,332	728,549	6,223,472	1,155,535	590,813	6,001,825	842,755
Distribution.....	21,207	175,095	1,364,198	36,656	35,234	419,354	209,128
Construction.....		10,741	19,341		1,973	98,097	50,120
Other.....		2,781	65,818	782	2,424	18,244	1,470
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	1,482,349	1,722,670	18,261,543	2,215,459	992,132	12,443,949	2,088,453
Materials and supplies.....	1,437,894	1,677,860	17,458,449	2,122,327	948,134	11,858,957	2,017,441
Fuel.....	14,114	24,921	233,375	57,674	24,519	329,837	25,404
Purchased electric energy.....	30,341	18,920	348,582	32,395	15,288	196,156	39,333
Contract work.....		969	226,137	3,063	4,191	58,999	6,275
Value of products.....	2,904,424	4,420,132	36,967,862	7,166,219	1,887,776	30,220,166	4,660,807
Value added by manufacture ⁴	1,422,075	2,697,462	18,706,319	4,950,760	895,644	17,776,217	2,572,354

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Colorado, 1 establishment; Georgia, 1; Idaho, 1; Kansas, 2; Maine, 1; Maryland, 1; Massachusetts, 2; Missouri, 2; Nebraska, 1; Oklahoma, 1; Oregon, 3; South Carolina, 1; Tennessee, 4; Texas, 3; Vermont, 1.

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

	1939	1937
Construction and Similar Machinery (Except Mining and Oil-Field Machinery and Tools) industry, all products, total value.....	\$140,137,586	\$147,901,544
Cranes, dredging, excavating, road-building, and similar machinery, and parts and attachments, made in this industry.....	113,875,242	128,994,265
Miscellaneous products not specified.....	1,871,574	14,925,962
Other products (not classified in this industry).....	18,368,046	3,981,317
Receipts for contract and repair work.....	6,022,724	
Construction and similar machinery (except mining and oil-field machinery and tools), total value.....	135,941,966	158,878,688
Construction and similar machinery made in this industry.....	113,875,242	128,994,265
Construction and similar machinery made as secondary products in other industries:		
Made as secondary products within the machinery group.....	16,313,729	29,884,423
Made as secondary products outside the machinery group.....	5,752,995	

¹ Chiefly value of metal-working machinery, conveying and coal-handling machinery, fabricated steel, electric welding machinery, trucks, wheelbarrows, etc.

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

PRODUCT	1939		1937, ¹ value
	Num- ber	Value	
Construction and similar machinery, parts and attachments, total value.....		\$135,941,966	\$158,878,688
Dredging, excavating, road-building, and road-maintenance machinery, parts and attachments:			
Dredging machinery—			
Hydraulic—			
Number reported.....	371	1,111,225	
Number not reported.....		144,534	
Other—			
Number reported.....	66	1,603,979	4,885,470
Number not reported.....		281,170	
Attachments and parts.....		770,686	(¹)
Excavating machinery—			
Power shovels—			
Capacity of dipper (cu. yd.)—			
Under 1 cubic yard.....	1,447	11,074,587	(¹)
1 cubic yard and over.....	803	13,775,003	(¹)
Attachments and parts.....		5,490,034	(¹)

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

PRODUCT	1939		1937, ¹ value
	Num- ber	Value	
Dredging, excavating, etc., machinery—Con.			
Cranes, crawler type.....	313	\$4,105,325	\$4,316,875
Draglines.....	355	6,154,333	
Trench excavators—			
Ditching machines.....	163	1,084,284	
Other—			
Number reported.....	62	534,328	
Number not reported.....		289,360	
Attachments and parts.....		1,338,176	
Other excavating machinery.....		212,475	
Scrapers—			
Tractor-drawn—			
Wheel—			
5 cubic yard capacity and under.....	942	914,898	
Over 5 cubic yard capacity.....	1,958	5,783,907	
Drag—			
Number reported.....	650	522,016	
Number not reported.....		338,520	
Horse-drawn, drag and wheel type—			
Number reported.....	15,905	92,264	
Number not reported.....		446,916	
Attachments and parts.....		259,859	
Bulldozers, angledozers, and trail-builders.....	5,047	4,242,238	\$78,849,207
Graders—			
Motor patrol.....	1,647	5,617,419	
Heavy tractor-drawn.....	399	518,479	
Other blade graders—			
Number reported.....	1,109	978,047	
Number not reported.....		46,791	
Other.....	628	452,411	
Attachments and parts.....		1,311,515	
Stone crushers and pulverizers—			
Number reported.....	682	2,310,523	
Number not reported.....		2,409,075	
Mixers—			
Concrete—			
Number reported.....	10,356	5,707,356	
Number not reported.....		760,870	
Stone, gravel, sand, clay, and bitumen—			
Number reported.....	299	250,273	
Number not reported.....		162,662	
Heaters, stone, sand, or bitumen—			
Number reported.....	4,196	95,490	
Number not reported.....		98,800	

See footnote at end of table.

CENSUS OF MANUFACTURES: 1939

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

PRODUCT	1939		1937, ¹ value
	Num- ber	Value	
Dredging, excavating, etc., machinery—Con. Spreaders—			
Stone, gravel, sand, etc.—			
Number reported	914	\$454,675	
Number not reported		31,435	
Concrete and bitumen—			
Number reported	76	410,238	
Number not reported		330,398	
Finishers, tampers, vibrators, etc.—			
Number reported	112	321,913	
Number not reported		49,989	
Sprayers and sprinklers for street or highway use—			
Bituminous material	223	409,238	
Other—			
Number reported	82	117,794	
Number not reported		183,000	
Road rollers (self-propelled)	899	2,836,820	
Sheep's-foot rollers	266	230,764	
Road rippers and scarifiers	374	274,706	
Road sweepers	350	586,964	
Snow plows (rotary and other)—			
Number reported	3,279	1,860,800	
Number not reported		457,279	

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

PRODUCTS	1939		1937, ¹ value
	Num- ber	Value	
Cranes (other than crawler)—			
Locomotive	101	\$1,605,609	\$2,969,671
Overhead traveling—			
Number reported	1,099	5,573,552	12,246,681
Number not reported		697,523	378,272
Truck	118	769,381	
Stationary and other—			
Number reported	2,304	1,448,982	1,140,934
Number not reported		1,341,248	
Derricks—			
Number reported	31	217,528	
Number not reported		51,700	
Hoists and winches—			
Number reported	27,198	6,889,586	14,373,698
Number not reported		1,721,833	
Construction machinery, not reported by kind		14,305,463	14,707,975
Parts and attachments not reported as to kind and rebuilt machinery		11,473,710	25,009,845

¹ Comparable figures for 1937 cannot be given in detail because of the revision of the schedule used for 1939.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
United States:													
1939	17,259	15,473	16,062	16,263	16,564	16,745	17,185	17,464	17,517	17,593	18,282	18,775	19,186
1937	20,045	18,003	18,095	19,265	20,161	20,729	21,268	21,434	21,321	20,924	20,646	19,910	18,782
California	461	450	446	452	454	445	417	448	435	463	488	510	521
Illinois	2,138	1,885	1,942	1,978	2,079	2,115	2,200	2,207	2,250	2,249	2,274	2,218	2,254
Indiana	788	663	690	723	760	782	789	811	812	826	853	860	882
Iowa	662	594	553	541	660	682	741	752	742	720	701	637	626
Michigan	1,386	1,255	1,268	1,297	1,328	1,323	1,339	1,373	1,379	1,417	1,510	1,549	1,597
Minnesota	592	438	544	557	560	604	614	604	583	518	643	694	739
New Jersey	406	372	399	385	385	391	400	420	414	417	422	431	432
New York	536	516	552	542	513	472	502	513	541	536	528	590	631
Ohio	4,534	3,894	4,227	4,337	4,403	4,472	4,619	4,552	4,552	4,575	4,739	4,947	5,091
Oregon	145	139	153	145	144	145	140	138	139	147	149	155	142
Pennsylvania	826	892	849	863	851	810	772	793	790	795	805	834	857
Tennessee	137	111	107	111	132	146	172	168	156	119	127	147	146
Texas	69	49	51	51	61	67	67	63	61	59	59	55	61
Washington	314	286	305	294	294	286	305	291	328	353	359	352	316
Wisconsin	3,949	3,751	3,799	3,779	3,728	3,786	3,848	3,949	3,960	3,993	4,193	4,265	4,341

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	199
Reporting expenditures for plant and equipment	136
Value of products:	
Total for the industry	\$140,137,586
Reporting expenditures for plant and equipment	125,608,034
Expenditures for plant and equipment:	
Total for the industry	3,877,581
Expenditures for new construction or major alterations of build- ings and other fixed plant and structures	834,925
Expenditures for new machinery and operating equipment	2,846,703
Expenditures for plant and equipment acquired in a "used" con- dition from other owners and expenditures for land	195,953

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

	1939	1937
Inventories:		
Beginning of year, total	\$42,581,461	\$38,142,332
Finished products	16,111,584	19,124,600
Materials, supplies, etc.	26,469,877	19,018,732
End of year, total	48,591,504	48,664,155
Finished products	16,591,587	22,102,776
Materials, supplies, etc.	31,999,917	26,561,379
Value of products for the industry, total	140,137,586	147,901,544
Value for establishments reporting inventories (in- cludes value of products of establishments report- ing no inventories on hand)	139,803,337	147,492,758
Value for establishments not reporting inventories	334,249	408,786

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TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 ¹

	1939		1939
Number of establishments.....	199	Prime movers—Continued.	
Number of establishments reporting power equipment.....	197	Prime movers, not driving generators—Continued.	
Prime movers, aggregate:		Other internal-combustion engines ¹ —	
Number.....	91	Number.....	4
Horsepower.....	16,782	Horsepower.....	160
Prime movers, driving generators, total—		Hydroturbines and water wheels—	
Number.....	63	Number.....	1
Horsepower.....	15,365	Horsepower.....	60
Steam engines—		Prime movers not driving generators, ordinarily idle (included above), horsepower.....	10
Number.....	27	Generators, kilowatt rating, total.....	11,501
Horsepower.....	6,980	Generators, driven by—	
Steam turbines—		Steam engines, kilowatt rating.....	4,904
Number.....	7	Steam turbines, kilowatt rating.....	3,170
Horsepower.....	4,475	Diesel and semi-Diesel engines, kilowatt rating.....	3,347
Diesel and semi-Diesel engines—		Other internal-combustion engines, ¹ kilowatt rating.....	80
Number.....	28	Generators, ordinarily idle (included above), kilowatt rating.....	2,885
Horsepower.....	3,760	Electric motors, total:	
Other internal-combustion engines ² —		Number.....	15,749
Number.....	1	Horsepower.....	131,470
Horsepower.....	150	Driven by purchased energy—	
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	3,850	Number.....	12,109
Prime movers not driving generators, total—		Horsepower.....	102,966
Number.....	28	Driven by energy generated in establishments reporting—	
Horsepower.....	1,417	Number.....	3,640
Steam engines—		Horsepower.....	28,504
Number.....	22	Electric energy (kilowatt-hours):	
Horsepower.....	1,117	Generated in plant.....	18,482,505
Diesel and semi-Diesel engines—		Purchased.....	65,714,041
Number.....	1		
Horsepower.....	80		

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

OIL-FIELD MACHINERY AND TOOLS

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of machinery and tools for use in oil and gas fields. They were formerly assigned to the "Machinery not elsewhere classified" and "Machine-shop products" industries but were given a separate classification for the first time at the census for 1939. Figures for 1937 are the result of a retabulation to obtain figures comparable with those for 1939.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	223	12,524	\$18,740,996	\$31,304,546	\$88,977,327	\$57,672,781	10,921
1937 ⁴	179	16,347	25,248,455	48,644,223	126,666,047	78,021,824	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable figures for earlier years.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Illinois	Kansas	Louisiana	Ohio	Oklahoma	Pennsylvania	Texas	Other States ¹
Number of establishments ²	223	56	3	9	4	10	41	21	65	14
Proprietors and firm members.....	93	33	-----	1	1	2	19	8	24	5
Persons reported by manufacturing establishments, total ³	16,815	3,369	107	701	138	1,050	1,527	1,319	7,928	677
Salaried officers of corporations ³	241	63	2	14	1	5	38	15	80	23
Manufacturing:										
Salaried employees ³	2,297	515	15	37	12	153	184	216	1,085	75
Wage earners (average for the year) ⁴	12,524	2,162	85	503	112	856	1,215	1,046	6,003	543
Distribution.....	1,545	605	4	118	13	30	72	34	634	35
Construction.....	160	11	-----	24	-----	-----	13	2	110	-----
Other.....	48	13	1	5	-----	1	5	6	16	1
Salaries and wages, total ³	\$28,940,301	\$6,550,543	\$157,412	\$966,710	\$222,386	\$1,691,841	\$2,245,528	\$1,825,161	\$14,333,756	\$946,964
Salaried officers ³	1,802,143	490,458	7,000	74,338	11,300	51,400	149,297	70,576	844,678	103,096
Manufacturing:										
Salaries ³	4,841,908	1,069,900	26,526	75,413	28,185	368,897	372,074	421,255	2,310,540	169,118
Wages.....	18,740,996	3,703,713	119,386	606,619	158,281	1,198,927	1,536,345	1,248,345	9,563,551	605,829
Distribution.....	3,306,870	1,243,172	4,000	191,956	24,620	72,305	168,316	74,145	1,460,035	68,321
Construction.....	193,583	23,427	-----	17,030	-----	-----	14,994	4,695	133,437	-----
Other.....	54,801	19,873	500	1,354	-----	312	4,502	6,145	21,515	600
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	31,304,546	5,898,181	194,343	1,460,075	330,094	2,562,467	3,692,101	2,864,775	12,659,844	1,642,666
Materials and supplies.....	29,646,801	5,537,255	186,214	1,417,647	309,322	2,351,934	3,559,695	2,655,481	12,049,460	1,579,793
Fuel.....	551,342	73,816	4,364	11,110	4,992	106,622	44,253	131,669	142,575	31,941
Purchased electric energy.....	978,956	226,058	3,765	31,318	15,780	75,736	80,547	77,067	440,325	28,360
Contract work.....	127,447	61,052	-----	-----	-----	28,175	7,606	558	27,484	2,572
Value of products.....	88,977,327	19,525,054	478,536	3,546,634	793,701	6,073,164	8,523,190	5,616,094	41,149,017	3,271,937
Value added by manufacture ⁵	57,672,781	13,626,873	284,193	2,086,559	463,607	3,510,697	4,831,089	2,751,319	28,489,173	1,629,271

¹ Indiana, 1 establishment; Kentucky, 1; Michigan, 1; Missouri, 3; Tennessee, 1; West Virginia, 7.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

OIL-FIELD MACHINERY AND TOOLS

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TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937¹

	1939	1937 ¹
Oil-Field Machinery and Tools industry, all products, total value.....	\$88,977,327	\$126,666,047
Oil-field machinery, tools, equipment, and parts and attachments made in this industry.....	80,018,598	119,900,648
Miscellaneous products not specified.....	306,064	3,415,450
Other products (not classified in this industry).....	2,456,416	3,349,940
Receipts for contract and repair work.....	6,196,249	
Oil-field machinery, tools, equipment, and parts and attachments, total value....	² 82,634,255	⁴ 121,880,813
Oil-field machinery, tools, equipment, and parts and attachments made in this industry.....	80,018,598	119,900,648
Oil-field machinery, tools, equipment, and parts and attachments made as secondary products in other industries, total.....	2,615,657	1,980,165
Made within the machinery group.....	1,764,861	
Made outside the machinery group.....	850,796	1,980,165

¹ The figures for 1937 include those for well-drilling machinery other than oil-well and are, therefore, not strictly comparable.

² Chiefly value of fabricated pipe, pipe fittings, valves, and castings.

³ Of this amount, \$81,861,765 represents the value of oil-field machinery tools and equipment and \$772,490 the value of parts and attachments.

⁴ Of this amount, \$120,987,976 represents the value of oil-field machinery and equipment and \$892,837 the value of parts and attachments.

TABLE 4.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	12,524	12,354	12,358	12,384	12,158	12,084	12,149	12,246	12,484	12,533	12,902	13,233	13,407
1937.....	16,347	13,899	14,438	15,151	16,005	16,626	17,196	17,524	17,495	17,506	17,185	16,678	16,458
California.....	2,162	1,957	1,969	2,032	2,056	2,086	2,117	2,157	2,290	2,277	2,353	2,319	2,327
Illinois.....	85	95	77	84	86	84	85	82	84	84	86	84	85
Kansas.....	503	483	503	519	512	494	506	511	555	501	476	493	483
Louisiana.....	112	116	110	112	112	113	109	107	106	112	113	123	108
Missouri.....	84	79	82	84	86	74	77	72	79	79	96	97	100
Ohio.....	866	899	872	745	762	794	787	828	835	838	962	977	971
Oklahoma.....	1,215	1,149	1,164	1,202	1,237	1,265	1,240	1,218	1,206	1,194	1,178	1,248	1,281
Pennsylvania.....	1,046	1,095	1,115	1,091	996	915	1,002	1,051	1,032	1,032	1,033	1,086	1,108
Texas.....	6,003	6,023	6,024	6,073	5,870	5,808	5,774	5,765	5,841	5,943	6,122	6,324	6,464
West Virginia.....	297	307	286	287	283	288	290	303	306	305	303	304	304

TABLE 5.—OIL-FIELD MACHINERY AND TOOLS—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	4,352	\$94,155
Scrap iron and steel, purchased as such.....	19,813	175,983

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	223
Reporting expenditures for plant and equipment.....	138
Value of products:	
Total for the industry.....	\$88,977,327
Reporting expenditures for plant and equipment.....	80,279,515
Expenditures for plant and equipment:	
Total for the industry.....	3,269,326
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	639,425
Expenditures for new machinery and operating equipment.....	2,284,013
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	345,088
Expenditures unclassified.....	800

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$30,024,477	\$24,857,956
Finished products.....	17,355,972	13,181,382
Materials, supplies, etc.....	12,668,505	11,676,574
End of year, total.....	30,989,150	31,019,964
Value of products for the industry, total.....	88,977,327	126,666,047
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	88,493,930	124,352,642
Value for establishments not reporting inventories.....	483,397	2,313,405

CENSUS OF MANUFACTURES: 1939

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939		1939
Number of establishments.....	223	Prime movers—Continued.	
Number of establishments reporting power equipment.....	222	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Steam turbines—	
Number.....	61	Number.....	3
Horsepower.....	10,921	Horsepower.....	510
Prime movers, driving generators, total—		Internal-combustion engines, ² other than Diesel and semi-Diesel—	
Number.....	25	Number.....	28
Horsepower.....	8,455	Horsepower.....	1,546
Steam engines—		Prime movers not driving generators, ordinarily idle (included above), horsepower.....	200
Number.....	5	Generators, kilowatt rating, total.....	5,419
Horsepower.....	785	Generators, driven by—	
Steam turbines—		Steam engines, kilowatt rating.....	597
Number.....	2	Steam turbines, kilowatt rating.....	3,089
Horsepower.....	5,000	Diesel and semi-Diesel engines, kilowatt rating.....	775
Diesel and semi-Diesel engines—		Other internal-combustion engines, ² kilowatt rating.....	967
Number.....	6	Generators, ordinarily idle (included above), kilowatt rating.....	682
Horsepower.....	1,130	Electric motors, total:	
Other internal-combustion engines ² —		Number.....	12,781
Number.....	12	Horsepower.....	92,924
Horsepower.....	1,540	Driven by purchased energy—	
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,025	Number.....	11,906
Prime movers not driving generators, total—		Horsepower.....	84,520
Number.....	36	Driven by energy generated in establishments reporting—	
Horsepower.....	2,466	Number.....	875
Steam engines—		Horsepower.....	8,404
Number.....	5	Electric energy (kilowatt-hours):	
Horsepower.....	416	Generated in plant.....	4,263,739
		Sold.....	2,916,115
		Purchased.....	77,015,752

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

MINING MACHINERY AND EQUIPMENT

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of machinery and equipment for use in mining, including mine hoists, conveyors, ore-crushing and stamping-mill machinery; flotation and concentration machinery; screeners; mining cars and trucks; coal-sawing machinery; coal breakers, etc. These establishments were formerly assigned to the "Machinery not elsewhere classified" industry but were given a separate classification for the first time at the census for 1939. Figures for 1937 are the result of a retabulation to obtain figures comparable with those for 1939.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939	65	4,940	\$6,276,899	\$15,374,068	\$33,558,909	\$18,184,841	6,927
1937	46	5,153	7,627,148	12,611,482	34,102,664	21,491,182	(⁴)

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

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

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

ITEM	United States	California	Colorado	Missouri	Pennsylvania	Washington	West Virginia	Other States ¹
Number of establishments ²	65	8	5	5	12	3	4	28
Proprietors and firm members	17	6	1	2	2	1	—	5
Persons reported by manufacturing establishments, total ³	6,901	136	161	115	1,003	194	455	4,837
Salaried officers of corporations ³	114	7	6	4	20	5	11	61
Manufacturing:								
Salaried employees ³	1,093	22	11	16	96	18	41	889
Wage earners (average for the year) ⁴	4,940	74	112	86	773	137	365	3,393
Distribution	708	17	32	9	114	14	38	484
Construction	20	16	—	—	—	4	—	10
Other	26	—	—	—	—	16	—	—
Salaries and wages, total ³	\$10,644,810	\$254,987	\$277,110	\$126,256	\$1,472,311	\$367,088	\$651,228	\$7,495,830
Salaried officers ³	738,840	26,900	48,846	16,880	120,137	69,729	50,514	405,834
Manufacturing:								
Salaries ³	2,188,455	55,076	22,088	17,614	190,393	36,882	135,788	1,730,614
Wages	6,276,899	130,805	138,608	81,425	937,281	195,333	406,820	4,386,627
Distribution	1,391,066	39,033	67,568	10,337	224,500	32,618	58,106	958,904
Construction	8,907	3,173	—	—	—	5,734	—	13,851
Other	40,643	—	—	—	—	26,792	—	—
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	15,374,068	440,425	632,112	153,752	3,778,434	645,927	1,000,818	8,722,600
Materials and supplies	14,766,445	429,473	619,226	147,244	3,695,299	629,530	966,844	8,278,829
Fuel	298,202	968	4,542	2,655	46,519	8,117	11,420	223,981
Purchased electric energy	269,390	5,430	6,344	3,853	36,486	8,280	22,554	176,443
Contract work	50,031	4,554	2,000	—	130	—	—	43,347
Value of products	33,558,909	907,818	1,115,380	345,830	6,654,856	1,023,159	2,021,154	21,490,712
Value added by manufacture ⁵	18,184,841	467,393	483,268	192,078	2,876,422	377,232	1,020,336	12,768,112

¹ Alabama, 1 establishment; Illinois, 5; Indiana, 1; Iowa, 3; Kansas, 2; Kentucky, 1; Michigan, 2; New Hampshire, 1; Ohio, 7; Tennessee, 1; Texas, 1; Utah, 2; Wisconsin, 1.
² See GENERAL EXPLANATIONS—Definition of establishment.
³ See GENERAL EXPLANATIONS—Persons engaged—general classification.
⁴ See GENERAL EXPLANATIONS—Wage earners and wages.
⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

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

	1939	1937
Mining Machinery and Equipment industry, all products, total value	\$33,558,909	\$34,102,664
Mining machinery, equipment, parts and attachments, made in this industry	29,399,717	27,847,763
Miscellaneous products not specified	222,806	5,888,511
Other products (not classified in this industry)	12,790,480	—
Receipts for contract and repair work	1,145,956	386,390
Mining machinery, equipment, parts and attachments, total value	39,910,225	39,404,379
Mining machinery, equipment, parts and attachments made in this industry	29,399,717	27,847,763
Mining machinery made as secondary products in other industries:		
Made as secondary products within the machinery group	8,731,791	—
Made as secondary products outside the machinery group	1,778,717	11,556,616

¹ Chiefly value of mining locomotives, castings, power transmission machinery and equipment, and miscellaneous machinery.

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

	1939	1937
Total value	\$39,910,225	\$39,404,379
Mining machinery (not including well-drilling or dredging)	\$34,380,311	—
Ore-crushing or stamping-mill machinery	\$1,264,143	—
Mining cars and trucks:		
Number reported—		
Number	12,006	—
Value	\$2,202,260	—
Number not reported, value	\$1,486,289	—
Parts and attachments	\$577,222	\$1,198,348

¹ Includes mine conveying and elevating machinery.

TABLE 5.—MINING MACHINERY AND EQUIPMENT—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939
 [This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron	4,702	\$119,569
Scrap iron and steel, purchased as such	9,339	133,424

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	4,940	4,918	4,793	4,682	4,596	4,555	4,676	4,760	4,886	4,997	5,394	5,441	5,588
1937.....	5,153	5,061	4,936	4,960	4,988	5,090	5,304	5,475	5,547	5,402	5,212	5,069	4,789
California.....	74	73	69	76	76	69	79	72	70	79	77	71	75
Colorado.....	112	95	103	106	110	117	125	113	110	118	114	117	110
Illinois.....	604	648	617	614	541	549	585	589	585	587	610	660	667
Iowa.....	87	79	70	83	93	93	92	82	93	90	91	93	89
Missouri.....	86	81	80	83	81	83	84	84	87	88	90	93	95
Ohio.....	1,528	1,614	1,593	1,548	1,417	1,394	1,400	1,416	1,476	1,547	1,613	1,620	1,607
Pennsylvania.....	773	740	734	669	710	698	715	738	759	807	871	902	932
Washington.....	137	149	127	134	138	132	133	148	154	138	127	129	137
West Virginia.....	365	340	332	350	342	323	331	356	381	407	410	390	420

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	65
Reporting expenditures for plant and equipment.....	46
Value of products:	
Total for the industry.....	\$33,558,909
Reporting expenditures for plant and equipment.....	31,773,562
Expenditures for plant and equipment:	
Total for the industry.....	491,758
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	75,483
Expenditures for new machinery and operating equipment.....	389,815
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	23,326
Expenditures unclassified.....	3,134

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$10,220,327	\$9,911,426
Finished products.....	6,447,404	5,802,136
Materials, supplies, etc.....	3,772,923	4,109,290
End of year, total.....	10,625,331	11,444,975
Finished products.....	5,670,786	7,199,200
Materials, supplies, etc.....	4,954,545	4,245,775
Value of products for the industry, total.....	33,558,909	34,102,664
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	32,634,885	32,634,885
Value for establishments not reporting inventories.....	924,024	924,024

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	65
Number of establishments reporting power equipment.....	63
Prime movers, aggregate:	
Number.....	24
Horsepower.....	6,927

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators, total—	
Number.....	18
Horsepower.....	6,252
Steam engines—	
Number.....	15
Horsepower.....	4,820
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	232
Other internal-combustion engines ² —	
Number.....	1
Horsepower.....	400
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	800
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,700
Prime movers not driving generators, total—	
Number.....	6
Horsepower.....	675
Steam engines—	
Number.....	4
Horsepower.....	635
Internal-combustion engines, ² other than Diesel and semi-Diesel—	
Number.....	2
Horsepower.....	40
Generators, kilowatt rating, total.....	4,501
Generators, driven by—	
Steam engines, kilowatt rating.....	3,845
Diesel and semi-Diesel engines, kilowatt rating.....	166
Other internal-combustion engines, ² kilowatt rating.....	300
Hydroturbines and water wheels, kilowatt rating.....	800
Generators, ordinarily idle (included above), kilowatt rating.....	1,155
Electric motors, total:	
Number.....	4,391
Horsepower.....	38,349
Driven by purchased energy—	
Number.....	3,052
Horsepower.....	26,879
Driven by energy generated in establishments reporting—	
Number.....	1,339
Horsepower.....	11,470
Electric energy (kilowatt-hours):	
Generated in plant.....	3,931,570
Purchased.....	15,821,986

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

MACHINE TOOLS

[A preliminary report for this industry was issued Sept. 25, 1940]

Description of the industry.—The Machine Tools industry embraces establishments primarily engaged in the manufacture of power-driven complete metalworking machines not portable by hand, having one or more tool and work holding devices, used for progressively removing the metal in the form of chips. It also includes honing machines, lapping machines, and grinders.

The industry classification, Machine Tools, as used in prior censuses, covered establishments engaged in the manufacture of metalworking machinery such as bending machines, die-casting machines, forging machines, presses, punching machines, and portable metalworking tools. These establishments are now classified in the Metalworking Machinery and Equipment, not Elsewhere Classified industry. The figures

for 1937 as given in this report have been adjusted in accordance with this change in industry classification.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	200	36,624	\$62,333,150	\$63,866,133	\$218,044,728	\$154,178,595	20,030
1937 ⁴	205	37,477	62,609,680	59,515,139	202,738,561	143,223,422	(5)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Revised.

⁵ Not called for on schedule.

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

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

ITEM	United States	Connecticut	Illinois	Indiana	Massachusetts	Michigan	New Jersey	New York	Ohio	Vermont	Wisconsin	Other States ¹
Number of establishments ²	200	21	20	5	23	20	5	15	51	4	12	24
Proprietors and firm members.....	19	3	1	—	2	—	—	1	5	—	3	4
Persons reported by manufacturing establishments, total ³	47,675	5,807	3,448	1,233	4,842	3,347	613	2,569	13,535	2,323	2,802	7,156
Salaried officers of corporations ⁴	495	66	51	15	56	53	12	31	106	16	29	60
Manufacturing:												
Salaried employees ⁵	7,725	911	585	160	950	403	78	382	2,156	400	452	1,248
Wage earners (average for the year) ⁶	36,624	4,530	2,595	879	3,569	2,650	492	2,009	10,807	1,720	2,206	5,167
Distribution.....	2,050	286	198	137	195	168	31	140	397	101	115	282
Construction.....	320	—	17	12	7	24	—	—	2	81	—	177
Other.....	461	14	2	30	65	49	—	7	67	5	—	222
Salaries and wages, total ⁷	\$90,776,404	\$11,814,059	\$6,510,641	\$2,331,464	\$9,042,290	\$7,157,160	\$1,182,502	\$5,526,851	\$25,339,953	\$4,089,661	\$5,717,594	\$12,064,229
Salaried officers ⁸	5,099,246	683,998	554,543	150,496	590,402	543,824	83,850	265,991	1,114,094	276,375	246,620	589,053
Manufacturing:												
Salaries ⁹	16,546,460	1,989,282	1,321,213	363,557	1,787,638	1,044,043	210,468	1,006,731	4,817,421	908,095	861,521	2,236,491
Wages.....	62,333,150	8,087,515	4,068,482	1,434,968	6,013,687	4,997,184	810,957	3,959,305	18,321,943	2,317,722	4,188,131	8,133,306
Distribution.....	5,603,332	1,036,687	538,842	312,006	548,298	413,204	77,227	288,733	1,001,650	431,518	421,322	583,845
Construction.....	519,257	—	24,562	17,845	12,559	31,425	—	—	3,000	143,072	—	286,704
Other.....	674,959	16,577	2,999	52,592	89,706	127,530	—	6,091	81,845	12,879	—	284,740
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	63,866,133	5,692,807	5,170,141	1,604,510	6,914,587	6,480,493	681,043	3,619,977	20,325,748	2,984,938	3,615,837	6,776,052
Materials, supplies, and containers.....	59,940,248	5,274,862	4,931,409	1,530,917	6,533,058	6,112,083	642,361	3,424,534	19,012,376	2,828,821	3,278,406	6,371,421
Fuel.....	1,109,910	171,086	92,395	24,833	80,297	61,848	7,818	98,696	303,330	35,387	90,513	143,707
Purchased electric energy.....	1,507,801	208,598	96,766	48,760	183,677	121,233	27,060	81,518	470,376	78,727	45,424	145,662
Contract work.....	1,308,174	38,261	49,571	—	117,555	185,329	3,804	15,229	539,666	42,003	201,494	115,262
Value of products.....	218,044,728	23,665,993	15,665,667	5,924,994	24,590,740	16,902,428	2,118,880	13,038,749	65,510,412	11,617,917	13,524,297	25,484,651
Value added by manufacture ¹⁰	154,178,595	17,973,186	10,495,526	4,320,484	17,676,153	10,421,935	1,437,837	9,418,772	45,184,664	8,632,979	9,908,460	18,708,599

¹ California, 1 establishment; Iowa, 1; Kentucky, 2; Maryland, 1; Minnesota, 2; Missouri, 2; New Hampshire, 1; Pennsylvania, 11; Rhode Island, 3.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

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

	1939	1937
Machine Tools industry, all products, total value.....	\$218, 044, 728	\$202, 738, 561
Machine tools (including replacement and repair parts) made in this industry, value.....	171, 069, 221	160, 824, 958
Miscellaneous products not specified.....	435, 002	5, 183, 331
Receipts for contract and repair work.....	4, 532, 400	36, 730, 272
Other products (not classified in this industry).....	1 42, 008, 105	
Machine tools, aggregate value.....	181, 613, 334	169, 683, 240
Machine tools made in this industry.....	171, 069, 221	160, 824, 958
Machine tools made as secondary products in other industries:		
Made as secondary products in other industries within the Machinery (Except Electrical) group.....	8, 561, 250	8, 858, 282
Made as secondary products outside the Machinery (Except Electrical) group.....	1, 982, 863	

¹ Chiefly metalworking machinery, machine-tool accessories, and castings.

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

PRODUCT	1939	1937
Machine tools (including replacement and repair parts), aggregate value.....	\$181, 613, 334	\$169, 683, 240
Boring machines:		
Horizontal boring, drilling, and milling, combined—		
Number.....	341	326
Value.....	\$5, 253, 464	\$3, 798, 542
Vertical (not vertical boring mills)—		
Number.....	52	44
Value.....	\$285, 921	\$306, 498
Special types—		
Precision boring machines, including jig borers—		
Number.....	702	508
Value.....	\$2, 928, 355	\$2, 072, 640
Other types—		
Number.....	33	49
Value.....	\$434, 489	\$537, 067
Boring mills (vertical-work revolving, including vertical turret lathes):		
General-utility (59-inch table and under)—		
With side head—		
Number.....	312	447
Value.....	\$3, 245, 851	\$2, 962, 759
Without side head—		
Number.....		21
Value.....		\$198, 160
Heavy-duty (above 59-inch table), with or without side head—		
Number.....	53	61
Value.....	\$2, 018, 994	\$1, 184, 319
Broaching machines:		
Horizontal—		
Number.....	336	594
Value.....	\$1, 562, 144	\$2, 236, 683
Vertical—		
Number.....	134	
Value.....	\$733, 780	
Cutting-off machines:		
Bandsaw—		
Number.....	262, 292	\$298, 099
Value.....		
Hacksaw—		
Number.....	1, 418	2, 018
Value.....	\$590, 267	\$908, 357
Coldsaw—		
Number.....	28	223
Value.....	\$71, 467	\$518, 781
Other (including abrasive)—		
Number.....	139	
Value.....	\$197, 106	
Drilling machines:		
Vertical—		
Sensitive (bench type)—		
Single-spindle—		
Number.....	12, 027	
Value.....	\$535, 735	
Multiple-spindle—		
Number.....	164	24, 689
Value.....	\$439, 002	\$1, 172, 956
Sensitive (except bench type)—		
Single-spindle—		
Number.....	1, 152	
Value.....	\$368, 394	
Multiple-spindle—		
Number.....	457	779
Value.....	\$854, 882	\$1, 497, 584
Upright—		
Single-spindle—		
Number.....	693	593
Value.....	\$904, 759	\$943, 077
Multiple-spindle—		
Number.....	607	731
Value.....	\$1, 044, 272	\$2, 255, 491

¹ Data incomplete.

² Not called for on the schedule.

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

PRODUCT	1939	1937
Drilling machines—Continued.		
Way drills (vertical or horizontal)—		
Number.....	95	85
Value.....	\$1, 050, 991	\$1, 277, 892
Horizontal—		
Single-spindle—		
Number.....	64	
Value.....	\$131, 595	
Multiple-spindle—		
Number.....	131	(¹)
Value.....	\$1, 034, 161	\$1, 189, 730
Radial (plain and universal, including folding arm)—		
Number.....	798	1, 182
Value.....	\$3, 561, 037	\$4, 829, 392
Automatic (station types)—		
Number.....	34	
Value.....	\$280, 585	(¹)
Other (including drilling and tapping)—		
Number.....	778	\$4, 089, 507
Value.....	\$2, 167, 562	
Filing machines:		
Number.....	305	673
Value.....	\$56, 453	\$118, 276
Gear-cutting machines:		
Hobbing machines—		
Number.....	426	692
Value.....	\$2, 419, 662	\$3, 292, 954
Formed rotary-cutter type (spur and bevel)—		
Number.....	994	32
Value.....	\$7, 029, 430	\$181, 710
Generator and other—		
Number.....		1, 131
Value.....		\$7, 384, 948
Gear-chamfering machines:		
Number.....	139	
Value.....	\$462, 104	(²)
Gear-tooth grinding, shaving, or burnishing machines:		
Number.....	171	
Value.....	\$1, 331, 104	
Grinding machines:		
Cylindrical-external, plain—		
Number.....	1, 131	1, 155
Value.....	\$7, 012, 433	\$8, 186, 546
Cylindrical-internal—		
Number.....	1, 028	1, 004
Value.....	\$7, 372, 073	\$5, 864, 445
Cutter and tool (includes lathe and planer tool grinders)—		
Number.....	1, 433	
Value.....	\$2, 123, 283	
Drill—		
Number.....	975	1, 396
Value.....	\$808, 115	\$1, 862, 974
Disk, rotary or circular—		
Number.....	434	
Value.....	\$517, 673	
Universal—		
Number.....	569	661
Value.....	\$2, 386, 403	\$2, 110, 836
Surface—		
Horizontal—		
Number.....	2, 132	2, 067
Value.....	\$3, 217, 620	\$2, 896, 836
Vertical—		
Number.....	304	(¹)
Value.....	\$1, 518, 584	\$1, 444, 373
Tool or snagging (wet or dry, bench or pedestal) grinder—		
Number.....	(¹)	5, 824
Value.....	\$294, 082	\$493, 634
Other.....	\$5, 022, 274	\$5, 316, 939
Keyseaters (except broaching):		
Number.....	402	(¹)
Value.....	\$81, 359	(¹)
Honing machines:		
Number.....	357	
Value.....	\$1, 358, 571	147
Lapping machines:		
Number.....	218	\$692, 299
Value.....	\$514, 724	
Lathes:		
Bench (plain and screw-cutting)—		
Number.....	15, 191	14, 663
Value.....	\$2, 288, 434	\$1, 911, 181
Engine—		
General-utility—		
Capacity 16" swing and under—		
Number.....	4, 756	5, 782
Value.....	\$6, 817, 531	\$7, 256, 379
Capacity over 16" swing and including 22"—		
Number.....	1, 072	1, 142
Value.....	\$3, 382, 159	\$3, 212, 983
Capacity over 22" swing and including 36"—		
Number.....	470	278
Value.....	\$1, 866, 652	\$1, 720, 962
Heavy-duty, over 36" swing—		
Number.....	125	27
Value.....	\$1, 133, 033	\$376, 851
Gap—		
Number.....	134	32
Value.....	\$364, 297	\$141, 907

¹Not strictly comparable, did not include lathe and planer tool grinders.

²No comparable data.

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

PRODUCT	1939	1937
Lathes—Continued.		
Automatic single-spindle (horizontal or vertical):		
Bar (including screw machines)—		
Number.....	1,071	1,896
Value.....	\$3,908,951	\$6,313,866
Center type—		
Number.....	324	(1)
Value.....	\$1,720,627	\$704,944
Chucking—		
Number.....	501	713
Value.....	\$2,844,405	\$3,060,536
Automatic multiple-spindle (horizontal or vertical):		
Bar (including screw machines)—		
Number.....	751	1,027
Value.....	\$7,073,801	\$8,916,814
Chucking—		
Number.....	230	371
Value.....	\$3,061,409	\$4,720,165
Turret:		
Horizontal hand-operated—		
Ram type—		
Number.....	1,937	2,168
Value.....	\$7,467,835	\$6,654,278
Saddle type standard and heavy duty—		
Number.....	723	970
Value.....	\$5,483,167	\$6,877,897
Polishing and buffing (bench and pedestal)	\$267,914	
Other, including hand or speed.....	\$2,428,002	\$3,246,462
Milling machines:		
Power-feed—		
Automatic—		
Number.....	602	445
Value.....	\$2,104,471	\$1,186,475
Plain (including Lincoln type)—		
Number.....	1,833	1,372
Value.....	\$5,709,376	\$4,513,527
Universal—		
Number.....	1,032	1,096
Value.....	\$3,945,862	\$4,376,275
Vertical—		
Number.....	1,440	931
Value.....	\$5,875,411	\$4,141,625
Planer type—		
Number.....	126	208
Value.....	\$2,135,936	\$1,905,595
Other—		
Number.....	301	588
Value.....	\$3,236,012	\$3,119,186
Hand-feed—		
Number.....	(1)	421
Value.....	\$129,342	\$343,242
Planers:		
Standard (double housing)—		
36" and under—		
Number.....	21	(5)
Value.....	\$186,627	(5)

¹ Data incomplete.
² "Standard (double housing) 36" and under" included with "Other (including plate or scarfing machines)."

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

PRODUCT	1939	1937
Planers—Continued.		
Standard (double housing)—Continued.		
Over 36"—		
Number.....	59	40
Value.....	\$2,338,082	\$658,686
Open-side—		
Number.....	59	52
Value.....	\$962,587	\$567,628
Other (including plate or scarfing machines)—		
Number.....	22	44
Value.....	\$996,806	\$330,136
Shapers:		
Horizontal—		
20" stroke and under—		
Number.....	851	513
Value.....	\$959,671	\$870,765
Over 20" stroke and including 28"—		
Number.....	221	253
Value.....	\$578,065	\$619,003
Over 28" stroke—		
Number.....	91	127
Value.....	\$357,535	\$492,270
Threading machines:		
Other than pipe-threading—		
Die type and rolling type—		
Number.....	341	(1)
Value.....	\$608,024	\$1,238,322
Milling type—		
Number.....	206	154
Value.....	\$1,086,877	\$851,547
Tapping machines—		
Number.....	623	559
Value.....	\$767,350	\$559,946
Pipe-cutting and threading machines (single head, multiple head, etc.)—		
Number.....	1,073,489	\$1,529,383
Value.....	\$10,008,698	\$7,505,260
All other machine tools.....		
Replacements, and repair parts for machine tools for sale as such.....	\$10,173,135	\$7,636,916
Rebuilt machine tools reported separately.....	\$4,791,679	

TABLE 5.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	26,632	\$722,060
Scrap iron and steel, purchased as such.....	28,284	500,756

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	36,624	30,331	31,111	32,014	32,793	33,837	35,025	35,994	36,975	38,413	41,357	44,558	47,082
1937.....	37,477	33,720	34,708	35,708	36,639	37,258	38,162	38,540	38,975	39,635	39,809	38,872	37,701
Connecticut.....	4,530	3,933	4,071	4,173	4,066	4,188	4,281	4,349	4,472	4,675	5,067	5,411	5,668
Illinois.....	2,595	2,155	2,228	2,287	2,337	2,371	2,482	2,609	2,736	2,803	2,959	3,092	3,081
Indiana.....	879	759	707	727	746	772	797	810	852	937	1,047	1,149	1,242
Massachusetts.....	3,569	2,692	2,789	2,885	3,027	3,182	3,334	3,510	3,699	3,805	4,202	4,651	5,056
Michigan.....	2,650	2,189	2,247	2,331	2,420	2,491	2,552	2,639	2,673	2,777	2,953	3,155	3,379
New Jersey.....	492	420	423	449	469	477	482	485	493	496	552	561	592
New York.....	2,009	1,731	1,773	1,800	1,817	1,852	1,934	2,007	2,057	2,096	2,195	2,381	2,465
Ohio.....	10,807	9,190	9,393	9,653	9,902	10,199	10,418	10,619	10,616	11,102	11,951	12,999	13,740
Pennsylvania.....	1,411	1,136	1,145	1,175	1,201	1,239	1,366	1,462	1,563	1,560	1,601	1,696	1,784
Rhode Island.....	3,253	2,346	2,434	2,528	2,730	2,902	3,075	3,205	3,252	3,531	4,013	4,395	4,685
Vermont.....	1,720	1,410	1,435	1,492	1,512	1,567	1,647	1,710	1,790	1,833	1,954	2,035	2,261
Wisconsin.....	2,206	1,933	2,018	2,047	2,083	2,106	2,157	2,192	2,269	2,300	2,351	2,465	2,548

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	200
Reporting expenditures for plant and equipment.....	159
Value of products:	
Total for the industry.....	\$218, 044, 728
Reporting expenditures for plant and equipment.....	212, 638, 465
Expenditures for plant and equipment:	
Total for the industry.....	11, 939, 962
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	1, 988, 686
Expenditures for new machinery and operating equipment.....	9, 668, 018
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	283, 258

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$55, 589, 514	\$45, 401, 993
Finished products.....	24, 821, 746	17, 516, 692
Materials, supplies, etc.....	30, 767, 768	27, 885, 301
End of year, total.....	68, 543, 704	56, 665, 451
Finished products.....	24, 780, 123	20, 210, 779
Materials, supplies, etc.....	43, 763, 581	36, 454, 672
Value of products for the industry, total.....	218, 044, 728	202, 738, 561
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	217, 984, 451	201, 036, 000
Value for establishments not reporting inventories.....	60, 277	1, 702, 561

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	200
Number of establishments reporting power equipment.....	200
Prime movers, aggregate:	
Number.....	86
Horsepower.....	20, 030
Prime movers, driving generators, total—	
Number.....	69
Horsepower.....	18, 314
Steam engines—	
Number.....	50
Horsepower.....	13, 592

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators—Continued.	
Steam turbines—	
Number.....	5
Horsepower.....	2, 950
Diesel and semi-Diesel engines—	
Number.....	8
Horsepower.....	1, 070
Other internal-combustion engines ² —	
Number.....	4
Horsepower.....	402
Hydroturbines and water wheels—	
Number.....	2
Horsepower.....	300
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2, 242
Prime movers not driving generators, total—	
Number.....	17
Horsepower.....	1, 716
Steam engines—	
Number.....	8
Horsepower.....	1, 040
Steam turbines—	
Number.....	3
Horsepower.....	452
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	50
Other internal-combustion engines ² —	
Number.....	3
Horsepower.....	144
Hydroturbines and water wheels—	
Number.....	2
Horsepower.....	30
Generators, kilowatt rating, total.....	12, 694
Generators, driven by—	
Steam engines, kilowatt rating.....	9, 744
Steam turbines, kilowatt rating.....	1, 860
Diesel and semi-Diesel engines, kilowatt rating.....	653
Other internal-combustion engines, ² kilowatt rating.....	237
Hydroturbines and water wheels, kilowatt rating.....	200
Generators, ordinarily idle (included above), kilowatt rating.....	1, 404
Electric motors, total:	
Number.....	30, 431
Horsepower.....	180, 858
Driven by purchased energy—	
Number.....	25, 497
Horsepower.....	153, 069
Driven by energy generated in establishments reporting—	
Number.....	4, 934
Horsepower.....	27, 787
Electric energy (kilowatt-hours):	
Generated in plant.....	17, 008, 636
Sold.....	36, 203
Purchased.....	105, 355, 725

¹ Comparative data for 1929 not available.² Gas, gasoline, etc.

MACHINE-TOOL AND OTHER METALWORKING-MACHINERY ACCESSORIES, METAL-CUTTING AND SHAPING TOOLS, AND MACHINISTS' PRECISION TOOLS

[A preliminary report for this industry was issued Sept. 25, 1940]

Description of the industry.—The "Machine-tool and other metalworking-machinery accessories, metal-cutting and shaping tools, and machinists' precision tools" industry embraces establishments whose chief products are (1) attachments and accessories for machine tools and metalworking machinery, such as forming and stamping dies, jigs, fixtures, and special tools, (2) milling cutters, taps and dies, twist drills, reamers, and (3) precision measuring tools, such as micrometers, verniers, gages, etc., for use with machine tools.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1929	954	25,161	\$41,346,606	\$31,410,211	\$125,630,124	\$94,219,913	3,685
1937	806	32,993	55,950,935	46,002,316	162,002,009	115,999,693	(5)
1935	731	23,139	34,413,847	27,413,472	96,837,534	69,424,062	(5)
1933	587	12,767	14,159,179	10,882,467	44,383,246	33,500,779	(5)
1931	718	17,533	26,553,780	16,319,780	69,038,154	52,713,374	(5)
1929	722	26,682	51,054,540	26,992,631	144,410,890	117,418,259	3,206

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

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

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

ITEM	United States	California	Connecticut	Illinois	Indiana	Iowa	Kentucky	Maryland	Massachusetts	Michigan
Number of establishments ¹	954	35	49	100	41	4	3	3	48	210
Proprietors and firm members	609	44	16	79	42	4	1	3	25	104
Persons reported by manufacturing establishments, total ²	31,542	224	2,415	3,365	915	83	19	15	4,246	8,306
Salaried officers of corporations ³	1,023	4	85	99	36	4	2		62	285
Manufacturing:										
Salaried employees ³	3,234	14	247	274	75	12	4	1	533	803
Wage earners (average for the year) ³	25,161	199	1,960	2,798	784	66	13	14	3,237	6,527
Distribution	1,746	7	109	169	16	1			379	550
Construction	117		12	16	2				19	25
Other	261		2	9	2				16	116
Salaries and wages, total ²	\$58,679,346	\$327,864	\$3,895,123	\$5,955,129	\$1,811,087	\$135,502	\$29,240	\$18,414	\$6,268,221	\$18,940,827
Salaried officers ²	6,180,926	8,350	483,116	542,595	158,307	11,205	9,300		487,481	1,991,029
Manufacturing:										
Salaries ²	6,808,217	21,459	477,610	610,806	171,833	19,880	4,260	780	909,590	2,026,786
Wages	41,346,606	290,742	2,631,879	4,376,214	1,438,849	102,599	15,680	17,634	4,038,818	13,413,198
Distribution	3,820,100	7,313	284,489	397,824	87,832	1,818			774,821	1,267,917
Construction	188,495		16,491	18,159	2,438				31,376	51,214
Other	335,002		1,538	9,531	1,828				26,135	190,683
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	31,410,211	196,965	1,549,472	4,185,234	821,754	93,777	35,795	17,573	2,865,139	11,051,980
Materials, supplies, and containers	28,159,768	182,930	1,346,743	3,854,686	731,656	89,733	34,774	15,731	2,549,628	9,870,649
Fuel	637,315	1,000	67,927	65,086	13,715	657	383	757	118,152	175,740
Purchased electric energy	1,511,472	9,392	94,358	153,252	36,980	3,387	638	1,085	178,505	469,590
Contract work	1,101,656	3,643	40,444	112,210	39,403				18,854	536,001
Value of products	125,630,124	817,951	7,644,497	12,972,091	3,481,309	304,135	79,457	56,369	13,208,415	41,625,580
Value added by manufacture ⁴	94,219,913	620,986	6,095,025	8,786,857	2,659,555	210,358	43,662	38,796	10,343,276	30,573,600

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

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

ITEM	Minne- sota	Missouri	New Jersey	New York	Ohio	Pennsyl- vania	Rhode Island	Vermont	Wash- ington	Wisconsin	Other States ¹
Number of establishments ¹	13	9	56	119	144	50	12	3	4	42	9
Proprietors and firm members.....	14	5	24	84	90	37	5	-----	3	20	9
Persons reported by manufacturing estab- lishments, total ²	92	169	898	1,733	5,442	1,810	802	190	16	740	62
Salaried officers of corporations ³	4	11	56	92	149	53	17	4	-----	54	6
Manufacturing:											
Salaried employees ⁴	4	12	68	129	635	221	109	17	4	66	6
Wage earners (average for the year) ⁴	82	133	750	1,450	4,343	1,431	564	145	11	605	49
Distribution.....	1	10	17	58	270	88	34	22	1	13	1
Construction.....	-----	-----	1	-----	29	11	-----	2	-----	-----	-----
Other.....	1	3	6	4	16	6	76	-----	-----	2	-----
Salaries and wages, total ¹	\$124,944	\$263,378	\$1,651,874	\$3,110,511	\$10,608,696	\$2,762,772	\$1,283,623	\$240,561	\$20,387	\$1,172,325	\$59,368
Salaried officers ²	10,588	28,156	295,239	520,019	1,020,685	275,023	101,039	30,350	-----	202,049	6,395
Manufacturing:											
Salaries ²	3,548	20,549	135,128	234,201	1,370,811	440,374	187,755	22,910	6,678	137,825	5,434
Wages.....	109,831	198,611	1,188,299	2,254,399	7,507,881	1,884,701	853,712	151,458	13,087	811,922	47,092
Distribution.....	904	12,975	25,659	96,659	619,123	138,972	70,872	32,228	622	19,325	447
Construction.....	-----	-----	653	-----	46,376	16,933	4,555	-----	-----	-----	-----
Other.....	73	3,087	5,796	5,233	13,820	6,769	65,690	3,615	-----	1,204	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	62,381	161,498	648,976	1,354,837	5,455,555	1,585,943	559,643	130,316	8,250	585,694	39,429
Materials, supplies, and containers.....	54,464	150,362	568,689	1,201,310	4,905,911	1,418,566	499,269	112,644	7,720	529,677	34,617
Fuel.....	2,378	2,188	12,593	20,049	81,227	41,542	12,932	6,482	84	12,663	1,760
Purchased electric energy.....	4,460	8,948	43,827	70,901	268,212	81,683	39,160	11,190	437	32,799	2,668
Contract work.....	1,079	-----	23,867	62,577	200,205	44,152	8,282	-----	-----	10,555	384
Value of products.....	271,296	555,870	2,815,191	6,267,776	23,184,787	6,752,446	2,498,368	609,490	41,262	2,295,476	148,358
Value added by manufacture ⁴	208,915	394,372	2,166,215	4,912,939	17,729,232	5,166,503	1,938,725	479,174	33,012	1,709,782	108,929

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Colorado, 1 establishment; Delaware, 1; Louisiana, 1; New Hampshire, 1; Oregon, 2; Tennessee, 1; Texas, 2.

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

	1939	1937	1929
Machine-Tool and Other Metalworking-Machinery Accessories, Metal-cutting and Shaping Tools, and Machinists' Precision Tools industry, all products, total value.....	\$125,630,124	\$162,002,009	\$144,410,890
Machine-tool and other metalworking-machinery accessories, etc., made in the industry.....	112,807,010	¹ 135,985,573	134,273,247
Miscellaneous products not specified.....	368,527	3,282,564	2,305,251
Receipts for contract and repair work.....	1,783,840	-----	-----
Other products (not classified in this industry).....	² 10,673,247	¹ 22,733,872	7,832,392
Machine-tool and other metalworking-machinery accessories, etc., aggregate value.....	169,870,491	¹ 175,945,233	183,138,948
Machine-tool and other metalworking-machinery accessories, etc., made in this industry.....	112,807,010	¹ 135,985,573	134,273,247
Machine-tool and other metalworking-machinery accessories, etc., made as secondary products in other industries, total.....	57,063,481	¹ 39,959,660	48,865,701
Made as secondary products in other industries within the Machinery (Except Electrical) group.....	27,563,312	(³)	(³)
Made as secondary products outside the Machinery (Except Electrical) group.....	29,500,169	-----	-----

¹ Revised because of changes in classification.² Chiefly machine tools and other metalworking machinery, metal stampings, and castings.³ No data.

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

PRODUCT	1939			1937	1929
	Produced in the industry	Produced in other indus- tries	Aggregate		
Aggregate value.....	\$112,807,010	¹ \$57,063,481	\$169,870,491	² \$175,945,233	\$183,138,948
Attachments and fixtures, total value.....	60,614,399	¹ 43,789,091	104,403,490	² 94,997,189	98,143,962
General equipment:					
Chucks, drill.....	(⁴)	(⁴)	1,374,445	1,688,279	1,311,792
Chucks, lathe.....	2,230,374	162,371	2,392,745	2,555,958	2,725,483
Chucks, magnetic.....	218,118	118,729	336,847	321,778	360,495
Vises (machine).....	97,601	129,075	226,676	233,714	182,232

¹ Includes \$27,563,312, the value of these products made in other industries in the "Machinery (Except Electrical)" group and \$29,500,169, value of these products made outside the "Machinery (Except Electrical)" group.² Revised.³ Figures to which this footnote is indexed include values of products made outside the "Machinery (Except Electrical)" group. The figures for "Jigs, fixtures, drop-forging, dies," etc., include \$28,522,622 of this amount; other amounts are small and cannot be given separately.⁴ Shown only in the aggregate to avoid disclosing, exactly or approximately, data reported by individual establishments.

MACHINE-TOOL AND OTHER METALWORKING-MACHINERY ACCESSORIES

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

PRODUCT	1939			1937	1929
	Produced in the industry	Produced in other industries	Aggregate		
Attachments and fixtures—Continued.					
Attachments for machine tools:					
Boring-machine.....	\$68, 753	\$345, 865	\$414, 618	\$95, 479	\$1, 103, 214
Drilling-machine.....	344, 436	127, 100	471, 536	440, 084	
Lathe (engine).....	8, 062	877, 821	885, 883	727, 934	
Milling-machine.....	108, 147	* 1, 661, 621	1, 769, 768	848, 228	
Other machine-tool.....	107, 016	1, 505, 086	1, 612, 102	* 1, 051, 144	
Special equipment:					
Balancing machines.....	16, 439	326, 294	342, 733	(¹)	(¹)
Die-casting dies.....	1, 262, 282	* 830, 553	2, 092, 835	1, 117, 890	* 1, 270, 754
Jigs, fixtures, drop-forging dies, forming and stamping punches, dies, subpresses, etc., and especially designed tools.....	49, 411, 102	* 31, 914, 555	81, 325, 657	69, 354, 174	72, 182, 850
Semifinished products (die sets, leader pins, bushings, dowel pins, die springs, jig bushings, etc.).....	(¹)	(¹)	2, 610, 928	3, 049, 279	(¹)
Tools for screw and automatic machines (box tools, hollow mills, work and tool holders, etc., except taps and dies).....	557, 726	4, 072, 421	4, 630, 147	3, 102, 172	4, 056, 307
Model and experimental work.....	908, 187	40, 446	948, 633	4, 737, 245	* 5, 066, 984
Other attachments and fixtures.....	1, 620, 182	* 1, 647, 955	3, 268, 137	* 5, 673, 831	* 9, 883, 851
Small cutting tools and tool holders, total value.....	42, 564, 011	* 11, 064, 421	53, 628, 432	* 67, 247, 659	(¹⁶)
Arbors and collars.....	158, 861	184, 613	343, 474	256, 252	364, 716
Broaches.....	1, 648, 135	1, 082, 742	2, 730, 877	(¹¹)	(¹)
Collets or sockets, etc. (lathe, milling-machine, and drill).....	508, 747	652, 759	1, 161, 506	738, 475	345, 523
Counterbores.....	(¹)	(¹)	769, 766	1, 058, 200	1, 116, 719
Countersinks and combination countersinks and drills.....	(¹)	(¹)	414, 675	542, 891	* 65, 222
Drills, carbon.....	2, 447, 897	35, 706	2, 483, 603	2, 985, 130	4, 096, 029
Drills, high-speed.....	9, 907, 376	64, 247	9, 971, 623	12, 202, 413	9, 911, 434
Gear cutters, other than hobbing.....	466, 302	1, 885, 450	2, 350, 752	2, 317, 867	(¹)
Hobbing cutters, carbon.....	134, 268	134, 268	134, 268	2, 969, 934	2, 078, 916
Hobbing cutters, high-speed.....	2, 210, 388	781, 744	2, 992, 132		
Lathe, planer, and shaper tools (not including tool holders), of carbon and high-speed steel.....	612, 517	* 850, 138	1, 462, 655	975, 640	1, 140, 643
Lathe, planer, and shaper tools, tungsten-carbide tipped.....	(¹)	(¹)	1, 529, 335	508, 590	(¹)
Milling cutters (all types), end mills, slotting cutters, etc. (solid and those with inserted-teeth):					
Solid—					
Carbon steel.....	(¹)	(¹)	155, 206	526, 835	10, 704, 526
High-speed steel.....	5, 482, 988	821, 540	6, 304, 528	8, 989, 344	
Tungsten-carbide tipped.....	(¹)	(¹)	624, 425	683, 843	
Inserted-teeth.....	602, 172	309, 091	911, 263	849, 911	
Reamers (solid, expansion, and inserted-blade):					
Carbon.....	(¹)	(¹)	856, 885	1, 176, 305	3, 114, 356
High-speed.....	2, 495, 285	340, 763	2, 836, 048	3, 885, 706	5, 042, 556
Threading tools:					
Taps and dies (not pipe-threading)—					
Taps, carbon (except collapsible).....	1, 759, 827	* 400, 379	2, 220, 206	2, 721, 898	3, 526, 272
Taps, high speed (except collapsible).....	2, 405, 855	853, 890	3, 259, 745	5, 048, 972	3, 069, 694
Taps, collapsible.....	(¹)	(¹)	103, 879	56, 303	(¹)
Dies, carbon (except self-opening).....	(¹)	(¹)	697, 106	1, 271, 258	1, 337, 119
Dies, high-speed (except self-opening).....	(¹)	(¹)	151, 092	397, 989	1, 362, 676
Dies, self-opening.....	216, 836	296, 796	513, 632	285, 977	(¹)
Chasers.....	1, 907, 883	562, 354	2, 470, 237	2, 539, 011	3, 251, 469
Pipe-threading—					
Taps (except collapsible).....	(¹)	(¹)	220, 830	433, 580	300, 435
Taps, collapsible.....	135, 262		135, 262	285, 722	
Dies (except self-opening).....	489, 935	120, 270	610, 205	* 1, 364, 862	1, 346, 867
Dies, self-opening.....	611, 465		611, 465		(¹)
Chasers.....	511, 810	74, 487	586, 297	1, 296, 240	2, 338, 528
Pipe stocks complete with dies.....	1, 106, 394	434, 384	1, 540, 778	1, 825, 142	
All other cutting tools, tool holders, mandrels, etc.....	1, 568, 407	906, 270	2, 474, 677	9, 052, 309	
Precision measuring tools (micrometer and vernier).....	1, 092, 875	1, 228, 534	2, 321, 709	1, 581, 165	30, 481, 286
Gages (plug, ring, snap, thread, etc.).....	1, 908, 097	* 235, 482	2, 143, 579	3, 002, 642	
Other measuring tools.....	(¹)	(¹)	1, 113, 072	2, 229, 363	
Miscellaneous equipment and accessories not called for above:					
Wheel-truing (diamond-point and other).....	(¹)	(¹)	1, 387, 309	816, 355	
Other.....	4, 193, 754	679, 146	4, 872, 900	6, 070, 860	

¹ For footnote, see preceding page.

² For footnote, see preceding page.

³ For footnote, see preceding page.

⁴ Value of "Balancing machines" included in figure for "Other attachments and fixtures."

⁵ Not reported separately.

⁶ Reported as "Die casting and drop forging dies," for 1929.

⁷ Reported as "Special machinery (other than machine tools) and model and experimental work" for 1929.

⁸ Includes \$4,629,382 reported as "Special equipment not reported separately."

⁹ Data incomplete; figures for "All other cutting tools, tool holders, mandrels, etc.," and for items not reported separately are included in the \$30,481,286, last item in table.

¹⁰ Not called for on questionnaire for 1937.

¹¹ Countersinks only. Not comparable with figures for subsequent years.

CENSUS OF MANUFACTURES: 1939

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	25,161	21,148	21,343	21,780	23,208	25,017	26,578	26,872	26,870	25,848	26,874	27,048	28,443
1937	32,893	31,170	32,048	33,465	34,023	34,447	35,408	34,303	34,461	34,023	33,081	30,262	27,959
1929	26,682	24,432	25,349	27,035	28,311	28,979	28,411	27,381	27,080	27,627	26,084	25,084	22,002
California	199	166	195	185	180	185	214	207	203	203	205	224	210
Connecticut	1,960	1,770	1,801	1,829	1,857	1,897	1,881	1,904	1,914	1,943	2,102	2,226	2,359
Illinois	2,798	2,422	2,568	2,632	2,716	2,689	2,739	2,758	2,800	2,834	3,080	3,107	3,173
Indiana	784	676	687	661	669	691	830	914	927	877	900	884	856
Iowa	66	54	59	58	64	68	79	71	65	69	60	63	82
Kentucky	13	13	11	13	14	14	14	15	13	12	13	15	11
Maryland	14	10	13	13	13	13	13	16	17	16	15	14	13
Massachusetts	3,237	3,011	3,027	3,077	3,061	3,070	3,075	3,059	3,073	3,171	3,477	3,767	3,971
Michigan	6,527	4,804	4,842	4,864	5,790	7,208	8,151	8,036	7,930	8,807	6,519	6,080	6,694
Minnesota	82	75	73	84	91	86	76	80	75	78	88	92	88
Missouri	133	121	110	115	120	118	110	127	133	146	144	170	170
New Jersey	750	654	652	667	716	755	770	749	735	800	808	851	842
New York	1,450	1,324	1,328	1,350	1,359	1,432	1,457	1,466	1,442	1,417	1,549	1,592	1,618
Ohio	4,343	3,575	3,578	3,735	3,918	4,146	4,347	4,604	4,706	4,615	4,865	5,032	5,000
Pennsylvania	1,431	1,322	1,340	1,345	1,355	1,347	1,435	1,475	1,462	1,443	1,458	1,540	1,640
Rhode Island	504	469	472	471	481	520	532	528	533	584	602	727	784
Vermont	145	130	131	130	130	132	133	147	145	149	163	171	175
Washington	11	9	11	12	14	13	13	11	11	10	9	12	11
Wisconsin	605	497	498	516	583	584	649	655	646	625	645	671	659

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron	10,212	\$184,064
Scrap iron and steel, purchased as such	7,972	64,621

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Value of establishments:	
Total for the industry	954
Reporting expenditures for plant and equipment	646
Value of products:	
Total for the industry	\$125,630,124
Reporting expenditures for plant and equipment	109,371,719
Expenditures for plant and equipment:	
Total for the industry	5,624,412
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	1,053,590
Expenditures for new machinery and operating equipment	4,026,404
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	535,436
Expenditures, unclassified	8,922

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

	1939	1937
Inventories:		
Beginning of year, total	\$24,363,229	\$23,598,704
Finished products	12,138,168	9,435,515
Materials, supplies, etc.	12,225,061	14,163,249
End of year, total	24,211,026	27,502,425
Finished products	10,519,617	11,267,813
Materials, supplies, etc.	13,691,409	16,234,612
Value of products for the industry, total	125,630,124	162,002,009
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	120,855,983	149,130,671
Value for establishments not reporting inventories	4,774,141	12,871,338

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

	1939	1929
Number of establishments	954	722
Number of establishments reporting power equipment	951	705

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

	1939	1929
Prime movers, aggregate:		
Number	35	42
Horsepower	3,685	3,206
Prime movers, driving generators, total—		
Number	24	142
Horsepower	3,100	13,206
Steam engines—		
Number	8	118
Horsepower	2,010	11,107
Steam turbines—		
Number		10
Horsepower		11,227
Diesel and semi-Diesel engines—		
Number	3	
Horsepower	335	112
Other internal-combustion engines ² —		
Number	2	324
Horsepower	27	
Hydroturbines and water wheels—		
Number	11	18
Horsepower	818	1,458
Prime movers, driving generators, ordinarily idle (included above), horsepower	1,467	(⁴)
Prime movers not driving generators, total—		
Number	11	
Horsepower	495	
Steam engines—		
Number	3	
Horsepower	245	
Diesel and semi-Diesel engines—		
Number	1	(⁴)
Horsepower	60	
Other internal-combustion engines ² —		
Number	3	
Horsepower	35	
Hydroturbines and water wheels—		
Number	4	
Horsepower	155	
Generators, kilowatt rating, total	2,388	1,640
Generators, driven by—		
Steam engines, kilowatt rating	1,866	
Diesel and semi-Diesel engines, kilowatt rating	205	(⁴)
Other internal-combustion engines ² , kilowatt rating	18	
Hydroturbines and water wheels, kilowatt rating	759	
Generators, ordinarily idle (included above), kilowatt rating	1,008	(⁴)
Electric motors, total:		
Number	28,248	10,220
Horsepower	108,200	61,822
Driven by purchased energy—		
Number	27,267	10,140
Horsepower	103,778	61,192
Driven by energy generated in establishments reporting—		
Number	981	80
Horsepower	4,422	630
Electric energy (kilowatt-hours)—		
Generated in plant	2,206,792	(⁴)
Sold	44,220	(⁴)
Purchased	73,149,594	64,935,592

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

METALWORKING MACHINERY AND EQUIPMENT, NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued Sept. 25, 1940]

Description of the industry.—The "Metalworking machinery and equipment, not elsewhere classified," industry embraces establishments primarily engaged in the manufacture of machinery for forming, stamping, forging, or otherwise shaping of metal without the use of a cutting tool. Rolling-mill machinery, machines for sheet-metal-working, welding (except electric), wire-drawing and wireworking come within the scope of this classification.

Metalworking machinery (rod-and-wire-forming and fabricating, rolling-mill, sheet-metal-working, wire-drawing machinery, etc.) classified in the former "Machinery not elsewhere classified" industry has been combined with that portion of metalworking machinery (bending machines, die-casting machines, forging machines, presses, punching machines, riveting machines, shears, and portable metalworking tools) formerly

classified with "Machine tools" industry to form this industry classification—"Metalworking machinery and equipment, not elsewhere classified." Corresponding data for 1937 have been compiled from reports received for that year.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939	178	15,899	\$25,089,052	\$34,749,908	\$58,975,454	\$64,225,546	11,374
1937 ⁴	152	19,822	33,714,581	45,730,698	124,946,280	79,215,582	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable figures for earlier years.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Connecticut	Illinois	Indiana	Michigan	Minnesota	New Jersey	New York	Ohio	Pennsylvania	Wisconsin	Other States ¹
Number of establishments ²	178	4	10	29	5	15	6	10	18	35	13	7	26
Proprietors and firm members	35	3		5	1	7	1	4	4	2	1	4	3
Persons reported by manufacturing establishments, total ³	21,009	456	1,340	2,635	163	1,107	387	2,162	2,565	6,046	1,712	223	2,213
Salaried officers of corporations ³	302		28	46	12	20	8	10	28	73	27	9	41
Manufacturing:													
Salaried employees ³	3,734	113	175	460	20	170	19	099	300	912	321	33	443
Wage earners (average for the year) ⁴	15,899	323	1,098	1,954	127	880	269	1,447	1,941	4,743	1,329	168	1,620
Distribution	990	18	32	153	4	37	90	4	222	281	32	11	100
Construction	27	2	7	1			1	2	2	10		2	
Other	57			12					12	27	3		3
Salaries and wages, total ³	\$37,367,907	\$901,888	\$2,815,782	\$4,754,710	\$229,863	\$2,005,093	\$653,787	\$3,890,235	\$4,303,790	\$10,942,028	\$2,810,330	\$435,077	\$4,020,378
Salaried officers ³	2,420,370		240,902	362,589	54,400	85,972	124,190	50,770	190,109	570,931	190,216	62,900	490,391
Manufacturing:													
Salaries ³	7,642,349	189,837	392,943	918,143	26,688	350,001	31,481	1,295,551	650,424	2,016,805	717,524	68,718	969,674
Wages	25,089,052	681,092	1,580,410	3,156,472	141,328	1,401,281	360,184	2,540,728	3,050,442	7,655,935	1,843,802	282,070	2,819,408
Distribution	2,110,452	28,655	93,332	302,310	7,447	101,839	185,914	1,900	471,065	658,144	50,820	17,289	247,728
Construction	32,773	1,404	8,195	1,410			2,018	1,286	3,434	10,020		4,100	
Other	57,971			13,789					10,822	29,727	1,950		2,177
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	34,749,908	624,959	1,572,317	4,909,056	239,982	1,382,860	716,457	2,931,104	3,334,404	10,908,071	3,738,304	369,362	4,023,442
Materials, supplies, and containers	32,921,067	590,810	1,462,453	4,572,033	224,379	1,275,565	705,279	2,813,844	3,080,663	10,422,630	3,553,234	355,847	3,864,321
Fuel	628,282	2,943	50,610	47,632	5,939	58,201	3,886	30,837	70,200	225,164	80,061	2,130	41,970
Purchased electric energy	790,152	12,496	53,779	117,681	8,464	35,109	7,292	60,970	95,272	205,351	105,099	7,911	80,688
Contract work	410,407	18,701	6,400	171,730	1,500	13,425		25,453	70,200	54,926		3,474	36,463
Value of products	98,975,454	2,112,504	4,931,244	13,400,618	582,647	5,455,910	2,013,772	7,621,201	8,015,682	30,240,409	10,966,516	1,196,274	11,538,497
Value added by manufacture ⁵	64,225,546	1,487,845	3,558,927	8,401,502	342,665	4,073,550	1,297,315	4,690,187	5,581,278	19,332,428	7,228,122	826,912	7,515,055

¹ Iowa, 2 establishments; Kentucky, 1; Maryland, 2; Massachusetts, 8; Missouri, 6; New Hampshire, 1; Oregon, 1; Rhode Island, 2; Vermont, 1; Washington, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

CENSUS OF MANUFACTURES: 1939

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

	1939	1937
Metalworking Machinery and Equipment, Not Elsewhere Classified Industry, all products, total value.....	\$98,975,454	\$124,946,280
Metalworking machinery and equipment (including replacement and repair parts) made in this industry.....	80,366,224	111,604,961
Miscellaneous products not specified.....	¹ 5,631,777	2,935,676
Receipts for contract and repair work.....	1,102,037	10,405,643
Other products (not classified in this industry).....	11,875,416	
Metalworking machinery and equipment (including replacement and repair parts), aggregate value.....	117,365,014	141,776,796
Metalworking machinery and equipment (including replacement and repair parts) made in this industry.....	80,366,224	111,604,961
Metalworking machinery and equipment (including replacement and repair parts) made as secondary products in other industries, total.....	36,998,790	30,171,835
Made as secondary products in other industries within the Machinery (Except Electrical) group.....	20,417,535	(²)
Made as secondary products outside of the Machinery (Except Electrical) group.....	16,581,255	(²)

¹ Principally amount received for overhauling and repairing machinery leased to customers, and pattern making and experimental work.

² No data.

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

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Total	
Total value.....	\$80,366,224	¹ \$36,998,790	\$117,365,014	\$141,776,796
Bending machines:				
I-beam, pipe, plate, etc.—				
Number reported—	396	102	498	272
Value.....	\$521,852	\$42,744	\$564,596	\$309,416
Number not reported, value.....		\$5,819	\$5,819	
Sheet-metal brakes—				
Number reported—	1,408	107	1,515	2,457
Value.....	\$492,831	\$527,789	\$1,020,620	\$1,166,025
Number not reported, value.....	\$190,893	\$232,157	\$423,050	
Die-casting machines:				
Number reported—	42	23	65	66
Value.....	\$84,813	\$180,838	\$265,151	\$246,021
Number not reported, value.....	\$30,000	\$242,068	\$272,068	\$284,084
Forging machines (hammers, presses, etc.):				
Drop hammers (impression die)—				
Number.....	92		92	² 222
Value.....	\$1,470,790		\$1,470,790	² \$1,740,203
Forging hammers (flat die)—				
Number.....	47	4	51	141
Value.....	\$278,985	\$18,682	\$297,667	\$144,704
Forging presses—				
Number reported—	26		26	(²)
Value.....	\$250,094		\$250,094	(²)
Number not reported, value.....		\$438,000	\$438,000	
Other, including bulldozers and upsetters, value.....	\$1,254,700	\$1,400,067	\$2,654,767	\$2,045,748
Portable tools:				
Drills, electric—				
Number reported—	76,192	14,654	90,846	104,084
Value.....	\$3,527,146	\$144,457	\$3,671,603	\$4,152,509
Number not reported, value.....	\$42,277	\$324,490	\$366,767	
Drills, pneumatic—				
Number.....	41,947		41,947	35,035
Value.....	\$5,900,601		\$5,900,601	\$5,601,262
Grinders, electric—				
Number.....	21,559	12,709	34,268	31,402
Value.....	\$770,564	\$442,003	\$1,212,567	\$1,374,959
Grinders, pneumatic—				
Number reported—	11,433		11,433	11,579
Value.....	\$961,762		\$961,762	\$1,001,585
Number not reported, value.....		\$90,000	\$90,000	
Hammers (chipping, riveting, calking, etc.), electric—				
Number reported—	1,757		1,757	2,802
Value.....	\$158,153		\$158,153	\$324,585
Number not reported, value.....	\$17,950	\$63,600	\$81,550	
Hammers, pneumatic—				
Number.....	20,442		20,442	17,139
Value.....	\$1,115,610		\$1,115,610	\$978,764
Flexible-shaft machines—				
Number reported—	3,374	826	4,200	3,387
Value.....	\$512,708	\$234,144	\$746,852	\$547,565
Number not reported, value.....	\$98,485	\$21,390	\$119,875	

¹ Value of these products made by establishments within the machinery group of industries amounted to \$20,417,535 and by establishments outside the machinery group, \$16,581,255.

² Figures for forging presses included with those for drop hammers.

METALWORKING MACHINERY AND EQUIPMENT

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

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Total	
Portable tools—Continued.				
Other portable electric, and pneumatic metalworking tools:				
Number reported—				
Number.....	13,033	28,100	42,033	25,841
Value.....	\$509,538	\$210,452	\$809,990	\$1,349,178
Number not reported, value.....	\$304,164	\$81,153	\$445,317	\$711,038
Cylinder re boring and finishing machines, valve and valve-seat grinders, and similar garage equipment, value.....	\$1,246,480	\$531,871	\$1,778,351	\$2,800,517
Presses, other than forging presses:				
Forming—				
Number.....	618	273	891	
Value.....	\$1,071,714	\$2,406,845	\$4,468,559	4,546
Stamping—				
Number.....	3,310	60	3,370	\$10,468,167
Value.....	\$8,243,004	\$249,107	\$8,493,071	
Punch—				
Number reported—				
Number.....	1,113	150	1,263	3,604
Value.....	\$1,380,981	\$63,998	\$1,453,979	\$3,607,023
Number not reported, value.....				\$154,025
Other—				
Number reported—				
Number.....	1,596	1,372	2,968	(*)
Value.....	\$903,471	\$130,579	\$1,034,050	(*)
Number not reported, value.....	\$148,887	\$142,080	\$291,573	\$740,941
Punching machines, (not portable):				
Number reported—				
Number.....	31	34	65	(*)
Value.....	\$72,815	\$2,118	\$74,933	(*)
Number not reported, value.....				\$134,673
Riveting machines (not portable):				
Light-duty—				
Number reported—				
Number.....	438	61	499	
Value.....	\$274,852	\$61,338	\$336,190	
Number not reported, value.....		\$388,459	\$388,459	\$883,497
Heavy-duty—				
Number.....	(*)	(*)	283	
Value.....	(*)	(*)	\$70,650	
Rolling-mill machinery and equipment, value.....	\$16,265,821	\$18,330,181	\$34,605,002	\$52,138,559
Rod and wire forming and fabricating machines, value.....	\$1,342,540	\$206,341	\$1,608,881	\$2,000,862
Shears (hand-lever and foot-power), value.....	(*)	(*)	\$87,041	(*)
Shears (power):				
Alligator—				
Number.....	94		94	
Value.....	\$106,890		\$106,890	
Combination punch and shear—				
Number.....	34	1,430	1,464	465
Value.....	\$103,283	\$225,763	\$329,046	\$776,433
Rotary—				
Number.....	(*)	(*)	149	
Value.....	(*)	(*)	\$108,623	
Straight—				
Number.....	430	168	598	504
Value.....	\$770,214	\$605,764	\$1,375,978	\$1,220,652
Other, value.....	(*)	(*)	\$97,007	\$830,074
Sheet-metal working machinery:				
Can forming and soldering, value.....	\$12,271,043	\$183,911	\$12,455,854	\$17,000,929
Other, value.....	\$946,074	\$138,996	\$1,085,070	\$1,422,705
Spring winding and forming machines:				
Number.....	(*)	(*)	175	(*)
Value.....	(*)	(*)	\$415,139	(*)
Wire-drawing machines, value.....	\$1,180,547	\$50,270	\$1,230,817	\$1,653,838
Other metal-working machinery, value.....	\$2,794,168	\$5,761,946	\$8,556,114	\$7,104,408
Welding and cutting apparatus, acetylene, value.....	\$3,862,665	\$30,161	\$3,893,726	\$5,867,688
Replacements and repair parts, value.....	\$7,137,540	\$2,518,691	\$9,656,237	\$10,113,114
Items not reported separately.....	\$671,067	\$105,412		

* Data incomplete.

† Items to which note 4 is indexed are included in "Items not reported separately" to avoid disclosing, exactly or approximately, data reported by individual establishments.

‡ Figures for hand-lever and foot-power shears included with "Other power shears."

§ Not called for on schedule.

¶ Data for electric welding apparatus are classified in the electrical "Generating, distribution, and industrial apparatus, and apparatus for incorporation in manufactured products, not elsewhere classified" industry and therefore are not included in this report.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	15,899	13,982	14,620	14,067	15,210	15,324	15,470	15,522	15,656	16,217	17,089	17,982	18,754
1937.....	19,822	18,281	18,774	19,288	19,850	20,051	20,197	20,391	20,447	20,697	20,621	20,093	19,169
California.....	323	251	269	276	273	281	269	293	343	340	379	414	484
Connecticut.....	1,098	1,051	1,039	1,068	1,101	1,106	1,094	1,027	1,016	1,104	1,146	1,200	1,228
Illinois.....	1,954	1,762	1,816	1,811	1,857	1,855	1,923	1,965	2,006	1,999	2,026	2,200	2,242
Indiana.....	127	128	130	122	116	118	112	112	121	132	129	147	155
Massachusetts.....	354	315	354	355	351	350	351	327	335	342	370	383	415
Michigan.....	880	749	759	794	826	832	884	883	921	941	949	985	1,013
Minnesota.....	269	227	237	242	271	269	269	258	260	271	315	299	300
Missouri.....	118	116	112	112	115	118	120	118	120	118	115	114	117
New Jersey.....	1,447	1,361	1,364	1,371	1,372	1,359	1,314	1,358	1,369	1,446	1,646	1,696	1,710
New York.....	1,941	1,765	1,752	1,781	1,788	1,836	1,885	1,896	1,928	2,048	2,098	2,179	2,387
Ohio.....	4,743	3,859	4,281	4,463	4,537	4,592	4,713	4,721	4,688	4,871	5,129	5,417	5,648
Pennsylvania.....	1,329	1,233	1,226	1,241	1,270	1,259	1,286	1,296	1,267	1,285	1,428	1,542	1,620
Wisconsin.....	168	168	165	157	161	167	162	158	169	172	188	189	193

CENSUS OF MANUFACTURES: 1939

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	12,893	\$335,021
Scrap iron and steel, purchased as such.....	18,652	278,355

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	178
Reporting expenditures for plant and equipment.....	126
Value of products:	
Total for the industry.....	\$98,975,454
Reporting expenditures for plant and equipment.....	87,777,364
Expenditures for plant and equipment:	
Total for the industry.....	3,201,831
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	670,802
Expenditures for new machinery and operating equipment.....	2,361,293
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	169,646

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$24,470,053	\$23,496,064
Finished products.....	12,620,141	10,268,551
Materials, supplies, etc.....	11,852,912	13,197,513
End of year, total.....	27,305,831	28,546,618
Finished products.....	12,800,172	12,946,171
Materials, supplies, etc.....	14,499,659	15,600,447
Value of products for the industry, total.....	98,975,454	124,946,280
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	98,965,084	120,965,702
Value for establishments not reporting inventories.....	10,370	3,980,578

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	178
Number of establishments reporting power equipment.....	176
Prime movers, aggregate:	
Number.....	52
Horsepower.....	11,374
Prime movers, driving generators, total—	
Number.....	36
Horsepower.....	9,540
Steam engines—	
Number.....	28
Horsepower.....	8,280
Steam turbines—	
Number.....	1
Horsepower.....	76
Diesel and semi-Diesel engines—	
Number.....	4
Horsepower.....	820
Other internal-combustion engines ² —	
Number.....	1
Horsepower.....	140
Hydroturbines and water wheels—	
Number.....	2
Horsepower.....	246
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,650
Prime movers not driving generators, total—	
Number.....	16
Horsepower.....	1,834
Steam engines—	
Number.....	11
Horsepower.....	1,194
Diesel and semi-Diesel engines—	
Number.....	2
Horsepower.....	500
Other internal-combustion engines ² —	
Number.....	3
Horsepower.....	140
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	200
Generators, kilowatt rating, total.....	6,952
Generators, driven by—	
Steam engines, kilowatt rating.....	6,006
Steam turbines, kilowatt rating.....	50
Diesel and semi-Diesel engines, kilowatt rating.....	584
Other internal-combustion engines, ² kilowatt rating.....	125
Hydroturbines and water wheels, kilowatt rating.....	187
Generators, ordinarily idle (included above), kilowatt rating.....	1,099
Electric motors, total:	
Number.....	13,866
Horsepower.....	92,367
Driven by purchased energy—	
Number.....	12,334
Horsepower.....	77,013
Driven by energy generated in establishments reporting—	
Number.....	1,532
Horsepower.....	15,354
Electric energy (kilowatt-hours):	
Generated in plant.....	6,174,013
Sold.....	2,078
Purchased.....	43,600,583

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

FOOD-PRODUCTS MACHINERY

[A preliminary report was issued for this industry December 20, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of machinery for use in the food-products and beverage industries in the preparation, canning, or packaging of food products. These establishments were assigned to the former "Machinery not elsewhere classified" in-

dustry but were given a separate industry classification for the first time at the census for 1939. The figures for 1937 in these tables have been adjusted for comparison with 1939, but there are no comparable figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ¹	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	379	13,979	\$18,936,642	\$31,949,526	\$90,840,544	\$58,891,018	13,531
1937 ⁴	323	18,475	26,578,936	39,301,147	114,082,332	74,781,185	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable figures for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Connecticut	Illinois	Indiana	Louisiana	Maryland	Massachusetts	Michigan	Minnesota
Number of establishments ¹	379	43	4	40	13	3	10	16	15	21
Proprietors and firm members.....	139	25	.....	12	3	.....	1	6	9	5
Persons reported by manufacturing establishments, total ²	20,007	914	283	3,121	768	152	973	488	1038	671
Salaried officers of corporations ²	546	41	7	69	25	10	17	21	18	33
Manufacturing:										
Salaried employees ²	2,954	168	67	335	114	10	82	75	167	39
Wage earners (average for the year) ²	13,979	588	175	2,305	372	110	731	380	647	419
Distribution.....	2,419	116	34	406	229	4	140	12	197	170
Construction.....	31	1	.....	3	3	12	.....	.....	3	.....
Other.....	78	.....	.....	15	.....	.....	3	.....	6	1
Salaries and wages, total ²	\$32,497,864	\$1,730,599	\$701,029	\$5,065,157	\$1,307,474	\$181,844	\$1,656,872	\$766,188	\$1,976,231	\$978,462
Salaried officers ²	3,153,913	218,316	168,313	423,767	139,922	51,250	69,940	130,732	102,148	145,025
Manufacturing:										
Salaries ²	5,714,673	342,993	162,943	693,519	268,101	16,865	179,193	131,483	412,054	72,793
Wages.....	18,936,642	910,394	292,570	3,800,999	494,365	103,896	1,182,903	473,727	973,106	521,782
Distribution.....	4,648,476	257,096	77,803	632,913	389,809	4,850	231,154	30,246	481,141	237,332
Construction.....	33,593	1,800	.....	4,160	4,409	4,980	.....	.....	3,379	.....
Other.....	105,657	.....	.....	4,796	10,868	.....	2,682	.....	4,403	900
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	31,949,526	1,723,857	617,450	5,857,226	838,912	173,565	1,707,318	806,444	1,618,726	937,081
Materials and supplies.....	30,363,802	1,628,944	598,428	5,680,591	797,034	143,120	1,738,652	820,060	1,308,437	862,141
Fuel.....	493,436	7,968	7,968	58,137	18,655	2,740	13,144	13,921	22,955	17,852
Purchased electric energy.....	592,105	28,912	10,424	91,774	23,223	7,706	38,460	16,322	44,537	24,358
Contract work.....	500,076	68,033	600	46,724	.....	20,000	7,062	13,140	142,747	3,630
Value of products.....	90,840,544	4,325,946	2,215,271	15,510,751	3,138,348	510,748	4,260,647	2,070,430	4,597,973	2,581,649
Value added by manufacture ³	58,891,018	2,602,039	1,597,821	9,653,525	2,299,436	337,183	2,463,329	1,212,988	3,079,247	1,643,668

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

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

ITEM	Missouri	New Jersey	New York	Ohio	Pennsylvania	Texas	Virginia	Washington	Wisconsin	Other States ¹
Number of establishments ¹	14	12	55	36	29	4	5	7	22	30
Proprietors and firm members.....	6	2	16	13	10	6	5	1	7	12
Persons reported by manufacturing establishments, total ²	400	397	3,844	2,882	856	45	40	69	1,900	1,172
Salaried officers of corporations ²	20	18	96	53	40	—	—	0	31	41
Manufacturing:										
Salaried employees ²	56	52	818	460	126	6	6	12	173	188
Wage earners (average for the year) ²	250	290	2,608	2,099	613	33	32	49	1,483	791
Distribution.....	70	37	276	267	77	6	2	2	214	161
Construction.....	—	—	8	—	—	—	—	—	—	1
Other.....	4	—	38	3	—	—	—	—	5	—
Salaries and wages, total ²	\$769,429	\$720,202	\$6,717,920	\$4,220,666	\$1,123,332	\$45,425	\$33,390	\$117,006	\$2,702,263	\$1,683,175
Salaried officers ²	122,954	100,719	655,046	289,927	130,982	—	—	20,320	187,216	201,736
Manufacturing:										
Salaries ²	107,806	105,642	1,561,730	847,017	147,996	7,407	7,022	24,561	314,001	315,547
Wages.....	306,041	445,863	3,737,011	2,724,413	716,042	30,360	23,608	69,003	1,721,045	908,821
Distribution.....	228,270	67,978	682,220	356,709	128,312	7,658	2,760	3,602	478,071	254,949
Construction.....	—	—	12,653	—	—	—	—	—	—	2,122
Other.....	4,858	—	69,260	2,600	—	—	—	—	5,730	—
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	816,775	845,592	5,127,279	4,524,710	1,462,400	74,684	35,293	131,229	2,679,607	1,920,409
Materials and supplies.....	787,214	798,460	4,806,315	4,360,112	1,409,977	73,681	33,797	119,228	2,677,482	1,810,180
Fuel.....	8,778	11,929	125,641	80,562	27,694	36	370	1,495	52,600	21,148
Purchased electric energy.....	9,512	17,541	115,239	71,712	19,492	967	1,126	3,910	30,158	33,742
Contract work.....	11,271	17,662	80,084	12,324	5,346	—	—	6,508	19,437	55,420
Value of products.....	2,098,250	2,040,410	16,229,200	14,718,477	3,453,061	183,771	102,910	322,885	7,609,183	4,901,048
Value added by manufacture ⁴	1,281,481	1,194,818	11,101,921	10,193,767	1,990,652	109,087	67,617	191,656	4,829,556	3,041,179

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Alabama, 1 establishment; Colorado, 2; Florida, 2; Georgia, 1; Iowa, 5; Kansas, 2; Kentucky, 3; Nebraska, 2; New Hampshire, 1; North Carolina, 1; Oklahoma, 1; Oregon, 5; Tennessee, 2; Vermont, 2.

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

	1939	1937
Food-Products Machinery industry, all products, total value.....	\$90,840,544	\$114,082,332
Food-products machinery, parts, and equipment made in this industry.....	78,023,833	99,578,942
Miscellaneous products not specified.....	132,178	—
Other products (not classified in this industry).....	11,093,646	11,812,669
Receipts for contract and repair work.....	1,590,887	2,690,721
Food-products machinery, parts, and equipment, total value.....	95,133,700	116,973,923
Food-products machinery, parts, and equipment made in the industry.....	78,023,833	99,578,942
Food-products machinery, parts, and equipment made as secondary products in other industries.....	17,109,867	17,394,981
Made in industries of the Machinery (Except Electrical) group other than the "Food-products machinery" industry.....	12,235,676	(¹)
Made in other industries.....	4,874,191	—

¹ Chiefly value of conveyors, labeling machines, tanks, filters, and air-conditioning equipment.² No data.

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

PRODUCT	1939				1937
	Produced in the industry	Produced in other industries of the Machinery (Except Electrical) group	Produced in other industries outside of the Machinery (Except Electrical) group	Aggregate	
Food-products machinery, parts, and equipment, total value.....	\$78,023,833	\$12,235,676	\$4,874,191	\$95,133,700	\$116,973,923
Bakers' machinery and equipment:					
Bake ovens—					
Reported by number and value—					
Number.....	2,420	21	—	2,441	1,959
Value.....	\$3,498,104	\$50,263	—	\$3,548,367	\$2,577,418
Not reported by number, value.....	\$714,614	—	\$156,500	\$871,114	\$3,606,091
Dough mixers—					
Reported by number and value—					
Number.....	2,308	4	—	2,312	407
Value.....	\$1,647,800	\$2,100	—	\$1,649,900	\$455,734
Not reported by number, value.....	\$1,623,647	\$16,211	—	\$1,639,858	\$697,367
Slicing machines—					
Reported by number and value—					
Number.....	2,015	1,107	—	3,122	1,800
Value.....	\$804,173	\$754,711	—	\$1,648,884	\$897,769
Not reported by number, value.....	—	—	—	—	\$186,568
Wrapping machines—					
Reported by number and value—					
Number.....	765	564	—	1,329	1,102
Value.....	\$1,066,350	\$240,372	—	\$1,306,722	\$810,497
Not reported by number, value.....	\$93,491	\$4,053	—	\$97,544	—
Combination slicing and wrapping machines—					
Number.....	629	224	—	853	(¹)
Value.....	\$301,932	\$113,843	—	\$505,775	—
Other bakers' machinery and equipment.....	\$5,859,447	\$59,350	\$397,168	\$6,315,965	\$3,888,772

See footnotes at end of table.

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

PRODUCT	1939				1937
	Produced in the industry	Produced in other industries of the Machinery (Except Electrical) group	Produced in other industries outside of the Machinery (Except Electrical) group	Aggregate	
Bottlers' machinery, other than dairy.....	\$10,803,973	\$355,216	\$200,816	\$11,959,005	\$21,135,303
Canning machinery.....	\$3,361,575	\$370,207	\$71,067	\$4,102,849	\$11,839,735
Chocolate and confectionery machinery.....	\$980,840	\$135,824	—	\$1,116,664	\$7,216,831
Ice-cream-making machinery.....	\$2,643,057	\$2,043,852	\$381,933	\$5,068,842	—
Dairy machinery and equipment:					
Bottling machinery for dairies.....	\$1,600,150	\$25,747	—	\$1,625,897	\$1,803,508
Butter-making and butter-working machines.....	\$697,867	\$1,840	—	\$699,707	\$700,488
Cream separators.....	—	—	—	—	—
Capacity 500 pounds or less per hour—					
Number.....	3,605	34,309	—	38,004	45,302
Value.....	\$213,032	\$670,318	—	\$883,350	\$1,385,113
Capacity more than 500 pounds per hour—					
Number.....	5,050	11,613	—	17,672	38,884
Value.....	\$629,006	\$578,438	—	\$1,207,444	\$2,427,055
Milking machines (complete assemblies)—					
Reported by number and value—					
Number.....	18,006	6,794	—	25,400	21,502
Value.....	\$1,048,126	\$381,425	—	\$2,029,551	\$1,215,801
Not reported by number, value.....	—	\$132,876	—	\$132,876	—
Pasteurizers—					
Reported by number and value—					
Number.....	2,010	4	—	2,014	2,307
Value.....	\$1,463,950	\$2,070	—	\$1,466,020	\$1,550,492
Not reported by number, value.....	\$792,300	—	\$24,000	\$816,300	\$532,887
Other dairy machinery and equipment.....	\$6,042,472	\$265,600	\$200,530	\$6,508,602	\$8,846,782
Flour-mill and grain-mill machinery.....	\$4,317,377	\$1,700,589	—	\$6,017,966	\$6,916,353
Packing-house machinery:					
Meat-packing machinery.....	\$3,200,850	\$70,586	\$2,255	\$3,330,691	\$3,063,354
Other packing-house machinery.....	\$2,347,375	\$213,870	\$122,559	\$2,683,804	\$3,065,479
Sugar-mill machinery.....	\$1,801,509	\$911,065	\$132,694	\$2,935,268	\$4,344,386
Coffee-roasting and coffee-grinding machines, food choppers and grinders, food mixers, slicing machines, etc., power-driven:					
Coffee-grinding machines—					
Number.....	10,682	—	131	10,813	—
Value.....	\$1,028,165	—	\$6,607	\$1,034,772	18,723
Coffee-roasting and combination mills and choppers—					
Number.....	5,324	—	—	5,324	\$1,524,958
Value.....	\$626,357	—	—	\$626,357	\$607,408
Meat choppers and grinders, and food cutters and choppers—					
Reported by number and value—					
Number.....	12,574	4	104	12,682	13,978
Value.....	\$1,725,588	\$396	\$5,097	\$1,731,081	\$2,012,998
Not reported by number, value.....	\$102,299	\$197,383	\$775,911	\$1,075,693	\$934,093
Mixers and whippers, commercial and industrial (except bakers' dough mixers)—					
Number.....	5,212	207	165,050	170,469	174,200
Value.....	\$1,453,191	\$256,119	\$1,804,455	\$3,513,765	\$3,534,850
Slicing machines (other than for bakeries)—					
Number.....	39,162	155	—	39,317	40,991
Value.....	\$4,817,846	\$14,250	—	\$4,832,096	\$4,790,970
Other food-preparation machines, including peanut roasters, popcorn machines, and food-wrapping machines (except bakers')	\$3,409,591	\$335,396	\$697,232	\$4,442,219	\$3,338,938
Parts and attachments.....	\$6,477,020	\$557,550	—	\$7,034,570	\$5,075,813

¹ Figures for "Combination slicing and wrapping machines" included in figures for "Other bakers' machinery" for 1937. ² Revised. ³ Not reported by number.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	13,979	13,076	13,372	13,862	14,154	14,106	14,142	14,153	13,095	13,004	14,060	14,322	14,512
1937.....	18,475	17,188	18,029	18,796	19,325	19,257	19,439	18,020	18,000	18,428	18,124	17,829	17,470
California.....	588	536	544	588	610	640	642	639	602	552	581	569	555
Connecticut.....	175	159	136	184	181	176	182	181	182	178	181	177	179
Illinois.....	2,305	2,201	2,281	2,350	2,447	2,394	2,345	2,246	2,232	2,275	2,179	2,260	2,415
Indiana.....	372	349	356	354	359	372	375	370	383	386	392	394	363
Iowa.....	232	229	229	233	237	237	229	230	231	229	233	234	231
Kentucky.....	34	35	31	29	28	28	30	31	34	30	44	36	37
Louisiana.....	116	97	107	122	131	115	117	116	116	119	111	115	120
Maryland.....	731	688	716	720	728	722	726	738	731	754	752	748	745
Massachusetts.....	380	320	359	379	380	388	401	403	391	378	372	377	411
Michigan.....	647	631	667	665	674	671	667	698	626	617	606	630	624
Minnesota.....	419	385	382	392	394	387	389	428	455	445	450	458	463
Missouri.....	250	243	240	254	254	240	249	240	251	251	256	260	253
New Jersey.....	290	261	261	300	286	303	317	299	266	282	298	298	295
New York.....	2,608	2,442	2,465	2,501	2,539	2,572	2,565	2,636	2,580	2,664	2,706	2,769	2,845
Ohio.....	2,099	1,970	1,981	2,048	2,046	2,007	2,042	2,057	2,006	2,152	2,233	2,279	2,275
Oregon.....	78	52	54	68	77	78	88	101	98	86	74	76	78
Pennsylvania.....	613	618	617	611	631	637	629	601	595	593	589	610	624
Texas.....	33	28	31	41	41	39	40	28	27	26	30	35	32
Virginia.....	32	19	24	27	26	29	46	43	46	34	33	26	25
Washington.....	49	40	48	48	62	59	58	49	51	41	46	45	44
Wisconsin.....	1,483	1,412	1,456	1,512	1,561	1,551	1,522	1,466	1,463	1,456	1,438	1,483	1,473

CENSUS OF MANUFACTURES: 1939

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL IN THE INDUSTRY: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	6,975	\$164,914
Scrap iron and steel purchased as such.....	13,367	209,174

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	379
Reporting expenditures for plant and equipment.....	213
Value of products:	
Total for the industry.....	\$90,840,544
Reporting expenditures for plant and equipment.....	76,512,304
Expenditures for plant and equipment:	
Total for the industry.....	2,054,407
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	615,260
Expenditures for new machinery and operating equipment.....	1,280,277
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	158,870

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$28,335,086	\$26,071,564
Finished products.....	11,746,965	11,383,249
Materials, supplies, etc.....	16,588,121	14,688,315
End of year, total.....	28,443,078	32,328,090
Finished products.....	11,284,232	13,545,033
Materials, supplies, etc.....	17,158,846	18,783,057
Value of products for the industry, total.....	90,840,544	114,082,332
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	90,635,356	113,436,088
Value for establishments not reporting inventories.....	205,188	646,244

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	379
Number of establishments reporting power equipment.....	378
Prime movers, aggregate:	
Number.....	539
Horsepower.....	13,531
Prime movers, driving generators, total—	
Number.....	22
Horsepower.....	8,187
Steam engines—	
Number.....	18
Horsepower.....	5,310
Steam turbines—	
Number.....	3
Horsepower.....	2,800
Internal-combustion engines, ² other than Diesel and semi-Diesel—	
Number.....	1
Horsepower.....	27
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	752
Prime movers not driving generators, total—	
Number.....	514
Horsepower.....	5,304
Steam engines—	
Number.....	510
Horsepower.....	5,317
Internal-combustion engines, ² other than Diesel and semi-Diesel—	
Number.....	4
Horsepower.....	77
Generators, kilowatt rating, total.....	4,525
Generators, driven by—	
Steam engines, kilowatt rating.....	2,567
Steam turbines, kilowatt rating.....	1,950
Internal-combustion engines, ² other than Diesel and semi-Diesel, kilowatt rating.....	8
Generators, ordinarily idle (included above), kilowatt rating.....	492
Electric motors, total:	
Number.....	12,918
Horsepower.....	69,038
Driven by purchased energy—	
Number.....	10,658
Horsepower.....	57,209
Driven by energy generated in establishments reporting—	
Number.....	2,260
Horsepower.....	11,769
Electric energy (kilowatt-hours):	
Generated in plant.....	5,066,422
Purchased.....	25,373,639

¹ Comparable data for 1920 not available.² Gas, gasoline, etc.

TEXTILE MACHINERY

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

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, and accessories," more than two-fifths of the total value of textile machinery and parts made in 1939, 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 manufac-

turers do not in all cases show the numbers of complete machines represented by such shipments, and accordingly they are necessarily reported as parts.

At previous censuses, establishments reporting roll covering or re-covering as their major activity were assigned to this classification but are assigned to the "Machine-shop products, not elsewhere classified" industry for 1939. These establishments numbered 44 in 1937 but since the total amount of receipts for the work done was only \$1,148,668, no adjustments have been made in the figures for 1937 and former years given in these tables.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939	300	21,904	\$27,614,519	\$33,598,333	\$93,276,326	\$59,677,993	12,469
1937	356	25,840	33,139,409	35,546,206	107,428,810	71,882,544	(5)
1935	349	19,072	21,245,578	23,131,415	98,846,269	46,714,854	(5)
1933	314	18,579	18,737,290	18,377,880	90,323,267	41,945,387	(5)
1931	330	18,808	21,238,231	18,175,346	65,798,225	47,622,579	(5)
1929	376	27,019	37,836,400	36,556,209	122,438,514	85,882,215	19,491
1927	367	26,154	36,481,196	36,180,689	116,921,130	80,740,441	19,430
1925	379	27,869	37,403,681	36,036,868	121,653,324	82,616,466	20,321
1923	428	35,672	46,022,545	46,706,554	140,661,353	90,655,504	23,405
1921	421	31,025	33,830,690	44,903,788	128,934,896	84,031,108	(5)
1919	432	31,823	36,528,729	45,636,628	122,089,264	76,452,636	23,704

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² Figures for years prior to 1935 do not include cost of contract work.

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

⁴ Not called for on schedule.

⁵ Data not available.

² See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ No comparable figures for earlier years.

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

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

ITEM	United States	Connecticut	Georgia	Massachusetts	New Jersey	New York	North Carolina	Pennsylvania	Rhode Island	South Carolina	Tennessee	Other States ¹
Number of establishments ¹	300	9	10	81	37	30	18	49	34	9	3	20
Proprietors and firm members	125	3	3	37	25	8	11	19	10	7	—	2
Persons reported by manufacturing establishments, total ²	27,259	430	249	10,595	706	430	444	6,556	2,360	530	35	4,824
Salaried officers of corporations ³	411	8	14	105	47	42	20	76	45	12	3	39
Manufacturing:												
Salaried employees ³	2,806	46	24	913	97	33	43	591	525	27	4	503
Wage earners (average for the year) ⁴	21,904	324	202	8,269	596	338	367	5,464	1,704	476	25	4,143
Distribution	1,602	27	9	911	48	31	14	362	81	11	3	105
Construction	361	—	—	277	1	—	—	45	5	3	—	30
Other	175	25	—	120	7	—	—	18	—	1	—	4
Salaries and wages, total ⁵	\$39,586,846	\$604,634	\$271,707	\$16,028,216	\$1,186,527	\$650,288	\$579,660	\$9,916,230	\$3,362,407	\$521,956	\$34,060	\$6,421,252
Salaried officers ³	2,717,426	57,804	35,160	1,024,550	268,507	138,353	87,956	490,850	289,115	68,478	6,240	255,413
Manufacturing:												
Salaries ³	4,967,188	84,027	46,682	1,718,223	175,331	64,625	77,940	1,094,423	750,368	40,754	3,216	903,599
Wages	27,614,519	379,630	166,934	10,780,303	662,769	407,935	372,008	7,341,299	2,084,820	369,178	19,585	5,030,067
Distribution	3,512,179	43,388	23,931	1,924,343	72,253	53,375	41,756	901,897	280,885	30,769	5,028	183,604
Construction	509,872	—	—	390,773	186	—	—	65,894	7,219	3,619	—	41,681
Other	266,162	39,785	—	160,024	7,490	—	—	21,867	—	168	—	6,828
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	33,598,333	570,413	470,758	13,334,893	1,445,560	483,807	720,935	8,418,034	2,819,388	601,240	86,472	4,846,824
Materials and supplies	32,005,000	540,960	457,605	12,654,036	1,895,138	468,045	693,835	8,122,964	2,659,691	571,910	85,111	4,360,705
Fuel	772,922	14,403	4,055	395,434	19,718	5,715	9,563	111,022	77,312	14,607	530	120,673
Purchased electric energy	747,471	15,050	9,098	268,889	29,877	14,696	15,268	173,885	72,894	14,832	831	133,152
Contract work	72,940	—	—	17,034	827	352	2,279	10,163	9,991	—	—	32,294
Value of products	93,276,326	1,361,363	1,009,746	35,773,630	3,307,380	1,604,709	1,723,806	23,739,854	8,336,755	1,558,177	151,039	14,809,317
Value added by manufacture ⁴	59,677,993	790,950	538,988	22,438,737	1,861,770	1,020,902	1,002,871	15,321,820	5,517,367	956,928	65,167	10,162,493

¹ Illinois, 3 establishments; Kentucky, 1; Maine, 3; Maryland, 1; Michigan, 1; New Hampshire, 8; Ohio, 2; Vermont, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

CENSUS OF MANUFACTURES: 1939

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

	1939	1937	1929
Textile Machinery industry, all products, total value.....	\$93,276,326	\$107,428,810	\$122,438,514
Textile machinery, parts, attachments, and accessories made in this industry.....	84,752,666	99,733,756	112,851,238
Miscellaneous products not specified.....	177,711	3,840,439	2,600,414
Other products (not classified in this industry).....	4,875,174	3,854,615	6,977,862
Receipts for contract and repair work.....	3,470,775		
Textile machinery, parts, attachments, and accessories, total value.....	85,600,555	100,696,203	115,525,123
Textile machinery, parts, attachments, and accessories made in this industry.....	84,752,666	99,733,756	112,851,238
Textile machinery and parts made as secondary products in other industries.....	847,889	962,447	2,673,885

¹ Data for roll covers and receipts for roll covering included in the "Machine-shop products, not elsewhere classified" industry for 1939; in "Receipts for contract and repair work" to the amount of \$1,148,668 for 1937; corresponding data for 1929 not reported separately.

² Revised.

³ Chiefly value of needles, castings, and machine-shop products.

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

PRODUCT	1939	1937	1929
Total value.....	\$85,600,555	\$100,696,203	\$115,525,123
Fiber-to-fabric machinery, total value.....	\$17,898,982	\$23,773,462	\$23,106,002
Picker machines:			
Number.....	288	510	1,741
Value.....	\$571,646	\$1,024,322	\$1,903,440
Carding machines:			
Number.....	470	1,924	3,290
Value.....	\$860,236	\$1,603,557	\$2,847,993
Combing machines:			
Number.....	237	(1)	4,228
Value.....	\$388,978	\$2,900,725	\$1,822,063
Garnetting machines, drawing and roving frames, value.....	\$1,904,223		
Spinning machines:			
Number.....	4,144	5,600	5,419
Value.....	\$6,155,377	\$9,687,116	\$4,868,799
Doubling and twisting frames:			
Number.....	1,056	2,184	2,350
Value.....	\$2,777,923	\$2,607,683	\$4,160,465
Winders—skein, spool, bobbin, quill, cone, etc.:			
Number.....	72,856	76,893	111,333
Value.....	\$3,925,748	\$4,801,341	\$4,824,962
Beaming, warping, and slashing machines, value.....	\$1,314,852	\$1,148,718	\$2,607,674

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

PRODUCT	1939	1937	1929
Fabric machinery, total value.....	\$19,927,225	\$19,283,473	\$20,942,030
Knitting machines, total value.....	\$11,907,977	\$7,977,063	\$19,069,540
Hosiery (full-fashioned and circular):			
Number.....	4,509	2,465	
Value.....	\$10,844,884	\$5,655,610	
Other than hosiery:			
Circular—			
Spring-needle—			
Number reported—			
Number.....	66		
Value.....	\$60,150		
Number not reported, value.....	\$67,633		
Latch-needle—			
Number reported—			
Number.....	414	1,081	
Value.....	\$456,260	\$1,005,138	
Number not reported, value.....	\$36,900		
Other knitting machines, including loopers—			
Number.....	2,430	1,858	
Value.....	\$532,010	\$1,256,305	
Braiding machines:			
Number.....	2,669		
Value.....	\$467,536		
Looms for weaving and other fabric machines, including jacquard, lace and net, embroidery, and cordage and rope machines, value.....	\$7,471,712	\$11,300,420	\$9,837,920
Machinery for bleaching, dyeing, printing, mercerizing, finishing, etc., stock, yarn, cloth, etc., value.....	\$5,906,061	\$6,703,330	\$9,331,864
Machinery for drying stock, yarn, cloth, etc., value.....	\$1,678,180	\$3,503,311	\$3,302,284
Other textile machinery, value.....	\$3,661,021	\$5,087,304	
Extra parts, attachments, and accessories, total value.....	\$36,408,480	\$42,375,233	\$43,842,943
Card clothing:			
Total square feet.....	1,008,637	1,192,501	
Total value.....	\$2,537,068	\$3,207,031	
For cotton—			
Square feet.....	609,808	627,100	
Value.....	\$1,456,081	\$1,602,774	
For wool and other fabrics—			
Square feet.....	398,820	565,341	
Value.....	\$1,080,385	\$1,664,257	
Spindles, value.....	\$104,758	\$274,310	
Other parts, attachments, and accessories, value.....	\$33,766,662	\$38,833,892	

¹ Combined to avoid disclosing, exactly or approximately, data for individual establishments. Data for numbers for 1937 incomplete.

² Full-fashioned hosiery machinery not called for specifically on schedule.

³ Other textile machinery and that not reported by class or type.

⁴ Includes some data for roll covers and receipts for recovering rolls.

⁵ Not reported separately.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	21,904	20,541	20,851	20,861	21,105	21,700	21,866	21,778	21,772	21,787	22,621	23,705	24,170
1937.....	25,340	24,409	25,244	25,963	26,638	26,739	26,850	26,150	25,803	25,498	24,901	23,379	22,412
1929.....	27,019	25,760	26,868	26,838	27,054	27,365	27,687	27,812	27,662	27,963	27,251	26,737	26,836
Connecticut.....	324	413	885	844	336	833	321	311	289	284	290	288	266
Georgia.....	202	193	195	194	190	191	196	192	193	205	222	222	233
Illinois.....	432	339	362	382	397	400	411	435	463	455	498	517	525
Maine.....	2,260	2,181	2,191	2,211	2,243	2,303	2,225	2,206	2,181	2,160	2,222	2,371	2,624
Massachusetts.....	8,269	7,574	7,697	7,633	7,770	7,768	7,953	8,181	8,213	8,289	8,706	9,567	9,804
New Hampshire.....	1,061	884	937	989	1,061	1,005	1,021	1,030	1,044	1,113	1,250	1,222	1,227
New Jersey.....	596	527	544	564	594	598	598	600	600	600	614	650	668
New York.....	333	325	331	328	318	331	348	336	340	331	320	344	336
North Carolina.....	367	339	347	367	341	359	382	377	373	370	375	392	396
Pennsylvania.....	5,464	5,163	5,220	5,210	5,272	5,814	5,672	5,566	5,578	5,517	5,512	5,544	5,492
Rhode Island.....	1,704	1,562	1,641	1,661	1,660	1,767	1,822	1,685	1,700	1,713	1,720	1,779	1,725
South Carolina.....	476	466	464	469	479	476	481	483	461	461	466	506	502
Tennessee.....	25	21	23	27	27	26	21	17	24	12	35	36	36

TEXTILE MACHINERY

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TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	300
Reporting expenditures for plant and equipment.....	174
Value of products:	
Total for the industry.....	\$93, 276, 326
Reporting expenditures for plant and equipment.....	84, 082, 110
Expenditures for plant and equipment:	
Total for the industry.....	2, 832, 086
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	514, 284
Expenditures for new machinery and operating equipment.....	2, 091, 367
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	227, 345

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$27, 804, 506	\$22, 820, 041
Finished products.....	12, 038, 517	9, 062, 442
Materials, supplies, etc.....	15, 826, 079	13, 757, 599
End of year, total.....	28, 114, 204	26, 476, 043
Finished products.....	11, 234, 746	10, 225, 075
Materials, supplies, etc.....	16, 870, 458	16, 250, 968
Value of products for the industry, total.....	93, 270, 326	107, 428, 810
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	92, 927, 620	105, 833, 350
Value for establishments not reporting inventories.....	348, 706	1, 595, 460

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

	1939	1929
Number of establishments.....	300	376
Number of establishments reporting power equipment.....	297	369
Prime movers, aggregate:		
Number.....	63	111
Horsepower.....	12, 469	19, 491
Prime movers, driving generators, total—		
Number.....	30	1 111
Horsepower.....	9, 505	1 19, 491
Steam engines—		
Number.....	14	1 74
Horsepower.....	2, 830	1 12, 054

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

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam turbines—		
Number.....	4	1 8
Horsepower.....	5, 080	1 5, 165
Diesel and semi-Diesel engines—		
Number.....	4	
Horsepower.....	550	1 8
Other internal-combustion engines ¹ —		
Number.....	1	1 448
Horsepower.....	40	
Hydroturbines and water wheels—		
Number.....	7	1 21
Horsepower.....	1, 005	1 1, 824
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	919	
Prime movers not driving generators, total—		
Number.....	33	
Horsepower.....	2, 964	
Steam engines—		
Number.....	11	
Horsepower.....	1, 337	(²)
Internal-combustion engines, ² other than Diesel and semi-Diesel—		
Number.....	16	
Horsepower.....	1, 444	
Hydroturbines and water wheels—		
Number.....	6	
Horsepower.....	183	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	800	
Generators, kilowatt rating, total.....	6, 830	16, 855
Generators, driven by—		
Steam engines, kilowatt rating.....	2, 015	
Steam turbines, kilowatt rating.....	3, 700	
Diesel and semi-Diesel engines, kilowatt rating.....	385	(²)
Other internal-combustion engines, ² kilowatt rating.....	25	
Hydroturbines and water wheels, kilowatt rating.....	705	
Generators, ordinarily idle (included above), kilowatt rating.....	580	(⁴)
Electric motors, total:		
Number.....	14, 242	8, 932
Horsepower.....	75, 276	64, 205
Driven by purchased energy—		
Number.....	12, 216	7, 170
Horsepower.....	61, 376	47, 048
Driven by energy generated in establishments reporting—		
Number.....	2, 026	1, 762
Horsepower.....	13, 900	17, 157
Electric energy (kilowatt-hours):		
Generated in plant.....	11, 827, 899	(⁴)
Sold.....	292, 349	(³)
Purchased.....	42, 865, 722	45, 525, 862

¹ Includes data for prime movers not driving generators.

² Gas, gasoline, etc.

³ Not called for on schedule.

⁴ Data not available.

WOODWORKING MACHINERY

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of machinery for sawmills, planing mills, cabinet and furniture makers, pattern makers, and veneer workers. This classification also includes small woodworking machinery for home, shop, and professional craftsmen, and portable electric woodworking tools. It does not

include hand tools such as planes, axes, drawknives, etc. Establishments in this industry were formerly assigned to the "Machinery not elsewhere classified" industry and were given a separate classification for the first time at the census for 1939. Figures for 1937 in these tables have been adjusted for comparison with 1939. There are no comparative figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	130	3,622	\$4,656,946	\$8,291,723	\$21,604,106	\$13,312,383	3,743
1937 ⁴	106	3,678	4,856,128	8,374,601	20,311,375	11,936,774	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable data for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Illinois	Indiana	Iowa	Massachusetts	Michigan	Minnesota
Number of establishments ¹	130	7	13	5	3	10	13	8
Proprietors and firm members.....	32	4	2	-----	3	3	5	-----
Persons reported by manufacturing establishments, total ²	5,121	100	627	122	27	356	488	73
Salaried officers of corporations ³	222	6	27	13	3	12	24	8
Manufacturing.....								
Salaried employees ³	693	9	102	22	4	45	73	11
Wage earners (average for the year) ³	3,622	45	466	84	20	286	332	51
Distribution.....	553	49	28	3	-----	13	59	3
Construction.....	3	-----	-----	-----	-----	-----	-----	-----
Other.....	28	-----	4	-----	-----	-----	-----	-----
Salaries and wages, total ³	\$8,004,578	\$142,921	\$1,113,470	\$179,557	\$37,170	\$601,055	\$695,861	\$110,959
Salaried officers ³	1,041,899	17,210	133,143	43,377	16,884	85,833	82,649	25,400
Manufacturing.....								
Salaries ³	1,238,622	14,530	139,210	25,381	4,116	88,736	121,405	20,158
Wages.....	4,656,946	64,339	727,037	104,795	16,170	390,016	889,607	62,691
Distribution.....	1,032,823	46,842	60,489	6,004	-----	36,470	102,200	2,710
Construction.....	2,505	-----	-----	-----	-----	-----	-----	-----
Other.....	31,778	-----	3,591	-----	-----	-----	-----	-----
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	8,291,723	133,098	1,115,804	239,331	49,752	375,829	583,306	119,691
Materials and supplies.....	7,768,782	129,944	1,063,546	189,690	48,053	328,028	547,761	114,562
Fuel.....	131,314	95	13,811	2,154	628	15,574	16,224	1,972
Purchased electric energy.....	180,722	2,014	25,903	6,604	1,071	20,969	15,573	3,167
Contract work.....	210,905	1,045	12,544	40,883	-----	11,258	3,748	-----
Value of products.....	21,604,106	441,220	3,650,053	558,058	122,917	1,288,501	1,708,465	323,016
Value added by manufacture ⁴	13,312,383	308,122	2,534,249	318,727	73,165	912,672	1,125,159	208,325

See footnotes at end of table.

WOODWORKING MACHINERY

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

ITEM	New Jersey	New York	North Carolina	Ohio	Oregon	Pennsylvania	Washington	Wisconsin	Other States ¹
Number of establishments ¹	4	10	4	13	5	7	10	9	14
Proprietors and firm members.....				7	1		3		4
Persons reported by manufacturing establishments, total ²	555	489	129	296	58	245	257	1,009	280
Salaried officers of corporations ²	15	17	8	18	7	15	10	22	17
Manufacturing:									
Salaried employees ²	81	78	12	32	5	30	23	136	30
Wage earners (average for the year) ²	361	335	92	213	45	154	215	720	202
Distribution.....	98	51	17	33	1	46	8	113	31
Construction.....		2					1		
Other.....		6						18	
Salaries and wages, total ²	\$938,973	\$749,683	\$160,992	\$481,854	\$91,167	\$345,357	\$424,279	\$1,620,237	\$311,043
Salaried officers ²	138,076	87,764	17,612	98,815	29,100	67,503	39,213	103,539	54,581
Manufacturing:									
Salaries ²	180,342	144,275	17,829	57,163	9,489	48,388	41,737	239,203	36,660
Wages.....	419,853	439,695	103,036	247,146	50,298	167,008	323,544	963,642	183,069
Distribution.....	190,802	68,005	22,515	78,730	2,280	62,158	18,094	204,796	31,733
Construction.....		814					1,691		
Other.....		9,130						19,057	
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	816,360	928,119	124,518	663,710	65,165	351,659	385,645	2,008,998	330,732
Materials and supplies.....	711,848	808,883	119,591	607,452	61,912	339,136	366,524	1,928,609	313,253
Fuel.....	13,150	13,763	1,539	10,043	595	4,138	4,465	27,874	5,169
Purchased electric energy.....	15,484	15,483	3,388	9,581	2,658	8,017	14,556	27,871	8,283
Contract work.....	75,884			36,634		368		24,544	3,997
Value of products.....	1,878,868	1,839,792	329,157	1,580,485	202,010	1,166,449	1,084,371	4,584,064	846,680
Value added by manufacture ⁴	1,062,502	911,673	204,639	916,775	136,845	814,790	698,720	2,575,066	515,948

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Alabama, 1 establishment; Connecticut, 2; Florida, 1; Kentucky, 2; Louisiana, 1; Maine, 1; Mississippi, 1; Missouri, 1; Tennessee, 3; Virginia, 1.

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

	1939	1937
Woodworking Machinery industry, all products, total value.....	\$21,604,106	\$20,311,375
Woodworking machinery (including replacement and repair parts) made in this industry.....	18,778,791	17,920,497
Other products (not classified in this industry).....	¹ 1,795,621	1,727,746
Miscellaneous products not specified.....	381,734	663,132
Receipts for contract and repair work.....	647,960	
Woodworking machinery and replacement and repair parts, aggregate value.....	24,171,951	23,874,445
Woodworking machinery and replacement and repair parts made in the industry.....	18,778,791	17,920,497
Woodworking machinery made as secondary products in other industries.....	5,393,160	5,953,948

¹ Chiefly value of bakers' machinery, machine tools, paper- and pulp-mill machinery, and castings.

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

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Total value.....	\$18,778,791	\$5,393,160	\$24,171,951	\$23,874,445
Sawmill machinery, value.....	\$1,082,682	\$1,269,172	\$2,351,854	\$3,861,110
Planing-mill, pattern makers', cabinet and furniture makers', and similar machinery, value.....	\$6,068,490	\$2,434,885	\$8,503,375	\$7,911,048
Veneer machines:				
Number reported—				
Number.....	169	41	210	
Value.....	\$677,652	\$95,154	\$772,806	
Number not reported, value.....	\$344,158	\$251,884	\$596,042	\$1,293,145
Saws, jointers, lathes, shapers, etc. (small size for home, shop, and professional craftsmen):				
Number reported—				
Number.....	365,763	227	365,990	
Value.....	\$3,797,596	\$60,924	\$3,858,520	(¹)
Number not reported, value.....	\$542,937	\$414,425	\$957,362	
Portable woodworking tools, including electric hand saws:				
Number reported—				
Number.....	10,178	2,866	13,044	
Value.....	\$1,317,931	\$282,686	\$1,600,617	\$2,014,456
Number not reported, value.....	\$1,184,068	\$74,768	\$1,258,836	
Other woodworking machines, value.....	\$3,004,056	\$509,262	\$3,513,318	\$8,038,606
Parts and attachments for woodworking machinery, value.....	\$759,221		\$759,221	\$756,080

¹ The values of "Saws, jointers, lathes, shapers, etc." not reported separately; included in "Other woodworking machines."² Includes value for a small amount of drills and grinders not separately reported.

CENSUS OF MANUFACTURES: 1939

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	3,622	3,364	3,432	3,472	3,498	3,454	3,488	3,515	3,505	3,635	3,821	4,013	4,172
1937	3,678	3,361	3,484	3,651	3,780	3,866	3,943	3,865	3,893	3,860	3,741	3,426	3,271
California	45	48	48	47	44	46	44	42	43	42	44	46	48
Illinois	406	401	422	437	450	452	463	460	480	480	491	516	528
Indiana	84	69	69	70	68	68	72	77	81	98	110	113	118
Iowa	20	19	19	20	21	20	19	19	19	19	19	20	21
Massachusetts	286	272	269	285	281	270	265	266	264	265	287	317	366
Michigan	332	322	308	312	314	303	306	311	346	355	353	372	379
Minnesota	51	52	51	55	53	43	44	49	40	51	52	54	57
New Jersey	361	332	344	353	358	337	352	346	353	369	388	399	400
New York	335	302	315	315	299	299	310	328	331	329	376	396	416
North Carolina	92	89	90	90	94	97	91	92	90	88	93	91	97
Ohio	213	232	218	210	213	215	211	200	199	205	209	217	228
Oregon	45	40	40	41	45	45	45	45	46	45	40	49	49
Pennsylvania	154	140	143	149	150	148	153	148	156	150	164	165	175
Tennessee	60	57	55	63	66	70	68	60	72	71	72	68	67
Washington	215	190	190	196	195	191	195	204	216	213	244	261	285
Wisconsin	720	675	686	689	706	717	715	711	712	711	730	788	796

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron	2,531	\$60,793
Scrap iron and steel purchased as such	4,102	57,035

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	130
Reporting expenditures for plant and equipment	78
Value of products:	
Total for the industry	\$21,604,106
Reporting expenditures for plant and equipment	10,951,655
Expenditures for plant and equipment:	
Total for the industry	538,471
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	135,720
Expenditures for new machinery and operating equipment	283,173
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	119,578

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

	1939	1937
Inventories:		
Beginning of year, total	\$6,247,392	\$5,560,712
Finished products	2,497,207	2,002,012
Materials, supplies, etc.	3,750,185	3,558,700
End of year, total	7,029,372	6,063,564
Finished products	2,841,600	2,274,399
Materials, supplies, etc.	4,187,772	3,819,165
Value of products for the industry, total	21,604,106	20,311,375
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	21,571,723	20,282,545
Value for establishments not reporting inventories	32,383	28,830

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments	130
Number of establishments reporting power equipment	129
Prime movers, aggregate:	
Number	33
Horsepower	3,743
Prime movers, driving generators, total—	
Number	22
Horsepower	3,278
Steam engines—	
Number	10
Horsepower	1,770
Steam turbines—	
Number	1
Horsepower	700
Diesel and semi-Diesel engines—	
Number	1
Horsepower	50
Other internal-combustion engines ² —	
Number	5
Horsepower	525
Hydroturbines and water wheels—	
Number	5
Horsepower	233
Prime movers, driving generators, ordinarily idle (included above), horsepower	400
Prime movers not driving generators, total—	
Number	11
Horsepower	465
Steam engines—	
Number	6
Horsepower	330
Steam turbines—	
Number	3
Horsepower	80
Diesel and semi-Diesel engines—	
Number	1
Horsepower	40
Other internal-combustion engines ² —	
Number	1
Horsepower	16
Generators, kilowatt rating, total	2,161
Generators, driven by—	
Steam engines, kilowatt rating	1,195
Steam turbines, kilowatt rating	600
Diesel and semi-Diesel engines, kilowatt rating	35
Other internal-combustion engines, ² kilowatt rating	360
Hydroturbines and water wheels, kilowatt rating	71
Generators, ordinarily idle (included above), kilowatt rating	270
Electric motors, total:	
Number	4,570
Horsepower	21,460
Driven by purchased energy—	
Number	4,186
Horsepower	17,803
Driven by energy generated in establishments reporting—	
Number	404
Horsepower	3,657
Electric energy (kilowatt-hours):	
Generated in plant	1,871,617
Sold	39,432
Purchased	8,225,919

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

PAPER-MILL, PULP-MILL, AND PAPER-PRODUCTS MACHINERY

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of machinery for the paper-pulp, paper, and paper products industries. These establishments were formerly assigned to the "Machinery, not elsewhere

classified" industry but were given a separate industry classification for the first time at the census for 1939. The figures for 1937 in these tables have been adjusted for comparison with 1939; there are no comparable figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ¹	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ²	Horse-power of prime movers
1939.....	99	5,409	\$7,775,242	\$12,727,445	\$32,419,924	\$19,692,479	4,112
1937 ⁴	91	6,813	10,801,258	19,015,419	43,406,178	24,300,759	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable figures for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	Massachusetts	New Hampshire	New Jersey	New York	Ohio	Pennsylvania	Wisconsin	Other States ¹
Number of establishments ²	99	20	6	3	24	7	10	12	17
Proprietors and firm members.....	28	4	1	—	0	—	5	—	12
Persons reported by manufacturing establishments, total ³	7,258	1,438	319	500	1,555	1,080	550	1,121	696
Salaried officers of corporations ³	192	49	14	11	40	14	14	30	20
Manufacturing:									
Salaried employees ³	1,206	198	27	85	250	201	95	249	95
Wage earners (average for the year) ⁴	5,409	1,102	242	385	1,134	810	381	820	536
Distribution.....	411	83	36	17	115	52	67	22	29
Construction.....	26	6	—	2	—	3	—	—	15
Other.....	14	—	—	—	10	—	3	—	1
Salaries and wages, total ³	\$12,900,332	\$2,472,088	\$643,296	\$897,061	\$2,703,582	\$1,815,928	\$975,786	\$2,188,324	\$1,293,667
Salaried officers ³	1,005,548	358,396	161,343	158,001	317,725	93,429	97,036	300,927	112,692
Manufacturing:									
Salaries ³	2,437,604	421,758	40,088	165,804	518,200	424,652	202,539	488,752	169,951
Wages.....	7,775,242	1,466,809	344,999	511,145	1,599,740	1,146,948	549,223	1,290,243	856,135
Distribution.....	1,105,540	214,741	90,916	48,021	250,915	147,104	124,463	102,402	120,978
Construction.....	51,736	10,984	—	14,090	—	3,795	—	—	22,878
Other.....	14,572	—	—	—	11,002	—	2,526	—	1,044
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	12,727,445	2,563,048	642,153	960,789	2,170,084	1,698,429	784,327	2,373,395	1,585,215
Materials and supplies.....	12,141,188	2,462,182	626,102	936,690	2,001,959	1,616,689	690,640	2,305,490	1,511,436
Fuel.....	250,505	45,059	7,277	5,413	56,713	34,045	27,433	39,411	35,154
Purchased electric energy.....	254,084	58,058	8,704	18,680	51,500	47,695	14,764	28,494	26,143
Contract work.....	81,718	7,749	75	—	59,912	—	1,500	—	12,482
Value of products.....	32,419,924	6,246,578	1,517,096	2,683,303	5,673,412	5,068,031	2,052,830	5,799,955	3,384,719
Value added by manufacture ⁴	19,692,479	3,683,530	874,938	1,722,514	3,503,323	3,369,602	1,318,503	3,420,560	1,799,504

¹ California, 2 establishments; Connecticut, 2; Delaware, 1; Illinois, 1; Indiana, 2; Kansas, 1; Maine, 1; Maryland, 1; Michigan, 2; Minnesota, 3; Missouri, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

CENSUS OF MANUFACTURES: 1939

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

	1939	1937
Paper-Mill, Pulp-Mill, and Paper-Products Machinery industry, all products, total value.....	\$32,419,924	\$43,406,178
Paper-mill, pulp-mill, and paper-products machinery, parts and attachments, made in this industry.....	29,453,850	38,451,577
Miscellaneous products not specified.....	11,305	3,824,194
Other products (not classified in this industry).....	12,362,289	1,130,407
Receipts for contract and repair work.....	592,480	
Paper-mill, pulp-mill, and paper-products machinery, parts and attachments, aggregate value.....	31,227,375	41,340,948
Paper-mill, pulp-mill, and paper-products machinery, parts and attachments, made in this industry.....	29,453,850	38,451,577
Paper-mill and pulp-mill machinery, etc., made as secondary products in other industries.....	1,773,525	2,889,371

¹ Chiefly value of packaging and wrapping machines, transmissions, castings, rubber-working machinery, and saw-mill machinery.

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

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Total value.....	\$29,453,850	\$1,773,525	\$31,227,375	\$41,340,948
Paper-container machines, total value.....	\$6,749,410	\$561,862	\$7,311,272	\$7,274,732
Bag-making and envelope-making, value.....	\$1,174,416	\$100,022	\$1,274,438	\$1,886,639
Box-making:				
Number reported—	1,547	46	1,593	
Number.....	33,283,742	\$116,739	\$3,400,481	
Value.....	\$1,706,737	\$123,551	\$1,830,288	
Other:				
Number reported—	455	2	457	
Number.....	\$155,081	\$29,737	\$185,718	
Value.....	\$428,534	\$101,813	\$530,347	
Number not reported, value.....				(¹) \$5,888,003
Paper-mill and pulp-mill machinery, value.....	\$20,304,804	\$1,211,663	\$21,516,467	\$33,176,585
Parts and attachments, value.....	\$2,399,636		\$2,399,636	\$889,631

¹ No data.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	5,400	5,101	5,171	5,191	5,135	5,096	5,225	5,205	5,347	5,386	5,695	6,057	6,301
1937.....	6,813	6,270	6,508	6,739	6,871	6,961	6,928	7,024	7,066	7,053	6,985	6,776	6,585
Massachusetts.....	1,102	1,033	1,057	1,015	1,019	1,012	1,010	989	1,041	1,076	1,177	1,356	1,444
Minnesota.....	70	64	72	74	75	75	70	78	70	84	88	89	89
New Hampshire.....	242	218	224	237	238	222	233	230	249	251	260	260	271
New Jersey.....	885	373	350	388	389	388	386	368	368	367	386	407	415
New York.....	1,134	1,059	1,085	1,099	1,067	1,070	1,103	1,122	1,160	1,166	1,190	1,236	1,246
Ohio.....	810	876	856	846	797	771	768	754	783	730	813	853	874
Pennsylvania.....	881	392	347	346	347	348	386	393	368	368	402	433	443
Wisconsin.....	820	731	733	745	771	757	778	776	813	855	903	947	1,031

PAPER-MILL, PULP-MILL, AND PAPER-PRODUCTS MACHINERY

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TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL IN THE INDUSTRY: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	9,304	\$212,276
Scrap iron and steel purchased as such.....	8,209	126,813

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	99
Reporting expenditures for plant and equipment.....	66
Value of products:	
Total for the industry.....	\$32,419,924
Reporting expenditures for plant and equipment.....	29,360,093
Expenditures for plant and equipment:	
Total for the industry.....	679,432
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	163,880
Expenditures for new machinery and operating equipment.....	481,172
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	34,380

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$8,321,576	\$7,172,188
Finished products.....	2,357,518	1,946,076
Materials, supplies, etc.....	5,964,060	5,226,112
End of year, total.....	8,555,728	9,278,475
Finished products.....	2,335,916	2,095,260
Materials, supplies, etc.....	6,219,812	7,183,215
Value of products for the industry, total.....	32,419,924	43,406,178
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	32,419,924	43,100,906
Value for establishments not reporting inventories.....		305,272

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	99
Number of establishments reporting power equipment.....	99
Prime movers, aggregate:	
Number.....	34
Horsepower.....	4,112
Prime movers, driving generators, total—	
Number.....	24
Horsepower.....	3,787
Steam engines—	
Number.....	9
Horsepower.....	1,285
Steam turbines—	
Number.....	2
Horsepower.....	935
Diesel and semi-Diesel engines—	
Number.....	5
Horsepower.....	500
Hydroturbines and water wheels—	
Number.....	8
Horsepower.....	1,087
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	332
Prime movers not driving generators, total—	
Number.....	10
Horsepower.....	325
Steam engines—	
Number.....	2
Horsepower.....	125
Diesel and semi-Diesel engines—	
Number.....	2
Horsepower.....	50
Other internal-combustion engines ² —	
Number.....	2
Horsepower.....	60
Hydroturbines and water wheels—	
Number.....	4
Horsepower.....	90
Generators, kilowatt rating, total.....	2,726
Generators, driven by—	
Steam engines, kilowatt rating.....	886
Steam turbines, kilowatt rating.....	605
Diesel and semi-Diesel engines, kilowatt rating.....	325
Hydroturbines and water wheels, kilowatt rating.....	820
Generators, ordinarily idle (included above), kilowatt rating.....	231
Electric motors, total:	
Number.....	5,113
Horsepower.....	39,560
Driven by purchased energy—	
Number.....	4,043
Horsepower.....	31,506
Driven by energy generated in establishments reporting—	
Number.....	1,070
Horsepower.....	7,964
Electric energy (kilowatt-hours):	
Generated in plant.....	4,286,145
Sold.....	1,395,703
Purchased.....	12,875,286

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

PRINTING-TRADES MACHINERY AND EQUIPMENT

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of machinery and apparatus used by the printing, photo-engraving, and bookbinding trades, including type and

engravers' plates and stones but not including paper and ink. This industry was first given a separate classification at the census for 1935; therefore, there are no figures for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1935 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	231	9,376	\$14,046,956	\$15,052,964	\$55,581,691	\$40,528,727	4,136
1937.....	230	13,716	22,377,662	20,965,903	78,628,255	57,062,352	(*)
1935 ⁴	238	9,884	13,582,101	13,130,929	51,559,758	38,428,829	(*)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Not called for on schedule.

⁵ No comparable figures for years prior to 1935.

⁶ Data not available.

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

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

ITEM	United States	California	Connecticut	Illinois	Maryland	Massachusetts	Michigan	Missouri
Number of establishments ¹	231	18	3	48	3	3	15	9
Proprietors and firm members.....	93	16	—	28	2	—	2	2
Persons reported by manufacturing establishments, total ²	13,130	123	407	2,682	21	199	588	62
Salaried officers of corporations ³	261	10	8	45	3	8	24	8
Manufacturing:								
Salaried employees ⁴	2,092	18	79	358	2	18	40	5
Wage earners (average for the year) ⁵	9,376	65	308	1,971	11	148	405	40
Distribution.....	1,376	30	6	284	3	19	110	9
Construction.....	20	—	—	12	—	3	1	—
Other.....	104	—	6	12	2	3	2	—
Salaries and wages, total ⁶	\$23,480,578	\$213,454	\$657,101	\$4,900,224	\$57,340	\$378,075	\$993,358	\$100,001
Salaried officers ⁷	1,816,454	30,402	48,010	277,283	23,160	71,950	165,432	19,728
Manufacturing:								
Salaries ⁸	4,178,695	39,932	109,844	775,408	3,483	36,900	96,495	6,884
Wages.....	14,646,956	98,931	412,354	3,248,930	16,085	192,318	516,987	53,101
Distribution.....	2,079,758	44,189	17,716	555,365	11,352	67,506	209,015	21,278
Construction.....	39,780	—	—	27,816	—	4,465	1,617	—
Other.....	118,635	—	9,177	15,332	2,680	4,936	3,212	—
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	15,052,964	284,066	280,290	3,687,809	22,966	359,996	797,184	73,177
Materials and supplies.....	14,169,692	274,472	248,885	3,477,880	21,331	339,831	742,820	68,134
Fuel.....	319,643	1,093	12,415	80,492	626	5,579	23,271	2,620
Purchased electric energy.....	429,570	2,906	18,990	95,677	1,009	14,586	20,869	2,414
Contract work.....	134,050	5,505	—	53,760	—	—	10,218	—
Value of products.....	55,581,691	606,364	1,051,435	13,003,317	115,901	1,023,187	2,308,050	274,665
Value added by manufacture ⁹	40,528,727	322,298	771,145	9,315,508	92,935	663,191	1,510,866	201,458

See footnotes at end of table.

PRINTING-TRADES MACHINERY AND EQUIPMENT

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

ITEM	New Jersey	New York	Ohio	Pennsylvania	Texas	Wisconsin	Other States ¹
Number of establishments ¹	11	48	13	18	4	6	32
Proprietors and firm members.....	1	12	6	12	1	—	11
Persons reported by manufacturing establishments, total ²	1,507	4,184	921	1,411	24	215	700
Salaried officers of corporations ²	22	64	10	20	3	0	21
Manufacturing:							
Salaried employees ²	241	751	130	201	2	25	120
Wage earners (average for the year) ³	1,198	2,504	723	980	11	151	472
Distribution.....	80	465	49	200	8	23	90
Construction.....	—	—	—	—	—	3	1
Other.....	56	10	3	4	—	4	2
Salaries and wages, total ²	\$3,057,255	\$7,530,470	\$1,580,745	\$2,393,010	\$37,101	\$370,561	\$1,108,794
Salaried officers ²	214,333	464,443	71,481	229,328	4,800	42,100	154,004
Manufacturing:							
Salaries ²	607,597	1,447,965	322,036	403,109	1,872	61,360	205,051
Wages.....	2,023,343	4,826,356	1,049,835	1,324,879	14,409	229,810	639,000
Distribution.....	150,065	787,544	133,096	433,337	16,110	33,504	197,861
Construction.....	—	—	—	—	—	4,004	888
Other.....	61,287	10,171	3,097	2,207	—	4,775	1,091
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	1,921,916	3,992,853	1,313,956	1,106,084	43,180	241,386	888,101
Materials and supplies.....	1,801,036	3,766,012	1,262,240	1,033,936	36,627	259,216	836,003
Fuel.....	42,818	96,447	25,165	24,689	1,131	5,284	14,004
Purchased electric energy.....	63,146	117,706	25,579	37,250	534	8,470	23,347
Contract work.....	14,316	12,688	972	10,209	4,888	8,407	13,087
Value of products.....	6,035,814	16,867,685	4,811,969	5,160,044	123,701	953,076	3,237,483
Value added by manufacture ⁴	4,113,898	12,874,832	3,498,013	4,062,960	80,521	671,690	2,340,382

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Persons engaged—general classification.

³ See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁵ Colorado, 1 establishment; District of Columbia, 1; Georgia, 2; Indiana, 2; Iowa, 2; Kansas, 2; Kentucky, 3; Louisiana, 1; Maine, 2; Minnesota, 8; New Hampshire, 3; North Carolina, 1; Oklahoma, 1; Oregon, 1; Tennessee, 1; Washington, 1.

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

	1939	1937
Printing-Trades Machinery and Equipment Industry, all products, total value.....	\$55,581,001	\$78,628,255
Printing-trades machinery and equipment, parts and attachments, made in this industry.....	51,593,366	72,403,970
Other products (not classified in the industry).....	1,108,580	1,709,000
Miscellaneous products not specified.....	51,807	—
Receipts for contract and repair work.....	2,827,932	4,455,210
Printing-trades machinery and equipment, parts and attachments, aggregate value.....	52,582,629	74,013,371
Printing-trades machinery and equipment, parts and attachments, made in the industry.....	51,593,366	72,403,970
Printing-trades machinery and equipment made as secondary products in other industries.....	989,263	1,609,401

¹ Chiefly value of supplies such as ink, glue and adhesives, and paper.

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

PRODUCT	1939			1937 ¹
	Produced in the industry	Produced in other industries	Aggregate	
Total value.....	\$51,593,366	\$989,263	\$52,582,629	\$74,013,371
Bookbinding machinery, value.....	\$2,129,973	—	\$2,129,973	\$1,209,035
Photoengraving machinery, value.....	\$895,335	\$15,680	\$911,015	\$1,154,768
Printers' machinery, total value.....	\$31,407,912	\$280,958	\$31,748,870	\$46,581,800
Presses:				
Typographical (sheet-fed)—				
Cylinder (flat-bed)—				
Number.....	1,306	—	1,306	1,228
Value.....	\$5,143,034	—	\$5,143,034	\$6,088,584
Job (vertical, platen)—				
Number.....	1,076	—	1,076	—
Value.....	\$2,407,214	—	\$2,407,214	—
Other (including rotary and proof)—				
Number reported.....	—	—	—	—
Number not reported, value.....	2,345	—	2,345	\$6,083,208
Value.....	\$1,223,435	—	\$1,223,435	—
Typographical (web-fed), rotary—				
Newspaper and magazine—				
Number reported.....	39	—	39	—
Value.....	\$1,875,177	—	\$1,875,177	\$10,201,874
Number not reported, value.....	\$311,801	—	\$311,801	—
Other—				
Number.....	26	—	26	—
Value.....	\$431,534	\$60,875	\$501,409	—
Offset (lithographic)—				
Sheet- and web-fed—				
Number.....	2,417	(3)	417	302
Value.....	\$3,379,618	(3)	\$3,379,618	\$4,325,394
Other, including proof, value.....	\$273,690	—	\$273,690	—

See footnotes at end of table.

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

PRODUCT	1939			1937 ¹
	Produced in the industry	Produced in other industries	Aggregate	
Printers' machinery—Continued.				
Presses—Continued.				
Gravure (intaglio), sheet- and web-fed—				
Number.....		(3)	36	(4)
Value.....	² \$1,051,667	(3)	\$1,051,667	(4)
Presses not reported as to kind, value.....				\$703,002
Typesetting machinery, value.....	\$5,877,599		\$5,877,599	
Electrotyping and stereotyping machines:				
Number.....	² 621	(3)	621	
Value.....	² \$1,115,282	(3)	\$1,115,282	\$11,617,525
Typefoundry machinery, value.....	\$521,063		\$521,063	
Other printers' machinery.....	\$7,829,199	\$173,701	\$8,002,900	\$7,552,000
Printers' rollers, rules, sticks, blocks, type cases, etc.....	\$6,227,016	\$551,015	\$6,778,031	\$7,215,697
Type, leads, slugs, etc.....	\$1,816,415	\$62,305	\$1,878,720	\$1,880,136
Engravers' materials (metal plates, wood blocks, lithographic stones, etc.).....	\$2,485,730	\$50,563	\$2,536,293	\$2,612,500
Parts and attachments.....	\$4,694,904	\$2,138	\$4,697,042	
Rebuilt machines.....	\$1,908,481	\$26,604	\$1,935,085	\$10,362,430

¹ Data for 1937 not strictly comparable with that for 1939 because of the change in the schedule used for the latter year.² Includes data reported by establishments outside the industry which cannot be shown separately without disclosing, exactly or approximately, production of individual establishments.³ Figures included with those "Produced in the industry" to avoid disclosing production reported by individual establishments.⁴ Not called for on schedule.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	9,376	9,159	9,010	9,327	9,270	9,381	9,522	9,490	9,209	9,707	9,748	8,780	9,011
1937.....	13,716	13,245	13,541	13,740	13,892	14,016	14,002	13,899	13,824	13,970	13,500	13,496	13,373
California.....	65	58	61	60	62	65	65	69	67	68	73	67	70
Connecticut.....	308	339	334	343	342	314	310	306	298	289	277	262	270
Illinois.....	1,971	1,835	1,838	1,899	1,980	1,992	2,013	2,046	1,685	2,041	2,066	2,114	2,167
Kentucky.....	73	71	70	79	71	70	71	71	71	72	69	74	70
Maryland.....	11	10	10	10	10	10	10	11	11	12	12	12	12
Massachusetts.....	148	140	146	147	151	150	153	148	149	149	149	149	148
Michigan.....	405	392	395	413	331	369	381	390	408	424	438	466	451
Minnesota.....	115	104	107	111	115	117	118	120	116	117	115	119	117
Missouri.....	40	38	36	39	40	41	37	40	38	41	47	45	39
New Jersey.....	1,198	1,043	1,087	1,176	1,133	1,210	1,261	1,222	1,248	1,285	1,247	1,280	1,176
New York.....	2,894	3,079	2,882	2,935	2,907	2,903	2,920	2,927	2,981	3,028	3,080	1,961	3,122
Ohio.....	723	708	690	680	681	677	740	755	751	745	732	762	758
Pennsylvania.....	980	905	894	979	1,016	1,020	991	932	956	905	1,006	1,030	1,031
Texas.....	11	12	12	12	12	12	11	10	9	10	11	12	10
Wisconsin.....	151	141	142	143	143	141	144	157	162	163	162	155	159

PRINTING-TRADES MACHINERY AND EQUIPMENT

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TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	231
Reporting expenditures for plant and equipment.....	131
Value of products:	
Total for the industry.....	\$55,581,601
Reporting expenditures for plant and equipment.....	48,127,477
Expenditures for plant and equipment:	
Total for the industry.....	1,371,751
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	89,522
Expenditures for new machinery and operating equipment.....	1,202,148
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	80,081

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$25,871,203	\$23,820,296
Finished products.....	12,830,102	9,149,073
Materials, supplies, etc.....	13,041,101	14,671,223
End of year, total.....	25,346,368	26,482,716
Finished products.....	11,935,034	10,200,259
Materials, supplies, etc.....	13,411,334	16,282,457
Value of products for the industry, total.....	55,581,001	78,028,255
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	55,310,444	75,792,569
Value for establishments not reporting inventories.....	271,247	2,835,686

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939		1939
Number of establishments.....	231	Generators, kilowatt rating, total.....	2,186
Number of establishments reporting power equipment.....	229	Generators, driven by—	
Prime movers, aggregate:		Steam engines, kilowatt rating.....	1,622
Number.....	21	Steam turbines, kilowatt rating.....	564
Horsepower.....	4,135	Generators, ordinarily idle (included above), kilowatt rating.....	221
Prime movers, driving generators, total—		Electric motors, total:	
Number.....	13	Number.....	10,940
Horsepower.....	3,158	Horsepower.....	49,514
Steam engines—		Driven by purchased energy—	
Number.....	10	Number.....	10,005
Horsepower.....	2,413	Horsepower.....	44,567
Steam turbines—		Driven by energy generated in establishments reporting—	
Number.....	3	Number.....	935
Horsepower.....	745	Horsepower.....	4,947
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	330	Electric energy (kilowatt-hours):	
Prime movers not driving generators, total—		Generated in plant.....	1,531,239
Number.....	8	Sold.....	36,000
Horsepower.....	977	Purchased.....	20,290,905
Steam engines—			
Number.....	8		
Horsepower.....	977		

¹ Comparable data for 1929 not available.

SPECIAL-INDUSTRY MACHINERY, NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 12, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of machinery for selected industries requiring specialized machines. Cement-making, clay-working, cotton-ginning, glass-making, hat-making, incandescent lamp-making, leather-working, paint-making, rubber-working, stone-working, pharmaceutical, and shoe machinery are

included in this classification. These establishments were formerly assigned to the "Machinery not elsewhere classified" industry but were given a separate industry classification for the first time at the census for 1939. Figures for 1937 in these tables have been adjusted for comparison with 1939, but there are no comparable figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939	207	10,388	\$15,160,633	\$19,836,348	\$55,785,010	\$35,948,068	10,261
1937 ⁴	160	11,459	16,871,910	20,965,405	58,710,317	37,760,912	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable figures for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Connecticut	Georgia	Illinois	Michigan	Missouri	New Jersey
Number of establishments ¹	207	8	9	5	10	6	6	10
Proprietors and firm members	79	6	3		5	2	2	7
Persons reported by manufacturing establishments, total ²	13,648	480	1,272	465	187	226	449	738
Salaried officers of corporations ²	317	11	19	12	16	8	13	20
Manufacturing:								
Salaried employees ²	2,094	61	201	51	18	47	57	122
Wage earners (average for the year) ³	10,388	291	1,015	306	129	101	310	562
Distribution	802	117	18	96	19	10	09	24
Construction	12		2					
Other	35		17		5			1
Salaries and wages, total ²	\$23,205,920	\$964,803	\$2,426,607	\$570,432	\$342,509	\$307,791	\$681,585	\$1,336,800
Salaried officers ²	2,071,598	106,702	167,650	57,963	72,754	43,811	97,518	200,221
Manufacturing:								
Salaries ²	4,184,513	124,856	531,937	96,750	39,556	95,151	110,423	261,089
Wages	15,160,633	432,291	1,593,937	262,014	187,139	241,776	368,400	824,920
Distribution	1,705,793	300,954	80,474	153,705	38,553	17,053	105,154	49,654
Construction	22,143		4,134					
Other	61,240		42,425		4,507			910
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	19,836,348	996,906	1,905,732	622,183	273,309	280,352	515,910	938,792
Materials and supplies	18,066,324	950,365	1,642,555	602,579	252,363	258,807	491,205	883,710
Fuel	388,827	5,649	70,384	5,742	5,172	7,268	10,182	24,738
Purchased electric energy	473,507	15,254	92,217	13,862	11,078	14,287	14,403	20,426
Contract work	307,690	25,738	100,570		4,666			912
Value of products	55,785,010	2,683,962	5,130,214	1,642,386	805,709	1,041,870	1,751,097	3,001,345
Value added by manufacture ⁴	35,948,068	1,687,050	3,224,482	1,020,203	532,400	701,527	1,235,187	2,062,533

See footnotes at end of table.

SPECIAL INDUSTRY MACHINERY, NOT ELSEWHERE CLASSIFIED

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

ITEM	New York	Ohio	Pennsylvania	Texas	Vermont	Wisconsin	Other States ¹
Number of establishments ¹	23	34	18	7	4	5	53
Proprietors and firm members	9	17	4	3	2	4	15
Persons reported by manufacturing establishments, total ²	389	2,513	1,015	567	137	60	5,150
Salaried officers of corporations ²	31	50	35	8	5	10	70
Manufacturing:							
Salaried employees ²	53	402	120	52	22	6	832
Wage earners (average for the year) ³	293	1,961	782	404	101	40	4,033
Distribution	12	90	74	103	9	4	157
Construction		6	2				2
Other		4	2				6
Salaries and wages, total ²	\$690,304	\$4,817,017	\$1,604,281	\$845,520	\$171,778	\$132,472	\$8,217,892
Salaried officers ²	132,945	435,043	217,877	62,119	13,123	49,105	414,707
Manufacturing:							
Salaries ²	97,040	902,221	214,262	106,330	30,819	11,947	1,502,126
Wages	430,645	3,268,708	1,012,070	441,775	107,311	58,170	5,925,322
Distribution	35,728	194,765	155,186	235,305	20,525	13,250	305,487
Construction		10,382	3,677				3,950
Other		5,898	1,200				0,240
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	509,810	4,585,179	2,250,240	950,213	136,137	138,951	5,720,028
Materials and supplies	474,574	4,373,347	2,125,617	926,178	125,812	129,957	5,429,189
Fuel	5,657	47,330	33,828	9,995	7,707	1,271	164,014
Purchased electric energy	19,186	119,545	49,157	14,040	2,618	2,853	75,521
Contract work	10,399	44,957	47,638			4,870	67,904
Value of products	1,600,090	12,615,019	4,830,764	2,412,374	390,659	391,339	17,488,170
Value added by manufacture ⁴	1,090,283	8,029,840	2,674,524	1,462,161	254,522	262,388	11,761,542

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Alabama, 2 establishments; Colorado, 2; Delaware, 2; Indiana, 4; Iowa, 2; Kentucky, 1; Louisiana, 1; Massachusetts, 20; Minnesota, 2; Mississippi, 1; New Hampshire, 1; North Carolina, 1; Oklahoma, 2; Rhode Island, 1; West Virginia, 2.

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

	1939	1937
Special Industry Machinery, Not Elsewhere Classified industry, all products, total value	\$55,785,010	\$58,716,317
Special industry machinery, parts, and attachments made in this industry	46,776,100	50,956,844
Miscellaneous products not specified	145,429	7,033,084
Other products (not classified in this industry)	7,068,281	726,389
Receipts for contract and repair work	1,805,140	
Special industry machinery, parts, and attachments, aggregate value	51,135,104	55,706,650
Special industry machinery, parts, and attachments, made in this industry	46,776,100	50,956,844
Special industry machinery made as secondary products, in other industries	4,359,034	4,749,815
Produced by other industries in the "Machinery (Except Electrical)" group	3,278,424	(¹)
Produced in other industries	1,080,610	

¹ Chiefly value of pumps, crushers, paper-mill machinery, packaging machinery, and castings.² No data.

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

PRODUCT	1939				1937
	Produced in the industry	Produced by other industries in the Machinery (Except Electrical) group	Produced in other industries	Aggregate	
Total value	\$46,776,160	\$3,278,424	\$1,080,610	\$51,135,194	\$55,706,650
Cement-making machinery	1,880,509	1,154,166		3,034,675	2,064,711
Clay-working machinery (brick, pottery, etc.)	1,800,708	55,256	203,455	2,059,419	2,720,538
Cotton-ginning machinery	4,991,018	33,592	90,000	5,114,610	11,300,064
Glass-making machinery	4,070,419	238,519	149,880	4,458,818	4,720,025
Hat-making machinery	650,569	21,188		671,757	700,447
Incandescent lamp-making machinery	(¹)	(¹)		2,816,903	2,377,433
Leather-working machinery (other than shoe machinery)	1,045,597	190,127	26,068	1,264,792	1,219,888
Paint-making machinery	1,518,407	471,143	16,725	2,006,275	2,135,816
Pharmaceutical machinery	(¹)	(¹)		1,362,528	1,617,841
Rubber-working machinery	13,241,545	153,096	200,145	13,684,786	12,271,090
Shoe machinery	9,781,154	520,683	301,337	10,603,174	10,902,506
Stone-working machinery	1,471,019	81,975		1,552,994	1,291,030
Parts and attachments	2,504,493			2,504,493	2,370,240

¹ Shown only in "Aggregate" to avoid disclosing data reported by individual establishments.

CENSUS OF MANUFACTURES: 1939

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	10,388	9,764	9,953	10,278	10,413	10,492	10,551	10,613	10,641	10,321	10,436	10,507	10,693
1937.....	11,459	10,698	10,834	10,602	11,508	11,872	12,106	12,370	12,348	11,737	11,471	11,126	10,770
California.....	201	216	246	256	310	310	331	323	299	311	300	300	306
Connecticut.....	1,015	887	923	956	962	998	1,010	988	993	1,005	1,022	1,153	1,181
Georgia.....	306	320	291	295	293	288	306	336	367	298	301	288	291
Illinois.....	129	119	119	117	120	124	124	128	120	138	137	139	154
Indiana.....	456	433	436	436	445	453	467	464	461	463	470	471	474
Massachusetts.....	2,548	2,548	2,560	2,639	2,534	2,515	2,528	2,520	2,505	2,501	2,534	2,591	2,565
Michigan.....	161	147	156	162	154	158	159	162	162	167	172	170	165
Missouri.....	310	324	259	296	315	317	313	310	317	312	318	319	318
New Jersey.....	562	490	512	516	540	537	523	563	570	582	006	022	635
New York.....	293	281	277	302	204	292	301	298	289	299	292	296	299
Ohio.....	1,961	1,853	1,911	1,930	1,955	1,993	2,027	2,009	1,991	1,939	1,969	1,967	1,993
Pennsylvania.....	782	714	745	785	787	744	750	773	800	826	812	837	837
Texas.....	404	378	390	436	469	503	502	496	505	546	508	248	271
Vermont.....	101	104	105	102	91	97	95	102	87	91	92	119	123
Wisconsin.....	40	36	40	40	40	40	42	41	39	39	39	39	40

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL IN THE INDUSTRY: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	13,066	\$362,729
Scrap iron and steel, purchased as such.....	12,391	192,070

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	207
Reporting expenditures for plant and equipment.....	115
Value of products:	
Total for the industry.....	\$55,785,016
Reporting expenditures for plant and equipment.....	45,027,735
Expenditures for plant and equipment:	
Total for the industry.....	1,382,878
Expenditures for new construction or major alteration of buildings and other fixed plant and structures.....	149,093
Expenditures for new machinery and operating equipment.....	1,175,492
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	58,293

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$21,811,839	\$18,162,737
Finished products.....	11,441,908	8,826,857
Materials, supplies, etc.....	9,869,931	9,335,880
End of year, total.....	22,646,519	22,322,013
Finished products.....	11,590,474	10,983,971
Materials, supplies, etc.....	11,146,045	11,338,042
Value of products for the industry, total.....	55,785,016	58,716,317
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	55,635,554	58,440,605
Value for establishments not reporting inventories.....	149,462	260,712

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	207
Number of establishments reporting power equipment.....	206
Prime movers, aggregate:	
Number.....	59
Horsepower.....	16,291
Prime movers, driving generators, total—	
Number.....	24
Horsepower.....	14,202
Steam engines—	
Number.....	5
Horsepower.....	1,300
Steam turbines—	
Number.....	6
Horsepower.....	11,563
Diesel and semi-Diesel engines—	
Number.....	9
Horsepower.....	1,029
Other internal-combustion engines ² —	
Number.....	3
Horsepower.....	220
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	90
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	5,760
Prime movers not driving generators, total—	
Number.....	26
Horsepower.....	2,059
Steam engines—	
Number.....	7
Horsepower.....	615
Steam turbines—	
Number.....	1
Horsepower.....	30
Diesel and semi-Diesel engines—	
Number.....	6
Horsepower.....	540
Other internal-combustion engines ² —	
Number.....	9
Horsepower.....	224
Hydroturbines and water wheels—	
Number.....	3
Horsepower.....	650
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	25
Generators, kilowatt rating, total.....	10,582
Generators, driven by—	
Steam engines, kilowatt rating.....	1,022
Steam turbines, kilowatt rating.....	8,550
Diesel and semi-Diesel engines, kilowatt rating.....	845
Other internal-combustion engines, ² kilowatt rating.....	140
Hydroturbines and water wheels, kilowatt rating.....	25
Generators, ordinarily idle (included above), kilowatt rating.....	4,285
Electric motors, total:	
Number.....	10,277
Horsepower.....	64,863
Driven by purchased energy—	
Number.....	7,897
Horsepower.....	40,618
Driven by energy generated in establishments reporting—	
Number.....	2,410
Horsepower.....	14,250
Electric energy (kilowatt-hours):	
Generated in plant.....	8,648,488
Purchased.....	24,788,971

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

MEASURING AND DISPENSING PUMPS

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

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of equipment commonly used in automobile service and filling stations for dispensing gasoline, oils, and grease, including grease guns. These establishments were formerly assigned to the "Pumps (hand and power), pumping equipment, and air compressors" industry, but were given a separate industry classification at the census for 1939. The figures for 1937 in these tables are the result of a retabulation of the 1937 reports to obtain figures comparable with those for 1939, but there are no comparable figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	38	5,054	\$6,750,717	\$19,019,628	\$44,286,332	\$25,266,704	1,700
1937 ⁴	35	6,652	8,862,460	24,311,767	54,675,265	30,363,498	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable data for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	Indiana	Ohio	Other States ¹
Number of establishments ²	38	4	7	27
Proprietors and firm members.....	7	—	1	6
Persons reported by manufacturing establishments, total ³	7,395	1,952	422	5,021
Salaried officers of corporations ⁴	66	16	11	39
Manufacturing:				
Salaried employees ⁵	1,050	187	72	791
Wage earners (average for the year) ⁶	5,054	1,080	288	3,686
Distribution.....	1,124	621	51	452
Construction.....	50	8	—	42
Other.....	51	40	—	11
Salaries and wages, total ⁷	\$11,952,529	\$3,473,081	\$639,152	\$7,840,296
Salaried officers ⁸	555,519	226,476	74,828	254,215
Manufacturing:				
Salaries ⁹	1,984,468	347,762	114,410	1,522,296
Wages.....	6,750,717	1,505,825	363,272	4,881,620
Distribution.....	2,490,720	1,324,530	86,642	1,079,548
Construction.....	106,961	17,242	—	89,719
Other.....	64,144	51,246	—	12,898
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	19,019,628	4,588,343	1,358,563	13,072,722
Materials and supplies.....	18,124,210	4,499,149	1,328,111	12,296,950
Fuel.....	177,658	38,595	12,488	126,475
Purchased electric energy.....	218,232	50,599	17,964	149,669
Contract work.....	499,628	—	—	499,628
Value of products.....	44,286,332	12,601,217	2,695,134	28,989,981
Value added by manufacture ¹⁰	25,266,704	8,012,874	1,336,571	15,917,259

¹ California, 3 establishments; Connecticut, 1; Illinois, 2; Iowa, 1; Kentucky, 1; Maryland, 2; Massachusetts, 1; Michigan, 1; Minnesota, 2; Missouri, 1; Nebraska, 2; New Jersey, 1; New York, 4; Oklahoma, 1; Pennsylvania, 2; Texas, 1; Wisconsin, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

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

	1939	1937
Measuring and Dispensing Pumps industry, all products, total value.....	\$44,286,332	\$54,675,265
Measuring and dispensing pumps and similar filling station equipment, parts, and attachments made in this industry.....	31,132,816	38,799,327
Miscellaneous products not specified.....	146,792	—
Other products (not classified in the industry).....	12,203,211	15,380,408
Receipts for contract and repair work.....	803,513	495,530
Measuring and dispensing pumps, and similar filling station equipment, parts, and attachments, total value.....	33,086,482	41,408,436
Measuring and dispensing pumps and similar filling station equipment, parts, and attachments made in this industry.....	31,132,816	38,799,327
Measuring and dispensing pumps, etc., made as secondary products in other industries.....	1,953,666	2,609,109

¹ Chiefly value of water pumps, speedometers, filters, and meters.

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

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Total value.....	\$31,132,816	\$1,953,666	\$33,086,482	\$41,408,436
Gasoline dispensing pumps (hand and power):				
With meters—				
Computing type—				
Number.....	92,876	328	93,204	124,590
Value.....	\$10,373,692	\$50,610	\$10,433,302	\$25,283,233
Noncomputing type—				
Number.....	9,046	50	9,096	18,608
Value.....	\$1,600,312	\$6,250	\$1,606,562	\$2,935,292
Without meters—				
Number.....	4,769	3,494	8,263	7,012
Value.....	\$204,842	\$51,076	\$255,917	\$338,376
Other, including airport fueling units.....	\$222,418	\$101,732	\$324,150	\$148,238
Lubricating-oil outfits and pumps.....	\$1,716,325	\$283,526	\$1,009,851	\$3,031,523
Grease pumps:				
Number.....	1,136,556	35,949	1,172,505	—
Value.....	\$3,635,853	\$747,050	\$4,382,903	\$5,382,103
Grease guns:				
Number.....	507,077	15,693	522,770	—
Value.....	\$1,949,257	\$464,019	\$2,413,276	—
Oil pumps (filling station only):				
Number.....	29,095	17,061	46,156	61,683
Value.....	\$214,938	\$43,462	\$258,400	\$300,241
Kerosene pumps:				
Number.....	23,200	148	23,348	13,072
Value.....	\$395,625	\$2,691	\$398,316	\$269,125
Pumps, air (hand, for tire and other):				
Number and value reported—				
Number.....	944,681	118,028	1,062,709	2,084,190
Value.....	\$417,682	\$22,567	\$440,249	\$726,298
Number not reported, value.....	\$83,500	\$171,684	\$255,184	\$418,010
Spare parts and attachments.....	\$1,319,372	—	\$1,319,372	\$2,605,907

CENSUS OF MANUFACTURES: 1939

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	5,054	4,682	4,643	4,814	4,594	4,760	4,820	4,884	5,438	5,338	5,096	5,790	5,163
1937.....	6,652	5,472	5,911	6,165	6,289	6,870	7,475	7,005	7,156	7,192	7,160	6,762	6,363
California.....	29	29	29	32	29	31	32	29	29	29	29	27	28
Indiana.....	1,080	1,089	1,092	1,015	1,035	1,081	1,169	1,150	1,125	1,119	1,057	1,036	987
New York.....	137	104	111	122	140	164	173	169	150	136	132	129	118
Ohio.....	288	282	283	279	294	280	297	293	283	284	304	300	265

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	38
Reporting expenditures for plant and equipment.....	22
Value of products:	
Total for the industry.....	\$44,286,332
Reporting expenditures for plant and equipment.....	43,060,056
Expenditures for plant and equipment:	
Total for the industry.....	1,544,457
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	152,495
Expenditures for new machinery and operating equipment.....	1,368,382
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	23,580

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$9,508,100	\$8,997,839
Finished products.....	4,130,510	4,696,023
Materials, supplies, etc.....	5,377,584	4,301,816
End of year, total.....	9,506,570	12,362,035
Finished products.....	3,993,705	6,557,935
Materials, supplies, etc.....	5,512,871	5,804,100
Value of products for the industry, total.....	44,286,332	54,675,265
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	44,286,332	54,663,029
Value for establishments not reporting inventories.....		12,236

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	38
Number of establishments reporting power equipment.....	38
Prime movers, driving generators, total:	
Number.....	3
Horsepower.....	1,700
Steam turbines:	
Number.....	2
Horsepower.....	1,600
Diesel and semi-Diesel engines:	
Number.....	1
Horsepower.....	100
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,700
Generators, kilowatt rating, total.....	1,260
Generators, driven by—	
Steam turbines, kilowatt rating.....	1,200
Diesel and semi-Diesel engines, kilowatt rating.....	50
Generators, ordinarily idle (included above), kilowatt rating.....	1,250
Electric motors, total:	
Number.....	6,057
Horsepower.....	24,130
Driven by purchased energy—	
Number.....	6,056
Horsepower.....	24,055
Driven by energy generated in establishments reporting—	
Number.....	1
Horsepower.....	75
Electric energy purchased (kilowatt-hours).....	15,297,309

¹ Comparable data for 1929 not available.

PUMPING EQUIPMENT AND AIR COMPRESSORS

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of pumps of all kinds (except measuring and dispensing pumps), both hand and power-driven, and water systems (both deep and shallow well); compressors; spraying and dusting equipment, including chemical, paint, and agricultural sprayers; and pump jacks, pump cylinders, and other pumping equipment.

For the 1939 census the former industry classification, "Pumps (hand and power), pumping equipment, and air-compressors," was broken down into the two classifications, "Measuring and dispensing pumps" and "Pumping equipment and air compressors." The figures for 1937 in the tables have been adjusted for comparison with those for 1939, but there are no comparable figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	337	19,180	\$26,208,019	\$54,203,943	\$134,940,777	\$80,736,834	33,353
1937 ⁴	310	21,668	30,910,080	60,748,905	144,046,061	83,297,096	(5)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable data for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Illinois	Indiana	Iowa	Massachusetts	Michigan	Minnesota
Number of establishments ¹	337	61	32	14	10	15	24	6
Proprietors and firm members.....	113	35	3	7	5	7	6	—
Persons reported by manufacturing establishments, ² total.....	27,187	2,194	3,080	1,344	1,833	831	1,613	696
Salaried officers of corporations ²	491	60	60	14	14	20	36	15
Manufacturing:								
Salaried employees ²	4,374	308	401	203	271	104	238	32
Wage earners (average for the year) ²	19,180	1,878	2,174	936	1,425	568	1,142	605
Distribution.....	2,831	426	369	187	109	46	160	43
Construction.....	180	—	38	—	14	—	11	—
Other.....	181	22	38	4	—	3	20	1
Salaries and wages, total ²	\$43,206,655	\$3,807,309	\$4,917,292	\$1,807,778	\$2,581,497	\$1,360,651	\$2,400,456	\$1,273,140
Salaried officers ²	2,870,775	300,404	343,308	99,528	113,621	77,004	182,892	91,949
Manufacturing:								
Salaries ²	8,290,311	679,907	749,821	348,517	467,250	323,318	381,046	54,304
Wages.....	26,208,019	2,131,081	2,912,815	1,141,600	1,743,684	862,915	1,491,477	1,044,124
Distribution.....	5,437,053	740,912	788,033	217,253	248,236	93,183	299,245	81,630
Construction.....	210,267	—	58,484	—	8,700	—	17,253	—
Other.....	250,230	45,045	64,831	3,890	—	4,231	37,643	1,134
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	54,203,943	4,480,938	6,244,380	2,097,786	2,400,473	2,140,105	2,701,079	1,474,000
Materials and supplies.....	52,022,568	4,251,871	6,066,133	2,000,303	2,221,483	1,935,112	2,552,857	1,423,559
Fuel.....	1,022,824	26,767	68,204	47,703	86,250	26,271	82,396	6,070
Purchased electric energy.....	771,462	72,065	100,933	40,183	101,695	32,362	60,642	30,582
Contract work.....	339,089	120,335	19,000	9,607	45	146,330	5,184	13,789
Value of products.....	134,940,777	11,806,748	15,677,131	5,901,236	6,053,142	4,412,511	6,308,400	3,825,642
Value added by manufacture ³	80,736,834	7,415,810	9,432,751	3,803,450	4,543,660	2,272,406	3,607,411	2,350,742

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

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

ITEM	Missouri	New Jersey	New York	Ohio	Oklahoma	Pennsylvania	Wisconsin	Other States ¹
Number of establishments ¹	6	16	31	46	10	23	11	32
Proprietors and firm members.....		6	9	14	1	7		13
Persons reported by manufacturing establishments, total ²	701	3,573	2,837	3,597	354	2,134	791	1,609
Salaried officers of corporations ²	14	29	48	76	13	42	21	29
Manufacturing:								
Salaried employees ²	74	944	487	365	61	375	147	274
Wage earners (average for the year) ³	446	2,453	2,065	2,507	233	1,512	603	1,038
Distribution.....	161	71	220	583	40	174	20	222
Construction.....		30	3	3	3	10		18
Other.....	6	11	14	3	4	21		28
Salaries and wages, total ²	\$1,087,635	\$6,351,826	\$4,266,469	\$5,070,402	\$643,701	\$2,790,118	\$1,346,315	\$2,653,066
Salaried officers ²	126,516	189,354	230,180	541,086	86,957	175,143	88,581	220,283
Manufacturing:								
Salaries ²	136,203	1,995,004	844,187	752,051	127,001	622,963	330,371	578,182
Wages.....	642,377	3,818,686	2,882,504	3,454,744	337,996	1,639,805	868,785	1,324,506
Distribution.....	275,665	235,841	251,507	1,214,896	82,429	321,855	68,578	480,251
Construction.....		101,198	4,240	3,879	5,813	8,684		2,016
Other.....	6,784	11,743	13,782	3,346	3,505	21,568		32,828
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	2,092,304	5,904,298	6,358,389	8,686,317	768,178	3,043,339	1,627,344	4,175,023
Materials and supplies.....	2,044,279	5,677,436	6,175,908	8,440,049	745,028	2,890,173	1,555,484	4,042,843
Fuel.....	34,157	102,084	142,185	112,143	4,873	107,058	61,616	44,057
Purchased electric energy.....	11,616	34,610	36,973	107,728	17,777	39,930	16,076	67,360
Contract work.....	2,842	168	3,323	26,397	500	6,178	4,168	20,763
Value of products.....	4,102,439	17,680,878	15,106,854	18,431,224	2,814,362	8,220,401	3,827,439	9,782,280
Value added by manufacture ⁴	2,010,045	11,776,580	8,748,465	9,744,007	2,046,184	5,177,062	2,200,095	5,607,267

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
⁵ Arkansas, 3 establishments; Connecticut, 3; Florida, 2; Georgia, 3; Idaho, 1; Kansas, 2; Kentucky, 2; Nebraska, 2; North Carolina, 1; North Dakota, 1; Oregon, 2; South Carolina, 1; Tennessee, 2; Texas, 4; Vermont, 1; Washington, 2.

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

	1939	1937
Pumping Equipment and Air Compressors industry, all products, total value.....	\$133,638,195	\$144,046,061
Pumps and pumping equipment and air compressors, and spare parts and attachments made in this industry.....	102,385,749	113,100,317
Miscellaneous products not specified.....	344,940	
Other products (not classified in this industry).....	123,426,747	22,401,085
Receipts for contract and repair work.....	7,480,760	8,544,659
Pumping equipment and air compressors, aggregate value.....	115,328,503	126,703,781
Pumps and pumping equipment and air compressors, and spare parts and attachments made in this industry.....	102,385,749	113,100,317
Pumps and pumping equipment and air compressors made as secondary products in other industries.....	12,942,754	13,603,464

¹ Principally value of engines, oil-well tools, gear reductions, atomizers, and castings.

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

PRODUCT	1939				1937
	Produced in this industry	Produced in other industries within the Machinery (Except Electrical) group	Produced in industries outside the Machinery (Except Electrical) group	Aggregate	
Pumps and pumping equipment, air compressors, and parts and attachments, total value.....	\$102,385,749	\$10,086,735	\$2,856,019	\$115,328,503	\$126,703,781
Pumps, hand (except air, gasoline, grease, oil, and spray pumps):					
Water pumps—					
Pitcher—					
Number.....	371,633	13,582		385,215	375,310
Value.....	\$467,560	\$24,194		\$491,754	\$549,622
Other—					
Number reported—					
Number.....	83,208	1,680	6,834	91,812	103,642
Value.....	\$636,265	\$17,273	\$50,415	\$703,953	\$574,018
Number not reported, value.....	\$91,107		\$92,820	\$183,927	
Other liquid hand pumps—					
Number.....	24,576	45	223	24,844	70,228
Value.....	\$36,099	\$7,317	\$5,876	\$90,292	\$547,765
Pumps, windmill:					
Number.....	36,666	4,488	315	41,469	62,122
Value.....	\$367,087	\$33,351	\$3,700	\$394,138	\$528,164

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

PRODUCT	1939				1937
	Produced in this industry	Produced in other industries within the Machinery (Except Electrical) group	Produced in industries outside the Machinery (Except Electrical) group	Aggregate	
Water systems and pumps (domestic):					
Deep-well systems, complete—					
Turbines—					
Number.....	4,439			4,439	
Value.....	\$1,959,200			\$1,959,200	
Other—					
Number.....	25,972	227		26,199	
Value.....	\$1,653,676	\$60,081		\$1,713,757	
Shallow-well systems, complete—					
Under 250 g. p. h.—					
Number.....	39,327			39,327	43,010
Value.....	\$1,204,242			\$1,204,242	\$1,049,371
250 g. p. h. to 490 g. p. h.—					
Number.....	114,913	161		115,074	85,208
Value.....	\$4,282,372	\$13,685		\$4,296,057	\$3,234,710
500 g. p. h. and over—					
Number.....	17,767			17,767	9,482
Value.....	\$1,125,917			\$1,125,917	\$669,310
Jet pump systems—					
Number.....	20,416			20,416	(1)
Value.....	\$1,680,129			\$1,680,129	
Pumps for water systems, for sale separately—					
Deep-well turbines—					
Number.....	5,136			5,136	
Value.....	\$3,516,019			\$3,516,019	
Other deep-well—					
Number.....	7,765	1,900		9,725	10,430
Value.....	\$434,686	\$92,200		\$526,886	\$5,412,225
Shallow-well—					
Under 250 g. p. h.—					
Number.....	732			732	
Value.....	\$72,085			\$72,085	
250 g. p. h. to 490 g. p. h.—					
Number.....	1,109	616		1,725	5,570
Value.....	\$67,594	\$17,560		\$85,154	\$344,165
500 g. p. h. and over—					
Number.....	1,996	7		2,003	
Value.....	\$92,331	\$250		\$92,581	
Hydraulic rams:					
Number reported—					
Number.....	956			956	
Value.....	\$11,564			\$11,564	
Number not reported, value.....	\$6,080			\$6,080	\$33,937
Power-driven pumps not elsewhere specified:					
Centrifugal pumps—					
Horizontal type—					
Number reported—					
Number.....	80,733	675	1,581	82,989	77,708
Value.....	\$13,970,033	\$845,033	\$82,344	\$14,898,310	\$14,008,816
Number not reported, value.....	\$244,281	\$3,000	\$4,600	\$251,881	\$700,880
Vertical type—					
Number.....	28,154	6	1,020	29,180	14,200
Value.....	\$3,346,380	\$10,000	\$123,747	\$3,480,133	\$4,648,881
Reciprocating pumps—					
Direct-acting steam—					
Number reported—					
Number.....	6,548			6,548	8,480
Value.....	\$2,836,252			\$2,836,252	\$4,810,041
Number not reported, value.....					\$197,336
Other reciprocating—					
Number.....	3,737		91	3,828	3,466
Value.....	\$2,607,520		\$35,092	\$2,642,612	\$3,151,362
Rotary pumps—					
Gear type—					
Number reported—					
Number.....	184,792	55,638	16,653	257,083	281,843
Value.....	\$3,983,684	\$639,960	\$115,414	\$4,739,054	\$3,942,069
Number not reported, value.....	\$1,114,300	\$11,595	\$724,198	\$1,850,093	\$442,070
Screw type—					
Number.....	21,372			21,372	749
Value.....	\$1,821,051			\$1,821,051	\$611,631
Other types (cam, disk, etc.).....	\$30,623			\$30,623	
Number reported—					
Number.....					30,085
Value.....					\$1,688,464
Number not reported, value.....					\$1,078,322
Other power-driven pumps not listed above—					
Number reported—					
Number.....	7,118	2,110	1,817	11,051	29,219
Value.....	\$3,484,620	\$505,150	\$150,033	\$4,089,818	\$3,617,150
Number not reported, value.....	\$275,066	\$24,700	\$182,754	\$482,510	\$1,259,999
Oil-well pumps:					
Number reported—					
Number.....	82,256			82,256	
Value.....	\$4,550,071			\$4,550,071	
Number not reported, value.....	\$1,065,945			\$1,065,945	\$1,875,671
Vacuum pumps (other than dry-vacuum):					
Number reported—					
Number.....	9,126			9,126	
Value.....	\$1,539,668			\$1,539,668	
Number not reported, value.....			\$169,138	\$169,138	\$2,035,526

See footnotes at end of table.

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

PRODUCT	1939				1937
	Produced in this industry	Produced in other industries within the Machinery (Except Electrical) group	Produced in industries outside the Machinery (Except Electrical) group	Aggregate	
Sewage, sand, sump, bilge, etc., pumps, value.....					\$3,274,591
Miscellaneous pumps and pumps not reported by kind:					
Number reported—	192,272	82,215	1,909	276,396	
Value.....	\$969,862	\$1,460,121	\$41,434	\$2,470,917	
Number not reported, value.....	\$63,175	\$996,105	\$70,935	\$1,130,215	\$2,588,176
Air compressors and dry-vacuum:					
Up to and including 7½ h. p.—					
Number.....	52,339	4,346		57,185	107,550
Value.....	\$5,241,185	\$723,901		\$5,965,086	\$7,674,911
Over 7½ h. p. and including 100 h. p.—					
Number reported—	8,598	809		9,407	7,718
Value.....	\$7,179,388	\$1,049,715		\$8,229,103	\$9,640,060
Number not reported, value.....	\$1,259,760	\$183,034		\$1,442,784	\$3,430,385
Over 100 h. p. and including 250 h. p.—					
Number reported—	272	173		445	359
Value.....	\$1,334,681	\$714,058		\$2,048,739	\$3,141,367
Number not reported, value.....	\$182,400	\$12,058		\$194,458	\$487,892
Over 250 h. p.—					
Number reported—	67	40		107	265
Value.....	\$1,009,644	\$960,534		\$1,970,178	\$3,288,047
Number not reported, value.....	\$184,658			\$184,658	\$268,596
Not reported as to type—					
Number reported—		796	1,001	1,797	
Value.....		\$215,585	\$91,264	\$306,849	
Number not reported, value.....		\$778,200	\$102,859	\$881,059	\$397,072
Gas compressors (excluding ice-making, refrigerating, and air-conditioning units):					
Up to 25 h. p., inclusive—					
Number.....	(2)	(2)	(2)	3,813	
Value.....	(2)	(2)	(2)	\$449,608	
Over 25 h. p.—					(1)
Number.....	(2)	(2)		165	
Value.....	(2)	(2)		\$1,503,386	
Spraying and dusting outfits, complete:					
Paint—					
Number.....	207,763	9,371		217,134	
Value.....	\$2,299,451	\$95,975		\$2,395,426	\$5,636,170
Chemical sprayers (for liquids)—					
Hand, with tank, barrel, knapsack, etc. (except household)—					
Number.....	302,788		1,862	304,650	
Value.....	\$1,219,372		\$32,930	\$1,252,302	\$1,067,855
Power (including self-propelled)—					
Number.....	11,908	1,560	5,862	19,330	12,424
Value.....	\$1,005,951	\$38,979	\$118,431	\$2,063,361	\$2,121,537
Traction—					
Number.....	2,279			2,279	2,628
Value.....	\$244,937			\$244,937	\$363,806
Chemical dusters—					
Hand (except household)—					
Number.....	119,796		687	120,483	45,131
Value.....	\$186,711		\$7,104	\$193,815	\$186,995
Power (including self-propelled)—					
Number.....	3,338	70	283	3,700	1,133
Value.....	\$112,369	\$3,734	\$60,354	\$176,457	\$194,277
Traction—					
Number.....	(2)		(2)	1,663	1,525
Value.....	(2)		(2)	\$77,968	\$173,705
Spray pumps made for sale as such (not included above):					
Number.....	52,150		318	52,468	63,401
Value.....	\$312,075		\$1,907	\$313,982	\$551,457
Sprayers, hand (household and other small types):					
Number reported—	6,806,116		19,080	6,825,196	6,251,872
Value.....	\$1,236,434		\$4,769	\$1,241,203	\$884,881
Number not reported, value.....			\$473,514	\$473,514	
Spray guns or nozzles made for sale separately (for use with spraying outfits):					
Number reported—	194,206			194,206	
Value.....	\$498,423			\$498,423	
Number not reported, value.....	\$243,665			\$243,665	\$1,584,293
Washers, automobile and other (hand and power):					
Number.....	1,588	295	11	1,894	1,332
Value.....	\$271,656	\$83,868	\$2,129	\$357,653	\$253,437
Pump jacks and pumping powers:					
Number reported—	16,583	16,695	1,570	34,848	20,769
Value.....	\$578,810	\$155,880	\$21,598	\$756,288	\$885,536
Number not reported, value.....					\$121,720
Cylinders made for sale separately:					
Number reported—	118,098	3,369		121,467	169,970
Value.....	\$514,602	\$10,674		\$525,176	\$893,071
Number not reported, value.....	\$214,469	\$33,691		\$248,060	
Spare parts and attachments.....	\$14,794,481	\$22,000	\$49,949	\$14,866,430	\$15,393,816

1 Not called for on schedule.

2 Shown in aggregate only to avoid disclosing approximations of data for individual establishments.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	19,180	17,606	17,850	17,902	18,521	18,948	19,267	19,422	19,443	19,675	20,271	20,615	20,641
1937.....	21,668	20,133	20,101	21,360	21,183	22,362	22,691	22,156	22,183	21,825	22,032	21,215	20,342
Arkansas.....	38	28	29	29	34	41	44	42	42	41	39	40	42
California.....	1,378	1,228	1,275	1,285	1,331	1,302	1,441	1,451	1,438	1,418	1,420	1,422	1,468
Connecticut.....	219	212	214	214	216	219	222	224	214	226	221	225	225
Georgia.....	47	45	40	51	45	45	59	50	45	45	45	46	46
Illinois.....	2,174	2,020	2,030	2,101	2,193	2,283	2,201	2,200	2,237	2,222	2,217	199	2,188
Indiana.....	936	919	918	922	927	925	953	976	940	938	937	938	938
Iowa.....	1,425	1,085	1,069	890	1,277	1,379	1,436	1,553	1,622	1,650	1,734	1,744	1,633
Massachusetts.....	568	490	603	621	534	551	558	570	558	605	614	626	642
Michigan.....	1,142	1,097	1,121	1,138	1,160	1,151	1,144	1,070	1,117	1,123	1,131	1,192	1,252
Minnesota.....	605	475	521	586	591	633	675	671	593	602	623	620	673
Missouri.....	446	455	455	432	430	434	429	443	446	451	446	462	464
New Jersey.....	2,458	2,202	2,242	2,270	2,307	2,370	2,448	2,460	2,536	2,614	2,713	2,772	2,818
New York.....	2,065	1,979	2,050	2,115	2,068	2,005	2,004	2,020	1,631	1,954	2,140	2,225	2,285
Ohio.....	2,507	2,270	2,309	2,330	2,405	2,480	2,551	2,570	2,611	2,659	2,828	2,919	2,857
Oklahoma.....	233	234	287	204	244	252	234	235	222	224	211	211	210
Pennsylvania.....	1,512	1,476	1,440	1,452	1,463	1,460	1,518	1,515	1,510	1,535	1,571	1,597	1,577
Texas.....	283	310	310	295	273	276	274	275	256	270	304	292	298
Wisconsin.....	603	556	585	581	577	598	641	614	630	648	611	619	575

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	26,475	\$456,611
Scrap iron and steel, purchased as such.....	19,823	319,216

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	337
Reporting expenditures for plant and equipment.....	210
Value of products:	
Total for the industry.....	\$134,940,777
Reporting expenditures for plant and equipment.....	123,168,051
Expenditures for plant and equipment:	
Total for the industry.....	3,193,118
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	620,747
Expenditures for new machinery and operating equipment.....	2,271,182
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	301,189

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$43,523,015	\$37,876,709
Finished products.....	23,881,506	20,670,900
Materials, supplies, etc.....	19,641,449	17,205,809
End of year, total.....	47,667,650	45,767,428
Finished products.....	22,782,706	24,004,680
Materials, supplies, etc.....	24,884,944	21,762,748
Value of products for the industry, total.....	134,940,777	144,046,061
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	134,837,027	140,701,979
Value for establishments not reporting inventories.....	103,750	3,344,082

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	337
Number of establishments reporting power equipment.....	333
Prime movers, aggregate:	
Number.....	110
Horsepower.....	33,353
Prime movers, driving generators, total—	
Number.....	70
Horsepower.....	23,784
Steam engines—	
Number.....	37
Horsepower.....	10,452
Steam turbines—	
Number.....	9
Horsepower.....	6,040
Diesel and semi-Diesel engines—	
Number.....	15
Horsepower.....	6,526
Other internal-combustion engines ² —	
Number.....	9
Horsepower.....	766
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2,470
Prime movers not driving generators, total—	
Number.....	40
Horsepower.....	9,569
Steam engines—	
Number.....	16
Horsepower.....	2,665
Steam turbines—	
Number.....	6
Horsepower.....	4,835
Diesel and semi-Diesel engines—	
Number.....	5
Horsepower.....	635
Other internal-combustion engines ² —	
Number.....	11
Horsepower.....	1,359
Hydroturbines and water wheels—	
Number.....	2
Horsepower.....	75
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	857
Generators, kilowatt rating, total.....	16,481
Generators, driven by—	
Steam engines, kilowatt rating.....	7,190
Steam turbines, kilowatt rating.....	3,965
Diesel and semi-Diesel engines, kilowatt rating.....	4,815
Other internal-combustion engines, kilowatt rating.....	511
Generators, ordinarily idle (included above), kilowatt rating.....	1,049
Electric motors, total:	
Number.....	17,494
Horsepower.....	121,557
Driven by purchased energy—	
Number.....	12,754
Horsepower.....	81,273
Driven by energy generated in establishments reporting—	
Number.....	4,740
Horsepower.....	40,384
Electric energy (kilowatt-hours):	
Generated in plant.....	22,988,775
Purchased.....	41,874,868

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

ELEVATORS, ESCALATORS, AND CONVEYORS

[A preliminary report for this industry was issued December 6, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of elevators, escalators, and conveyor systems and equipment. These establishments were formerly assigned to the "Machinery not elsewhere classified" industry but were given a separate industry classifica-

tion at the census for 1939. The industry does not include coal and ore conveyors classified in the "Mining machinery and equipment" industry. The figures for 1937 in these tables have been retabulated to obtain figures comparable with those for 1939, but no figures are available for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939	183	8,915	\$13,357,937	\$25,057,146	\$64,128,051	\$39,070,905	5,700
1937 ⁴	168	9,497	14,687,705	26,121,523	69,292,804	43,171,281	(*)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable data for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Illinois	Indiana	Iowa	Kentucky	Maryland	Massachusetts
Number of establishments ¹	183	18	23	3	4	5	4	10
Proprietors and firm members	50	9	7				2	3
Persons reported by manufacturing establishments, total ²	13,103	459	1,937	133	357	335	77	216
Salaried officers of corporations ²	339	10	44	9	9	8	7	8
Manufacturing:								
Salaried employees ²	2,061	73	239	19	167	27	11	29
Wage earners (average for the year) ³	8,915	294	1,212	93	166	262	54	140
Distribution	1,600	76	417	10	13	35	5	39
Construction	107		14		2	3		
Other	91		11	2				
Salaries and wages, total ²	\$22,004,066	\$863,673	\$3,444,377	\$215,895	\$486,859	\$533,653	\$137,847	\$344,707
Salaried officers ²	1,711,768	97,517	220,489	39,091	28,500	47,292	39,381	20,385
Manufacturing:								
Salaries ²	3,836,475	145,584	444,016	41,391	248,798	36,292	31,230	45,009
Wages	13,357,937	460,182	2,004,327	117,768	189,044	334,218	59,239	217,415
Distribution	3,308,947	160,390	723,713	15,008	18,152	112,385	7,907	55,298
Construction	203,868		39,237		2,365	3,466		
Other	125,671		12,595	1,737				
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	25,057,146	1,143,686	3,699,785	218,060	555,407	722,744	221,341	303,493
Materials and supplies	23,756,670	1,099,748	3,577,748	206,649	532,472	622,315	219,222	291,466
Fuel	315,201	3,062	45,883	2,794	8,634	18,400	412	2,674
Purchased electric energy	447,768	12,182	49,287	5,617	9,801	5,737	1,707	4,777
Contract work	537,507	28,694	26,867	3,000	4,500	76,202		4,576
Value of products	64,128,051	2,343,473	9,036,265	578,680	1,547,788	1,300,837	535,200	763,690
Value added by manufacture ⁴	39,070,905	1,199,737	5,336,480	360,620	992,381	578,093	313,859	460,197

See footnotes at end of table.

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

ITEM	Michigan	Missouri	New Jersey	New York	Ohio	Pennsyl- vania	Wisconsin	Other States *
Number of establishments ¹	11	6	10	23	17	21	7	21
Proprietors and firm members.....		3		3	4	6	1	12
Persons reported by manufacturing establishments, total ²	1,162	172	1,286	2,592	1,623	1,875	110	771
Salaried officers of corporations ²	29	12	20	48	50	34	18	27
Manufacturing:								
Salaried employees ²	127	26	305	443	302	206	13	64
Wage earners (average for the year) ²	957	112	927	1,914	1,077	1,098	66	545
Distribution.....	49	22	34	183	174	398	13	132
Construction.....					5	83		
Other.....				4	15	56		3
Salaries and wages, total ²	\$2,181,281	\$219,774	\$2,217,473	\$4,389,720	\$2,797,945	\$3,534,260	\$221,095	\$1,016,131
Salaried officers ²	180,446	56,682	119,511	211,498	288,467	178,645	69,604	107,390
Manufacturing:								
Salaries ²	317,166	24,071	634,034	743,810	572,183	447,906	19,771	84,214
Wages.....	1,652,255	103,059	1,382,594	2,888,352	1,438,627	1,937,802	102,460	570,495
Distribution.....	131,414	36,962	80,434	545,019	462,165	680,844	29,260	251,466
Construction.....					10,228	208,572		
Other.....				1,547	20,335	80,891		2,566
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	2,949,629	265,622	2,474,429	4,096,198	3,474,192	3,440,582	236,819	1,255,159
Materials and supplies.....	2,873,799	257,802	2,297,476	3,875,068	3,104,497	3,288,363	227,470	1,222,575
Fuel.....	12,127	1,317	45,151	83,368	49,128	28,850	2,889	10,422
Purchased electric energy.....	36,593	2,838	55,793	124,090	59,175	54,430	4,359	21,412
Contract work.....	27,110	3,065	76,039	13,672	201,392	68,030	2,101	750
Value of products.....	5,937,365	660,904	8,130,692	11,553,577	9,161,828	8,971,839	544,772	3,055,171
Value added by manufacture ⁴	2,987,736	395,282	5,692,233	7,457,379	5,687,636	5,531,257	307,953	1,800,012

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

* Colorado, 1 establishment; Connecticut, 1; Georgia, 1; Kansas, 2; Minnesota, 5; Montana, 1; North Carolina, 2; Oregon, 1; Tennessee, 2; Texas, 2; Virginia, 2; Washington, 1.

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

	1939	1937
Elevators, Escalators, and Conveyors industry, all products, total value.....	\$64,128,051	\$69,292,304
Elevators, escalators, and conveyor systems (other than coal and ore conveyors), equipment, parts and attachments made in this industry.....	47,874,650	54,322,011
Miscellaneous products not specified.....	17,465	10,021,920
Other products (not classified in this industry).....	12,084,480	4,947,973
Receipts for contract and repair work.....	4,151,450	
Elevators, escalators, and conveyors, aggregate value.....	50,927,671	69,133,133
Elevators, escalators, and conveyors made in the industry.....	47,874,650	54,322,011
Elevators, escalators, and conveyors made as secondary products in other indus- tries, total.....	9,053,016	11,810,222
Made as secondary products within the Machinery (Except Electrical) group.....	8,671,382	(?)
Made as secondary products outside of the Machinery (Except Electrical) group.....	381,633	(?)

¹ Chiefly value of transmission equipment, air compressors, factory trucks, grain-mill, and mining machinery.² No comparable data.

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

PRODUCTS	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Total value.....	\$47,874,056	\$9,053,015	\$56,927,071	\$66,133,133
Automobile lifts:				
Reported by number and value—				
Number.....	9,960	8,372	18,332	11,627
Value.....	\$2,376,235	\$1,877,695	\$4,253,930	\$2,789,002
Not reported by number, value.....				\$990,242
Conveying and elevating machinery:				
Belt type.....	\$5,763,791	\$1,297,490	\$7,061,280	\$9,821,223
Bucket type.....	\$2,030,507	\$334,683	\$2,365,190	\$3,038,814
Gravity type.....	\$1,032,203	\$305,493	\$1,337,696	\$3,256,454
Other types and those not reported by kind.....	\$14,117,533	\$3,931,649	\$18,049,182	\$17,194,708
Passenger elevators and escalators:				
Passenger elevators—				
Reported by number and value—				
Number.....	2,851	152	3,003	3,330
Value.....	\$3,870,234	\$242,429	\$4,112,663	\$11,823,507
Not reported by number, value.....	\$1,042,831	\$14,441	\$1,057,272	\$1,858,957
Escalators:				
Number.....	199		199	
Value.....	\$728,116		\$728,116	
Elevators, other than passenger:				
Freight—				
Reported by number and value—				
Number.....	1,567	113	1,680	2,270
Value.....	\$3,045,581	\$302,933	\$3,348,514	\$5,830,792
Not reported by number, value.....	\$203,301	\$32,923	\$236,224	\$1,072,244
Sidewalk—				
Reported by number and value—				
Number.....	100	7	107	199
Value.....	\$59,014	\$3,332	\$62,346	\$124,574
Not reported by number, value.....	\$32,955		\$32,955	\$2,600
Portable—				
Reported by number and value—				
Number.....	303	208	511	(¹)
Value.....	\$180,518	\$107,089	\$287,607	
Not reported by number, value.....	\$348,288	\$20,193	\$368,481	
Dumb-waiters:				
Reported by number and value—				
Number.....	1,295	21	1,316	705
Value.....	\$444,108	\$22,520	\$466,627	\$269,119
Not reported by number, value.....	\$178,990	\$50,137	\$229,127	\$253,396
Parts and attachments.....	\$5,911,445		\$5,911,445	\$7,200,601

¹ Not called for separately on schedule.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	8,915	8,051	8,041	8,092	8,166	8,382	9,208	9,788	9,937	9,233	9,246	9,380	9,455
1937.....	9,497	8,794	8,903	9,238	9,506	9,648	9,493	10,039	10,215	10,122	9,747	9,304	8,893
California.....	294	269	270	285	309	245	307	301	305	304	309	305	307
Illinois.....	1,212	1,060	1,061	1,066	1,089	1,123	1,166	1,234	1,285	1,328	1,372	1,358	1,398
Indiana.....	93	83	86	85	85	88	89	98	90	101	90	100	100
Iowa.....	166	151	155	151	157	150	159	174	176	169	173	181	183
Kentucky.....	262	180	216	214	213	235	275	262	264	265	271	358	393
Maryland.....	54	52	52	49	51	56	53	54	50	53	58	50	58
Massachusetts.....	140	127	129	126	130	135	137	138	151	156	151	152	149
Michigan.....	957	570	520	540	586	761	1,305	1,811	1,878	1,045	855	800	804
Minnesota.....	230	220	217	211	237	246	240	223	223	220	229	259	235
Missouri.....	112	106	107	118	117	110	117	118	112	101	95	121	120
New Jersey.....	927	950	922	920	917	921	938	947	943	919	931	908	904
New York.....	1,914	1,910	1,901	1,909	1,881	1,835	1,885	1,871	1,863	1,905	1,978	2,028	2,017
Ohio.....	1,077	993	1,019	1,029	997	1,028	1,064	1,067	1,058	1,094	1,153	1,180	1,208
Pennsylvania.....	1,098	1,027	1,029	1,034	1,029	1,049	1,080	1,100	1,116	1,169	1,169	1,180	1,190
Wisconsin.....	66	58	54	55	60	65	67	72	67	76	73	72	74

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TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	8,818	\$199,060
Scrap iron and steel, purchased as such.....	20,079	490,244

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	183
Reporting expenditures for plant and equipment.....	105
Value of products:	
Total for the industry.....	\$94,128,051
Reporting expenditures for plant and equipment.....	54,085,681
Expenditures for plant and equipment:	
Total for the industry.....	875,609
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	178,686
Expenditures for new machinery and operating equipment.....	644,865
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	52,148

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$12,950,941	\$12,698,883
Finished products.....	4,733,087	5,634,066
Materials, supplies, etc.....	8,217,854	7,064,817
End of year, total.....	13,261,105	15,533,420
Finished products.....	4,756,464	7,270,830
Materials, supplies, etc.....	8,504,641	8,262,581
Value of products for the industry, total.....	64,128,051	69,292,804
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	63,956,673	68,651,261
Value for establishments not reporting inventories.....	171,478	641,543

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	183
Number of establishments reporting power equipment.....	183
Prime movers, aggregate:	
Number.....	17
Horsepower.....	5,790
Prime movers, driving generators, total—	
Number.....	12
Horsepower.....	5,455
Steam engines—	
Number.....	7
Horsepower.....	1,520
Steam turbines—	
Number.....	2
Horsepower.....	3,709
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	120
Other internal-combustion engines²—	
Number.....	1
Horsepower.....	80
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	35
Prime movers, steam engines, not driving generators—	
Number.....	5
Horsepower.....	335
Generators, kilowatt rating, total.....	3,657
Generators, driven by—	
Steam engines, kilowatt rating.....	972
Steam turbines, kilowatt rating.....	2,500
Diesel and semi-Diesel engines, kilowatt rating.....	100
Other internal-combustion engines, ² kilowatt rating.....	60
Hydroturbines and water wheels, kilowatt rating.....	25
Electric motors, total:	
Number.....	6,831
Horsepower.....	49,410
Driven by purchased energy—	
Number.....	6,167
Horsepower.....	43,805
Driven by energy generated in establishments reporting—	
Number.....	664
Horsepower.....	5,605
Electric energy (kilowatt-hours):	
Generated in plant.....	4,583,700
Purchased.....	29,488,225

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

CARS AND TRUCKS, INDUSTRIAL

[A preliminary report for this industry was issued December 31, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of industrial cars and trucks for use in conveying supplies, freight, etc., within the confines of a plant. Automotive cars and trucks for use on highways are classified in the "Motor vehicles, motor-vehicle bodies, parts and accessories" industry and mining cars and trucks are classified in the "Mining machinery and equipment" industry.

Establishments in this industry were formerly classified in the "Machinery not elsewhere classified" industry, but given a separate industry classification at the census for 1939. The figures for 1937 in these tables have been retabulated to obtain figures comparable with those for 1939; no comparable figures were obtained for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	55	2,732	\$3,140,208	\$7,800,921	\$17,319,579	\$9,518,658	1,543
1937.....	52	3,819	4,903,524	10,257,773	26,087,974	15,430,201	(⁴)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable data for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Illinois	Michigan	Ohio	Other States ¹
Number of establishments ²	55	4	5	6	12	28
Proprietors and firm members.....	17	3	5	5	5	4
Persons reported by manufacturing establishments, total ³	3,770	39	638	570	805	1,718
Salaried officers of corporations ⁴	92	3	9	9	29	42
Manufacturing:						
Salaried employees ⁵	517	5	115	48	94	255
Wage earners (average for the year) ⁶	2,732	25	380	491	554	1,282
Distribution.....	419	6	134	20	121	138
Construction.....	2				2	
Other.....	3			2	5	1
Salaries and wages, total ⁷	\$5,330,131	\$64,106	\$913,128	\$680,608	\$1,147,966	\$2,524,325
Salaried officers ⁸	436,966	7,560	56,500	60,100	110,487	202,319
Manufacturing:						
Salaries ⁹	893,966	7,072	194,388	77,714	155,328	458,564
Wages.....	3,140,208	40,111	480,637	508,522	561,222	1,540,806
Distribution.....	833,534	8,463	172,603	31,210	307,040	313,309
Construction.....	2,600				2,600	
Other.....	13,767			3,060	10,380	327
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	7,800,921	113,307	1,283,818	1,362,305	1,569,384	3,472,107
Materials and supplies.....	7,489,224	111,599	1,240,320	1,315,985	1,517,714	3,303,600
Fuel.....	108,250	131	10,473	24,457	23,348	40,841
Purchased electric energy.....	147,906	1,577	33,025	21,603	26,237	65,564
Contract work.....	55,541			360	2,085	58,096
Value of products.....	17,319,579	228,707	3,020,825	2,647,887	3,372,443	8,040,717
Value added by manufacture ¹⁰	9,518,658	115,400	1,737,007	1,285,582	1,803,050	4,577,610

¹ Alabama, 1 establishment; Colorado, 1; Connecticut, 2; Georgia, 1; Iowa, 1; Kentucky, 1; Maryland, 1; Massachusetts, 1; Minnesota, 1; Missouri, 1; New Jersey, 3; New York, 2; Oregon, 1; Pennsylvania, 5; Texas, 1; Virginia, 1; West Virginia, 1; Wisconsin, 3.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

CARS AND TRUCKS, INDUSTRIAL

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

	1939	1937
Cars and Trucks, Industrial industry, all products, total value.....	\$17,310,570	\$25,087,974
Cars and trucks, parts, and attachments made in this industry.....	13,011,242	19,370,322
Miscellaneous products not specified.....	11,654	5,740,992
Other products (not classified in this industry).....	13,821,315	581,600
Receipts for contract and repair work.....	475,368	
Cars and trucks, industrial, total value.....	\$16,534,074	\$22,080,761
Cars and trucks, parts, and attachments made in this industry.....	13,011,242	19,370,322
Industrial cars and trucks made as secondary products in other industries.....	3,522,832	2,704,439

¹ Chiefly value of conveying and elevating machinery; truck platforms, wheels, casters, etc.
² Does not include data for industrial tractors insofar as reported separately. The Tractors industry reported 3,826 industrial tractors valued at \$7,388,102 for 1939.
³ Includes data for industrial tractors not called for separately on schedule.

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

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Total value.....	\$13,011,242	\$3,522,832	\$16,534,074	\$22,080,761
Trucks:				
Hand—				
Number reported—				
Number.....	81,318	11,209	92,527	186,191
Value.....	\$2,100,285	\$233,450	\$2,330,744	\$5,012,686
Number not reported, value.....	\$2,070,608	\$778,303	\$2,847,911	\$1,009,803
Electric (including storage-battery)—				
Number reported—				
Number.....	1,000	155	1,155	
Value.....	\$3,752,116	\$605,820	\$4,357,936	\$6,614,720
Number not reported, value.....	\$124,603	\$136,223	\$260,826	
Other—				
Number reported—				
Number.....	15,037	24,418	39,455	
Value.....	\$1,723,064	\$874,042	\$2,598,000	
Number not reported, value.....	\$341,112	\$118,852	\$459,964	\$6,193,088
Industrial (other than hand or electric):				
Number reported—				
Number.....	7,510	1,850	9,375	
Value.....	\$919,160	\$500,100	\$1,419,319	
Number not reported, value.....		\$155,973	\$155,973	
Parts and attachments, value.....	\$1,904,395		\$1,904,395	\$3,180,365

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,732	2,443	2,526	2,586	2,573	2,616	2,635	2,701	2,767	2,761	2,883	3,114	3,179
1937.....	3,819	3,070	3,701	3,717	3,892	3,954	4,055	4,002	4,079	3,951	3,826	3,558	3,338
California.....	25	17	21	22	24	25	26	26	30	27	28	27	23
Illinois.....	380	350	361	371	370	364	354	355	360	382	424	438	434
Michigan.....	491	480	483	486	484	455	449	500	504	508	505	531	523
New Jersey.....	27	20	21	22	23	32	30	27	30	24	23	30	27
Ohio.....	554	474	510	517	500	510	524	517	574	571	585	669	696
Pennsylvania.....	560	451	498	505	521	537	549	571	586	570	592	686	711
Wisconsin.....	85	74	73	72	90	91	97	92	96	89	81	86	81

CENSUS OF MANUFACTURES: 1939

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	55
Reporting expenditures for plant and equipment.....	34
Value of products:	
Total for the industry.....	\$17,319,579
Reporting expenditures for plant and equipment.....	13,909,332
Expenditures for plant and equipment:	
Total for the industry.....	327,130
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	39,198
Expenditures for new machinery and operating equipment.....	219,206
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	68,666

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$4,853,148	\$4,710,006
Finished products.....	1,847,874	1,725,419
Materials, supplies, etc.....	3,005,274	2,984,247
End of year, total.....	5,095,376	5,701,270
Finished products.....	1,798,615	1,983,060
Materials, supplies, etc.....	3,296,761	3,718,210
Value of products for the industry, total.....	17,319,579	25,687,974
Value of establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	17,319,579	25,285,857
Value for establishments not reporting inventories.....		402,117

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	55
Number of establishments reporting power equipment.....	55
Prime movers, aggregate:	
Number.....	10
Horsepower.....	1,543
Prime movers, driving generators, total—	
Number.....	7
Horsepower.....	1,397
Steam engines—	
Number.....	4
Horsepower.....	1,225
Internal-combustion engines, ² other than Diesel and semi-Diesel—	
Number.....	2
Horsepower.....	90
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	82
Prime movers not driving generators, total—	
Number.....	3
Horsepower.....	140
Steam engines—	
Number.....	1
Horsepower.....	100
Diesel and semi-Diesel engines—	
Number.....	2
Horsepower.....	46
Generators, kilowatt rating, total.....	822
Generators, driven by—	
Steam engines, kilowatt rating.....	735
Internal-combustion engines, ² other than Diesel and semi-Diesel, kilowatt rating.....	47
Hydroturbines and water wheels, kilowatt rating.....	40
Electric motors, total:	
Number.....	1,849
Horsepower.....	14,541
Driven by purchased energy—	
Number.....	1,668
Horsepower.....	13,102
Driven by energy generated in establishments reporting—	
Number.....	181
Horsepower.....	1,349
Electric energy (kilowatt-hours):	
Generated in plant.....	711,605
Purchased.....	8,047,773

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

BLOWERS; EXHAUST AND VENTILATING FANS

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of blowers, and ventilating and exhaust fans for general industrial, commercial, and household use, including attic fans, blower filter units (furnace blowers), and fans for mechanical draft. This classification does not include circulating fans for use in free air, such as desk, pedestal, or wall-type fans.

These establishments were formerly included in the "Machinery not elsewhere classified" industry but were given a separate industry classification for the first time at the census for 1939. The 1937 reports were retabulated to obtain figures comparable with those for 1939, but there are no comparable figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	77	3,885	\$5,371,111	\$11,767,721	\$28,606,349	\$16,838,628	1,770
1937.....	42	3,997	5,845,251	12,730,768	30,264,909	17,534,141	(4)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Data not available for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Louisiana	Michigan	Ohio	Pennsylvania	Texas	Other States ¹
Number of establishments ²	77	5	5	12	8	5	8	34
Proprietors and firm members.....	29	2	2	4	1	3	8	9
Persons reported by manufacturing establishments, total ³	5,446	197	48	1,160	400	226	55	3,360
Salaried officers of corporations ⁴	93	7	6	15	7	4	3	51
Manufacturing:								
Salaried employees ⁵	641	36	4	167	65	23	8	338
Wage earners (average for the year) ⁴	3,885	131	28	715	312	191	40	2,468
Distribution.....	724	14	10	178	16	8	4	494
Construction.....	21	8	11	11	—	—	—	2
Other.....	82	1	—	74	—	—	—	7
Salaries and wages, total ⁵	\$9,063,141	\$343,103	\$58,276	\$2,047,355	\$586,752	\$250,455	\$61,364	\$5,706,830
Salaried officers ⁴	636,659	27,877	15,624	112,334	63,679	20,098	7,420	380,618
Manufacturing:								
Salaries ⁴	1,144,611	66,671	5,145	304,056	90,734	41,824	10,963	610,218
Wages.....	5,371,111	183,938	22,527	1,077,371	367,169	174,634	38,565	3,500,007
Distribution.....	1,743,607	60,643	14,980	402,402	50,170	13,890	4,407	1,188,190
Construction.....	25,105	3,086	—	18,302	—	—	—	3,717
Other.....	141,958	888	—	132,890	—	—	—	8,180
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	11,767,721	456,504	169,433	2,333,784	1,186,830	213,303	100,168	7,307,579
Materials and supplies.....	11,280,704	461,222	166,679	2,268,160	1,102,791	190,244	98,336	7,063,222
Fuel.....	174,692	538	68	38,215	5,458	7,048	483	122,282
Purchased electric energy.....	115,197	4,304	1,692	44,633	9,137	7,210	1,290	46,916
Contract work.....	107,728	500	994	42,776	69,444	8,855	—	75,159
Value of products.....	28,606,349	1,201,058	329,709	6,750,153	2,578,615	643,312	188,240	16,910,262
Value added by manufacture ⁶	16,838,628	744,494	169,275	4,416,369	1,391,785	434,049	88,072	9,602,683

¹ Arkansas, 2 establishments; Colorado, 1; Connecticut, 1; Florida, 1; Illinois, 4; Indiana, 4; Iowa, 1; Massachusetts, 6; Minnesota, 2; Missouri, 1; New Jersey, 8; New York, 3; Tennessee, 1; Washington, 2; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

CENSUS OF MANUFACTURES: 1939

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

	1939	1937
Blowers; Exhaust and Ventilating Fans industry, all products, total value.....	\$28,606,349	\$30,264,909
Blowers and exhaust and ventilating fans, including parts and attachments made in this industry.....	18,077,048	17,621,846
Miscellaneous products not specified.....	1,085,632	12,068,794
Other products (not classified in this industry).....	9,205,059	574,269
Receipts for contract and repair work.....	238,610	
Blowers; exhaust and ventilating fans, aggregate value.....	24,561,195	126,292,451
Blowers and exhaust and ventilating fans, including parts and attachments made in this industry.....	18,077,048	17,621,846
Blowers and exhaust and ventilating fans, including parts and attachments made in other industries:		
Made in industries within the Machinery (Except Electrical) group.....	3,524,029	8,660,605
Made in industries outside the Machinery (Except Electrical) group.....	2,960,118	

¹ Not strictly comparable with figure shown for 1939 because of a complete change in the schedule used for the 1939 census.

² Chiefly value of air circulators, air-conditioning equipment, and sugar-mill machinery.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 ¹

PRODUCT	1939			Aggregate
	Produced in this industry	Produced in other industries within the Machinery (Except Electrical) group	Produced in industries outside the Machinery (Except Electrical) group	
Blowers and exhaust and ventilating fans and parts and attachments, total.....	\$18,077,048	\$3,524,029	\$2,960,118	\$24,561,195
Blowers, centrifugal (complete, including bearings, pulleys, and other equipment necessary for installation when furnished):				
Heavy duty (for general usage, except those for mechanical draft), classes I, II, III, and IV, N. A. F. M.:				
Number reported—				
Number.....	29,865	2,159	461	32,485
Value.....	\$4,427,271	\$2,174,586	\$177,490	\$6,779,347
Number not reported, value.....	\$538,352			\$538,352
Lightweight, designed for pressures up to 1½" (except small-housed blowers):				
Complete blowers for any purpose:				
Number reported—				
Number.....	16,574	512		17,086
Value.....	\$1,657,349	\$36,245		\$1,693,594
Number not reported, value.....	\$3,160,842	\$1,100		\$3,161,448
Wheels and housings for any purpose:				
Number reported—				
Number.....	68,641		24,600	93,331
Value.....	\$1,210,008		\$79,911	\$1,289,919
Number not reported, value.....	\$77,100			\$77,100
Blower filter unit (furnace blower):				
Number reported—				
Number.....	25,723	6,725	200	32,648
Value.....	\$700,793	\$171,353	\$12,703	\$884,909
Number not reported, value.....	\$10,280			\$10,280
Small-housed blowers (utility sets) for direct connection to motors (including motors and controls when furnished):				
Number reported—				
Number.....	17,801	3	5,411	23,305
Value.....	\$664,948	\$100	\$101,037	\$766,085
Number not reported, value.....	\$181,044		\$4,855	\$185,899
Blowers or fans for mechanical draft:				
Number reported—				
Number.....	2,218	449	870	3,537
Value.....	\$680,483	\$186,106	\$49,430	\$916,109
Number not reported, value.....	\$521,361	\$176,500	\$53,739	\$751,600
Fans, axial (propeller type):				
Light duty, for general ventilation application, all purposes, including attic ventilators, etc., direct connected or belt driven, including motors when furnished:				
Number reported—				
Number.....	55,506	4,616	132,521	192,643
Value.....	\$2,868,582	\$316,919	\$2,431,824	\$5,617,325
Number not reported, value.....	\$404,629	\$262,447	\$49,069	\$716,145
Heavy duty, designed for pressures greater than ½", including all necessary accessory equipment for installation for mine ventilation, general industrial, or other application:				
Number reported—				
Number.....	2,158	1,035		3,193
Value.....	\$261,644	\$187,448		\$449,092
Number not reported, value.....	\$712,862	\$11,039		\$723,901

¹ No comparable data for individual items are available for 1937 because of a complete change in the schedule used for the 1939 census.

BLOWERS; EXHAUST AND VENTILATING FANS

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	3,885	3,333	3,402	3,538	3,702	4,045	4,161	4,136	4,043	4,003	4,045	4,074	4,046
1937	3,997	3,454	3,585	3,804	3,970	4,212	4,470	4,513	4,374	4,146	3,980	3,832	3,610
California	131	68	97	126	165	206	192	174	184	105	98	101	111
Louisiana	28	22	24	30	30	30	37	33	31	24	24	25	25
Michigan	715	609	624	620	654	607	604	755	753	752	770	832	821
Ohio	312	217	230	259	301	373	404	400	327	315	341	284	281
Pennsylvania	191	185	187	185	187	191	196	201	160	201	191	180	180
Texas	40	23	27	39	47	55	74	72	68	29	19	20	22

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	77
Reporting expenditures for plant and equipment	58
Value of products:	
Total for the industry	\$28,606,340
Reporting expenditures for plant and equipment	27,448,872
Expenditures for plant and equipment:	
Total for the industry	501,953
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	49,413
Expenditures for new machinery and operating equipment	386,798
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	65,742

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

	1939	1937
Inventories:		
Beginning of year, total	\$3,621,130	\$5,770,543
Finished products	1,368,365	2,272,775
Materials, supplies, etc.	5,252,771	3,500,768
End of year, total	7,093,525	6,841,164
Finished products	1,250,208	2,987,435
Materials, supplies, etc.	5,837,317	3,853,729
Value of products for the industry, total	28,606,349	30,264,900
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	28,606,349	30,025,183
Value for establishments not reporting inventories		239,726

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments	77
Number of establishments reporting power equipment	75
Prime movers, aggregate:	
Number	10
Horsepower	1,779
Prime movers, driving generators, total—	
Number	8
Horsepower	1,644
Steam engines—	
Number	6
Horsepower	1,562
Steam turbines—	
Number	2
Horsepower	82
Prime movers, driving generators, ordinarily idle (included above), horsepower	82
Prime movers, internal-combustion engines, ² other than Diesel and semi-Diesel, not driving generators—	
Number	2
Horsepower	135
Generators, kilowatt rating, total	1,310
Generators, driven by—	
Steam engines, kilowatt rating	1,250
Steam turbines, kilowatt rating	60
Generators, ordinarily idle (included above), kilowatt rating	60
Electric motors, total:	
Number	2,456
Horsepower	13,934
Driven by purchased energy—	
Number	2,258
Horsepower	11,896
Driven by energy generated in establishments reporting—	
Number	197
Horsepower	2,038
Electric energy (kilowatt-hours):	
Generated in plant	2,955,000
Purchased	5,502,605

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

MEASURING INSTRUMENTS, MECHANICAL (EXCEPT ELECTRICAL MEASURING INSTRUMENTS, WATCHES, AND CLOCKS)

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of meters of all kinds, except electric; flow and pressure indicating, recording, and controlling equipment; testing equipment; and gages and controls not classified in other industries. Heat gages and controls are included in "Steam fittings, regardless of material" industry and electric meters are included in the "Electrical measuring instruments" industry.

These establishments were included in the "Instruments and apparatus, professional, scientific, commercial, and industrial" industry or in the "Machine-shop products" industry for 1937 but were given a separate industry classification at the census for 1939. The figures for 1937 were retabulated to obtain figures comparable with those for 1939; there are, however, no comparable figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
THE INDUSTRY							
1939.....	68	6,692	\$8,873,656	\$13,177,382	\$39,684,434	\$26,507,052	1,064
1937 ⁴	67	7,400	9,852,435	14,897,232	42,077,364	27,180,132	(⁵)
"METERS (EXCEPT ELECTRIC) AND FLOW AND PRESSURE INDICATING, RECORDING, AND CONTROLLING EQUIPMENT" BRANCH OF THE INDUSTRY							
1939 ⁶	48	5,559	7,572,861	11,707,296	35,302,161	23,504,865	944
"TESTING EQUIPMENT AND GAGES AND CONTROLS NOT ELSEWHERE CLASSIFIED" BRANCH OF THE INDUSTRY							
1939 ⁶	20	1,133	1,300,795	1,470,086	4,882,273	2,012,187	160

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Figures not available for years prior to 1937.

⁵ Not called for on schedule.

⁶ Figures not available for years prior to 1939.

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

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

ITEM	United States	California	Massachusetts	Michigan	New Jersey	New York	Pennsylvania	Other States ¹
Number of establishments ²	68	10	4	4	4	12	11	23
Proprietors and firm members.....	16	2	—	2	1	1	1	9
Persons reported by manufacturing establishments, total ³	8,556	533	1,038	40	376	1,571	2,695	2,302
Salaried officers of corporations ³	95	10	9	3	7	10	17	30
Manufacturing:								
Salaried employees ³	1,220	45	208	11	35	142	305	483
Wage earners (average for the year) ⁴	6,692	435	704	21	302	1,282	2,302	1,045
Distribution.....	497	42	117	4	28	118	60	138
Construction.....	15	—	—	—	1	—	14	—
Other.....	28	1	—	1	3	10	7	—
Salaries and wages, total ³	\$13,102,996	\$930,587	\$1,682,342	\$78,189	\$542,086	\$2,409,027	\$3,775,782	\$3,593,483
Salaried officers ³	698,048	53,821	129,120	22,866	38,975	100,574	130,977	222,315
Manufacturing:								
Salaries ³	2,410,520	108,302	419,801	17,835	73,362	304,801	635,319	851,100
Wages.....	8,873,656	626,876	804,822	24,148	371,879	1,838,212	2,900,592	2,217,127
Distribution.....	1,070,478	140,601	288,589	12,221	55,845	244,561	81,912	266,789
Construction.....	16,203	—	—	—	1,125	—	15,078	—
Other.....	33,491	987	—	1,119	1,500	11,779	11,904	6,202
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	13,177,382	748,407	1,409,857	125,084	395,567	2,250,019	4,373,018	3,815,430
Materials and supplies.....	12,716,768	702,979	1,421,549	117,033	373,432	2,157,945	4,266,710	3,677,120
Fuel.....	181,227	14,479	25,496	1,226	10,405	29,240	44,814	55,567
Purchased electric energy.....	227,362	11,610	20,612	1,106	11,730	61,061	61,194	60,049
Contract work.....	52,025	19,339	2,200	5,719	—	1,773	300	22,694
Value of products.....	39,684,434	2,401,025	5,052,783	273,561	1,363,002	8,439,960	11,409,452	10,744,071
Value added by manufacture ⁵	26,507,052	1,652,618	3,582,906	148,477	968,035	6,189,041	7,036,434	6,928,641

¹ Connecticut, 4 establishments; Illinois, 2; Indiana, 3; Iowa, 1; Ohio, 5; Oklahoma, 1; Oregon, 1; Rhode Island, 3; Wisconsin, 3.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

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

	1939	1937		1939	1937
Measuring Instruments, Mechanical (Except Electrical Measuring Instruments, Watches, and Clocks) Industry, all products, total value.....	\$39,084,434	\$42,077,364	Mechanical measuring instruments—Continued.		
Mechanical measuring instruments, etc., parts and attachments made in this industry.....	32,255,605	36,567,520	Meters (except electric) and flow and pressure indicating, recording, and controlling equipment, total value.....	\$29,239,000	(1)
Miscellaneous products not specified.....	117,795		Meters (except electric), etc., parts and attachments made in this branch of the industry.....	27,762,262	
Other products (not classified in this industry).....	6,335,400	4,719,076	Meters (except electric), made as secondary products in other industries.....	1,476,738	
Receipts for contract and repair work.....	975,634	790,768	The "Testing equipment and gages and controls not elsewhere classified" branch of the industry, all products, total value.....	4,795,958	
Mechanical measuring instruments (except electrical measuring instruments, watches, and clocks), aggregate value.....	37,120,833	40,074,135	Testing equipment and gages and controls, etc., parts and attachments made in this branch of the industry.....	4,493,343	
Mechanical measuring instruments, etc., parts and attachments made in this industry.....	32,255,605	36,567,520	Miscellaneous products not specified.....	247,798	
Mechanical measuring instruments made as secondary products in other industries.....	4,865,228	3,506,615	Other products (not classified in this industry).....	54,596	(2)
The "Meters (except electric) and flow and pressure indicating, recording, and controlling equipment" branch of the industry, all products, total value.....	34,888,476		Receipts for contract and repair work.....	7,881,833	
Meters (except electric), etc., parts and attachments made in this branch of the industry.....	27,762,262		Testing equipment and gages and controls, not elsewhere classified, total value.....		
Miscellaneous products not specified.....	117,795		Testing equipment, gages and controls, etc., parts and attachments made in this branch of the industry.....	4,493,343	
Other products (not classified in this industry).....	6,087,604		Testing equipment and gages and controls made as secondary products in other industries.....	3,388,490	
Receipts for contract and repair work.....	921,088				

(1) Chiefly value of professional and scientific instruments, steam regulators, and fittings.

(2) Not published separately.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939¹

PRODUCT	1939			PRODUCT	1939		
	Produced in the industry	Produced in other industries	Aggregate		Produced in the industry	Produced in other industries	Aggregate
Total value.....	\$32,255,605	\$4,865,228	\$37,120,833	Flow indicating, recording, and controlling equipment (other than meters called for above):			
Meters (other than electric):				Recording, including controllers.....	\$2,471,944	\$725,720	\$3,197,664
Gas.....				Indicating.....	\$744,068		\$744,068
Number.....	765,765	3,169	768,934	Pressure indicating, recording, and controlling equipment (other than meters called for above):			
Value.....	\$7,467,933	\$45,019	\$7,502,952	Other meters.....	\$647,953	\$243,743	\$891,696
Water.....				Parts of meters.....	\$608,278		\$608,278
Number.....	567,841	8,709	576,550	Testing equipment, gages and controls, etc., not elsewhere classified ²	\$3,987,728	\$3,388,490	\$7,376,218
Value.....	\$0,541,606	\$108,453	\$0,650,059				
Other liquid (including gasoline dispensing).....	\$5,302,767	\$353,803	\$5,656,560				

¹ No detailed production figures are available for 1937.² Does not include gages, controls, etc., classified specifically in other industries such as "Steam fittings, regardless of material" industry and "Motor vehicles, motor-vehicle bodies, parts and accessories" industry.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	6,692	6,186	6,319	6,302	6,317	6,476	6,537	6,629	6,657	6,826	7,098	7,431	7,525
1937.....	7,400	7,032	7,338	7,463	7,040	7,768	7,864	7,812	7,764	7,640	7,390	7,100	6,713
California.....	435	362	397	362	373	385	382	409	439	468	508	558	550
Connecticut.....	614	612	643	616	608	601	604	600	586	622	631	617	627
Indiana.....	50	46	46	46	48	49	51	50	53	52	51	51	51
Massachusetts.....	704	680	680	701	708	708	710	708	702	700	706	717	724
Michigan.....	21	19	21	22	19	20	20	20	21	21	24	24	24
New York.....	302	291	293	236	246	263	327	320	333	325	319	327	330
New Jersey.....	1,282	1,214	1,241	1,261	1,263	1,274	1,273	1,291	1,282	1,287	1,319	1,338	1,337
Ohio.....	291	277	279	276	280	284	284	282	281	280	312	318	355
Pennsylvania.....	2,302	2,101	2,119	2,135	2,119	2,172	2,178	2,232	2,249	2,335	2,488	2,711	2,780
Wisconsin.....	168	110	115	141	155	162	197	185	163	160	165	156	167

CENSUS OF MANUFACTURES: 1939

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	"Measuring instruments, mechanical (except electrical measuring instruments, watches, and clocks)" industry	The "meters (except electric) and flow and pressure indicating, recording, and controlling equipment" branch of the industry	The "testing equipment and gages and controls not elsewhere classified" branch of the industry
Number of establishments:			
Total for the industry.....	68	48	20
Reporting expenditures for plant and equipment.....	51	35	16
Value of products:			
Total for the industry.....	\$39,684,434	\$35,302,161	\$4,382,273
Reporting expenditures for plant and equipment.....	38,170,039	34,018,413	4,151,626
Expenditures for plant and equipment:			
Total for the industry.....	691,825	573,563	118,262
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	73,811	69,669	4,142
Expenditures for new machinery and operating equipment.....	578,826	471,341	107,485
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	39,188	32,553	6,635

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

	1939			1937
	"Meters (except electric) and flow and pressure indicating, recording, and controlling equipment" branch of the industry	"Testing equipment and gages and controls not elsewhere classified" branch of the industry	"Measuring instruments, mechanical (except electrical measuring instruments, watches, and clocks)" industry	
Inventories:				
Beginning of year, total.....	\$8,956,012	\$862,071	\$9,918,083	\$9,744,561
Finished products.....	4,341,081	362,340	4,703,421	4,768,353
Materials, supplies, etc.....	4,614,931	599,731	5,214,662	4,976,208
End of year, total.....	9,323,020	1,218,507	10,541,527	11,121,392
Finished products.....	4,085,405	569,691	4,655,096	4,871,168
Materials, supplies, etc.....	5,237,615	648,816	5,886,431	6,250,224
Value of products for the industry, total.....	35,302,161	4,382,273	39,684,434	42,077,364
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	35,302,161	4,382,273	39,684,434	41,922,350
Value for establishments not reporting inventories.....				155,014

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	The industry	"Meters (except electric) and flow and pressure indicating, recording, and controlling equipment" branch of the industry	"Testing equipment and gages and controls not elsewhere classified" branch of the industry		The industry	"Meters (except electric) and flow and pressure indicating, recording, and controlling equipment" branch of the industry	"Testing equipment and gages and controls not elsewhere classified" branch of the industry
Number of establishments.....	68	48	20	Prime movers—Continued.			
Number of establishments reporting power equipment.....	68	48	20	Prime movers not driving generators—Continued			
Prime movers, aggregate:				Internal-combustion engines, ² other than Diesel and semi-Diesel—			
Number.....	7	6	1	Number.....	3	3	
Horsepower.....	1,094	944	150	Horsepower.....	92	92	
Prime movers, steam engines, driving generators—				Generators, driven by steam engines, kilowatt rating.....	475	400	75
Number.....	2	1	1	Electric motors, total:			
Horsepower.....	750	600	150	Number.....	4,506	3,910	686
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	150		160	Horsepower.....	15,650	14,241	1,409
Prime movers not driving generators, total—				Driven by purchased energy—			
Number.....	5	5		Number.....	4,330	3,644	686
Horsepower.....	344	344		Horsepower.....	14,549	13,140	1,409
Steam engines—				Driven by energy generated in establishments reporting—			
Number.....	2	2		Number.....	266	266	
Horsepower.....	252	252		Horsepower.....	1,101	1,101	
				Electric energy (kilowatt-hours):			
				Generated in plant.....	673,800	673,800	
				Purchased.....	11,499,822	10,024,340	1,475,473

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

MECHANICAL POWER-TRANSMISSION EQUIPMENT

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

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of mechanical power-transmission equipment such as ball and roller bearings, gears made for sale separately, drives, shafts, etc.

These establishments were formerly classified in the "Machine-shop products" industry but were given a separate industry classification at the census for 1939. The 1937 reports were retabulated to obtain figures comparable with those for 1939, but there are no figures available for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	218	30,268	\$43,751,830	\$50,366,749	\$170,291,472	\$110,924,723	14,893
1937.....	163	33,029	48,497,933	56,524,360	181,278,250	124,763,884	(4)

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

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

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

ITEM	United States	California	Connecticut	Illinois	Indiana	Massachusetts	Michigan	New York	Pennsylvania	Other States ¹
Number of establishments ²	218	14	16	27	13	13	14	27	34	60
Proprietors and firm members.....	60	11	.....	6	4	1	8	4	15	12
Persons reported by manufacturing establishments, total ³	37,363	276	10,491	2,087	4,551	1,510	1,584	2,809	4,274	9,781
Salaried officers of corporations ⁴	380	9	42	51	20	29	21	48	58	93
Manufacturing:										
Salaried employees ⁵	4,352	47	1,103	216	479	248	119	381	642	1,117
Wage earners (average for the year) ⁶	30,268	194	8,680	1,691	3,513	1,153	1,362	2,177	3,193	8,299
Distribution.....	2,124	22	622	118	403	70	47	198	310	244
Construction.....	94	.....	.....	6	18	7	35	1	7	20
Other.....	145	4	38	5	19	3	.....	4	04	8
Salaries and wages, total ³	\$61,190,554	\$492,939	\$16,453,146	\$3,040,922	\$7,376,905	\$2,669,392	\$3,088,429	\$4,658,851	\$7,255,491	\$15,527,479
Salaried officers ³	3,482,035	61,544	534,065	483,919	362,013	272,159	216,775	353,344	507,029	690,587
Manufacturing:										
Salaries ³	9,012,492	80,127	2,469,286	445,712	980,662	497,050	257,541	725,747	1,357,042	2,198,725
Wages.....	43,751,830	307,968	12,019,210	2,454,244	5,130,613	1,721,556	2,453,730	3,057,737	4,611,175	11,095,591
Distribution.....	4,618,784	38,951	1,376,199	241,407	858,394	100,179	104,383	515,677	685,443	608,151
Construction.....	147,943	.....	.....	15,059	24,354	14,040	56,000	1,294	10,093	27,198
Other.....	185,870	4,349	54,380	6,581	20,209	3,808	.....	5,062	84,199	7,232
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	50,366,749	453,490	9,902,730	3,764,498	5,237,219	1,793,361	3,430,017	4,540,850	7,063,134	14,174,841
Materials and supplies.....	46,819,844	437,711	8,976,089	3,529,050	4,896,628	1,647,470	3,182,702	4,250,293	6,652,657	13,247,148
Fuel.....	1,204,578	3,143	297,550	72,270	149,546	28,347	20,723	111,177	118,650	304,125
Purchased electric energy.....	1,958,833	12,624	626,566	122,297	186,962	80,850	204,590	130,226	104,062	400,730
Contract work.....	383,474	7	2,649	40,869	4,083	36,694	13,500	55,163	97,705	132,838
Value of products.....	170,291,472	1,190,090	42,351,299	9,867,910	18,885,152	6,249,733	9,128,472	12,831,422	20,539,884	49,247,533
Value added by manufacture ⁴	119,924,723	739,576	32,448,569	6,103,412	13,647,933	4,456,372	6,697,855	8,284,564	13,476,750	35,072,692

¹ Colorado, 2 establishments; Iowa, 1; Kentucky, 1; Maryland, 1; Minnesota, 2; Missouri, 4; New Hampshire, 1; New Jersey, 7; North Carolina, 1; Ohio, 24; Oklahoma, 1; Rhode Island, 1; Tennessee, 1; Texas, 2; Virginia, 1; Washington, 2; Wisconsin, 8.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

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

	1939	1937
Mechanical Power-Transmission Equipment industry, all products, total value.....	\$170,291,472	\$181,278,250
Transmission equipment, including replacement and repair parts, made in this industry.....	159,321,973	163,560,921
Miscellaneous products not specified.....	291,468	.....
Other products (not classified in this industry).....	1,954,028	11,387,883
Receipts for contract and repair work.....	1,114,013	1,329,446
Mechanical power-transmission equipment, aggregate value.....	183,926,957	214,118,357
Transmission equipment, including replacement and repair parts made in this industry.....	159,321,973	163,560,921
Mechanical power-transmission equipment made as secondary products in other industries.....	24,603,984	45,557,436

¹ Chiefly value of iron castings, conveyors, oil-burners, industrial (factory, baggage, etc.) hand trucks, pumps, and mining screens.

² Includes data reported by certain establishments which were classified in other industries in 1937 but assigned to this industry for 1939.

CENSUS OF MANUFACTURES: 1939

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

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Total value.....	\$159,321,973	\$24,603,984	\$183,925,957	\$214,118,357
Ball and roller bearings and parts:				
Ball bearings.....	50,334,472	887,540	51,222,012	53,208,334
Balls made for sale as such.....	2,795,964	1,800	2,798,764	3,736,603
Other parts.....	1,786,653 ¹	51,320	1,837,973	1,033,388
Roller bearings.....	45,769,310	1,662,958	47,432,268	59,724,837
Rolls for sale as such.....	1,003,955	7,289	1,011,244	1,110,416
Other parts.....	566,050	5,844	571,894	199,012
Power-transmission equipment:				
Chain drives.....	17,280,806	197,667	17,478,473	25,288,742
Variable-speed drives.....	3,293,257	975,777	4,269,034	120,868,375
Speed reducers.....	5,161,379	9,257,030	14,418,409	23,847,777
Gears.....	16,514,104	4,190,151	20,704,255	19,080,822
Other.....	13,827,699	7,128,975	20,956,674	1,019,111
Parts and attachments.....	987,324	237,624	1,224,948	

¹ Reported as speed reduction gear assemblies (other than motor vehicle).

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	30,268	28,564	28,065	29,670	29,225	28,295	28,380	28,638	29,156	30,397	32,582	34,153	35,180
1937.....	33,029	30,663	31,448	32,686	33,060	34,011	33,847	33,920	34,667	34,847	34,446	33,085	29,678
California.....	194	170	181	182	185	184	186	190	191	205	213	216	220
Connecticut.....	8,686	8,033	8,902	9,077	8,416	7,674	7,722	7,858	8,101	8,440	9,201	9,894	10,224
Illinois.....	1,691	1,497	1,555	1,606	1,648	1,683	1,658	1,647	1,702	1,749	1,838	1,823	1,882
Indiana.....	3,513	3,206	3,285	3,361	3,408	3,379	3,317	3,326	3,413	3,606	3,842	4,008	4,009
Massachusetts.....	1,153	987	1,038	1,065	1,093	1,132	1,156	1,158	1,156	1,200	1,236	1,292	1,327
Michigan.....	1,362	1,278	1,312	1,330	1,334	1,303	1,249	1,237	1,202	1,331	1,462	1,598	1,621
Missouri.....	219	222	223	224	222	218	215	216	211	213	217	215	230
New Jersey.....	1,603	1,501	1,512	1,544	1,550	1,535	1,550	1,565	1,615	1,634	1,697	1,726	1,806
New York.....	2,177	2,041	1,996	1,990	1,987	1,979	2,013	2,080	2,145	2,237	2,428	2,683	2,630
Ohio.....	5,606	5,340	5,240	5,482	5,552	5,386	5,353	5,344	5,300	5,630	5,924	6,203	6,510
Pennsylvania.....	3,193	2,885	2,891	2,948	2,972	2,964	3,075	3,144	3,171	3,284	3,529	3,682	3,779
Wisconsin.....	573	527	544	564	562	566	579	575	560	580	600	600	610

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	12,027	\$278,426
Scrap iron and steel, purchased as such.....	18,122	596,207

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	218
Reporting expenditures for plant and equipment.....	164
Value of products:	
Total for the industry.....	\$170,291,472
Reporting expenditures for plant and equipment.....	184,794,630
Expenditures for plant and equipment:	
Total for the industry.....	7,351,185
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	1,290,265
Expenditures for new machinery and operating equipment.....	6,060,939

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939—Continued

	1939
Expenditures for plant and equipment—Continued.	
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	\$242,834
Expenditures unclassified.....	14,147

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$42,150,590	\$32,381,854
Finished products.....	17,757,546	14,791,960
Materials, supplies, etc.....	24,393,044	17,589,898
End of year, total.....	46,055,085	40,799,476
Finished products.....	17,628,676	19,107,134
Materials, supplies, etc.....	28,426,509	21,692,342
Value of products for the industry, total.....	170,291,472	181,278,250
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	170,209,881	170,207,893
Value for establishments not reporting inventories.....	81,591	2,070,357

MECHANICAL POWER-TRANSMISSION EQUIPMENT

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TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939		1939
Number of establishments.....	218	Prime movers—Continued.	
Number of establishments reporting power equipment.....	214	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Diesel and semi-Diesel engines—	
Number.....	83	Number.....	1
Horsepower.....	14,893	Horsepower.....	40
Prime movers, driving generators, total—		Other internal-combustion engines ² —	
Number.....	22	Number.....	4
Horsepower.....	13,893	Horsepower.....	205
Steam engines—		Generators, kilowatt rating, total.....	9,317
Number.....	13	Generators, driven by—	
Horsepower.....	2,938	Steam engines, kilowatt rating.....	1,826
Steam turbines—		Steam turbines, kilowatt rating.....	7,175
Number.....	6	Diesel and semi-Diesel engines, kilowatt rating.....	250
Horsepower.....	10,490	Hydroturbines and water wheels, kilowatt rating.....	66
Diesel and semi-Diesel engines—		Generators, ordinarily idle (included above), kilowatt rating.....	2,360
Number.....	2	Electric motors, total:	
Horsepower.....	365	Number.....	33,049
Hydroturbines and water wheels—		Horsepower.....	174,191
Number.....	1	Driven by purchased energy—	
Horsepower.....	100	Number.....	31,481
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	3,500	Horsepower.....	160,196
Prime movers not driving generators, total—		Driven by energy generated in establishments reporting—	
Number.....	11	Number.....	1,568
Horsepower.....	1,000	Horsepower.....	13,995
Steam engines—		Electric energy (kilowatt-hours):	
Number.....	6	Generated in plant.....	21,736,230
Horsepower.....	755	Sold.....	469,880
		Purchased.....	141,437,973

¹ Comparable data for 1920 not available.² Gas, gasoline, etc.

STOKERS, MECHANICAL, DOMESTIC AND INDUSTRIAL

[A preliminary report for this industry was issued November 18, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of mechanical stokers, including residential, commercial, and industrial types. These establishments were formerly assigned to the "Machinery not elsewhere

classified" industry but were given a separate industry classification at the census for 1939. The reports for 1937 were retabulated to obtain figures comparable with those for 1939, but there are no comparable figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939	61	3,549	\$4,789,265	\$9,857,338	\$24,545,164	\$14,687,826	3,008
1937 ⁴	50	3,529	5,091,936	9,870,241	25,576,640	15,697,399	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Figures not available for years prior to 1937.

⁵ Data not available.

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

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

ITEM	United States	Illinois	Indiana	Michigan	Missouri	New York	Ohio	Pennsylvania	Washington	Other States ¹
Number of establishments ²	61	10	9	3	5	3	9	6	4	12
Proprietors and firm members	15		3					3	2	7
Persons reported by manufacturing establishments, total ³	4,927	1,124	497	460	108	218	953	1,210	22	327
Salaried officers of corporations ³	89	13	15	12	5	2	25	7	1	9
Manufacturing:										
Salaried employees ³	659	97	69	99	9	23	176	152	3	31
Wage earners (average for the year) ⁴	3,549	814	325	286	61	179	633	993	11	248
Distribution	591	199	84	63	33	12	118	38	7	37
Construction	29							20		
Other	10	1	4			2	1			2
Salaries and wages, total ⁵	\$7,570,509	\$1,670,408	\$688,182	\$791,134	\$140,810	\$301,689	\$1,650,589	\$1,704,755	\$29,770	\$539,172
Salaried officers ³	515,631	59,180	87,809	72,896	12,160	9,100	108,466	65,600	960	30,464
Manufacturing:										
Salaries ³	1,174,325	172,995	104,200	151,297	11,393	49,823	323,516	288,021	4,745	67,825
Wages	4,789,265	1,121,690	343,772	387,538	77,412	213,767	956,901	1,288,580	10,255	383,350
Distribution	1,045,221	316,478	149,370	179,403	39,929	26,191	200,572	79,517	7,810	45,953
Construction	42,437							42,437		
Other	9,630	67	3,081			2,808	1,144			2,680
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	9,857,338	2,743,945	1,445,009	1,020,446	201,909	379,119	1,934,078	1,505,167	36,176	591,486
Materials and supplies	9,435,503	2,677,893	1,417,668	988,728	192,345	354,185	1,898,222	1,374,620	34,665	557,182
Fuel	173,434	38,914	10,444	21,919	5,403	14,299	13,565	54,455	778	13,657
Purchased electric energy	190,759	26,632	16,897	9,804	3,883	10,126	32,103	70,092	733	14,399
Contract work	57,642	506			278	509	60,098			6,251
Value of products	24,545,164	5,535,617	2,612,060	2,784,949	471,288	1,212,646	5,227,773	5,039,700	84,272	1,570,769
Value added by manufacture ⁵	14,687,826	2,791,672	1,167,051	1,764,503	269,379	833,527	3,293,695	3,534,623	48,096	985,280

¹ Colorado, 1 establishment; Maryland, 1; Massachusetts, 1; Minnesota, 1; Oregon, 1; South Carolina, 1; Utah, 4; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

STOKERS, MECHANICAL

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

	1939	1937
Stokers, Mechanical, Domestic and Industrial Industry, all products, total value.....	\$24,545,164	\$25,576,640
Stokers and parts made in this industry.....	17,836,893	19,906,785
Miscellaneous products not specified.....	4,519	4,695,953
Other products (not classified in this industry).....	5,983,720	973,902
Receipts for contract and repair work.....	720,032	
Stokers, mechanical, domestic and industrial, aggregate value.....	23,565,481	25,866,593
Stokers and parts made in this industry.....	17,836,893	19,906,785
Stokers and parts made as secondary products in other industries, total value.....	5,728,588	6,959,808
Produced in other industries within the Machinery (Except Electrical) group.....	2,681,501	
Produced in industries outside the Machinery (Except Electrical) group.....	3,047,087	(²)

¹ Chiefly value of conveying and elevating machinery, pulverizers, transmission machinery, miscellaneous machine parts and attachments, and general machine-shop products.

² No data.

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

PRODUCT	1939				1937
	Produced in the industry	Produced in other industries within the Machinery (Except Electrical) group	Produced in industries outside the Machinery (Except Electrical) group	Aggregate	
Mechanical stokers, parts, and attachments, total value.....	\$17,836,893	\$2,681,501	\$3,047,087	\$23,565,481	\$25,866,593
Residential (not to exceed 100 pounds coal capacity per hour):					
Number reported—					
Number.....	67,245	4,045	17,943	89,233	89,045
Value.....	\$8,128,042	\$858,191	\$2,451,903	\$11,438,226	\$11,922,250
Number not reported, value.....	\$77,458	\$1,744	\$134,846	\$214,047	\$85,043
Commercial and industrial (over 100 pounds coal capacity per hour):					
Number reported—					
Number.....	7,797	1,005	675	9,477	14,098
Value.....	\$6,700,848	\$980,624	\$359,083	\$8,131,455	\$9,701,966
Number not reported, value.....	\$20,700	\$429,430	\$41,258	\$491,388	\$466,464
Parts and attachments.....	\$2,819,845	\$411,512	\$59,008	\$3,290,365	\$4,660,870

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	3,540	3,176	3,250	3,268	3,321	3,390	3,485	3,578	3,602	3,840	3,885	3,916	3,801
1937.....	3,520	3,051	3,153	3,284	3,461	3,527	3,738	3,883	3,983	4,062	3,878	3,333	2,997
Illinois.....	814	750	792	788	791	785	785	809	857	889	871	846	798
Indiana.....	325	258	295	256	274	286	290	351	411	450	445	333	277
Michigan.....	280	220	230	244	277	324	357	340	283	283	285	288	281
Missouri.....	61	57	56	56	54	52	56	61	62	63	74	72	72
New York.....	170	170	167	167	168	178	197	187	191	187	181	186	172
Ohio.....	683	545	555	572	582	580	609	612	628	602	718	768	731
Pennsylvania.....	993	920	954	941	941	933	942	955	989	997	1,030	1,128	1,174
Utah.....	37	20	23	23	26	33	37	38	40	49	49	47	45
Washington.....	11	12	11	11	11	11	11	11	11	12	13	11	11

CENSUS OF MANUFACTURES: 1939

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
Pig iron.....	6,568	\$146,704
Scrap iron and steel, purchased as such.....	10,178	168,937

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	61
Reporting expenditures for plant and equipment.....	40
Value of products:	
Total for the industry.....	\$24,545,164
Reporting expenditures for plant and equipment.....	22,705,820
Expenditures for plant and equipment:	
Total for the industry.....	744,431
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	188,916
Expenditures for new machinery and operating equipment.....	514,925
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	40,590

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$6,324,084	\$3,957,872
Finished products.....	2,832,397	1,547,671
Materials, supplies, etc.....	3,491,687	2,410,201
End of year, total.....	6,783,774	5,622,101
Finished products.....	2,909,309	2,233,486
Materials, supplies, etc.....	3,874,465	3,388,615
Value of products for the industry, total.....	24,545,164	25,576,640
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	24,545,164	25,266,375
Value for establishments not reporting inventories.....		310,265

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	61
Number of establishments reporting power equipment.....	59
Prime movers, aggregate:	
Number.....	39
Horsepower.....	3,603
Prime movers, driving generators, total—	
Number.....	9
Horsepower.....	3,533
Steam engines—	
Number.....	3
Horsepower.....	1,649
Steam turbines—	
Number.....	1
Horsepower.....	600
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	150
Hydroturbines and water wheels—	
Number.....	4
Horsepower.....	1,134
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	600
Prime movers, Diesel and semi-Diesel engines, not driving generators—	
Number.....	30
Horsepower.....	75
Generators, kilowatt rating, total.....	2,024
Generators, driven by—	
Steam engines, kilowatt rating.....	1,237
Steam turbines, kilowatt rating.....	500
Diesel and semi-Diesel engines, kilowatt rating.....	112
Hydroturbines and water wheels, kilowatt rating.....	775
Generators, ordinarily idle (included above), kilowatt rating.....	500
Electric motors, total:	
Number.....	3,006
Horsepower.....	19,942
Driven by purchased energy—	
Number.....	2,489
Horsepower.....	14,593
Driven by energy generated in establishments reporting—	
Number.....	517
Horsepower.....	5,349
Electric energy (kilowatt-hours):	
Generated in plant.....	2,800,324
Sold.....	83,307
Purchased.....	12,965,164

¹ Comparable data for 1929 not available.

INDUSTRIAL MACHINERY, NOT ELSEWHERE CLASSIFIED

and

MACHINE-SHOP PRODUCTS, NOT ELSEWHERE CLASSIFIED

[Preliminary reports for these industries were issued December 31, 1940, and January 31, 1941]

Description of the industries.—This report covers two industries, namely, "Industrial machinery, not elsewhere classified" and "Machine-shop products, not elsewhere classified."

The first named industry embraces establishments manufacturing a large class of industrial machinery for general use and mechanical devices not specifically assigned to other industries. No data for machinery made for installation in the plants in which manufactured are included in any of the tables.

The "Machine-shop products, not elsewhere classified" industry embraces machine shops that are engaged in the production of machine parts and equipment other than complete machines, and perform work to a large extent on individual order, such as making parts for repairs and replacements. Machine shops engaged

wholly on custom and repair work are assigned to the "Machine-shop repairs" industry.

Establishments assigned to these industries were given separate classifications for the first time at the census for 1939. The figures for 1937 appear incomparable, but the products of these establishments vary largely from year to year; an establishment making machinery at one census may be chiefly engaged in making machinery parts at the next census.

Valves, faucets, and fittings.—Data for these commodities were called for on the schedules used in canvassing the various industries which produced them, and were combined for all industries in table 6. The figures for fittings may include the value of some valves and faucets not separately reported.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
TOTAL FOR THE INDUSTRIES							
1939	2,704	82,653	\$112,837,960	\$104,457,436	\$500,962,278	\$306,504,842	44,212
1937 ⁴	2,483	104,337	148,705,415	250,849,804	620,476,526	378,626,722	(⁵)
MACHINE-SHOP PRODUCTS, NOT ELSEWHERE CLASSIFIED							
1939	2,125	60,717	81,659,539	141,492,964	360,334,229	218,841,265	30,817
1937	1,628	65,370	91,910,561	153,964,606	382,254,724	228,290,118	(⁵)
INDUSTRIAL MACHINERY, NOT ELSEWHERE CLASSIFIED							
1939	579	21,930	31,178,421	52,964,472	140,628,049	87,663,577	13,395
1937	857	38,967	56,794,854	90,835,198	247,221,802	150,336,604	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Figures not available for years prior to 1937.

⁵ Not called for on schedule.

CENSUS OF MANUFACTURES: 1939

TABLE 2.—MACHINE-SHOP PRODUCTS, NOT ELSEWHERE CLASSIFIED—GENERAL STATISTICS IN DETAIL BY STATES: 1939

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

ITEM	United States	Alabama	Arizona	California	Colorado	Connecticut	Florida	Georgia	Idaho	Illinois	Indiana
Number of establishments ¹	2, 125	12	4	216	16	34	8	17	3	205	80
Proprietors and firm members.....	1, 216	10	3	223	6	7	7	9	2	94	40
Persons reported by manufacturing establishments, total ²	79, 399	469	70	3, 572	130	1, 698	149	577	64	7, 550	4, 559
Salaried officers of corporations ³	2, 162	11	2	104	16	45	11	21	-----	234	81
Manufacturing:											
Salaried employees ²	10, 494	51	7	560	16	270	13	62	11	991	734
Wage earners (average for the year) ³	60, 717	402	52	2, 661	102	1, 257	90	485	50	5, 078	3, 455
Distribution.....	5, 141	5	9	224	5	78	26	8	3	595	216
Construction.....	337	-----	-----	2	-----	21	-----	-----	-----	30	22
Other.....	548	-----	-----	21	-----	21	-----	1	-----	22	52
Salaries and wages, total ⁴	\$125, 051, 864	\$578, 285	\$77, 898	\$6, 019, 830	\$201, 938	\$2, 467, 425	\$214, 022	\$648, 764	\$104, 003	\$12, 079, 902	\$6, 904, 166
Salaried officers ³	12, 202, 643	60, 084	4, 800	519, 779	39, 111	187, 449	37, 437	70, 030	-----	1, 345, 919	454, 687
Manufacturing:											
Salaries ³	19, 404, 075	94, 510	10, 551	966, 016	24, 300	416, 613	20, 032	91, 175	24, 700	1, 965, 431	1, 360, 382
Wages.....	81, 659, 539	404, 533	53, 897	4, 017, 831	124, 875	1, 622, 732	109, 113	468, 357	74, 635	7, 660, 098	4, 615, 633
Distribution.....	10, 967, 216	10, 188	8, 050	489, 397	13, 652	177, 739	47, 440	17, 782	4, 068	1, 004, 665	344, 851
Construction.....	477, 085	-----	-----	3, 885	-----	30, 080	-----	-----	-----	44, 273	34, 073
Other.....	941, 296	-----	-----	23, 512	-----	32, 212	-----	820	-----	29, 216	94, 210
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	141, 492, 964	690, 069	53, 514	7, 361, 771	215, 004	2, 296, 167	409, 886	470, 850	132, 248	19, 867, 792	9, 034, 490
Materials and supplies.....	132, 786, 360	622, 751	50, 842	6, 976, 502	201, 064	2, 070, 371	403, 845	439, 068	122, 748	19, 036, 510	8, 565, 100
Fuel.....	3, 169, 747	22, 852	723	81, 260	6, 901	95, 528	2, 412	12, 647	5, 632	322, 093	214, 592
Purchased electric energy.....	3, 847, 681	14, 604	2, 032	152, 550	6, 957	126, 483	3, 629	18, 535	3, 868	359, 098	246, 452
Contract work.....	1, 689, 106	29, 892	117	151, 360	82	3, 785	-----	-----	-----	150, 082	8, 846
Value of products.....	360, 334, 229	2, 045, 333	207, 981	18, 156, 342	521, 062	6, 462, 356	792, 574	1, 564, 251	236, 617	43, 825, 773	23, 836, 281
Value added by manufacture ⁴	218, 841, 265	1, 356, 264	154, 487	10, 794, 571	306, 058	4, 166, 189	382, 688	1, 093, 401	154, 360	23, 957, 981	14, 851, 791

ITEM	Iowa	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
Number of establishments ¹	25	12	11	14	10	17	111	153	33	5	47
Proprietors and firm members.....	19	6	6	12	4	6	67	63	25	2	20
Persons reported by manufacturing establishments, total ²	948	114	1, 267	366	213	1, 694	3, 784	10, 947	579	116	1, 744
Salaried officers of corporations ³	24	6	14	17	15	32	110	187	22	6	60
Manufacturing:											
Salaried employees ²	131	10	200	26	47	233	483	1, 277	43	11	148
Wage earners (average for the year) ³	771	90	801	302	147	1, 254	2, 901	8, 985	434	83	1, 300
Distribution.....	21	5	162	20	1	169	210	411	79	14	221
Construction.....	1	-----	-----	-----	-----	2	60	17	-----	2	6
Other.....	-----	3	-----	1	3	4	30	70	1	-----	9
Salaries and wages ⁴	\$1, 247, 582	\$101, 954	\$1, 835, 621	\$426, 356	\$283, 455	\$2, 826, 425	\$5, 652, 597	\$18, 452, 732	\$838, 317	\$148, 892	\$2, 700, 278
Salaried officers ³	139, 433	9, 500	100, 360	60, 177	37, 744	198, 665	612, 372	1, 436, 130	77, 217	32, 300	848, 165
Manufacturing:											
Salaries ³	213, 209	12, 572	289, 209	37, 808	64, 979	480, 002	770, 908	2, 636, 786	76, 212	17, 556	286, 518
Wages.....	867, 258	71, 303	1, 025, 680	291, 668	178, 566	1, 744, 920	3, 661, 897	12, 959, 775	680, 059	84, 729	1, 693, 733
Distribution.....	26, 882	7, 749	360, 372	36, 027	290	393, 965	443, 984	1, 281, 131	103, 629	13, 827	301, 269
Construction.....	800	-----	-----	-----	-----	6, 670	122, 024	35, 823	-----	480	10, 872
Other.....	-----	830	-----	670	1, 876	3, 203	41, 412	103, 087	1, 300	-----	9, 721
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	1, 792, 550	82, 930	2, 192, 045	343, 549	248, 048	2, 564, 479	5, 200, 310	20, 117, 344	744, 616	224, 932	3, 729, 218
Materials and supplies.....	1, 626, 856	75, 584	2, 094, 291	319, 667	227, 136	2, 402, 953	4, 725, 740	18, 951, 255	684, 791	217, 510	3, 618, 711
Fuel.....	44, 878	2, 561	69, 072	7, 940	11, 851	85, 845	165, 718	414, 534	20, 789	2, 934	35, 769
Purchased electric energy.....	30, 590	4, 785	25, 178	11, 342	8, 965	72, 946	239, 531	641, 825	38, 570	4, 488	68, 777
Contract work.....	226	-----	3, 504	4, 600	198	2, 735	69, 315	109, 730	466	-----	7, 964
Value of products.....	3, 842, 501	273, 354	6, 671, 511	1, 063, 214	615, 729	5, 576, 832	14, 009, 261	50, 803, 932	2, 324, 605	444, 917	9, 284, 056
Value added by manufacture ⁴	2, 139, 951	190, 424	4, 479, 466	710, 665	367, 631	3, 012, 353	8, 808, 941	30, 686, 588	1, 579, 989	219, 985	5, 554, 838

See footnotes at end of table.

INDUSTRIAL MACHINERY; MACHINE-SHOP PRODUCTS

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TABLE 2.—MACHINE-SHOP PRODUCTS, NOT ELSEWHERE CLASSIFIED—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Montana	Nebraska	New Hampshire	New Jersey	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania
Number of establishments ¹	3	13	6	99	249	22	3	185	27	31	210
Proprietors and firm members.....		12	5	44	136	17	3	61	22	18	131
Persons reported by manufacturing establishments, total ²	96	115	56	3,168	6,208	477	10	9,473	234	504	12,163
Salaried officers of corporations ³	7	6	2	121	260	18		243	13	28	234
Manufacturing:											
Salaried employees ³	12	13	6	406	823	58		1,240	40	52	1,791
Wage earners (average for the year) ³	68	67	48	2,121	4,838	346	8	7,342	162	406	9,012
Distribution.....	7	25		337	244	52	2	664	10	18	912
Construction.....				28	17			9			115
Other.....	2	4		95	26			76			99
Salaries and wages, total ³	\$134,288	\$158,796	\$60,091	\$5,040,225	\$9,614,300	\$589,971	\$9,059	\$16,068,148	\$340,048	\$831,300	\$18,154,518
Salaried officers ³	19,350	14,934	6,500	789,835	1,328,538	102,299		1,522,639	42,507	74,536	1,420,240
Manufacturing:											
Salaries ³	17,997	11,845	6,720	890,341	1,523,394	95,392		2,304,289	55,607	99,982	3,192,388
Wages.....	82,822	84,882	55,865	2,081,596	6,268,155	351,154	6,586	11,637,050	198,080	617,088	11,074,506
Distribution.....	13,579	45,326		750,658	449,720	38,482	2,473	1,321,149	54,854	30,004	2,148,107
Construction.....				20,602	21,911			13,531			112,210
Other.....	540	1,800		108,193	22,576	2,644		169,490			198,067
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	112,901	239,134	49,210	6,258,309	10,087,728	490,197	7,934	17,213,783	271,053	957,124	16,354,967
Materials and supplies.....	105,092	232,550	43,283	5,980,201	10,010,935	474,122	5,981	16,054,320	264,201	916,044	14,654,322
Fuel.....	3,519	2,840	2,958	91,396	323,977	9,046	1,460	370,626	6,078	10,739	507,046
Purchased electric energy.....	4,290	3,723	2,060	140,915	288,862	13,020	493	514,929	10,624	29,741	483,611
Contract work.....		21		45,797	63,954			273,908	150	600	700,988
Value of products.....	286,280	512,944	207,449	15,547,720	27,393,190	1,407,742	16,775	46,784,803	951,239	2,315,778	46,495,901
Value added by manufacture ⁴	173,379	273,810	168,239	9,289,411	16,705,462	911,545	8,841	20,571,020	680,186	1,368,654	30,140,934

ITEM	Rhode Island	South Carolina	Tennessee	Texas	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming	Other States ⁵
Number of establishments ¹	13	6	10	62	3	10	44	6	69	4	14
Proprietors and firm members.....	2	4	6	49	2	2	34		28	2	10
Persons reported by manufacturing establishments, total ²	956	123	471	864	16	190	481	364	2,428	40	343
Salaried officers of corporations ³	14	5	7	36	1	16	29	7	79	6	12
Manufacturing:											
Salaried employees ³	40	8	40	92	3	25	67	59	290	4	35
Wage earners (average for the year) ³	807	106	349	678	12	142	352	296	1,859	26	275
Distribution.....	93	4	75	50		7	20	2	199	4	17
Construction.....				8			4		1		2
Other.....	2			2							2
Salaries and wages, total ³	\$934,580	\$111,079	\$590,237	\$1,237,491	\$15,904	\$232,311	\$703,541	\$529,488	\$4,071,833	\$87,352	\$802,802
Salaried officers ³	46,720	4,420	34,492	155,031	260	46,405	74,320	58,001	438,547	23,716	149,088
Manufacturing:											
Salaries ³	116,723	20,902	74,451	159,497	3,365	40,505	100,626	103,042	636,005	17,991	97,538
Wages.....	621,485	79,817	378,707	790,313	12,270	140,260	487,111	365,045	2,525,543	32,443	538,330
Distribution.....	147,208	5,940	102,587	126,246		5,141	39,750	1,800	469,738	13,202	43,310
Construction.....				4,946			1,710		2,000		2,596
Other.....	2,444			1,458							2,000
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	1,188,402	134,694	632,205	1,324,457	10,774	254,003	886,951	1,130,390	4,746,840	62,571	790,895
Materials and supplies.....	1,104,278	128,092	593,992	1,232,338	9,229	245,566	851,186	1,099,077	4,533,900	59,739	766,062
Fuel.....	33,395	3,457	17,400	27,291	717	4,033	7,898	8,917	100,799	693	8,865
Purchased electric energy.....	49,777	3,145	14,155	38,286	688	5,014	26,403	22,396	95,559	2,139	16,908
Contract work.....	1,042		6,598	26,542	240		1,404		16,522		
Value of products.....	2,880,611	308,166	1,464,636	3,450,334	46,289	695,286	1,891,182	1,767,678	10,822,821	188,135	2,240,708
Value added by manufacture ⁴	1,692,119	173,472	832,431	2,125,877	35,615	440,683	1,004,231	637,288	6,075,981	125,564	1,440,968

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Arkansas, 4 establishments; Delaware, 2; District of Columbia, 2; Nevada, 2; South Dakota, 1; Utah, 3.

CENSUS OF MANUFACTURES: 1939

TABLE 3.—INDUSTRIAL MACHINERY, NOT ELSEWHERE CLASSIFIED—GENERAL STATISTICS IN DETAIL BY STATES: 1939

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

ITEM	United States	California	Connecticut	Georgia	Illinois	Indiana	Iowa	Kentucky	Massachusetts	Michigan	Minnesota	Missouri
Number of establishments ¹	579	44	12	9	55	18	9	3	36	24	15	13
Proprietors and firm members.....	195	27	5	0	23	6	9	-----	13	5	7	2
Persons reported by manufacturing establishments, total ²	30,303	1,628	257	205	2,090	810	177	147	1,064	1,804	448	313
Salaried officers of corporations ²	860	35	21	11	84	22	7	7	48	40	22	23
Manufacturing:												
Salaried employees ²	5,002	210	36	18	476	110	22	40	280	321	27	28
Wage earners (average for the year) ³	21,936	1,114	181	158	1,815	532	140	94	1,454	1,255	280	234
Distribution.....	2,211	135	17	18	291	146	8	6	150	162	115	27
Construction.....	157	31	-----	-----	10	-----	-----	-----	11	11	-----	-----
Other.....	137	8	2	-----	14	-----	-----	-----	12	9	4	1
Salaries and wages, total ¹	\$51,694,364	\$2,906,815	\$431,497	\$295,130	\$5,222,870	\$1,222,047	\$248,744	\$293,326	\$3,476,021	\$3,204,221	\$741,656	\$517,105
Salaried officers ²	5,262,471	235,264	125,274	50,000	584,048	144,358	24,085	68,760	373,658	403,304	95,010	141,649
Manufacturing:												
Salaries ²	9,813,972	511,223	55,224	24,337	914,983	159,025	52,374	71,412	615,600	650,452	51,226	54,409
Wages.....	31,178,421	1,744,439	218,693	176,855	2,955,940	561,763	161,816	132,741	2,025,210	1,866,526	363,014	279,370
Distribution.....	4,916,370	346,282	30,224	34,029	734,419	356,901	10,969	20,913	424,173	342,289	227,088	41,037
Construction.....	250,811	60,068	-----	-----	17,181	-----	-----	-----	24,524	18,392	-----	-----
Other.....	172,319	3,539	2,082	-----	15,369	-----	-----	-----	12,796	7,258	5,318	640
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	52,964,472	3,408,381	384,495	256,791	5,573,271	1,402,476	284,983	244,989	2,243,293	2,547,800	745,369	551,217
Materials and supplies.....	49,918,956	3,267,742	367,115	245,587	5,250,500	1,331,506	269,486	234,392	2,105,466	2,356,108	712,436	535,887
Fuel.....	992,201	14,390	7,673	4,068	80,308	15,090	6,510	2,906	40,879	29,382	15,415	5,451
Purchased electric energy.....	1,358,719	58,513	8,396	7,136	142,922	28,321	8,577	5,431	76,418	62,175	15,049	9,062
Contract work.....	694,596	67,736	1,311	-----	99,541	27,469	410	2,260	11,530	100,135	2,469	217
Value of products.....	140,628,049	7,169,531	1,140,300	701,667	14,081,363	3,358,610	836,151	828,336	8,036,482	8,458,598	1,827,418	1,607,470
Value added by manufacture ⁴	87,663,577	3,761,150	764,895	444,876	8,508,092	1,956,134	551,168	583,347	5,793,189	5,910,798	1,082,049	1,050,262

ITEM	New Jersey	New York	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	Texas	Virginia	Washington	West Virginia	Wisconsin	Other States ⁵
Number of establishments ¹	38	85	56	6	7	61	6	10	10	6	4	23	29
Proprietors and firm members.....	14	23	14	3	1	11	3	3	1	1	4	2	12
Persons reported by manufacturing establishments, total ²	4,542	3,805	3,113	50	141	3,910	84	206	228	419	18	653	2,789
Salaried officers of corporations ²	48	135	102	2	12	99	8	16	16	8	-----	44	44
Manufacturing:													
Salaried employees ²	902	795	473	10	14	097	11	25	46	39	3	104	306
Wage earners (average for the year) ³	3,390	2,719	2,267	38	100	2,724	65	153	152	344	12	467	2,240
Distribution.....	160	136	202	-----	7	372	-----	12	8	22	-----	31	126
Construction.....	33	12	5	-----	-----	13	-----	-----	4	6	-----	-----	18
Other.....	9	8	4	-----	2	5	-----	-----	2	-----	-----	7	56
Salaries and wages, total ¹	\$7,505,825	\$6,394,240	\$5,409,822	\$66,143	\$246,728	\$6,217,563	\$133,465	\$296,136	\$419,425	\$717,900	\$20,329	\$1,102,445	\$4,414,411
Salaried officers ²	309,629	715,253	667,394	5,638	38,180	505,879	26,507	60,506	92,783	42,472	-----	253,935	298,976
Manufacturing:													
Salaries ²	1,849,141	1,538,473	968,856	17,011	30,380	1,252,605	14,889	41,101	107,672	85,653	2,869	184,120	554,977
Wages.....	4,963,086	3,780,212	3,274,669	48,494	159,828	3,696,542	92,069	172,150	193,533	536,683	12,978	605,264	3,162,140
Distribution.....	318,402	342,076	495,934	-----	10,875	736,197	-----	22,373	21,842	49,795	-----	47,519	290,133
Construction.....	54,170	7,101	8,480	-----	-----	20,140	-----	-----	2,675	3,297	4,482	-----	24,301
Other.....	11,367	11,125	4,689	-----	1,465	6,200	-----	-----	1,020	-----	-----	11,607	77,884
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	7,514,617	6,540,424	7,191,298	65,228	315,342	7,007,253	39,135	438,873	502,005	683,554	17,650	1,295,469	3,710,559
Materials and supplies.....	6,908,373	6,244,058	6,920,565	62,581	302,187	6,828,250	30,332	420,593	487,344	625,536	16,042	1,171,340	3,425,134
Fuel.....	260,077	113,437	113,932	713	6,283	130,376	2,230	885	3,694	22,867	664	16,765	89,216
Purchased electric energy.....	328,033	128,179	128,205	1,834	6,872	144,345	3,373	8,839	7,647	22,691	954	27,823	129,824
Contract work.....	18,134	54,750	30,296	100	-----	104,282	3,200	8,556	3,350	12,460	-----	80,005	65,385
Value of products.....	23,185,379	18,051,264	15,815,472	181,419	684,908	17,604,705	231,435	909,680	1,292,239	1,767,322	54,360	3,068,516	9,726,319
Value added by manufacture ⁴	15,670,762	11,510,840	8,624,174	116,191	369,566	10,597,452	192,300	470,807	790,234	1,083,768	36,716	1,773,047	6,015,760

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Alabama, 2 establishments; Colorado, 3; Delaware, 2; Florida, 1; Kansas, 1; Louisiana, 2; Maine, 1; Maryland, 7; Nebraska, 1; North Carolina, 2; South Carolina, 1; Tennessee, 3; Utah, 2; Vermont, 1.

INDUSTRIAL MACHINERY; MACHINE-SHOP PRODUCTS

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TABLE 4.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
"Industrial machinery, not elsewhere classified" and "Machine-shop products not elsewhere classified" industries, all products, total value.....	\$500,982,278	\$629,476,526
Industrial machinery and machine-shop products made in these industries.....	403,104,596	493,881,126
Miscellaneous products not specified.....	759,881	95,212,517
Other products not classified in these industries.....	165,878,705	40,382,883
Receipts for contract and repair work.....	30,064,434	(?)
Merchandise sold without processing.....	1,064,632	
Industrial machinery for general use, parts, and attachments, and machine-shop products, not elsewhere classified, aggregate value.....	473,080,154	584,439,783
Industrial machinery and machine-shop products made in these industries.....	403,104,596	493,881,126
Industrial machinery and machine-shop products made as secondary products in other industries, total.....	70,485,558	90,558,657
Made as secondary products in industries within the Machinery (Except Electrical) group.....	43,653,487	
Made as secondary products in industries outside of the Machinery (Except Electrical) group.....	26,832,071	(?)

¹ Chiefly air compressors, blowers, engines, ball and roller bearings, metal-working machinery, mining machinery, stokers, transmission machinery, steam specialties, and castings.

² No comparable figures for 1937.

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

	1939				1937
	Produced in the industry	Produced in other industries in the Machinery (Except Electrical) group	Produced in industries outside the Machinery (Except Electrical) group	Aggregate	
Total value.....	\$403,104,596	\$43,653,487	\$26,832,071	\$473,680,154	\$584,439,783
Cement and concrete machinery (not including cement-making machinery or concrete mixers) ¹ :					
Cement and concrete-block machines—					
Reported by number—	881	746		1,627	1,021
Number.....	881	746		1,627	1,021
Value.....	\$643,193	\$448,813		\$1,092,006	\$767,641
Not reported by number, value.....					\$26,304
Other cement and concrete machinery.....	\$493,092	\$153,082		\$647,064	\$3,259,459
Dish-washing machines:					
Reported by number—					
Number.....	3,273	2,496	6,470	12,239	14,258
Value.....	\$566,120	\$1,007,438	\$780,453	\$2,353,011	\$2,547,030
Not reported by number, value.....	\$207,440		\$11,575	\$279,015	\$294,982
Foundry machinery:					
Molding machines—					
Reported by number—					
Number.....	1,613			1,613	2,385
Value.....	\$1,213,521			\$1,213,521	\$1,708,449
Not reported by number, value.....	\$163,866	\$101,440	\$58,205	\$323,520	\$1,253,234
Tumbling and burnishing barrels.....	\$120,251	\$87,800	\$25,202	\$242,253	\$448,613
Other foundry machinery and equipment, including sand-blast machines.....	\$4,128,308	\$350,553	\$545,694	\$5,024,555	\$5,655,791
Oil-mill machinery.....	\$2,550,816	\$321,719	\$57,092	\$2,930,527	\$4,677,010
Oil-refinery machinery.....	\$11,905,128	\$68,042	\$4,385,452	\$16,359,522	\$14,815,528
Packaging and wrapping machines, other than food-wrapping.....	\$6,128,521	\$478,017	\$48,048	\$6,654,586	\$6,910,359
Portable tools, pneumatic (mining and contractors' drills, tampers, etc.):					
Reported by number—					
Number.....	2,918	2,938		5,856	
Value.....	\$563,270	\$449,410		\$1,012,680	\$3,561,862
Not reported by number, value.....	\$12,434	\$359,116	\$186,423	\$557,973	
Presses (other than metal-working or hay presses).....	\$4,710,436	\$908,408	\$11,152	\$5,629,996	\$10,345,978
Pulverizers for minerals and earths:					
Reported by number—					
Number.....	556	68		624	631
Value.....	\$1,320,521	\$25,050		\$1,345,571	\$2,470,652
Not reported by number, value.....	\$36,369	\$286,743		\$323,112	\$788,761
Pulverizers for pulverized-fuel installations:					
Reported by number—					
Number.....	131	111	42	284	301
Value.....	\$758,980	\$1,018,941	\$623,484	\$2,401,405	\$2,226,949
Not reported by number, value.....	\$11,040	\$19,499	\$346,816	\$377,355	\$480,722
Tobacco-manufacturers' machinery (including cigar and cigarette).....	\$1,219,918	\$2,070,582	\$46,845	\$3,337,345	\$3,679,150
Vacuum cleaners, industrial and commercial:					
Portable—					
Number.....	325	722		1,047	
Value.....	\$41,746	\$368,707		\$410,453	(?)
Other—					
Number.....	547	119		666	
Value.....	\$130,625	\$374,666		\$505,291	
Carpet sweepers:					
Reported by number—					
Number.....	1,094,672			1,094,672	962,295
Value.....	\$2,639,841			\$2,639,841	\$2,414,053
Not reported by number, value.....			\$201,082	\$201,082	\$510,978
Well-drilling machinery (excluding oil-well).....	\$1,156,786	\$361,776		\$1,518,562	\$3,333,873
Other machinery and machinery not reported by kind.....	\$51,815,945	\$14,397,820	\$1,179,416	\$67,393,181	\$93,933,864

See footnotes at end of table.

MACHINE-SHOP REPAIRS

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

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

No detailed production statistics were collected for this industry, therefore, no figures are available for tables 3 and 4.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	9,176	8,875	8,912	9,070	9,097	9,005	9,145	9,201	9,262	9,308	9,320	9,449	9,378
1937.....	8,412	8,038	8,251	8,473	8,560	8,624	8,550	8,616	8,698	8,452	8,391	8,193	8,083
Alabama.....	110	101	101	103	101	105	114	116	116	115	115	114	116
Arizona.....	22	19	20	21	22	23	25	20	22	24	19	21	24
Arkansas.....	134	131	134	137	134	132	141	137	131	129	133	135	136
California.....	745	682	689	707	796	777	744	822	771	748	710	741	745
Colorado.....	76	65	94	86	96	93	71	69	70	69	70	69	68
Connecticut.....	47	43	42	42	47	46	44	47	47	52	51	52	51
Delaware.....	8	9	8	8	9	11	9	8	8	9	9	7	7
District of Columbia.....	33	32	31	30	31	31	33	36	38	35	34	34	34
Florida.....	203	205	207	204	201	198	201	198	200	205	212	201	204
Georgia.....	126	127	128	127	126	126	127	124	133	125	124	124	127
Idaho.....	23	23	23	23	23	23	23	23	23	23	23	23	23
Illinois.....	475	468	463	474	468	459	459	469	479	469	462	509	491
Indiana.....	144	146	149	145	141	141	140	141	146	140	145	150	150
Iowa.....	82	81	81	80	79	80	88	82	84	80	86	84	87
Kansas.....	128	119	121	120	130	132	133	129	132	127	128	132	129
Kentucky.....	124	125	123	126	118	123	124	124	124	124	127	125	123
Louisiana.....	311	305	297	340	314	296	294	311	302	320	317	343	295
Maine.....	34	32	34	32	34	32	33	33	34	35	37	38	34
Maryland.....	152	135	140	157	146	158	148	151	165	157	151	162	164
Massachusetts.....	180	164	161	169	165	180	171	178	193	193	201	200	198
Michigan.....	386	347	380	408	393	398	371	377	380	380	399	404	421
Minnesota.....	112	118	112	110	111	110	113	112	115	115	105	111	112
Mississippi.....	145	140	139	139	145	144	148	152	154	149	141	142	142
Missouri.....	323	299	302	307	312	312	317	224	331	340	339	346	348
Montana.....	32	31	31	32	32	32	33	33	31	31	31	31	31
Nebraska.....	49	48	48	45	49	50	49	48	51	50	51	50	49
New Hampshire.....	12	14	12	13	12	12	12	11	11	11	12	12	11
New Jersey.....	194	196	190	190	198	199	198	186	195	192	201	196	189
New Mexico.....	30	29	27	26	29	28	33	32	33	30	32	33	32
New York.....	1,130	1,124	1,113	1,137	1,117	1,114	1,127	1,112	1,104	1,106	1,164	1,172	1,172
North Carolina.....	284	262	265	274	275	293	278	284	286	298	291	302	294
Ohio.....	460	450	453	449	439	435	445	446	472	462	467	509	508
Oklahoma.....	198	196	194	195	197	199	199	200	199	200	198	199	205
Oregon.....	151	164	163	154	148	149	150	144	150	155	149	144	140
Pennsylvania.....	658	666	665	662	663	663	658	650	641	641	654	664	668
Rhode Island.....	28	26	25	27	28	28	28	29	28	30	30	31	31
South Carolina.....	61	57	60	59	60	65	62	65	64	61	60	60	62
Tennessee.....	225	215	212	211	218	220	238	240	243	230	225	220	217
Texas.....	765	768	780	775	751	772	803	772	748	759	769	768	747
Utah.....	9	8	8	8	9	8	9	9	9	9	9	9	9
Virginia.....	233	225	222	224	229	226	243	233	232	239	242	240	245
Washington.....	253	245	234	259	245	243	252	253	251	257	245	261	256
West Virginia.....	131	127	131	126	128	124	128	129	132	135	140	135	140
Wisconsin.....	121	109	101	100	108	109	111	113	156	167	124	129	134

INDUSTRIAL MACHINERY; MACHINE-SHOP PRODUCTS

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
TOTAL FOR THE INDUSTRIES													
United States:													
1939.....	82,653	70,133	77,582	78,788	79,341	80,140	80,734	80,062	81,971	83,081	87,815	91,385	93,304
1937.....	104,337	97,378	100,884	104,130	106,352	108,583	110,334	109,211	108,245	107,542	105,026	99,658	94,801
MACHINE-SHOP PRODUCTS, NOT ELSEWHERE CLASSIFIED													
United States:													
1939.....	60,717	56,128	57,368	58,419	58,605	58,948	58,980	58,057	59,821	61,202	64,252	67,000	68,805
Alabama.....	402	375	375	389	384	393	336	381	416	434	430	460	475
Arizona.....	52	34	35	36	75	82	100	73	57	35	36	32	28
California.....	2,661	2,408	2,508	2,591	2,611	2,583	2,592	2,569	2,615	2,633	2,807	2,974	2,958
Colorado.....	102	91	96	93	96	99	106	113	115	102	108	104	107
Connecticut.....	1,257	1,192	1,172	1,180	1,191	1,183	1,166	1,184	1,213	1,261	1,399	1,446	1,498
Florida.....	99	94	103	111	103	105	99	98	94	93	87	96	102
Georgia.....	485	455	487	487	478	518	486	470	457	476	482	494	534
Idaho.....	50	44	44	45	46	47	49	44	48	49	54	57	69
Illinois.....	5,078	5,063	5,385	5,554	5,513	5,527	5,622	5,619	5,809	6,155	6,256	5,720	5,846
Indiana.....	3,456	3,092	3,130	3,185	3,223	3,321	3,459	3,447	3,498	3,600	3,746	3,854	3,903
Iowa.....	771	718	811	865	840	710	696	685	727	813	828	701	765
Kansas.....	90	74	71	74	91	89	88	98	94	98	99	102	99
Kentucky.....	891	853	825	858	868	872	939	914	826	843	920	963	1,014
Louisiana.....	302	389	286	264	311	316	308	280	289	328	277	293	305
Maine.....	147	109	100	105	113	109	108	122	123	154	201	231	287
Maryland.....	1,254	1,054	1,187	1,240	1,261	1,306	1,334	1,362	1,336	1,296	1,225	1,185	1,257
Massachusetts.....	2,901	2,836	2,817	2,840	2,767	2,819	2,781	2,827	2,853	2,864	3,006	3,179	3,224
Michigan.....	8,985	8,582	8,912	9,047	8,948	8,835	8,420	8,324	8,488	8,900	9,321	9,841	10,190
Minnesota.....	434	403	431	441	451	465	456	453	442	404	403	412	443
Mississippi.....	83	78	81	79	79	77	85	81	82	89	83	90	96
Missouri.....	1,300	1,081	1,148	1,197	1,285	1,314	1,330	1,347	1,357	1,322	1,383	1,357	1,473
Montana.....	68	68	56	61	67	69	90	73	67	63	69	68	63
Nebraska.....	67	59	63	64	78	76	98	68	66	61	65	55	56
New Hampshire.....	48	45	46	46	47	49	49	47	50	48	50	50	52
New Jersey.....	2,121	1,970	2,032	2,046	2,121	2,206	2,058	1,925	1,987	1,998	2,277	2,359	2,472
New York.....	4,838	4,355	4,409	4,520	4,604	4,577	4,598	4,092	4,801	4,739	5,216	5,721	5,818
North Carolina.....	346	327	338	329	337	356	348	349	317	342	363	383	367
North Dakota.....	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio.....	7,342	6,341	6,525	6,733	6,776	7,018	7,208	7,190	7,207	7,522	8,185	8,587	8,817
Oklahoma.....	162	166	166	176	170	161	198	164	165	155	168	147	161
Oregon.....	406	363	383	386	410	385	414	408	395	389	388	458	600
Pennsylvania.....	9,012	8,699	8,693	8,663	8,533	8,512	8,014	8,674	8,879	9,008	9,134	10,229	10,541
Rhode Island.....	807	759	761	788	804	785	791	837	810	793	829	882	847
South Carolina.....	108	116	113	110	110	110	107	99	100	104	101	102	101
Tennessee.....	349	329	338	334	335	336	338	344	356	377	392	381	330
Texas.....	676	657	690	659	669	690	693	698	651	646	685	741	753
Vermont.....	12	12	12	12	12	12	12	12	12	13	13	13	13
Virginia.....	142	125	134	139	134	139	130	131	137	145	164	164	163
Washington.....	352	395	372	354	370	363	345	343	340	344	334	310	339
West Virginia.....	296	231	242	237	216	232	267	283	295	300	412	418	413
Wisconsin.....	1,859	1,703	1,795	1,790	1,839	1,860	1,816	1,856	1,879	1,877	1,920	1,907	2,025
Wyoming.....	26	27	20	20	22	20	32	29	29	27	25	28	24
INDUSTRIAL MACHINERY, NOT ELSEWHERE CLASSIFIED													
United States:													
1939.....	21,936	20,005	20,214	20,369	20,676	21,192	21,754	22,005	22,150	22,479	23,563	24,325	24,490
California.....	1,114	888	874	881	893	943	1,164	1,415	1,334	1,296	1,289	1,176	1,161
Colorado.....	584	567	576	562	552	551	645	551	503	603	646	658	635
Connecticut.....	181	173	180	165	164	172	176	181	174	196	191	196	199
Georgia.....	158	145	143	145	146	148	156	156	193	177	176	176	175
Illinois.....	1,815	1,727	1,755	1,730	1,731	1,740	1,778	1,807	1,865	1,879	1,986	2,014	1,750
Indiana.....	532	489	495	507	511	510	519	538	539	544	531	590	617
Iowa.....	140	140	137	124	122	138	146	147	145	140	150	147	147
Kentucky.....	94	97	94	83	84	89	88	90	91	98	103	106	113
Maryland.....	420	369	361	392	393	393	396	391	404	404	402	532	509
Massachusetts.....	1,464	1,389	1,391	1,422	1,437	1,457	1,421	1,417	1,376	1,460	1,520	1,567	1,597
Michigan.....	1,255	1,087	1,057	1,131	1,177	1,189	1,262	1,259	1,318	1,316	1,400	1,426	1,444
Minnesota.....	280	226	253	264	276	287	301	280	287	287	293	290	320
Missouri.....	234	221	215	215	224	238	239	233	241	240	237	253	257
New Jersey.....	3,390	3,255	3,275	3,308	3,342	3,351	3,365	3,379	3,345	3,416	3,503	3,560	3,585
New York.....	2,719	2,438	2,476	2,446	2,537	2,620	2,691	2,693	2,693	2,755	2,945	3,137	3,230
Ohio.....	2,267	2,068	2,125	2,138	2,113	2,177	2,216	2,214	2,210	2,305	2,439	2,550	2,643
Oklahoma.....	38	37	37	38	38	37	37	38	38	38	39	37	36
Oregon.....	106	97	94	97	99	106	109	102	106	111	117	123	116
Pennsylvania.....	2,724	2,532	2,554	2,606	2,582	2,701	2,733	2,730	2,780	2,726	2,805	2,938	3,055
Rhode Island.....	65	50	52	65	65	77	71	67	51	58	74	77	80
Tennessee.....	16	16	17	16	15	15	15	15	15	15	17	17	16
Texas.....	153	156	166	169	165	145	148	147	153	156	143	141	147
Virginia.....	152	128	129	137	150	163	186	182	159	153	147	143	142
Washington.....	344	349	350	316	375	363	365	331	334	315	338	347	347
West Virginia.....	12	11	11	11	11	11	12	12	14	12	15	15	12
Wisconsin.....	467	426	444	429	455	458	452	449	482	497	505	497	514

TABLE 8.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL: 1939

[This table covers consumption in establishments with foundry equipment]

	Tons (2,240 pounds)	Cost
MACHINE-SHOP PRODUCTS, NOT ELSEWHERE CLASSIFIED		
Pig iron.....	82,727	\$2,085,067
Scrap iron and steel, purchased as such.....	80,913	1,224,766
INDUSTRIAL MACHINERY, NOT ELSEWHERE CLASSIFIED		
Pig iron.....	21,448	500,616
Scrap iron and steel, purchased as such.....	25,591	461,260

TABLE 9.—EXPENDITURES FOR PLANT AND EQUIPMENT FOR THE INDUSTRIES: 1939

	Machine-shop products, not elsewhere classified	Industrial machinery, not elsewhere classified
Number of establishments:		
Total for the industry.....	2,125	570
Reporting expenditures for plant and equipment.....	1,141	332
Value of products:		
Total for the industry.....	\$360,334,229	\$140,628,049
Reporting expenditures for plant and equipment.....	209,703,950	122,583,537
Expenditures for plant and equipment:		
Total for the industry.....	9,805,994	3,286,050
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	1,671,041	501,873
Expenditures for new machinery and operating equipment.....	7,358,502	2,487,349
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	771,743	190,039
Expenditures unclassified.....	4,708	10,789

TABLE 10.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939			1937
	Machine-shop products, not elsewhere classified	Industrial machinery, not elsewhere classified	Total for the industries	
Inventories:				
Beginning of year, total.....	\$78,712,446	\$31,036,234	\$110,648,680	\$116,503,378
Finished products.....	34,418,530	13,188,015	47,606,545	40,308,485
Materials, supplies, etc.....	44,293,916	18,748,219	63,042,135	67,284,893
End of year, total.....	86,080,260	36,995,745	123,076,005	141,374,203
Finished products.....	34,800,281	13,051,973	47,852,254	61,410,294
Materials, supplies, etc.....	52,179,979	23,943,772	76,123,751	79,954,909
Value of products for the industry, total.....	360,334,229	140,628,049	500,962,278	629,476,526
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	356,035,307	140,179,131	497,114,438	611,218,277
Value for establishments not reporting inventories.....	3,308,922	448,918	3,847,840	18,258,249

TABLE 11.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY, FOR THE INDUSTRIES: 1939¹

	Machine-shop products, not elsewhere classified	Industrial machinery, not elsewhere classified
Number of establishments.....		
	2,125	570
Number of establishments reporting power equipment.....		
	2,115	578
Prime movers, aggregate:		
Number.....	420	111
Horsepower.....	30,817	13,395
Prime movers, driving generators, total—		
Number.....	105	41
Horsepower.....	20,313	8,531
Steam engines—		
Number.....	40	23
Horsepower.....	9,105	7,000
Steam turbines—		
Number.....	5	2
Horsepower.....	7,000	350
Diesel and semi-Diesel engines—		
Number.....	29	5
Horsepower.....	2,505	830
Other internal-combustion engines²—		
Number.....	24	7
Horsepower.....	1,039	221
Hydroturbines and water wheels—		
Number.....	7	4
Horsepower.....	664	130
Prime movers, driving generators, ordinarily idle (included above), horsepower.....		
	5,043	2,481
Prime movers not driving generators, total—		
Number.....	315	70
Horsepower.....	10,504	4,864
Steam engines—		
Number.....	178	47
Horsepower.....	6,180	3,236
Steam turbines—		
Number.....	5	11
Horsepower.....	255	950
Diesel and semi-Diesel engines—		
Number.....	17	1
Horsepower.....	865	20
Other internal-combustion engines²—		
Number.....	107	10
Horsepower.....	2,086	618
Hydroturbines and water wheels—		
Number.....	8	1
Horsepower.....	412	40
Prime movers not driving generators, ordinarily idle (included above), horsepower.....		
	602	1,250
Generators, kilowatt rating, total.....		
	14,134	5,953
Generators, driven by—		
Steam engines, kilowatt rating.....	6,436	4,765
Steam turbines, kilowatt rating.....	4,875	350
Diesel and semi-Diesel engines, kilowatt rating.....	1,602	585
Other internal-combustion engines, ² kilowatt rating.....	711	147
Hydroturbines and water wheels, kilowatt rating.....	510	106
Generators, ordinarily idle (included above), kilowatt rating.....		
	3,974	1,820
Electric motors, total:		
Number.....	58,428	10,132
Horsepower.....	320,540	156,824
Driven by purchased energy—		
Number.....	52,795	17,580
Horsepower.....	289,591	142,724
Driven by energy generated in establishments reporting—		
Number.....	5,631	1,552
Horsepower.....	39,949	14,100
Electric energy (kilowatt-hours):		
Generated in plant.....	16,026,594	6,595,884
Sold.....	894,114	41,761
Purchased.....	208,596,040	81,318,027

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

MACHINE-SHOP REPAIRS

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

Description of the industry.—This industry represents that group of machine shops engaged in the repairing and reconditioning of all types and kinds of industrial, commercial, and domestic machinery and equipment. This does not include motor-vehicle repairing done at garages or service stations.

These establishments have formerly been assigned to the "Machine-shop products" industry, but were given a separate industry classification at the census for 1939. The 1937 figures given in this report were published in the report for that year as "Machine-shops engaged in custom and repair work" under the "Machine-shop products" industry.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	1,459	9,176	\$12,273,448	\$10,997,646	\$38,166,267	\$27,168,621	6,910
1937 ⁴	1,128	8,412	11,751,213	11,900,140	36,244,175	24,844,035	(5)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ Data not available for years prior to 1937.

⁵ Not called for on schedule.

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

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

ITEM	United States	Alabama	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	District of Columbia	Florida	Georgia
Number of establishments ¹	1,459	25	4	20	135	18	12	3	7	27	23
Proprietors and firm members.....	1,455	21	5	19	158	22	11	2	6	26	27
Persons reported by manufacturing establishments, total ²	10,928	146	23	166	849	91	65	11	41	243	145
Salaried officers of corporations ²	512	12	—	11	11	6	10	1	5	14	8
Manufacturing:											
Salaried employees ²	962	20	1	9	71	9	7	2	3	22	15
Wage earners (average for the year) ³	9,176	110	22	134	745	76	47	8	33	203	126
Distribution.....	238	4	—	2	19	—	1	—	—	4	1
Construction.....	3	—	—	—	—	—	—	—	—	—	—
Other.....	37	—	—	—	3	—	—	—	—	—	—
Salaries and wages, total ²	\$15,568,342	\$182,305	\$26,756	\$207,455	\$1,343,560	\$113,211	\$96,939	\$14,143	\$68,161	\$294,312	\$172,406
Salaried officers ²	1,410,910	21,026	—	32,366	33,781	13,199	18,665	2,000	11,020	46,569	5,800
Manufacturing:											
Salaries ²	1,468,709	18,018	1,000	13,438	102,705	13,288	9,770	2,702	4,414	26,497	18,832
Wages.....	12,273,448	139,642	25,756	158,451	1,177,558	86,724	67,537	9,446	52,727	216,797	146,973
Distribution.....	384,318	3,619	—	3,200	27,038	—	967	—	—	4,449	801
Construction.....	4,084	—	—	—	—	—	—	—	—	—	—
Other.....	20,213	—	—	—	1,868	—	—	—	—	—	—
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	10,997,646	131,881	13,447	188,661	1,010,914	96,248	58,042	11,591	48,418	245,450	145,423
Materials and supplies.....	10,071,811	120,547	12,166	174,099	932,384	84,393	53,624	10,470	46,180	229,989	133,308
Fuel.....	285,093	1,407	—	3,401	19,620	3,725	1,185	504	907	4,305	2,011
Purchased electric energy.....	579,741	9,567	1,281	11,161	45,701	6,280	3,233	617	1,331	8,650	8,160
Contract work.....	61,001	360	—	—	13,209	1,870	—	—	—	2,606	1,038
Value of products.....	38,166,267	457,709	73,061	570,294	3,865,615	325,662	226,784	39,504	180,393	759,854	461,279
Value added by manufacture ⁴	27,168,621	326,825	50,614	381,633	2,854,701	220,414	168,742	27,913	131,975	514,404	315,866
ITEM	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan
Number of establishments ¹	7	68	28	21	26	16	37	6	26	40	43
Proprietors and firm members.....	8	61	35	24	22	18	39	7	23	43	37
Persons reported by manufacturing establishments, total ²	25	563	164	96	141	146	349	38	191	220	481
Salaried officers of corporations ²	—	26	11	4	1	6	8	—	23	20	24
Manufacturing:											
Salaried employees ²	1	58	8	8	7	16	19	1	14	28	44
Wage earners (average for the year) ³	23	475	144	82	128	124	311	34	152	180	386
Distribution.....	1	7	1	2	6	—	11	3	1	1	20
Other.....	—	2	—	—	—	—	—	—	1	—	7
Salaries and wages, total ²	\$38,418	\$644,010	\$257,335	\$118,645	\$204,457	\$189,552	\$411,295	\$51,303	\$271,000	\$312,747	\$706,721
Salaried officers ²	—	63,125	26,187	8,087	1,545	12,956	28,930	—	52,905	33,182	59,007
Manufacturing:											
Salaries ²	185	96,797	10,698	8,015	13,926	24,966	29,192	1,560	18,628	30,000	78,327
Wages.....	36,433	776,493	218,890	100,178	177,529	151,630	326,382	47,199	106,300	243,265	525,334
Distribution.....	1,800	6,248	1,560	1,765	11,457	—	26,791	2,544	2,496	1,300	38,269
Other.....	—	1,347	—	—	—	—	—	—	761	—	5,784
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	24,983	437,075	132,713	86,589	103,016	99,072	357,712	24,170	209,633	236,294	362,820
Materials and supplies.....	21,353	384,319	116,413	78,692	91,584	92,567	326,991	20,889	197,329	216,535	304,984
Fuel.....	1,097	21,953	5,065	2,333	3,025	1,513	6,282	1,025	4,946	6,353	13,790
Purchased electric energy.....	2,538	26,557	10,927	5,564	7,794	4,866	24,139	2,265	6,858	12,644	33,873
Contract work.....	—	4,246	308	—	613	123	300	—	500	757	5,173
Value of products.....	94,001	1,904,664	564,017	329,346	510,839	385,812	1,284,351	116,278	627,309	842,700	1,536,205
Value added by manufacture ⁴	69,013	1,467,589	431,304	242,787	407,823	286,740	926,639	92,099	417,676	600,408	1,173,885

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

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

ITEM	Minne- sota	Missis- sippi	Missouri	Montana	Nebraska	New Hamp- shire	New Jersey	New Mexico	New York	North Carolina	Ohio	Okla- homa
Number of establishments ¹	21	22	52	7	13	3	31	8	118	35	66	42
Proprietors and firm members.....	16	23	46	7	15	4	21	7	89	37	54	46
Persons reported by manufacturing establish- ments, total ²	144	178	386	38	58	14	244	44	1,313	350	578	235
Salaried officers of corporations ²	17	10	14	3	1	-----	18	6	74	6	32	4
Manufacturing:												
Salaried employees ²	8	15	37	3	5	2	29	3	99	38	53	24
Wage earners (average for the year) ³	112	145	323	32	49	12	194	30	1,130	284	466	198
Distribution.....	5	8	8	-----	3	-----	3	4	7	22	24	8
Construction.....	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	1	-----
Other.....	2	-----	4	-----	-----	-----	-----	-----	3	-----	2	1
Salaries and wages, total ⁴	\$184,636	\$192,665	\$638,320	\$65,656	\$76,675	\$18,144	\$354,303	\$86,951	\$1,989,106	\$388,540	\$779,957	\$326,348
Salaried officers ²	39,170	20,395	51,622	14,808	3,000	-----	41,321	19,813	224,712	17,739	79,101	17,395
Manufacturing:												
Salaries ²	9,531	18,621	85,732	3,360	5,563	2,720	52,587	3,945	153,991	50,963	87,244	43,247
Wages.....	123,643	139,653	491,425	47,488	64,339	15,424	255,826	54,191	1,599,245	287,328	577,078	254,067
Distribution.....	7,321	13,996	7,127	-----	3,773	-----	4,569	7,152	8,963	32,510	34,091	10,826
Construction.....	-----	-----	-----	-----	-----	-----	-----	1,850	-----	-----	1,309	-----
Other.....	1,971	-----	2,414	-----	-----	-----	-----	-----	2,195	-----	1,044	813
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	107,514	147,033	404,940	52,999	48,122	15,776	257,291	39,271	1,222,298	479,489	476,878	191,727
Materials and supplies.....	95,340	135,364	368,069	48,076	42,904	14,584	236,549	32,502	1,152,756	462,284	416,228	165,292
Fuel.....	4,792	2,397	12,077	1,207	1,628	349	6,463	2,359	22,254	4,500	26,089	5,423
Purchased electric energy.....	7,332	8,272	20,697	3,716	3,590	843	14,241	4,360	43,350	12,647	30,615	19,255
Contract work.....	-----	-----	4,097	-----	-----	-----	38	50	3,938	58	3,946	1,757
Value of products.....	423,178	470,370	1,451,136	228,245	201,492	52,328	786,735	179,437	4,290,395	1,170,431	1,711,191	836,412
Value added by manufacture ⁴	315,664	323,337	1,046,190	175,246	153,370	36,552	529,444	140,166	3,068,097	690,942	1,234,313	644,685

ITEM	Oregon	Pennsyl- vania	Rhode Island	South Carolina	Ten- nessee	Texas	Utah	Virginia	Washing- ton	West Virginia	Wiscon- sin	Other States ⁵
Number of establishments ¹	36	77	8	10	34	142	3	27	54	13	28	8
Proprietors and firm members.....	34	88	9	11	47	166	2	27	51	7	27	7
Persons reported by manufacturing establish- ments, total ²	170	756	34	68	255	924	11	276	312	161	148	31
Salaried officers of corporations ²	6	28	2	-----	1	31	-----	17	23	9	11	3
Manufacturing:												
Salaried employees ²	13	64	3	5	20	80	2	24	27	20	12	7
Wage earners (average for the year) ³	161	658	28	61	226	765	9	233	253	131	121	21
Distribution.....	-----	4	1	2	2	43	-----	2	7	1	1	-----
Construction.....	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	-----
Other.....	-----	2	-----	-----	1	5	-----	-----	1	-----	8	-----
Salaries and wages, total ⁴	\$235,886	\$1,070,911	\$49,762	\$67,807	\$330,540	\$1,321,625	\$12,861	\$418,466	\$477,530	\$210,918	\$187,873	\$52,046
Salaried officers ²	16,140	88,964	14,120	-----	3,500	88,316	-----	67,880	67,024	18,584	26,416	14,250
Manufacturing:												
Salaries ²	15,334	110,639	4,626	5,009	34,769	127,673	2,271	38,318	42,643	23,387	14,487	9,191
Wages.....	204,412	865,007	30,236	60,472	289,028	1,008,839	10,590	308,648	357,628	172,079	143,323	28,635
Distribution.....	-----	4,623	780	2,326	2,299	93,185	-----	3,620	7,885	2,268	2,100	-----
Construction.....	-----	-----	-----	-----	-----	-----	-----	-----	1,525	-----	-----	-----
Other.....	-----	1,678	-----	-----	954	3,612	-----	-----	226	-----	1,547	-----
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	173,958	954,837	54,291	50,392	236,264	941,129	9,170	257,201	380,951	221,377	187,075	57,497
Materials and supplies.....	161,114	887,017	49,945	46,459	219,338	847,316	8,359	240,233	358,261	209,620	172,842	52,543
Fuel.....	3,488	33,623	984	409	5,564	24,071	58	3,379	5,189	2,654	4,715	1,876
Purchased electric energy.....	9,356	34,014	2,191	3,434	10,879	63,566	753	12,541	17,795	6,103	9,071	3,078
Contract work.....	-----	183	1,171	-----	483	6,176	-----	1,048	5,706	-----	447	-----
Value of products.....	605,070	2,504,660	145,413	183,023	886,204	3,584,506	30,367	884,007	1,191,458	533,423	513,321	147,788
Value added by manufacture ⁴	431,112	1,549,823	91,122	132,631	649,940	2,643,377	21,197	626,806	804,507	312,046	328,246	90,291

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Nevada, 1 establishment; North Dakota, 2; South Dakota, 2; Vermont, 1; Wyoming, 2.

MACHINE-SHOP REPAIRS

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

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

No detailed production statistics were collected for this industry, therefore, no figures are available for tables 3 and 4.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	9,176	8,875	8,912	9,070	9,097	9,005	9,145	9,201	9,262	9,308	9,320	9,449	9,378
1937.....	8,412	8,038	8,251	8,473	8,560	8,624	8,550	8,616	8,698	8,452	8,391	8,193	8,083
Alabama.....	110	101	101	103	101	105	114	116	116	115	115	114	116
Arizona.....	22	19	20	21	22	23	25	20	22	24	19	21	24
Arkansas.....	134	131	134	137	134	132	141	137	131	129	133	135	136
California.....	745	682	689	707	796	777	744	822	771	748	710	741	745
Colorado.....	76	65	94	86	96	93	71	69	70	69	70	69	68
Connecticut.....	47	43	42	42	47	46	44	47	47	52	51	52	51
Delaware.....	8	9	8	8	9	11	9	8	8	9	9	7	7
District of Columbia.....	33	32	31	30	31	31	33	36	38	35	34	34	34
Florida.....	203	205	207	204	201	198	201	198	200	205	212	201	204
Georgia.....	126	127	128	127	126	126	127	124	133	125	124	124	127
Idaho.....	23	23	23	23	23	23	23	23	23	23	23	23	23
Illinois.....	475	468	463	474	468	459	459	469	479	469	462	509	491
Indiana.....	144	146	149	145	141	141	140	141	146	140	145	150	150
Iowa.....	82	81	81	80	79	80	88	82	84	80	86	84	87
Kansas.....	128	119	121	120	130	132	133	129	132	127	128	132	129
Kentucky.....	124	125	123	126	118	123	124	124	124	124	127	125	123
Louisiana.....	311	305	297	340	314	296	294	311	302	320	317	343	295
Maine.....	34	32	34	32	34	32	33	33	34	35	37	38	34
Maryland.....	152	135	140	157	146	158	148	151	165	157	151	162	164
Massachusetts.....	180	154	161	159	165	180	171	178	193	193	201	200	198
Michigan.....	386	347	380	408	393	398	371	377	380	380	399	404	421
Minnesota.....	112	118	112	110	111	110	113	112	115	115	105	111	112
Mississippi.....	145	140	139	139	145	144	148	152	154	149	141	142	142
Missouri.....	323	299	302	307	312	312	317	224	331	340	339	346	348
Montana.....	32	31	31	32	32	32	33	33	31	31	31	31	31
Nebraska.....	49	48	48	45	49	50	49	48	51	50	51	50	49
New Hampshire.....	12	14	12	13	12	12	12	11	11	11	12	12	11
New Jersey.....	194	196	190	190	198	199	198	186	195	192	201	196	189
New Mexico.....	30	29	27	26	29	28	33	32	33	30	32	33	32
New York.....	1,130	1,124	1,113	1,137	1,117	1,114	1,127	1,112	1,104	1,106	1,164	1,172	1,172
North Carolina.....	284	262	265	274	275	293	278	284	286	298	291	302	294
Ohio.....	460	450	453	449	439	435	445	446	472	462	467	509	508
Oklahoma.....	198	196	194	195	197	199	199	200	199	200	198	199	205
Oregon.....	151	164	163	154	148	149	150	144	150	155	149	144	140
Pennsylvania.....	658	666	665	662	663	663	658	650	641	641	654	664	668
Rhode Island.....	28	26	25	27	28	28	28	29	28	30	30	31	31
South Carolina.....	61	57	60	59	60	65	62	65	64	61	60	60	62
Tennessee.....	225	215	212	211	218	220	238	240	243	230	225	220	217
Texas.....	765	758	760	775	751	772	803	772	748	759	769	768	747
Utah.....	9	8	8	8	9	8	9	9	9	9	9	9	9
Virginia.....	233	225	222	224	229	226	243	233	232	239	242	240	245
Washington.....	253	245	234	259	245	243	252	253	251	257	245	261	256
West Virginia.....	131	127	131	126	128	124	128	129	132	135	140	135	140
Wisconsin.....	121	109	101	100	108	109	111	113	156	157	124	129	134

CENSUS OF MANUFACTURES: 1939

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	1,459
Reporting expenditures for plant and equipment.....	562
Value of products:	
Total for the industry.....	\$38,166,267
Reporting expenditures for plant and equipment.....	18,167,209
Expenditures for plant and equipment:	
Total for the industry.....	848,755
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	192,560
Expenditures for new machinery and operating equipment.....	429,698
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	217,964
Expenditures unclassified.....	8,533

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$4,042,518	\$3,141,957
Finished products.....	798,489	1,167,529
Materials, supplies, etc.....	3,244,029	1,974,428
End of year, total.....	4,270,858	3,890,162
Finished products.....	898,811	1,271,092
Materials, supplies, etc.....	3,372,047	2,619,070
Value of products for the industry, total.....	38,166,267	36,244,175
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	32,040,885	26,818,172
Value for establishments not reporting inventories.....	6,125,382	9,426,003

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 ¹

	1939		1939
Number of establishments.....	1,459	Prime movers—Continued.	
Number of establishments reporting power equipment.....	1,456	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Diesel and semi-Diesel engines—	
Number.....	194	Number.....	8
Horsepower.....	6,919	Horsepower.....	330
Prime movers, driving generators, total—		Other internal-combustion engines ² —	
Number.....	58	Number.....	113
Horsepower.....	2,755	Horsepower.....	3,190
Steam engines—		Hydroturbines and water wheels—	
Number.....	4	Number.....	1
Horsepower.....	405	Horsepower.....	15
Diesel and semi-Diesel engines—		Prime movers not driving generators, ordinarily idle (included above), horsepower.....	119
Number.....	12	Generators, kilowatt rating, total.....	1,481
Horsepower.....	878	Generators, driven by—	
Other internal-combustion engines ² —		Steam engines, kilowatt rating.....	235
Number.....	42	Diesel and semi-Diesel engines, kilowatt rating.....	602
Horsepower.....	1,472	Other internal-combustion engines, ² kilowatt rating.....	644
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	889	Generators, ordinarily idle (included above), kilowatt rating.....	304
Prime movers not driving generators, total—		Electric motors, total:	
Number.....	136	Number.....	10,765
Horsepower.....	4,164	Horsepower.....	48,432
Steam engines—		Driven by purchased energy—	
Number.....	13	Number.....	10,472
Horsepower.....	570	Horsepower.....	46,983
Steam turbines—		Driven by energy generated in establishments reporting—	
Number.....	1	Number.....	293
Horsepower.....	50	Horsepower.....	1,449
		Electric energy (kilowatt-hours):	
		Generated in plant.....	314,175
		Purchased.....	18,278,725

¹ Comparable data for 1920 not available.² Gas, gasoline, etc.

OFFICE AND STORE MACHINES NOT ELSEWHERE CLASSIFIED

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

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture or assembly, for sale, of office and store machines—typewriters and mechanical devices for performing such operations as adding, calculating, counting, change-making, card sorting and tabulation, check writing and canceling, addressing and mailing, and duplicating or manifolding.

These classes of machines have been assigned to a separate industry classification for the first time at the census for 1939. The former industries, "Cash registers, adding and calculating machines, and other business machines, except typewriters," and "Typewriters and parts," and data for establishments primarily engaged in the manufacture of stencil cutting and embossing machines (formerly included in the "Machinery not elsewhere classified" industry) have been

combined to make the "Office and store machines not elsewhere classified" industry. The figures for 1937 in these tables have been adjusted for comparison with 1939. No figures are available for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	123	36,204	\$49,981,728	\$29,142,772	\$150,170,237	\$121,027,465	28,136
1937 ⁴	115	44,770	63,010,746	33,548,169	180,826,510	147,278,361	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.
² See GENERAL EXPLANATIONS—Wage earners and wages.
³ See GENERAL EXPLANATIONS—Value added by manufacture.
⁴ Figures not available for years prior to 1937.
⁵ Not called for on schedule.

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

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

ITEM	United States	California	Connecticut	Illinois	Missouri	New York	Other States ¹
Number of establishments ²	123	8	7	18	5	44	41
Proprietors and firm members.....	26					9	17
Persons reported by manufacturing establishments, total ³	44,144	801	12,445	2,355	129	12,050	15,704
Salaried officers of corporations ⁴	197	9	7	31	7	57	86
Manufacturing:							
Salaried employees ⁵	5,811	131	1,224	400	14	1,642	2,304
Wage earners (average for the year) ⁶	36,204	637	11,030	1,721	101	10,745	11,970
Distribution.....	1,693	65	87	190	7	129	1,215
Construction.....	107	4	96	2		62	3
Other.....	72	15	1	5		15	36
Salaries and wages, total ⁷	\$97,076,777	\$1,421,354	\$16,160,711	\$3,556,009	\$170,200	\$18,002,770	\$28,305,073
Salaried officers ⁸	1,043,881	63,818	110,708	186,830	47,355	387,351	1,138,813
Manufacturing:							
Salaries ⁹	11,830,254	242,221	1,915,901	823,144	24,706	2,875,118	5,048,084
Wages.....	49,981,728	901,547	13,800,630	2,241,268	88,724	14,331,390	18,510,130
Distribution.....	3,497,468	98,726	123,321	298,280	9,325	328,002	2,639,718
Construction.....	329,512	6,942	191,170	2,535		121,405	7,400
Other.....	93,934	18,100	882	3,070		10,354	51,628
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	29,142,772	728,699	5,896,461	3,962,353	510,908	9,798,508	8,215,783
Materials, supplies, and containers.....	27,736,558	701,454	5,544,470	3,820,295	501,813	9,337,207	7,822,310
Fuel.....	643,936	4,009	128,854	54,082	1,074	222,490	281,048
Purchased electric energy.....	609,234	10,010	213,025	60,678	3,265	209,050	97,606
Contract work.....	153,044	7,226	9,503	88,308	3,010	29,782	64,219
Value of products.....	150,170,237	5,912,868	28,741,608	11,634,606	940,875	30,818,254	72,122,025
Value added by manufacture ¹⁰	121,027,465	5,184,169	22,845,147	7,042,253	429,907	21,010,746	63,906,243

¹ Florida, 1 establishment; Indiana, 1; Iowa, 1; Maryland, 1; Massachusetts, 5; Michigan, 5; Minnesota, 1; New Jersey, 5; Ohio, 9; Pennsylvania, 5; Rhode Island, 1; Virginia, 1; Washington, 1; Wisconsin, 4.
² See GENERAL EXPLANATIONS—Definition of establishment.
³ See GENERAL EXPLANATIONS—Persons engaged—general classification.
⁴ See GENERAL EXPLANATIONS—Wage earners and wages.
⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

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

	1939	1937
Office and Store Machines Not Elsewhere Classified industry, all products, total value.....	\$150,170,237	\$180,826,510
Office and store machines not elsewhere classified, and parts and attachments, made in this industry.....	142,218,006	170,434,208
Miscellaneous products not specified.....	114,192	9,629,278
Other products (not classified in this industry).....	16,794,859	763,024
Receipts for contract and repair work.....	1,043,180	
Office and store machines, not elsewhere classified, total value.....	145,135,004	173,254,847
Office and store machines not elsewhere classified, and parts and attachments made in this industry.....	142,218,006	170,434,208
Office and store machines not elsewhere classified, and parts and attachments made as secondary products in other industries.....	2,916,998	2,820,639

¹ Value of ink, paper rolls, account books, staples, coin-operated vending machines, coin wrappers, and other office supplies.

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

PRODUCT	1939	1937
Office and store machines, not elsewhere classified, and parts and attachments, total value.....	\$145,135,004	\$173,254,847
Listing-adding machines:		
Number.....	131,726	158,642
Value.....	\$9,808,423	\$13,168,726
Calculating machines:		
Number.....	31,578	53,013
Value.....	\$8,607,632	\$13,506,101
Listing-adding-bookkeeping machines and typewriter-bookkeeping-billing machines: ¹		
Number.....	13,076	20,873
Value.....	\$10,535,913	\$15,569,475
Typewriters:		
Standard, including long-carriage—		
Number.....	484,440	557,954
Value.....	\$23,031,906	\$22,941,034
Portable—		
Number.....	432,850	536,862
Value.....	\$9,407,093	\$11,625,093

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

PRODUCT	1939	1937
Typewriters—Continued.		
Reconditioned and rebuilt typewriters—		
Number.....	46,283	(²)
Value.....	\$1,842,243	\$2,166,591
Cash registers; card punching, sorting, and tabulating machines; change-making machines; fare registers and fare boxes; and ticket-counting machines ¹	\$33,841,443	
Coin-counters:		
Number.....	1,104	\$41,741,683
Value.....	\$479,601	
Other adding, calculating, and computing devices.....	\$1,757,573	\$1,207,327
Autographic registers:		
Number reported—		
Number.....	40,505	(³)
Value.....	\$355,104	
Number not reported, value.....	\$289,119	
Stencil-cutting and embossing machines.....	\$113,277	
Duplicating machines:		
Machines using ribbon-and-ink process—		
Number.....	12,008	
Value.....	\$1,310,986	\$5,099,226
Machines using offset lithograph and stencil processes ¹	\$3,996,260	
Addressing and imprinting, folding, inserting, and similar machines; postal-permit printing machines; and postal meters ¹	\$4,859,030	\$5,509,104
Check-writing, signing, canceling machines, and perforators or other protective devices, etc.....	\$2,094,107	\$2,052,905
Numbering machines:		
Number.....	61,491	(²)
Value.....	\$706,166	\$866,706
Other business machines, including voting machines, pay-roll machines, bankproof machines, and copy-holders ¹	\$5,497,905	\$7,854,135
Supplies for duplicating and addressing and mailing machines ¹	\$5,753,574	\$5,000,339
Typewriter parts.....	\$5,303,415	\$6,700,423
Parts and attachments for other business machines.....	\$9,809,004	\$12,315,657
Reconditioned and rebuilt machines, other than typewriters ¹	\$5,675,230	\$4,814,232

¹ Combined to avoid disclosing, exactly or approximately, data reported by individual establishments.

² No comparable data.

³ Not called for separately on schedule.

⁴ Includes rebuilt adding machines, rebuilt cash registers, reconditioned addressing and mailing machines, and reconditioned duplicating machines.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	36,204	36,879	36,956	37,088	36,700	36,415	35,783	34,035	35,532	35,652	36,291	36,569	36,548
1937.....	44,776	43,201	43,911	45,107	45,839	45,169	46,475	46,366	45,093	46,192	45,275	42,671	41,011
California.....	637	455	478	541	579	634	671	709	725	717	712	722	701
Connecticut.....	11,030	10,649	10,763	11,020	11,170	11,189	10,945	11,014	11,036	11,052	11,281	11,197	11,043
Illinois.....	1,721	1,701	1,717	1,632	1,630	1,665	1,639	1,568	1,625	1,759	1,881	1,908	1,924
Massachusetts.....	338	339	338	338	346	347	329	336	332	333	326	337	353
Michigan.....	4,229	4,314	4,301	4,280	4,264	4,251	4,244	4,215	4,195	4,197	4,186	4,146	4,154
Missouri.....	101	111	113	116	106	96	99	109	103	103	94	78	83
New Jersey.....	837	877	866	866	857	854	849	828	812	809	809	813	808
New York.....	10,745	11,472	11,308	11,311	11,201	10,836	10,647	8,831	10,279	10,283	10,651	11,029	11,095
Ohio.....	6,116	6,409	6,502	6,412	5,991	5,981	6,011	6,075	6,072	6,036	5,960	5,953	5,991
Pennsylvania.....	119	244	245	249	246	246	29	29	29	29	30	27	29
Wisconsin.....	116	115	128	128	115	113	109	108	100	110	119	118	119

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	123
Reporting expenditures for plant and equipment.....	83
Value of products:	
Total for the industry.....	\$150, 170, 237
Reporting expenditures for plant and equipment.....	145, 413, 745
Expenditures for plant and equipment:	
Total for the industry.....	4, 452, 309
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	373, 444
Expenditures for new machinery and operating equipment.....	3, 043, 053
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	135, 902

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$57, 504, 616	\$40, 552, 027
Finished products.....	21, 197, 753	19, 024, 096
Materials, supplies, etc.....	36, 306, 862	20, 028, 531
End of year, total.....	56, 853, 473	61, 764, 404
Finished products.....	21, 541, 704	24, 374, 734
Materials, supplies, etc.....	35, 310, 769	37, 389, 670
Value of products for the industry, total.....	150, 170, 237	180, 826, 510
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	150, 152, 816	180, 654, 797
Value for establishments not reporting inventories.....	17, 421	171, 713

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	123
Number of establishments reporting power equipment.....	123
Prime movers, aggregate:	
Number.....	26
Horsepower.....	28, 136

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

	1939
Prime movers—Continued.	
Prime movers, driving generators, total—	
Number.....	22
Horsepower.....	26, 806
Steam engines—	
Number.....	8
Horsepower.....	3, 253
Steam turbines—	
Number.....	11
Horsepower.....	23, 185
Diesel and semi-Diesel engines—	
Number.....	3
Horsepower.....	308
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	6, 840
Prime movers not driving generators, total—	
Number.....	4
Horsepower.....	1, 330
Steam engines—	
Number.....	3
Horsepower.....	1, 305
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	25
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	1, 225
Generators, kilowatt rating, total.....	19, 090
Generators, driven by—	
Steam engines, kilowatt rating.....	2, 206
Steam turbines, kilowatt rating.....	16, 650
Diesel and semi-Diesel engines, kilowatt rating.....	234
Generators, ordinarily idle (included above), kilowatt rating.....	5, 392
Electric motors, total:	
Number.....	16, 476
Horsepower.....	53, 825
Driven by purchased energy—	
Number.....	11, 073
Horsepower.....	32, 395
Driven by energy generated in establishments reporting—	
Number.....	5, 403
Horsepower.....	24, 430
Electric energy (kilowatt-hours):	
Generated in plant.....	27, 652, 244
Purchased.....	85, 664, 068

¹ Comparable data for 1920 not available.

VENDING, AMUSEMENT, AND OTHER COIN-OPERATED MACHINES

[A preliminary report for this industry was issued December 6, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture of all coin-operated mechanisms and complete coin-operated vending and amusement machines, except complete coin-operated phonographs, which are included in the "Radios, radio tubes, and phonographs" industry.

Establishments assigned to this industry were formerly included in the "Machinery not elsewhere classified" industry but were given a separate classification for the first time at the census for 1939. The figures for 1937 in these tables have been adjusted for comparison with those for 1939; there are no available figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	51	3,842	\$4,631,710	\$10,674,687	\$23,142,882	\$12,468,195	90
1937 ⁴	47	4,310	5,180,695	12,958,541	27,307,616	14,400,076	(e)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable figures for years prior to 1937.

^e Not called for on schedule.

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

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

ITEM	United States	California	Illinois	New York	Ohio	Other States ¹
Number of establishments ²	51	5	23	5	4	14
Proprietors and firm members.....	15	5	3	1	1	6
Persons reported by manufacturing establishments, total ³	4,770	26	4,184	225	29	305
Salaried officers of corporations ³	71	—	50	7	3	11
Manufacturing:						
Salaried employees ³	493	2	424	26	3	38
Wage earners (average for the year) ⁴	3,842	24	3,379	175	19	244
Distribution.....	354	—	321	17	4	12
Construction.....	8	—	8	—	—	—
Other.....	2	—	2	—	—	—
Salaries and wages, total ³	\$7,261,067	\$26,905	\$6,480,771	\$318,411	\$44,719	\$390,261
Salaried officers ³	856,340	—	712,028	58,240	13,042	73,030
Manufacturing:						
Salaries ³	971,530	2,027	848,062	52,414	5,522	63,505
Wages.....	4,631,710	24,878	4,167,936	178,588	19,434	240,874
Distribution.....	786,209	—	737,467	20,169	6,721	12,852
Construction.....	13,767	—	13,767	—	—	—
Other.....	1,611	—	1,611	—	—	—
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	10,674,687	49,194	9,517,790	425,402	52,786	620,515
Materials, supplies, and containers.....	10,453,790	47,824	9,329,271	418,701	48,419	609,575
Fuel.....	47,092	354	40,742	810	791	4,395
Purchased electric energy.....	100,676	621	86,693	5,891	493	6,978
Contract work.....	78,129	395	61,084	—	3,083	8,567
Value of products.....	23,142,882	162,976	20,146,463	921,327	141,137	1,770,970
Value added by manufacture ⁵	12,468,195	113,782	10,628,673	495,925	88,351	1,141,464

¹ Iowa, 1 establishment; Massachusetts, 1; Michigan, 3; Minnesota, 1; Missouri, 4; New Jersey, 1; Pennsylvania, 1; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

VENDING, AMUSEMENT, AND OTHER COIN-OPERATED MACHINES

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

	1939	1937
Vending, Amusement, and Other Coin-Operated Machines industry, all products, total value.....	\$23, 142, 882	\$27, 367, 616
Vending, amusement, and other coin-operated machines, parts and attachments made in this industry.....	17, 762, 873	22, 705, 727
Miscellaneous products not specified.....	13, 362	4, 608, 256
Other products (not classified in this industry).....	1 5, 235, 438	
Receipts for contract and repair work.....	131, 209	53, 633
Vending, amusement, and other coin-operated machines, and parts and attachments, total value.....	19, 659, 685	22, 926, 369
Vending, amusement, and other coin-operated machines, and parts and attachments made in this industry.....	17, 762, 873	22, 705, 727
Vending, amusement, and other coin-operated machines, and parts and attachments made as secondary products in other industries.....	1, 896, 812	220, 642

¹ Chiefly value of scales, phonographs, and cutting machines.

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

PRODUCT	1939	1937
Vending, amusement, and other coin-operated machines, and parts and attachments, total value.....	\$19, 659, 685	\$22, 926, 369
Coin-operated commodity or vending machines:		
Number reported—		
Number.....	174, 017	475, 415
Value.....	\$5, 664, 800	\$7, 222, 011
Number not reported, value.....	\$488, 949	\$1, 755, 556
Coin-operated games and amusement devices:		
Games—		
Number reported—		
Number.....	109, 597	
Value.....	\$8, 354, 753	
Number not reported, value.....	\$2, 970, 082	200, 308
Other, including gambling devices ¹ —		
Number reported—		
Number.....	2, 741	\$10, 551, 072
Value.....	\$101, 731	² \$3, 347, 433
Number not reported, value.....	\$821, 564	
Coin-operated mechanisms, including locks:		
Number reported—		
Number.....	288, 174	
Value.....	\$1, 040, 703	(³)
Number not reported, value.....	\$59, 360	
Parts and attachments, value.....	\$67, 743	\$50, 297

¹ Gambling and other coin-operated amusement devices, combined to avoid disclosing, exactly or approximately, data for individual establishments.

² This amount represents \$2,108,704, the value of gambling devices, and \$1,238,609, the value of coin-operated games and amusements not reported separately.

³ No comparable figures available.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	3, 842	3, 389	3, 516	3, 598	3, 978	4, 200	4, 064	4, 022	3, 536	3, 842	3, 932	3, 994	4, 036
1937.....	4, 310	4, 344	4, 586	4, 464	4, 578	4, 483	4, 506	4, 322	4, 180	3, 895	4, 176	4, 253	3, 935
California.....	24	19	21	27	28	30	24	24	25	24	21	21	21
Illinois.....	3, 379	2, 932	3, 072	3, 138	3, 474	3, 666	3, 564	3, 522	3, 057	3, 384	3, 518	3, 576	3, 649
Michigan.....	23	27	29	26	22	22	28	26	21	16	14	22	23
Missouri.....	96	102	98	123	108	102	90	87	85	82	91	91	90
New York.....	175	176	161	151	211	228	207	212	190	175	130	136	126
Ohio.....	19	23	21	17	20	19	20	18	17	18	20	20	20

CENSUS OF MANUFACTURES: 1939

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	51
Reporting expenditures for plant and equipment.....	30
Value of products:	
Total for the industry.....	\$23,142,882
Reporting expenditures for plant and equipment.....	21,207,890
Expenditures for plant and equipment:	
Total for the industry.....	311,960
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	23,967
Expenditures for new machinery and operating equipment.....	274,552
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	13,441

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$2,990,796	\$3,179,431
Finished products.....	1,042,078	878,362
Materials, supplies, etc.....	1,948,718	2,301,069
End of year, total.....	3,156,191	3,818,542
Finished products.....	1,051,770	1,320,041
Materials, supplies, etc.....	2,104,421	2,497,601
Value of products for the industry, total.....	23,142,882	27,867,616
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	22,946,187	27,807,456
Value for establishments not reporting inventories.....	196,745	60,160

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 ¹

	1939
Number of establishments.....	51
Number of establishments reporting power equipment.....	50
Prime movers, aggregate:	
Number.....	3
Horsepower.....	90
Prime movers, Diesel and semi-Diesel engines, driving generators—	
Number.....	1
Horsepower.....	60
Prime movers not driving generators, Diesel and semi-Diesel engines—	
Number.....	2
Horsepower.....	30
Generators, Diesel and semi-Diesel engines, kilowatt rating.....	30
Electric motors, total:	
Number.....	1,875
Horsepower.....	4,689
Driven by purchased energy—	
Number.....	1,857
Horsepower.....	4,547
Driven by energy generated in establishments reporting—	
Number.....	18
Horsepower.....	42
Electric energy (kilowatt-hours):	
Generated in plant.....	5,000
Purchased.....	4,051,168

¹ Comparable data for 1929 not available.

SCALES AND BALANCES

[A preliminary report for this industry was issued November 23, 1940]

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

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939.....	56	2,839	\$3,306,476	\$4,087,514	\$14,350,008	\$9,362,554	644
1937.....	57	3,299	4,115,410	5,857,970	17,859,302	11,098,413	(5)
1935.....	56	2,468	2,633,489	3,815,761	13,383,520	9,607,759	(5)
1933.....	45	2,137	1,825,009	2,101,677	8,332,000	6,171,220	(5)
1931.....	54	2,814	3,232,752	3,644,457	14,561,273	10,916,816	(5)
1929.....	59	4,118	5,995,475	7,438,190	30,381,424	22,943,234	900
1927.....	60	3,906	5,460,742	7,453,927	24,655,442	17,201,616	744
1925.....	71	4,292	5,782,660	7,348,704	27,237,181	19,888,477	1,056
1923.....	65	4,245	5,500,035	6,594,493	24,156,082	17,562,499	(5)
1921.....	65	3,720	4,427,086	4,716,313	16,884,770	11,168,467	(5)
1919.....	70	5,432	6,533,078	6,993,082	20,641,038	13,647,356	901
1914.....	83	4,467	2,933,690	3,174,467	9,733,721	6,559,254	2,445
1909.....	87	3,559	2,186,230	2,703,997	8,785,042	6,081,646	2,562
1904.....	85	3,133	1,754,789	1,033,150	6,002,038	4,309,488	2,802
1899.....	86	2,775	1,436,839	1,533,376	8,230,788	3,700,400	2,245

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

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

⁵ Not called for on schedule.

⁶ Data not available.

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

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

ITEM	United States	Illinois	New Jersey	New York	Ohio	Pennsylvania	Other States ¹
Number of establishments ²	56	14	8	8	5	5	16
Proprietors and firm members.....	16	3	4	2	1	1	5
Persons reported by manufacturing establishments, total ³	3,757	653	317	613	725	111	1,338
Salaried officers of corporations ⁴	82	24	9	11	9	4	25
Manufacturing:							
Salaried employees ⁵	523	57	55	62	141	19	192
Wage earners (average for the year) ⁶	2,839	503	214	455	518	80	1,016
Distribution.....	306	68	37	82	87	11	81
Construction.....	0		2				4
Other.....	1	1					
Salaries and wages, total ⁷	\$5,566,413	\$911,375	\$560,062	\$922,227	\$1,355,263	\$120,616	\$1,090,871
Salaried officers ⁸	469,713	138,126	62,668	101,198	50,077	8,380	102,355
Manufacturing:							
Salaries ⁹	1,048,061	99,732	89,063	127,030	395,176	21,807	315,853
Wages.....	3,806,476	551,602	320,294	451,011	757,585	78,846	1,167,138
Distribution.....	784,347	121,031	86,821	262,988	146,525	17,873	100,109
Construction.....	6,932		1,216				5,719
Other.....	884	884					
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	4,987,514	939,040	314,040	1,205,971	1,118,551	114,333	1,204,070
Materials, supplies, and containers.....	4,676,264	872,067	299,000	1,178,381	1,073,135	110,066	1,143,015
Fuel.....	111,011	22,351	6,651	5,108	17,033	1,722	57,240
Purchased electric energy.....	112,404	20,173	9,298	14,455	20,483	2,545	45,450
Contract work.....	87,835	24,440		8,027	7,000		48,350
Value of products.....	14,350,008	2,620,775	1,177,915	2,482,127	3,706,920	288,590	4,007,741
Value added by manufacture ¹⁰	9,362,554	1,687,735	862,966	1,276,156	2,588,300	174,267	2,773,071

¹ California, 2 establishments; Colorado, 1; Connecticut, 1; District of Columbia, 1; Indiana, 1; Kentucky, 1; Michigan, 2; Missouri, 1; Oklahoma, 1; Utah, 1; Vermont, 2; Washington, 1; Wisconsin, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

CENSUS OF MANUFACTURES: 1939

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

	1939	1937	1929		1939	1937	1929
Scales and Balances industry, all products, total value.....	\$14,350,068	\$17,856,392	\$30,381,424	Scales and balances, parts and attachments, total value.....	\$13,952,573	\$17,523,286	\$26,084,847
Scales and balances, parts and attachments made in this industry.....	13,188,246	16,742,567	24,700,522	Scales and balances, parts and attachments made in this industry.....	13,188,246	16,742,567	24,700,522
Receipts for contract and repair work.....	244,197	109,041	1,052,544	Scales and balances made as secondary products in other industries.....	764,327	780,719	1,384,325
Miscellaneous products not specified.....	9,854						
Other products (not classified in this industry).....	1,907,771	1,004,784	4,628,358				

¹ Chiefly value of store fixtures, coffee mills, meat choppers, sadn vics.

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

PRODUCT	1939	1937	1929
Scales and balances, parts and attachments, total value.....	\$13,952,573	\$17,523,286	\$26,084,847
Automatic industrial scales:			
Bench and portable—			
Number.....	4,954		
Value.....	\$1,213,053		
Built-in or pit type—			
Number.....	2,170	12,480	21,161
Value.....	\$334,535	\$4,114,966	\$4,589,733
Fan type—			
Number.....	4,243		
Value.....	\$239,833		
Beam scales:			
Bench and portable—			
Number.....	70,553		
Value.....	\$1,227,736		
Built-in or pit type—			
Number.....	3,640	186,350	155,241
Value.....	\$901,532	\$4,003,112	\$5,084,861
Railroad track scales and steelyards, value.....	\$265,690		
Calculating and computing scales, spring type:			
Number.....	41,168		
Value.....	\$2,989,537		
Calculating and computing scales and balances, springless type:			
Number.....	56,894	62,822	58,006
Value.....	\$1,535,838	\$4,835,315	\$9,070,021
Coin-operated scales:			
Number.....	3,752	9,869	8,637
Value.....	\$331,980	\$662,051	\$1,447,410
Spring scales (other than computing):			
Bathroom or "health"—			
Number.....	890,129	786,247	
Value.....	\$1,733,346	\$1,639,160	
Kitchen—			
Number.....	404,441	356,154	620,061
Value.....	\$353,489	\$297,315	\$2,184,099
Other, value.....	\$875,857	\$627,117	
Precision balances (for chemists, druggists, etc.):			
Number.....	13,537	9,062	
Value.....	\$428,927	\$591,655	
Other scales and balances and those not reported by type, value.....	\$795,798		\$3,009,053
Weighing devices other than scales and balances, value.....	\$316,323	\$408,500	
Parts and attachments:			
Weights, value.....	\$81,720		
Other, value.....	\$326,479	\$354,095	\$999,661

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,839	2,783	2,747	2,789	2,764	2,721	2,742	2,789	2,836	2,889	2,936	3,076	3,045
1937.....	3,299	3,080	3,140	3,208	3,309	3,358	3,482	3,302	3,275	3,420	3,395	3,348	3,287
1929.....	4,118	3,901	4,011	4,145	4,063	4,061	4,121	4,157	4,206	4,267	4,269	4,165	4,097
Illinois.....	503	478	478	499	489	475	457	479	493	508	542	578	564
New Jersey.....	214	165	176	183	187	197	213	218	234	237	245	251	256
New York.....	458	444	436	444	448	410	424	438	459	477	459	533	517
Ohio.....	518	506	510	508	509	510	513	514	511	521	534	541	540
Pennsylvania.....	80	85	85	81	80	77	77	79	77	78	79	79	82

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TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	56
Reporting expenditures for plant and equipment.....	37
Value of products:	
Total for the industry.....	\$14,350,068
Reporting expenditures for plant and equipment.....	11,452,306
Expenditures for plant and equipment:	
Total for the industry.....	742,223
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	555,268
Expenditures for new machinery and operating equipment.....	168,923
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	18,032

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$4,350,568	\$4,439,083
Finished products.....	1,016,248	1,898,487
Materials, supplies, etc.....	3,340,320	2,540,596
End of year, total.....	6,061,733	4,718,924
Finished products.....	1,124,940	1,890,714
Materials, supplies, etc.....	4,936,793	2,828,220
Value of products for the industry, total.....	14,350,068	17,856,302
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	14,301,173	17,659,205
Value for establishments not reporting inventories.....	48,895	197,187

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

	1939	1929
Number of establishments.....	56	59
Number of establishments reporting power equipment.....	50	58
Prime movers, aggregate:		
Number.....	6	11
Horsepower.....	644	990

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

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators, total—		
Number.....	4	111
Horsepower.....	615	1,990
Steam engines—		
Number.....	2	15
Horsepower.....	375	1,462
Diesel and semi-Diesel engines—		
Number.....	2	12
Horsepower.....	240	1,240
Other internal-combustion engines ² —		
Number.....		
Horsepower.....		
Hydroturbines and water wheels—		
Number.....		14
Horsepower.....		1,288
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	150	
Prime movers not driving generators, total—		
Number.....	2	
Horsepower.....	29	
Steam engines—		
Number.....	1	(³)
Horsepower.....	26	
Internal-combustion engines, ² other than Diesel and semi-Diesel:		
Number.....	1	
Horsepower.....	3	
Generators, kilowatt rating, total.....	483	433
Generators, driven by—		
Steam engines, kilowatt rating.....	325	(³)
Diesel and semi-Diesel engines, kilowatt rating.....	158	
Generators, ordinarily idle (included above), kilowatt rating.....	150	(⁴)
Electric motors, total:		
Number.....	2,318	1,671
Horsepower.....	10,067	9,252
Driven by purchased energy—		
Number.....	2,198	1,610
Horsepower.....	9,298	8,748
Driven by energy generated in establishments reporting—		
Number.....	120	62
Horsepower.....	769	504
Electric energy (kilowatt-hours):		
Generated in plant.....	326,650	(⁴)
Purchased.....	4,783,421	7,735,331

¹ Includes data for prime movers not driving generators.

² Gas, gasoline, etc.

³ Not called for on schedule.

⁴ Data not available.

LAUNDRY EQUIPMENT, DOMESTIC

[A preliminary report for this industry was issued December 6, 1940]

Description of the industry.—This industry 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 "Commercial laundry, dry-cleaning, and pressing machines" industry.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939	42	7,466	\$9,277,024	\$36,365,346	\$61,601,221	\$25,235,875	3,283
1937	40	9,302	11,675,335	41,208,416	69,888,850	28,880,434	(5)
1935	41	8,742	9,851,792	37,041,052	62,426,345	25,884,203	(5)
1933	41	6,950	6,302,617	24,361,338	44,642,634	20,180,906	(5)
1931	59	0,201	7,212,342	24,520,948	50,928,564	20,407,616	(5)
1929	65	8,189	12,071,918	40,707,373	82,329,024	41,622,551	2,435
1927	75	7,789	10,950,046	34,528,385	70,244,407	35,716,072	2,837
1925	82	7,077	9,989,875	32,748,312	69,508,206	36,816,894	3,051
1923	85	6,144	7,839,171	25,741,775	50,372,616	24,630,741	(5)
1921	96	4,147	4,898,188	16,621,634	30,198,566	18,676,932	(5)
1919	105	5,956	6,431,378	23,388,925	40,771,285	17,882,360	3,259
1914	111	2,302	1,220,832	4,149,431	7,599,802	3,451,321	3,892
1909	100	1,835	903,789	2,837,361	5,824,880	2,987,528	3,012
1904	92	1,622	684,252	2,213,300	3,838,624	1,625,234	3,441
1899	118	1,509	548,707	2,174,762	3,735,243	1,560,481	2,542

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

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

⁵ Not called for on schedule.

⁶ Data not available.

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

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

ITEM	United States	Illinois	Iowa	New York	Other States ¹
Number of establishments ²	42	10	8	4	20
Proprietors and firm members	6	2			4
Persons reported by manufacturing establishments, total ³	9,610	2,296	2,352	1,857	3,606
Salaried officers of corporations ⁴	89	15	26	7	41
Manufacturing:					
Salaried employees ⁵	1,095	183	279	212	421
Wage earners (average for the year) ⁶	7,466	1,948	1,772	977	2,770
Distribution	849	136	267	105	341
Construction	59		5	32	22
Other	62	14	3	24	11
Salaries and wages, total ⁷	\$13,890,421	\$3,114,295	\$3,634,933	\$1,987,289	\$5,153,904
Salaried officers ⁸	622,049	62,948	151,706	75,163	332,832
Manufacturing:					
Salaries ⁹	1,952,851	355,734	412,525	320,309	864,283
Wages	9,277,024	2,372,794	2,339,550	1,235,355	3,329,825
Distribution	1,873,808	308,094	718,197	270,315	577,200
Construction	102,910		10,615	56,555	35,749
Other	61,172	14,725	2,340	29,592	14,516
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	36,365,346	7,251,694	9,355,703	5,110,795	14,647,154
Materials, supplies, and containers	35,706,872	7,106,147	9,173,757	5,028,775	14,393,193
Fuel	281,419	60,946	61,211	38,646	120,616
Purchased electric energy	371,170	84,601	115,735	43,374	127,490
Contract work	5,885				6,855
Value of products	61,601,221	12,884,481	16,147,237	9,217,494	28,352,009
Value added by manufacture ¹⁰	25,235,875	5,632,787	6,791,534	4,106,699	8,704,855

¹ California, 2 establishments; Indiana, 3; Kansas, 1; Michigan, 3; Minnesota, 1; Missouri, 1; Ohio, 6; Pennsylvania, 1; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

LAUNDRY EQUIPMENT, DOMESTIC

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

	1939	1937	1929
Laundry Equipment, Domestic industry, all products, total value.....	\$61,601,221	\$69,888,850	\$82,329,924
Domestic laundry equipment, including parts and attachments made in this industry.....	60,558,997	69,080,381	77,065,445
Miscellaneous products not specified.....	46,074	653,785	3,070,393
Other products (not classified in this industry).....	1 851,205	174,684	1,294,086
Receipts for contract and repair work.....	144,945		
Domestic laundry equipment, parts and attachments, total value.....	60,281,552	76,848,268	81,012,884
Domestic laundry equipment, including parts and attachments made in this industry.....	60,558,997	69,080,381	77,065,445
Domestic laundry equipment made as secondary products in other industries.....	5,722,555	7,787,917	3,047,439

1 Chiefly value of household appliances.

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

PRODUCT	1939	1937	1929
Domestic laundry machinery, total value.....	\$60,281,552	\$76,848,268	\$81,012,884
Washing machines for household use (including apartment size):			
Number reported—			
Number.....	1,504,704	1,660,930	1,133,890
Value.....	\$54,162,358	\$63,099,103	\$71,145,572
Number not reported, value.....			\$242,572
Electric (standard size)—			
Number.....	1,382,162	1,478,480	1 056,062
Value.....	\$48,512,215	\$53,759,761	1 \$59,930,902
Gas or gasoline-engine driven (standard size)—			
Number.....	106,368	168,334	127,832
Value.....	\$5,513,115	\$9,225,949	\$10,663,135
Other power—			
Number reported—			
Number.....	5,353		40,966
Value.....	\$28,200		\$551,535
Number not reported, value.....		14,116	\$242,572
Small or apartment size—		\$113,463	(1)
Number.....	10,823		(1)
Value.....	\$92,738		
Ironing machines:			
Electric—			
Number.....	129,293	159,089	(2)
Value.....	\$4,719,993	\$6,405,210	\$4,015,222
Other types, including ironing attachments for washing machines, value..	\$55,747	\$113,071	
Wringers, driers (cabinet), and extractors, value.....	1 \$7,353,454	\$3,673,199	\$3,607,457
Parts, accessories, and attachments, value.....		\$3,557,655	\$2,002,061

1 Data for apartment-size washing machines made in 1929 included with those for "Electric (standard size)."

2 Data incomplete.

3 Combined to avoid disclosing, exactly or approximately, the output of individual establishments.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	7,466	7,093	7,825	8,181	7,841	7,084	6,969	6,780	7,257	7,451	7,785	7,722	7,655
1937.....	9,302	8,794	9,183	9,623	9,939	10,663	10,530	9,878	9,046	9,046	8,753	8,214	7,959
1929.....	8,189	7,626	7,888	8,228	8,462	8,440	8,440	8,359	8,533	8,596	8,368	7,968	7,363
Illinois.....	1,948	1,657	1,849	1,979	1,989	2,015	2,021	1,874	1,916	2,080	2,102	1,963	1,859
Iowa.....	1,772	1,891	1,890	1,944	1,960	1,516	1,502	1,359	1,585	1,588	1,885	2,063	2,076
Michigan.....	493	452	462	497	488	458	448	430	469	466	473	577	701
New York.....	977	1,021	1,102	1,094	1,093	1,018	973	935	904	901	911	915	855
Ohio.....	1,239	1,195	1,461	1,527	1,261	1,020	1,066	1,131	1,304	1,359	1,255	1,167	1,137

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	42
Reporting expenditures for plant and equipment.....	32
Value of products:	
Total for the industry.....	\$61,601,221
Reporting expenditures for plant and equipment.....	58,294,095
Expenditures for plant and equipment:	
Total for the industry.....	1,549,997
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	259,446
Expenditures for new machinery and operating equipment.....	1,025,128
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	265,423

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$9,050,260	\$10,430,178
Finished products.....	3,616,338	4,315,607
Materials, supplies, etc.....	5,433,922	6,114,566
End of year, total.....	10,092,831	11,915,533
Finished products.....	3,703,308	5,217,945
Materials, supplies, etc.....	6,389,523	6,697,588
Value of products for the industry, total.....	61,601,221	69,888,850
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	59,999,901	69,888,850
Value for establishments not reporting inventories.....	1,601,320	.....

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

	1939	1929
Number of establishments.....	42	65
Number of establishments reporting power equipment.....	42	62
Prime movers, aggregate:		
Number.....	6	11
Horsepower.....	3,283	2,435
Prime movers, driving generators, total—		
Number.....	4	11
Horsepower.....	3,033	2,435
Steam engines—		
Number.....	2	11
Horsepower.....	933	2,410
Steam turbines—		
Number.....	2	.....
Horsepower.....	2,100	.....
Diesel and semi-Diesel engines—		
Number.....	.....	11
Horsepower.....	.....	125
Other internal-combustion engines ² —		
Number.....	.....	.....
Horsepower.....	.....	.....
Prime movers, steam engines, not driving generators—		
Number.....	2	(⁴)
Horsepower.....	250	.....
Generators, kilowatt rating, total.....	2,275	1,100
Generators, driven by—		
Steam engines, kilowatt rating.....	700	(⁴)
Steam turbines, kilowatt rating.....	1,575	.....
Electric motors, total:		
Number.....	5,094	3,354
Horsepower.....	34,041	28,637
Driven by purchased energy—		
Number.....	5,588	3,194
Horsepower.....	30,853	24,297
Driven by energy generated in establishments reporting—		
Number.....	406	100
Horsepower.....	4,088	2,340
Electric energy (kilowatt-hours):		
Generated in plant.....	2,803,040	(⁴)
Purchased.....	24,950,479	17,792,020

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

COMMERCIAL LAUNDRY, DRY-CLEANING, AND PRESSING MACHINERY

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

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of commercial laundry, dry-cleaning, and pressing machinery. These establishments were formerly assigned to the "Machinery, not elsewhere classified"

industry but were given a separate industry classification for the first time at the census for 1939. The 1937 reports have been retabulated to obtain figures comparable with those for 1939; there are no available figures for earlier years.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939.....	82	2,705	\$3,476,555	\$8,821,037	\$21,838,863	\$13,017,826	5,046
1937 ⁴	62	3,012	4,274,331	10,873,824	23,900,774	13,035,950	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ No comparable figures for earlier years.

⁵ Not called for on schedule.

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

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

ITEM	United States	California	Illinois	Massachusetts	Missouri	New Jersey	New York	Pennsylvania	Texas	Other States ¹
Number of establishments ²	82	5	10	4	5	4	17	3	4	30
Proprietors and firm members.....	37	5	3	—	5	—	6	3	2	13
Persons reported by manufacturing establishments, total ³	3,654	34	681	71	140	111	1,541	34	78	962
Salaried officers of corporations ⁴	89	1	12	7	7	7	24	3	3	25
Manufacturing:										
Salaried employees ⁴	588	4	135	13	24	24	238	5	8	137
Wage earners (average for the year) ⁴	2,705	21	608	47	78	50	1,163	26	54	747
Distribution.....	245	8	24	4	31	21	108	—	13	36
Construction.....	4	—	2	—	—	—	—	—	—	2
Other.....	23	—	—	—	—	—	8	—	—	15
Salaries and wages, total ⁵	\$5,779,573	\$66,286	\$929,732	\$60,019	\$219,607	\$190,743	\$2,660,762	\$43,252	\$81,078	\$1,497,194
Salaried officers ⁴	640,821	2,400	38,151	15,069	24,430	26,440	311,123	5,467	9,020	207,821
Manufacturing:										
Salaries ⁴	1,101,910	5,107	224,031	12,066	29,008	34,854	537,750	4,925	6,368	236,903
Wages.....	3,476,555	35,493	599,287	51,712	70,750	77,234	1,604,635	32,860	47,822	956,762
Distribution.....	530,749	23,286	56,212	11,172	95,419	52,215	200,254	—	17,870	74,321
Construction.....	4,355	—	1,151	—	—	—	—	—	—	3,234
Other.....	25,153	—	—	—	—	—	7,000	—	—	18,163
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	8,821,037	166,008	1,639,332	108,392	310,904	311,629	3,852,273	51,341	124,551	2,247,607
Materials, supplies, and containers.....	8,528,081	161,805	1,584,490	103,567	314,592	305,756	3,730,605	48,487	122,815	2,155,964
Fuel.....	80,315	—	19,080	1,542	1,868	1,899	35,725	1,043	102	19,056
Purchased electric energy.....	64,894	953	18,081	3,283	3,133	2,614	32,633	1,811	1,634	30,752
Contract work.....	117,747	3,250	17,681	—	311	1,360	53,310	—	—	41,835
Value of products.....	21,838,863	307,393	3,884,652	256,152	674,165	832,455	9,988,487	130,822	305,342	5,459,395
Value added by manufacture ⁵	13,017,826	141,385	2,245,320	147,760	354,261	520,826	6,136,214	79,481	180,791	3,211,788

¹ Arkansas, 1 establishment; Colorado, 1; Georgia, 1; Indiana, 4; Kentucky, 1; Maryland, 1; Michigan, 2; Minnesota, 5; Nebraska, 2; North Carolina, 2; Ohio, 4; Oklahoma, 1; Rhode Island, 1; Vermont, 1; Virginia, 1; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

CENSUS OF MANUFACTURES: 1939

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

PRODUCT	1939	1937
Commercial Laundry, Dry-Cleaning, and Pressing Machinery industry, all products, total value.....	\$21,838,863	\$23,909,774
Laundry, dry-cleaning, and pressing machinery, parts and attachments, made in this industry.....	20,293,084	22,525,020
Miscellaneous products not specified.....	2,467	1,172,711
Other products (not classified in this industry).....	1,397,540	212,034
Receipts for contract and repair work.....	145,772	
Commercial laundry, dry-cleaning, and pressing machinery, parts and attachments, total value.....	21,107,498	22,977,745
Laundry, dry-cleaning, and pressing machinery, parts and attachments, made in this industry.....	20,293,084	22,525,020
Laundry, dry-cleaning, and pressing machinery, parts and attachments, made as secondary products in other industries.....	814,414	452,716

¹ Chiefly value of blowers and fans, vacuum cleaners, boilers, and filters.

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

PRODUCT	1939	1937
Commercial laundry, dry-cleaning, and pressing machinery, total value.....	\$21,107,498	\$22,977,745
Commercial laundry machinery, value.....	\$10,622,711	
Dry-cleaning machinery, value.....	\$4,767,255	
Pressing machinery (clothing):		
Number reported—		
Number.....	14,865	\$21,968,880
Value.....	\$4,635,226	
Number not reported, value.....	\$701,511	
Parts and attachments, value.....	\$380,795	\$1,008,865

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,705	2,536	2,608	2,601	2,732	2,758	2,785	2,785	2,755	2,720	2,700	2,740	2,734
1937.....	3,012	2,777	2,829	2,946	2,965	3,058	3,172	3,230	3,175	3,122	3,118	2,916	2,831
California.....	21	23	23	24	24	20	22	21	18	22	19	21	20
Illinois.....	508	420	450	463	409	522	527	533	547	538	547	524	520
Indiana.....	53	55	55	55	55	52	53	53	51	54	54	52	52
Massachusetts.....	47	47	41	49	42	43	52	50	47	48	47	51	51
Minnesota.....	27	26	26	26	26	27	27	27	27	27	20	30	26
Missouri.....	78	72	84	75	79	82	80	80	80	69	73	80	82
New Jersey.....	59	100	89	89	89	46	46	46	46	45	40	37	37
New York.....	1,163	1,055	1,106	1,089	1,172	1,221	1,231	1,227	1,191	1,166	1,146	1,177	1,180
Ohio.....	349	354	350	350	347	349	347	351	349	350	345	345	346
Pennsylvania.....	26	20	22	21	27	28	28	33	29	29	27	25	27
Texas.....	54	55	53	52	53	52	51	51	53	55	53	57	58

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	82
Reporting expenditures for plant and equipment.....	42
Value of products:	
Total for the industry.....	\$21,838,863
Reporting expenditures for plant and equipment.....	18,768,963
Expenditures for plant and equipment:	
Total for the industry.....	274,245
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	54,135
Expenditures for new machinery and operating equipment.....	203,816
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	16,204

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$6,921,481	\$5,527,213
Finished products.....	2,384,002	2,554,940
Materials, supplies, etc.....	4,530,819	2,972,273
End of year, total.....	6,752,112	7,058,038
Finished products.....	2,017,404	3,122,002
Materials, supplies, etc.....	4,734,618	3,935,436
Value of products for the industry, total.....	21,838,863	23,909,774
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	21,681,386	23,699,833
Value for establishments not reporting inventories.....	157,477	209,941

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	82
Number of establishments reporting power equipment.....	81
Prime movers, aggregate:	
Number.....	15
Horsepower.....	5,040

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators, total—	
Number.....	12
Horsepower.....	4,655
Steam engines—	
Number.....	6
Horsepower.....	1,979
Steam turbines—	
Number.....	2
Horsepower.....	1,876
Hydroturbines and water wheels—	
Number.....	4
Horsepower.....	800
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	150
Prime movers not driving generators, total—	
Number.....	3
Horsepower.....	391
Steam engines—	
Number.....	2
Horsepower.....	365
Steam turbines—	
Number.....	1
Horsepower.....	25
Generators, kilowatt rating, total.....	3,360
Generators, driven by—	
Steam engines, kilowatt rating.....	1,500
Steam turbines, kilowatt rating.....	1,400
Hydroturbines and water wheels, kilowatt rating.....	460
Generators, ordinarily idle (included above), kilowatt rating.....	110
Electric motors, total:	
Number.....	3,105
Horsepower.....	12,449
Driven by purchased energy—	
Number.....	2,328
Horsepower.....	8,524
Driven by energy generated in establishments reporting—	
Number.....	777
Horsepower.....	3,925
Electric energy (kilowatt-hours):	
Generated in plant.....	2,136,220
Purchased.....	3,333,948

¹ Comparable data for 1929 not available.

SEWING MACHINES, DOMESTIC AND INDUSTRIAL

[A preliminary report for this industry was issued November 18, 1940]

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 on textiles. The industry does not include the manufacture of sewing machines for work on leather, rubber, or other non-textile materials, data for which are included in the "Special industry machinery, not elsewhere classified" industry.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	39	7,840	\$11,156,855	\$8,610,209	\$29,706,544	\$21,096,335	12,141
1937.....	36	9,019	13,550,890	9,002,951	34,835,852	25,832,901	(9)
1935.....	39	7,509	9,053,413	6,031,808	22,635,452	16,603,644	(9)
1933.....	30	6,313	6,034,211	2,862,117	12,926,146	10,064,029	(9)
1931.....	34	8,090	8,791,969	6,090,980	20,148,125	14,057,145	(9)
1929.....	39	10,467	14,976,182	16,458,425	45,004,000	28,636,175	16,067
1927.....	35	9,997	13,748,161	14,072,579	30,723,822	25,651,243	19,080

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

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

⁵ Not called for on schedule.

⁶ Data not available.

⁷ Comparable figures for years prior to 1927 not available.

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

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

ITEM	United States	Connecticut	Illinois	New York	Other States ¹
Number of establishments ²	39	3	7	21	8
Proprietors and firm members.....	11			10	1
Persons reported by manufacturing establishments, total ³	9,568	1,719	1,578	320	5,951
Salaried officers of corporations ⁴	56	8	9	22	17
Manufacturing:					
Salaried employees ⁵	1,110	313	188	26	584
Wage earners (average for the year) ⁶	7,840	1,362	1,133	252	5,103
Distribution.....	286	20	190	21	55
Construction.....	273	26	58		189
Other.....	3				3
Salaries and wages, total ⁷	\$14,895,466	\$2,574,783	\$2,420,198	\$505,656	\$9,394,829
Salaried officers ¹	400,471	59,369	80,188	95,799	165,125
Manufacturing:					
Salaries ²	2,869,150	823,908	417,734	32,824	1,294,695
Wages.....	11,156,855	1,808,762	1,499,334	346,671	7,502,098
Distribution.....	484,821	40,777	327,491	30,362	85,691
Construction.....	481,751	41,992	95,451		344,308
Other.....	2,912				2,912

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

ITEM	United States	Connecticut	Illinois	New York	Other States ¹
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	\$8,610,209	\$862,026	\$1,812,821	\$274,871	\$5,060,491
Materials, supplies, and containers.....	8,090,976	790,994	1,720,782	203,282	5,306,018
Fuel.....	295,183	40,754	51,718	3,597	190,114
Purchased electric energy.....	218,054	30,278	25,025	7,992	154,469
Contract work.....	5,396		5,390		
Value of products.....	29,706,544	3,990,637	6,665,027	1,020,224	18,021,626
Value added by manufacture ⁵	21,096,335	3,128,641	4,852,200	754,353	12,361,135

¹ Massachusetts, 3 establishments; Missouri, 1; New Jersey, 1; Ohio, 1; Pennsylvania, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

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

	1939	1937	1929
Sewing Machines, Domestic and Industrial industry, all products, total value.....	\$29,706,544	\$34,835,852	\$45,094,000
Sewing machines (including replacement and repair parts) made in this industry.....	27,424,405	31,377,474	40,465,059
Miscellaneous products not specified.....	11,033		
Other products (not classified in this industry).....	2,003,510	3,240,650	4,223,893
Receipts for contract and repair work.....	177,596	217,722	405,048
Sewing machines, domestic and industrial ² (including replacement and repair parts), total value.....	27,846,346	31,831,578	40,960,102
Sewing machines (including replacement and repair parts) made in this industry.....	27,424,405	31,377,474	40,465,059
Sewing machines made as secondary products in other industries.....	421,941	454,104	494,443

¹ Chiefly value of sewing-machine needles, screw-machine products, and washing machines.

² For use on textiles only; does not include sewing machines for shoemaking, leatherworking, etc.

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

PRODUCT	1939	1937	1929
Sewing machines, domestic and industrial, total value.....	\$27,846,346	\$31,831,578	\$40,960,102
Sewing machines:			
Household types—			
Electric.....			
Number.....	335,442		323,474
Value.....	\$11,314,065	548,099	\$10,481,823
Foot and hand—			
Number.....	121,756	\$13,850,135	345,533
Value.....	\$2,108,438		\$8,618,185
Industrial types ¹ —			
Number.....	58,685	115,127	122,641
Value.....	\$6,881,730	\$10,743,253	\$12,001,736
Not reported as to type—			
Number.....			2,080
Value.....			\$281,466
Parts and attachments, including power tables, value.....	\$7,542,113	\$7,238,190	\$3,681,802

¹ For use on textiles; does not include sewing machines for shoemaking, leatherworking, etc.

SEWING MACHINES, DOMESTIC AND INDUSTRIAL

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	7,840	7,944	7,908	7,892	7,909	7,812	7,735	7,665	7,694	7,725	7,806	7,974	8,017
1937.....	9,019	8,228	8,486	8,742	8,934	9,085	8,600	9,191	9,325	9,525	9,487	9,372	9,254
1929.....	10,467	10,227	10,342	10,381	10,450	10,455	10,534	10,501	10,580	10,531	10,576	10,571	10,451
Connecticut.....	1,362	1,364	1,353	1,349	1,340	1,343	1,340	1,289	1,339	1,340	1,350	1,364	1,407
Illinois.....	1,133	1,058	1,077	1,099	1,106	1,103	1,121	1,117	1,133	1,146	1,174	1,232	1,224
Massachusetts.....	123	101	104	107	119	120	120	119	119	128	143	150	140
New York.....	252	250	261	262	256	249	243	240	245	247	254	251	250

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	39
Reporting expenditures for plant and equipment.....	21
Value of products:	
Total for the industry.....	\$20,706,544
Reporting expenditures for plant and equipment.....	28,375,463
Expenditures for plant and equipment:	
Total for the industry.....	837,418
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	16,048
Expenditures for new machinery and operating equipment.....	718,848
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	102,522

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$20,463,663	\$14,028,215
Finished products.....	10,145,604	6,654,808
Materials, supplies, etc.....	10,348,060	7,373,407
End of year, total.....	10,310,494	17,545,464
Finished products.....	9,328,029	8,606,190
Materials, supplies, etc.....	9,991,465	8,940,274
Value of products for the industry, total.....	20,706,544	34,835,852
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	20,706,544	34,798,385
Value for establishments not reporting inventories.....		37,467

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

	1939	1929
Number of establishments.....	39	39
Number of establishments reporting power equipment.....	39	35
Prime movers, aggregate:		
Number.....	12	24
Horsepower.....	12,141	16,007
Prime movers, driving generators, total—		
Number.....	11	124
Horsepower.....	11,891	110,067
Steam engines—		
Number.....	8	115
Horsepower.....	2,141	13,147
Steam turbines—		
Number.....	3	13
Horsepower.....	9,750	112,680
Hydroturbines and water wheels—		
Number.....		16
Horsepower.....		1240
Prime movers, steam engines, not driving generators—		
Number.....	1	(?)
Horsepower.....	250	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	250	
Generators, kilowatt rating, total.....	7,935	9,000
Generators, driven by—		
Steam engines, kilowatt rating.....	1,435	(?)
Steam turbines, kilowatt rating.....	9,500	
Electric motors, total:		
Number.....	5,404	2,847
Horsepower.....	27,175	24,480
Driven by purchased energy—		
Number.....	4,807	1,883
Horsepower.....	23,572	13,502
Driven by energy generated in establishments reporting—		
Number.....	507	904
Horsepower.....	3,603	10,804
Electric energy (kilowatt-hours):		
Generated in plant.....	3,224,393	(?)
Purchased.....	19,920,859	15,855,508

¹ Includes data for prime movers not driving generators.

² Not called for on schedule.

³ Data not available.

REFRIGERATORS, DOMESTIC (MECHANICAL AND ABSORPTION), REFRIGERATION MACHINERY AND EQUIPMENT, AND COMPLETE AIR-CONDITIONING UNITS

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

Description of the industry.—This 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.

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. More-

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.

over, 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.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1931 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	309	35,160	\$48,391,944	\$150,462,662	\$278,645,540	\$128,182,878	11,365
1937.....	280	50,623	71,370,751	195,229,240	363,788,412	168,559,172	(5)
1935.....	275	37,146	40,442,915	116,924,839	224,113,941	107,180,102	(5)
1933.....	204	26,398	24,335,228	69,601,374	140,762,115	71,160,741	(5)
1931.....	227	26,116	32,350,213	88,561,761	199,426,753	110,804,992	(5)

¹ See GENERAL EXPLANATIONS—Definition of establishment.
² See GENERAL EXPLANATIONS—Wage earners and wages.
³ Figures for years prior to 1935 do not include cost of contract work.
⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
⁵ Not called for on schedule.
⁶ Data not available.
⁷ Comparable figures not available for years prior to 1931.

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

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

ITEM	United States	California	Illinois	Indiana	Maryland	Massachusetts	Michigan	Minnesota
Number of establishments ¹	309	35	31	12	4	9	22	13
Proprietors and firm members.....	166	30	7	2	1	5	5	6
Persons reported by manufacturing establishments, total ²	43,174	970	1,145	7,498	164	69	8,048	1,970
Salaried officers of corporations ²	388	25	41	27	8	2	50	26
Manufacturing:								
Salaried employees ²	4,615	107	121	1,004	23	12	665	107
Wage earners (average for the year) ²	35,160	698	814	6,059	110	42	6,821	1,744
Distribution.....	2,627	131	147	354	19	12	422	94
Construction.....	201		5	47	4		43	
Other.....	183	9	17	7		1	47	
Salaries and wages, total ³	\$65,774,100	\$1,479,015	\$1,553,511	\$11,431,026	\$225,542	\$82,614	\$11,526,604	\$2,101,648
Salaried officers ³	2,320,447	193,479	151,149	401,285	16,230	9,640	323,281	224,494
Manufacturing:								
Salaries ³	9,485,047	180,173	216,967	2,180,694	35,767	15,702	1,455,566	137,012
Wages.....	48,391,944	869,267	925,379	8,136,307	114,508	48,465	8,603,143	1,575,590
Distribution.....	5,025,604	220,757	233,318	680,401	54,798	10,037	974,606	164,452
Construction.....	300,069		5,532	48,024	4,239		85,758	
Other.....	264,989	9,339	18,166	4,315		780	84,160	
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	150,462,662	2,424,492	3,478,177	28,978,272	463,581	109,641	30,243,925	5,767,905
Materials and supplies.....	146,639,804	2,335,683	3,387,848	28,374,708	448,542	104,864	29,520,230	5,592,962
Fuel.....	1,515,779	6,862	32,949	266,340	6,233	2,225	349,973	58,123
Purchased electric energy.....	2,043,604	25,354	49,418	334,674	7,607	2,049	343,581	116,237
Contract work.....	268,475	67,593	7,962	2,550	1,199	603	80,191	583
Value of products.....	278,645,540	4,954,814	6,386,280	54,675,833	850,487	232,425	51,805,725	10,195,259
Value added by manufacture ⁴	128,182,878	2,626,822	2,908,103	26,697,561	386,906	122,784	21,561,800	4,427,354

See footnotes as end of table.

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

ITEM	Missouri	New Jersey	New York	North Carolina	Pennsylvania	Texas	Washington	Wisconsin	Other States ⁴
Number of establishments ¹	16	14	53	4	28	9	7	7	45
Proprietors and firm members.....	6	5	30	2	34	4	4	1	14
Persons reported by manufacturing establishments, total ²	947	858	2,479	51	4,951	362	45	580	13,030
Salaried officers of corporations ²	20	16	64	4	25	6	3	16	56
Manufacturing:									
Salaried employees ²	117	121	304	9	613	16	6	83	1,307
Wage earners (average for the year) ²	741	583	1,754	25	4,024	802	36	447	10,959
Distribution.....	67	129	327	8	217	18		40	642
Construction.....		9		3	63	20			7
Other.....	2		30	2	9				59
Salaries and wages, total ²	\$1,488,299	\$1,219,421	\$3,825,372	\$79,664	\$6,641,332	\$422,742	\$77,995	\$904,101	\$22,715,314
Salaried officers ²	178,552	78,366	258,123	16,095	105,066	13,048	6,630	57,537	292,872
Manufacturing:									
Salaries ²	221,344	177,700	573,601	13,259	1,121,980	20,897	14,461	155,665	2,964,289
Wages.....	892,098	731,152	2,368,112	27,060	4,944,298	329,432	56,904	619,808	18,151,831
Distribution.....	193,801	221,146	599,637	18,650	335,363	39,044		71,091	1,201,813
Construction.....		11,057		4,000	110,069	19,751			2,009
Other.....	1,904		25,899	600	17,326				102,500
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	3,244,565	1,000,961	8,265,243	150,278	28,922,856	1,197,052	92,580	1,340,905	33,873,229
Materials and supplies.....	3,160,051	1,855,712	8,070,787	158,157	28,435,495	1,181,656	90,365	1,249,768	32,672,965
Fuel.....	22,276	22,690	51,340	255	113,107	4,876	524	40,261	538,685
Purchased electric energy.....	21,061	22,689	92,779	866	340,019	10,520	1,691	9,300	658,099
Contract work.....	40,277		50,357		25,145			41,546	5,569
Value of products.....	6,038,648	3,293,635	15,271,020	328,189	51,860,245	2,472,254	209,869	2,433,374	67,647,953
Value added by manufacture ⁴	2,794,083	1,392,704	7,005,777	168,911	22,927,389	1,275,202	117,289	1,092,409	33,774,724

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work.⁵ Colorado, 3 establishments; Connecticut, 2; Delaware, 1; Georgia, 3; Iowa, 2; Kentucky, 1; Louisiana, 1; Nebraska, 3; New Hampshire, 2; Ohio, 17; Oklahoma, 1; Oregon, 4; Tennessee, 4; West Virginia, 1.

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

	1939	1937
Refrigerators, Domestic (Mechanical and Absorption), Refrigeration Machinery and Equipment, and Complete Air-Conditioning Units industry, all products, total value.....	\$278,645,540	\$363,788,412
Refrigerators, refrigeration machinery and equipment, complete air-conditioning units, and parts made in this industry, value.....	250,236,025	341,350,008
Miscellaneous products not specified.....	885,537	20,678,893
Other products (not classified in this industry).....	116,608,008	
Receipts for contract and repair work.....	1,915,372	1,758,611
Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment, complete air-conditioning units and parts, total value.....	250,713,831	375,406,475
Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment, complete air-conditioning units, and parts made in this industry.....	250,236,025	341,350,008
Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment, complete air-conditioning units, and parts made as secondary products in other industries.....	31,477,806	34,056,507

¹ Chiefly value of winter air-conditioning equipment, store fixtures, gas and electric ranges, and electrical supplies.

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

PRODUCT	1939		1937	
	Number	Value	Number	Value
Refrigerators, refrigeration machinery, and air-conditioning units, total value.....		\$290,713,831		\$375,408,475
Mechanical refrigerators and refrigerating machines, compression type, electric (reported as using motors rated at 1 horsepower or less for 1939, and less than 1 ton of refrigeration for 1937):				
Domestic (household), self-contained—				
Capacity under 6 cubic feet.....	677,058	48,804,898	1,093,026	84,458,077
6 cubic feet or more, but under 10 cubic feet.....	1,088,458	91,962,063	991,022	95,985,895
10 cubic feet or more.....	7,575	2,004,437	12,102	2,395,949
Not reported by size, value.....				734,097
Commercial, self-contained—				
Beverage coolers (for bottled beverages).....	42,202	4,355,094	63,653	5,445,857
Ice-cream cabinets—				
Number reported.....	48,650	7,428,336	47,028	8,376,541
Number not reported, value.....		5,000		100,000
Water coolers—				
Number reported.....	22,570	2,070,296	53,922	4,230,280
Number not reported, value.....		30,962		322,652
Display cases—				
Number reported.....	9,615	3,724,504		
Number not reported, value.....		347,062	10,530	2,166,536
Other complete commercial refrigerators—				
Number reported.....	11,100	3,373,195		331,541
Number not reported, value.....		317,936		
Systems, high sides, low sides, etc. (commercial and domestic)—				
Systems complete without cabinets—				
Number reported.....	205,491	8,000,305	279,645	11,686,201
Number not reported, value.....		804,226		
High sides made for sale separately.....	143,079	6,751,506	(1)	7,181,084
Low sides made for sale separately.....	114,493	2,135,070	142,549	5,270,128
Compressors made for sale separately—				
Number reported.....	197,770	7,029,800	198,510	9,540,304
Number not reported, value.....		185,765		
Evaporators or condensers made for sale separately—				
Number reported.....	979,956	2,617,334	806,973	3,145,453
Number not reported, value.....		911,037		1,355,392
Room coolers (not air-conditioning)—				
Number reported.....	10,975	564,577	13,310	1,099,108
Number not reported, value.....		433,233		39,711
Refrigerating and ice-making machines, commercial and industrial. Reported as using motors rated at 1 horsepower or more for 1939, and 1 ton or more of refrigeration for 1937:				
Less than 10 horsepower (10 tons for 1937)—				
Number reported.....	6,218	2,762,808	10,195	4,889,752
Number not reported, value.....		202,889		559,903
More than 10 horsepower (10 tons for 1937)—				
Number reported.....	1,803	3,506,780	1,784	3,891,483
Number not reported, value.....		60,000		192,838
Compressors made for sale separately.....	11,490	896,458		1,405,604
Evaporators made for sale separately.....	39,506	1,600,881		509,724
Air-conditioning equipment:				
Systems for installation in room or rooms to be conditioned—				
Self-contained (portable) units shipped substantially complete—				
Number reported.....	27,617	5,551,126		
Number not reported, value.....		1,336,147		
Not self-contained (shipped in sections), including refrigerating or cooling mechanism—			(2)	(2)
Number reported.....	7,121	442,613		
Number not reported, value.....		283,711		
Central-station systems, including refrigerating or cooling mechanism (excluding installation), for human comfort.....	1,785	3,713,414		
Condensing units (high sides) for air-conditioning.....	4,360	2,635,774	7,555	5,818,804
Evaporators for air-conditioning—				
Number reported.....	7,997	1,601,607	17,740	1,130,392
Number not reported, value.....		260,798		
Cabinets, display cases, etc., for mechanical refrigerators, made for sale separately—				
Domestic (household)—				
Capacity under 6 cubic feet—				
Number reported.....	73,928	1,721,353		
Number not reported, value.....		113,543	520,097	17,163,000
6 cubic feet or more—				
Number reported.....	274,205	8,541,867		
Number not reported, value.....		60,000		
Commercial—				
Refrigerator cabinets—				
Number reported.....	20,369	4,229,734	45,409	5,736,739
Number not reported, value.....		838,654		1,780,535
Display, storage, etc., cases—				
Number reported.....	24,851	10,218,152	20,958	13,417,577
Number not reported, value.....		307,317		2,904,549
Remote fountain or water coolers with low sides—				
Number reported.....	1,552	267,243		
Number not reported, value.....		100,613		
Other—				
Number reported.....	3,921	559,246		3,115,068
Number not reported, value.....		172,899		
Cabinets, etc., not reported by kind or size, value.....		1,058,745		
Refrigerators (ice) and ice boxes—				
Domestic (household)—				
Number reported.....	226,342	4,729,854	394,550	9,920,318
Number not reported, value.....		811,470		61,493
Commercial ice refrigerators, water coolers, milk coolers, food display cases, etc.—				
Number reported.....	128,944	4,014,878		5,353,970
Number not reported, value.....		1,117,908		
All other, including absorption type refrigerators, air-conditioning equipment for industrial use, and parts for all refrigeration machinery, value.....		33,011,533		53,601,920

1 Data incomplete.

2 Includes 51 machines using motors rated at 100 horsepower or over for 1939, and 33 rated at 100 tons or over for 1937.

3 "Air-conditioning equipment" included with figures for "All other, including absorption-type refrigerators, air-conditioning equipment for industrial use, and parts for all refrigeration machinery," for 1937.

4 Includes 118 cabinets of 10 cubic feet or more.

5 Combined to avoid disclosing data for individual establishments.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	35,100	31,780	36,603	40,722	42,245	39,308	37,488	35,378	31,851	29,113	30,781	31,824	34,784
1937.....	50,623	48,053	52,256	55,681	57,100	57,154	52,319	51,975	49,423	44,364	45,959	45,726	40,571
California.....	008	577	655	707	753	708	801	750	703	677	667	640	649
Colorado.....	27	24	24	25	28	28	30	32	30	29	25	24	24
Georgia.....	272	269	260	269	270	271	271	275	274	278	278	274	274
Illinois.....	814	653	773	877	960	1,003	1,039	1,002	751	666	660	628	754
Indiana.....	6,059	5,004	6,015	7,014	7,189	6,622	6,572	6,259	5,071	4,231	5,705	6,080	6,350
Maryland.....	110	120	140	143	156	157	154	143	57	50	55	50	86
Massachusetts.....	42	29	33	38	37	51	57	50	44	44	40	39	39
Michigan.....	6,821	6,147	7,637	9,111	9,531	8,236	6,984	6,425	5,011	5,001	4,900	5,579	7,200
Minnesota.....	1,744	1,842	2,093	1,941	2,180	1,793	1,798	1,557	1,470	1,538	1,531	1,402	1,699
Missouri.....	741	659	718	822	837	842	806	773	765	685	552	652	718
New Jersey.....	583	588	576	572	589	579	583	582	570	582	584	595	592
New York.....	1,754	1,339	1,570	1,833	2,035	2,198	2,358	2,039	1,739	1,602	1,471	1,384	1,483
North Carolina.....	25	23	24	25	25	25	26	29	28	23	23	24	24
Ohio.....	9,831	9,552	10,434	11,209	11,228	10,371	9,703	9,535	9,424	8,508	9,226	9,234	9,403
Oregon.....	35	28	31	41	39	42	41	31	34	32	32	33	31
Pennsylvania.....	4,024	3,555	4,028	4,335	4,602	4,552	4,400	4,253	3,711	3,714	3,660	3,696	3,788
Tennessee.....	408	304	419	434	494	510	442	473	440	405	307	271	352
Texas.....	302	242	261	286	314	351	347	320	314	299	290	290	303
Washington.....	36	28	34	33	38	41	39	39	39	34	33	39	38
Wisconsin.....	447	400	447	401	494	452	476	440	418	394	438	437	466

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	309
Reporting expenditures for plant and equipment.....	170
Value of products:	
Total for the industry.....	\$278,645,540
Reporting expenditures for plant and equipment.....	261,768,613
Expenditures for plant and equipment:	
Total for the industry.....	4,226,904
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	791,352
Expenditures for new machinery and operating equipment.....	3,263,254
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	172,298

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$62,671,305	\$57,761,325
Finished products.....	35,507,020	31,741,531
Materials, supplies, etc.....	27,164,279	26,019,794
End of year, total.....	66,543,073	72,965,125
Finished products.....	34,607,587	40,200,128
Materials, supplies, etc.....	31,935,486	32,764,997
Value of products for the industry, total.....	278,645,540	363,788,412
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	278,186,885	362,213,431
Value for establishments not reporting inventories.....	458,655	1,574,981

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	309
Number of establishments reporting power equipment.....	309
Prime movers, aggregate:	
Number.....	40
Horsepower.....	11,355

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators, total—	
Number.....	25
Horsepower.....	10,546
Steam engines—	
Number.....	15
Horsepower.....	5,461
Steam turbines—	
Number.....	4
Horsepower.....	4,045
Diesel and semi-Diesel engines—	
Number.....	6
Horsepower.....	1,040
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2,740
Prime movers not driving generators, total—	
Number.....	15
Horsepower.....	819
Steam engines—	
Number.....	5
Horsepower.....	445
Steam turbines—	
Number.....	9
Horsepower.....	340
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	25
Generators, kilowatt rating, total.....	7,551
Generators, driven by—	
Steam engines, kilowatt rating.....	3,750
Steam turbines, kilowatt rating.....	3,017
Diesel and semi-Diesel engines, kilowatt rating.....	784
Generators, ordinarily idle (included above), kilowatt rating.....	1,842
Electric motors, total:	
Number.....	27,594
Horsepower.....	148,251
Driven by purchased energy—	
Number.....	25,918
Horsepower.....	139,463
Driven by energy generated in establishments reporting—	
Number.....	1,646
Horsepower.....	8,788
Electric energy (kilowatt-hours):	
Generated in plant.....	8,222,053
Sold.....	8,240
Purchased.....	209,734,492

¹ No comparable data available for 1929.

Group 18.—AUTOMOBILES AND AUTOMOBILE EQUIPMENT

Description of the group of industries.—This group includes two industries: "Motor vehicles, motor-vehicle bodies, parts and accessories" and "Automobile trailers (for attachment to passenger cars)." For a detailed explanation of the scope of each of these industries, see pages 524 and 530. Prior to the 1939 Census of Manufactures the manufacture or assembly of motor vehicles and the manufacture of bodies, parts, and accessories (including all motor-vehicle trailers) were treated as separate industries. To obtain figures comparable with those for 1939, the statistics for these industries for previous years have been combined.

Cost of materials and value of products.—The figures for cost of materials and the figures for value of products

for this group of industries include considerable duplication due to the fact that the products of establishments engaged in the manufacture of bodies, parts, and accessories are to a great extent consumed by other establishments in the manufacture of subassemblies and complete vehicles. To the extent that this condition exists, the published figures for cost of materials, etc., exceed the actual net cost of materials and the published figures for total value of products exceed the actual net value of products. The figures for "Value added by manufacture" contain no duplication and are therefore more significant and of greater statistical value, than the figures for "Cost of materials" and the figures for "Value of products."

SUMMARY FOR GROUP 18.—AUTOMOBILES AND AUTOMOBILE EQUIPMENT, 1904 TO 1939, AND FOR INDIVIDUAL INDUSTRIES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939.....	1,133	398,963	\$646,405,891	\$2,725,396,316	\$4,047,872,729	\$1,322,476,413	853,072
1937 ⁵	1,070	511,535	807,026,824	3,710,918,904	5,292,795,428	1,681,876,524	(⁶)
1937 ⁵	1,067	479,841	750,081,073	3,609,342,422	5,176,230,367	1,506,893,945	(⁶)
1935.....	946	397,801	545,414,168	2,819,872,742	3,942,014,123	1,122,141,381	(⁶)
1933.....	823	243,614	252,106,407	1,204,954,594	1,852,980,287	648,026,693	(⁶)
1931.....	1,118	285,515	350,526,346	1,561,351,386	2,512,933,020	951,581,634	(⁶)
1929.....	1,398	447,448	733,082,618	3,258,497,400	5,200,723,067	2,002,225,067	365,866
1927.....	1,477	369,399	612,955,061	2,530,732,811	3,999,869,208	1,469,136,397	361,598
1925.....	1,655	420,110	713,931,334	2,970,913,263	4,721,402,550	1,750,489,293	363,357
1923.....	2,471	404,886	659,877,336	2,711,570,577	4,176,440,284	1,464,869,707	273,053
1921.....	2,359	212,777	318,752,665	1,321,026,902	2,079,403,508	758,376,606	(⁶)
1919.....	2,830	343,115	401,121,373	1,940,673,876	3,080,073,970	1,139,395,103	159,705
1914.....	1,271	127,092	101,926,874	358,207,930	632,831,474	276,623,644	70,719
1909.....	743	76,721	48,693,867	131,646,736	249,202,075	117,556,339	46,612
1904 ⁸	178	12,049	7,153,953	13,151,365	30,033,530	16,832,171	8,915
INDUSTRY							
SUMMARY FOR INDIVIDUAL INDUSTRIES							
MOTOR VEHICLES, MOTOR-VEHICLE BODIES, PARTS AND ACCESSORIES:							
1939.....	1,054	397,537	\$644,904,621	\$2,720,561,158	\$4,039,930,733	\$1,319,369,575	853,672
1937 ⁵	985	508,341	803,415,641	3,703,740,896	5,279,696,851	1,575,955,955	(⁶)
AUTOMOBILE TRAILERS (FOR ATTACHMENT TO PASSENGER CARS):							
1939.....	79	1,426	1,501,270	4,835,158	7,941,906	3,106,833	-----
1937.....	86	2,992	3,610,183	7,178,008	13,098,577	5,920,569	(⁶)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Cost of contract work is included in the figures for 1939, 1937, and 1935, but not for prior years.

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

⁵ The 1937 figures shown in *italics* are comparable with the statistics for 1939 and include data for 3 establishments which were originally classified in another group for 1937 and previous years but which have now been reclassified in this group. The roman-type figures for 1937 do not include data for these 3 establishments and are comparable with the statistics for prior years.

⁶ Not called for on schedule.

⁷ Data not available.

⁸ No comparable data are available for years prior to 1904.

⁹ The 1937 figures include data for 3 establishments which were originally classified in other industries for 1937 and previous years but which have now been transferred to this industry, effective with 1937. Data for the 86 establishments which in 1937 were primarily engaged in the manufacture of passenger-car trailers have been excluded.

AUTOMOBILES AND AUTOMOBILE EQUIPMENT

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GROUP 18.—AUTOMOBILES AND AUTOMOBILE EQUIPMENT—GENERAL STATISTICS IN DETAIL, BY INDUSTRIES:¹ 1939

ITEM	Total for the group	1910	1920	ITEM	Total for the group	1910	1920
Number of establishments ²	1,133	1,054	70	Salaries and wages—Continued.			
Proprietors and firm members.....	564	493	71	Manufacturing:			
Persons reported by manufacturing industries, total ³	460,419	458,723	1,696	Salaries ⁴	\$104,736,614	\$104,570,620	\$165,988
Salaried officers of corporations ⁵	1,327	1,281	46	Wages.....	640,403,891	644,904,621	1,501,270
Manufacturing:				Distribution.....	29,856,934	20,727,848	129,080
Salaried employees ⁵	44,884	44,753	131	Construction.....	640,137	639,553	584
Wage earners (average for the year) ⁴	398,003	397,537	1,426	Other.....	1,373,210	1,371,414	1,796
Distribution.....	14,143	14,054	89	Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	2,725,390,310	2,720,561,158	4,835,158
Construction.....	307	306	1	Materials and supplies.....	2,639,294,529	2,634,539,850	4,754,079
Other.....	795	792	3	Fuel.....	18,775,888	18,749,074	26,814
Salaries and wages, total ⁵	\$793,484,209	\$791,483,980	\$2,000,229	Purchased electric energy.....	16,084,145	16,645,374	38,771
Salaried officers ⁵	10,471,423	10,269,918	201,505	Contract work.....	50,041,754	50,620,800	14,894
				Value of products.....	4,047,872,729	4,039,930,733	7,941,996
				Value added by manufacture ⁵	1,322,476,413	1,319,369,575	3,106,838

¹ The numbers at the head of the columns represent the following industries: 1910, Motor Vehicles, Motor-Vehicle Bodies, Parts and Accessories; 1920, Automobile Trailers (for Attachment to Passenger Cars).

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

SPECIAL SUMMARY FOR ESTABLISHMENTS CLASSIFIED IN THE "MOTOR VEHICLES, MOTOR-VEHICLE BODIES, PARTS AND ACCESSORIES" INDUSTRY, ESTABLISHMENTS CLASSIFIED IN THE "AUTOMOBILE TRAILERS (FOR ATTACHMENT TO PASSENGER CARS)" INDUSTRY, AND SUBSIDIARY PLANTS OF MOTOR-VEHICLE MANUFACTURERS CLASSIFIED IN OTHER INDUSTRIES BUT ALLIED WITH AUTOMOBILE AND AUTOMOBILE EQUIPMENT OPERATIONS: 1939

ITEM	Total	"Motor vehicles, motor-vehicle bodies, parts and accessories" industry	"Automobile trailers (for attachment to passenger cars)" industry	Subsidiary plants of motor-vehicle manufacturers ¹	ITEM	Total	"Motor vehicles, motor-vehicle bodies, parts and accessories" industry	"Automobile trailers (for attachment to passenger cars)" industry	Subsidiary plants of motor-vehicle manufacturers ¹
Number of establishments ²	1,181	1,054	70	48	Salaries and wages—Continued.				
Proprietors and firm members.....	564	493	71	-----	Manufacturing:				
Persons reported by manufacturing establishments, total ³	491,952	458,723	1,696	31,533	Salaries ⁴	\$110,832,488	\$104,570,620	\$165,988	\$0,095,874
Salaried officers of corporations ⁵	1,332	1,281	46	5	Wages.....	687,076,002	644,904,621	1,501,270	41,573,111
Manufacturing:					Distribution.....	31,461,062	29,727,848	129,080	1,004,128
Salaried employees ⁵	47,434	44,753	131	2,550	Construction.....	667,097	639,553	584	53,960
Wage earners (average for the year) ⁴	427,128	397,537	1,426	28,165	Other.....	1,433,808	1,371,414	1,796	60,598
Distribution.....	14,880	14,054	89	737	Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	2,825,745,910	2,720,561,158	4,835,158	100,349,594
Construction.....	330	306	1	23	Materials and supplies.....	2,733,218,842	2,634,539,850	4,754,079	93,924,313
Other.....	848	792	3	53	Fuel.....	23,854,707	18,749,074	26,814	5,078,879
Salaries and wages, total ⁵	\$842,878,083	\$791,483,980	\$2,000,229	\$49,394,774	Purchased electric energy.....	18,030,547	16,645,374	38,771	1,340,402
Salaried officers ⁵	10,505,526	10,269,918	201,505	34,103	Contract work.....	50,041,754	50,620,800	14,894	-----
					Value of products.....	4,256,462,422	4,039,930,733	7,941,999	208,589,093
					Value added by manufacture ⁵	1,430,716,512	1,319,369,575	3,106,838	108,240,099

¹ Includes data for only those subsidiary plants of motor-vehicle manufacturers making as their major products items which are used in the construction of motor vehicles or motor-vehicle parts but which are classified in industries outside the Automobiles and Automobile Equipment group, such as the Lighting Fixtures industry; the Automotive Electrical Equipment industry; the Batteries, Storage and Primary (Dry and Wet) industry; the Flat Glass industry; the Tires and Inner Tubes industry; the Springs, Steel (Except Wire) industry; etc. Does not include data for any plants of motor-vehicle manufacturers whose products are not primarily related to motor vehicles.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

MOTOR VEHICLES, MOTOR-VEHICLE BODIES, PARTS AND ACCESSORIES

[Preliminary report for this industry was issued November 13, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture or assembly of complete motor vehicles, motor-vehicle chassis, bodies, and such parts and accessories as gears, wheels, radiators, bumpers, shock absorbers, frames, horns, windshield wipers, etc., and trailers for motor trucks and truck tractors. This industry does not include establishments manufacturing tires and tubes, springs, ignition apparatus, batteries, starting and lighting equipment, headlights, sheet-metal stampings, hardware, etc. (Establishments manufacturing these products are classified for census purposes in other industries.) The manufacture of motorcycles is included in the Motorcycles, Bicycles, and Parts industry.

Prior to the 1939 Census of Manufactures the manufacture or assembly of motor vehicles and the manufacture of bodies, parts, and accessories (including all trailers) were treated as separate industries. To obtain figures comparable with those for 1939, the statistics for 1937 have been combined; data for establishments primarily engaged in the manufacture of passenger-car trailers have been deducted for 1937.

Cost of materials and value of products.—The figures for cost of materials, supplies, etc., and the figures for value of products for the industry include considerable duplication due to the fact that the products of establishments engaged in the manufacture of bodies, parts, and accessories are to a great extent consumed by other establishments in the industry in the manufacture of subassemblies and complete vehicles. To the extent that this condition exists, the published figures for cost of materials, etc., exceed the actual net cost of materials and the published figures for total value of products exceed the actual net value of products. In an effort to eliminate as much of the duplication as practicable, companies operating two or more motor-vehicle or parts plants in the same city were permitted to file combined reports for such plants for 1939. As a result, a considerable portion of the duplication existing in the figures for earlier years has been eliminated for 1939. The figures for "Value added by manufacture" contain no duplication and therefore are more significant and of greater statistical value than the figures for "Cost of materials" and "Value of products."

Values of cars and other products.—Establishments classified in this industry were instructed, in reporting values for 1939, to furnish "net wholesale selling values at the plant covered by the report (based on average

net wholesale selling prices or on the prices at which invoiced to a separate selling department) of all products manufactured, processed, or assembled in this plant during the year." In reporting values for 1937 manufacturers were instructed to furnish "net selling prices, not merely the cost of production, at the plant (based on average net f. o. b. factory prices or on the prices at which invoiced to a separate selling department) of all products manufactured, processed, or assembled by you within the year covered by this report." Federal excise taxes are included in the reported values of products and in the figures for cost of materials.

Motor-vehicle factory sales.—Factory sales of motor vehicles in 1939, compiled from manufacturers' monthly reports to the Bureau of the Census, amounted to 3,577,292 vehicles and chassis, 52,461 in excess of the Biennial Census figure of 3,524,831. This difference is largely accounted for by the fact that the monthly figures include foreign assemblies from parts made in the United States whereas some manufacturers, in making their Biennial Census returns, report, as such, parts used in foreign assemblies. Moreover, the monthly figures represent factory sales while the Biennial Census figures refer to production. In addition, the returns made by some of the establishments for the Biennial Census cover fiscal or business years while the monthly data are reported on a calendar-year basis in all cases.

Motor-vehicle registrations.—Figures on motor-vehicle registrations, by States, are published by the Public Roads Administration, Federal Works Agency.

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

CEN- SUS YEAR	Num- ber of estab- lish- ments ¹	Wage earners (aver- age for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufac- ture ³	Horse- power of prime movers
1939...	1,054	397,537	\$644,904,621	\$2,720,561,158	\$4,039,930,733	\$1,319,369,575	863,672
1937...	985	508,341	\$803,416,641	3,703,740,896	5,279,896,851	1,575,955,955	(4)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ The 1937 figures shown are comparable with the 1939 statistics and exclude data for 85 establishments which in 1937 were primarily engaged in manufacturing trailers for passenger cars. They include data for 3 establishments which were originally classified in other industries for 1937 and previous years but which have now been transferred to this industry.

⁵ Not called for on schedule.

MOTOR VEHICLES, BODIES, PARTS AND ACCESSORIES

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

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

ITEM	United States	Alabama	Arkansas	California	Colorado	Connecticut	Delaware	Illinois
Number of establishments ¹	1,054	5	5	85	8	12	3	97
Proprietors and firm members	493	3	4	85	6	4	1	32
Persons reported by manufacturing establishments, total ²	458,723	95	62	7,567	187	1,024	19	9,333
Salaried officers of corporations ³	1,281	5	3	49	6	23	5	147
Manufacturing:								
Salaried employees ³	44,763	15	3	805	23	122		804
Wage earners (average for the year) ³	397,537	66	54	6,162	120	860	14	7,302
Distribution	14,054	9	2	521	9	19		987
Construction	306			25				20
Other	792			15				13
Salaries and wages, total ³	\$791,483,980	\$95,494	\$78,194	\$12,020,188	\$227,350	\$1,355,406	\$24,397	\$14,433,201
Salaried officers ³	10,269,918	9,744	24,000	315,722	10,330	191,725	8,680	927,862
Manufacturing:								
Salaries ³	104,570,026	18,176	6,716	1,716,499	32,823	193,402		1,620,954
Wages	644,904,621	50,254	45,704	9,440,307	154,351	908,376	15,717	9,749,692
Distribution	20,727,848	10,625	1,774	1,065,820	20,846	61,003		2,086,008
Construction	639,553	685		65,522				25,306
Other	1,371,414			25,318				23,379
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	2,720,591,158	206,173	287,028	90,060,109	281,540	1,012,205	29,078	61,093,790
Materials and supplies	2,634,539,850	201,634	280,872	89,285,318	272,902	1,500,946	28,341	60,434,182
Fuel	18,749,074	360	721	122,720	2,699	24,215	701	294,744
Purchased electric energy	16,645,374	4,189	5,435	252,071	6,039	27,044	630	364,864
Contract work	50,628,860			(⁴)	(⁴)	(⁴)		(⁴)
Value of products	4,039,930,733	367,224	398,300	118,691,342	668,181	4,025,027	65,121	88,845,130
Value added by manufacture ⁵	1,319,369,575	161,051	111,362	28,031,233	386,641	2,413,422	35,443	27,751,340

ITEM	Indiana	Iowa	MICHIGAN			Nebraska	New Jersey	New York
			The State	City of Detroit	Remainder of State			
Number of establishments ¹	66	9	189	91	98	4	38	119
Proprietors and firm members	14	4	37	16	21	4	7	61
Persons reported by manufacturing establishments, total ²	31,899	151	286,477	107,147	179,330	17	11,223	19,074
Salaried officers of corporations ³	105	7	249	135	114		50	140
Manufacturing:								
Salaried employees ³	3,844	13	25,699	11,440	14,160	1	1,170	2,158
Wage earners (average for the year) ³	26,756	126	253,917	92,075	161,242	16	8,079	16,077
Distribution	1,060	5	5,955	2,440	3,515		1,018	659
Construction	61		82	70	12		3	32
Other	73		665	378	287		3	8
Salaries and wages, total ³	\$52,256,555	\$168,708	\$511,572,369	\$193,232,482	\$318,339,887	\$16,783	\$18,528,743	\$26,004,758
Salaried officers ³	956,164	26,786	3,247,098	2,049,140	1,198,840		231,172	770,887
Manufacturing:								
Salaries ³	7,565,958	18,509	65,351,114	29,356,144	35,994,970	1,770	2,406,076	4,400,907
Wages	41,030,011	111,906	429,208,645	155,730,837	273,477,808	15,013	13,994,272	23,178,451
Distribution	2,505,046	11,507	12,406,410	5,277,844	7,128,566		1,886,234	1,413,579
Construction	88,033		171,841	147,399	24,442		9,000	130,570
Other	110,443		1,186,361	671,109	515,252		1,989	10,274
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	156,536,126	347,188	1,513,145,810	578,740,007	934,405,812	21,465	84,104,914	135,332,505
Materials and supplies	153,581,160	339,538	1,490,850,557	569,651,535	921,190,022	20,298	83,188,812	133,852,344
Fuel	1,683,304	2,514	12,380,528	4,748,588	7,631,940	177	475,753	651,713
Purchased electric energy	1,271,662	5,136	6,914,734	4,339,884	5,574,850	990	440,349	828,448
Contract work	(⁴)		(⁴)	(⁴)	(⁴)		(⁴)	(⁴)
Value of products	252,684,069	627,782	2,284,666,538	826,722,676	1,457,943,862	48,305	112,425,824	197,884,816
Value added by manufacture ⁵	96,147,943	280,594	771,520,719	247,982,660	523,538,050	26,840	28,320,910	62,552,811

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

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

ITEM	North Carolina	Ohio	Oregon	Pennsylvania	Washington	Wisconsin	Other States ¹
Number of establishments ¹	9	101	11	66	17	38	172
Proprietors and firm members.....	6	34	10	43	17	13	108
Persons reported by manufacturing establishments, total ²	434	35,629	208	16,122	465	16,963	21,795
Salaried officers of corporations ²	11	104	4	116	9	69	119
Manufacturing:							
Salaried employees ²	30	4,553	12	1,983	34	1,818	1,756
Wage earners (average for the year) ³	376	29,841	183	13,613	350	14,317	18,350
Distribution.....	17	1,036	8	409	72	710	1,653
Construction.....		29				49	5
Other.....		6	1	1			7
Salaries and wages, total ²	\$421,224	\$59,506,674	\$320,790	\$24,729,415	\$782,046	\$28,853,417	\$35,578,618
Salaried officers ²	32,175	1,499,840	24,100	732,528	42,540	562,450	646,209
Manufacturing:							
Salaries ²	51,330	9,530,390	20,842	3,562,723	79,714	3,983,331	4,009,236
Wages.....	310,149	46,209,080	263,199	19,515,731	520,230	22,820,790	27,556,153
Distribution.....	27,564	2,222,273	11,869	910,847	140,102	1,385,004	3,553,477
Construction.....		37,481				101,652	9,203
Other.....		7,004	780	1,580			4,280
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	1,111,566	172,046,143	508,251	69,641,908	1,539,397	110,106,740	321,343,613
Materials and supplies.....	\$ 1,098,446	\$ 189,848,611	\$ 498,887	\$ 68,565,806	\$ 1,529,253	\$ 108,733,451	\$ 310,905,362
Fuel.....	2,890	1,137,819	1,514	403,310	2,182	686,613	814,682
Purchased electric energy.....	10,224	1,659,713	7,850	612,783	7,902	680,676	538,569
Contract work.....	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Value of products.....	1,740,054	285,681,412	919,160	108,424,041	2,350,341	162,080,052	417,336,424
Value added by manufacture ⁵	623,458	113,035,269	410,909	38,782,133	810,944	51,974,212	95,087,811

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Cost of contract work, \$50,626,860, not included in figure for "Materials and supplies."⁵ Data for contract work withheld to avoid disclosing, exactly or approximately, data reported by individual establishments; included in figure for "Materials and supplies."⁶ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁷ Arizona, 1 establishment; District of Columbia, 2; Florida, 3; Georgia, 9; Kansas, 5; Kentucky, 6; Louisiana, 5; Maine, 2; Maryland, 13; Massachusetts, 21; Minnesota, 26; Mississippi, 2; Missouri, 30; New Hampshire, 2; Oklahoma, 2; Rhode Island, 5; South Carolina, 2; Tennessee, 3; Texas, 24; Utah, 1; Vermont, 1; Virginia, 6; West Virginia, 2.

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

	1939	1937
Motor Vehicles, Motor-Vehicle Bodies, Parts and Accessories industry, all products, total value.....	\$4,030,930,733	¹ \$5,279,696,851
Motor vehicles, motor-vehicle bodies, parts and accessories made in this industry.....	3,744,753,863	1 4,936,133,740
Miscellaneous products not specified.....	33,343,933	1 45,432,095
Scrap and salable refuse.....	15,093,108	
Receipts for contract and repair work.....	32,256,188	26,564,288
Other products (not classified in this industry).....	² 214,483,641	¹ 271,566,722
Motor vehicles, motor-vehicle bodies, parts and accessories, total value.....	\$3,776,404,407	\$4,983,010,991
Motor vehicles, motor-vehicle bodies, parts and accessories made in this industry.....	3,744,753,863	1 4,936,133,740
Motor vehicles, motor-vehicle bodies, parts and accessories made as secondary products in other industries:		
In the "Automobile trailers (for attachment to passenger cars)" industry.....	150,711	
In industries outside the "Automobiles and automobile equipment" group.....	31,499,893	1 40,877,245

¹ Revised.² Value of castings, hardware, dies, jigs, fixtures, electrical products, forgings, carburetors, aircraft parts, etc.

MOTOR VEHICLES, BODIES, PARTS AND ACCESSORIES

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

PRODUCT	1939	1937
Total value.....	\$3,776,404,467	\$4,983,010,991
Motor vehicles and chassis:		
Total number.....	3,524,831	4,732,553
Total value.....	\$2,275,254,400	\$2,848,786,150
Passenger cars including taxicabs—		
Number.....	2,824,203	3,849,570
Value.....	\$1,709,502,953	\$2,207,771,254
Commercial-type vehicles, including commercial cars and trucks, motorbusses, truck tractors, and other commercial vehicles and apparatus except ambulances, hearses, undertakers' wagons, and fire-department apparatus—		
Number.....	440,762	614,576
Value.....	\$303,687,040	\$410,050,421
Ambulances, hearses, and undertakers' wagons—		
Number.....	2,840	3,071
Value.....	\$0,427,015	\$7,361,120
Fire-department apparatus—		
Number.....	955	985
Value.....	\$5,000,408	\$5,807,071
Passenger chassis—		
Number.....	21,227	30,423
Value.....	\$6,806,802	\$12,703,960
Commercial chassis (including bus chassis)—		
Number.....	234,844	227,022
Value.....	\$153,133,003	\$116,025,424
Trailers for motor trucks and truck tractors, total value.....	\$28,584,457	\$17,577,488
Number reported:		
Number.....	26,179	21,747
Value.....	\$28,034,251	\$17,360,487
Number not reported, value.....	\$550,206	\$211,001
Motor-truck trailer (supported entirely on own wheels):		
Number.....	1,514	2,789
Value.....	\$1,005,338	\$2,037,857
Semitrailers (partly supported by truck tractors):		
Number reported—		
Number.....	23,707	18,958
Value.....	\$25,785,681	\$14,728,030
Number not reported, value.....	\$05,269	\$130,184
Motor-truck trailers and semitrailers not reported as to kind or number, value.....	\$484,937	\$80,817
Chassis for motor-truck trailers and semitrailers:		
Number.....	399	(2)
Value.....	\$420,919	(2)
Spicers' tool carts and pole trailers:		
Number.....	559	(2)
Value.....	\$123,313	(2)
Motor-vehicle bodies and motor-vehicle parts, value.....	\$1,472,565,520	\$2,116,047,353

¹ Includes \$38,796,150 factory-installed extra equipment for 1939. The amount of such equipment included in the 1937 figure is not available. ² Not called for separately for 1937. ³ May include some trailers for other than highway use.

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

[These 1939 data represent the first statistics published by the Bureau of the Census on the consumption of selected materials in the "Motor vehicles, motor-vehicle bodies, parts and accessories" industry]

KIND	QUANTITY AND COST REPORTED		Quantity only reported	Quantity not reported, cost
	Quantity	Cost		
Pig iron.....	Long tons 358,020	\$7,952,207	Long tons	\$1,847
Iron and steel scrap, excluding "home" or "plant" scrap produced and reworked in the same plant during the year.....	342,261	4,279,711		402
Castings (except nonferrous):				
Steel.....	57,810	3,559,307	300	1,181,543
Gray-iron, including semisteel.....	Short tons 920,038	79,150,076	Short tons 1,785	244,099
Malleable-iron.....	147,812	18,345,155		33,069
Iron and steel, except alloy and stainless:				
Bars, rods, and small shapes.....	625,522	40,072,922	460	441,551
Plates.....	60,899	2,047,997	7,518	312,423
Structural shapes.....	230,840	13,965,472		197,271
Sheets and strip.....	3,001,281	149,202,773	25	1,204,273
Alloy steel, except stainless:				
Bars, rods, and small shapes.....	465,202	28,776,265	290	13,328
Plates, sheets, and strip.....	24,634	2,077,289	20	16,702
Other alloy steel, except stainless.....	84,788	7,563,280		10,542
Stainless steel.....	10,256	5,285,327		71,690
Iron and steel pipe and tubing.....	56,290	6,907,669	50	1,676,353
Steel forgings.....	426,030	44,665,873	2,006	10,107,066
Castings, nonferrous.....	Pounds 44,652,542	10,925,983		161,155
Aluminum bars, plates, and sheets.....	12,136,510	3,171,000		53,699
Other nonferrous bars, plates, and sheets.....	103,958,294	16,910,586		140,075

¹ The establishments which reported data on consumption of the selected materials accounted for 78 percent of the total value of products for the industry. In addition to the data included in the table, 46,491 tons (long or short tons not specified), costing \$1,884,647, and materials (quantity not given), costing \$6,735,765, were reported in combination for the following items: Iron and steel, except alloy and stainless; alloy steel, except stainless; stainless steel; iron and steel pipe and tubing; steel forgings and castings. The greater portion of the cost shown for items in combination consisted of "Iron and steel, except alloy and stainless."

CENSUS OF MANUFACTURES: 1939

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	397,537	423,497	415,180	411,603	403,975	387,784	367,326	311,617	294,224	410,875	444,161	418,077	482,180
1937 ¹	508,341	509,289	525,892	539,018	544,600	550,578	541,021	511,417	477,804	427,876	507,852	510,342	453,808
Alabama.....	66	51	55	56	63	64	63	67	69	109	68	69	84
Arkansas.....	54	40	53	47	50	43	51	65	71	67	53	52	50
California.....	6,162	7,770	7,113	6,428	6,353	5,461	5,370	4,388	3,186	5,378	7,110	7,246	8,021
Colorado.....	129	137	105	103	125	108	129	141	168	161	123	123	127
Connecticut.....	800	674	702	744	813	825	756	759	935	991	1,155	1,111	855
Delaware.....	14	12	12	12	12	14	19	10	19	16	12	13	12
Florida.....	48	48	53	46	44	40	43	42	45	48	60	60	40
Georgia.....	1,650	1,700	1,688	1,690	1,721	1,690	1,690	1,752	856	1,050	1,908	2,067	1,984
Illinois.....	7,362	6,994	6,806	6,976	7,049	6,826	6,737	6,708	7,061	7,730	8,303	8,051	8,504
Indiana.....	26,766	26,862	26,614	27,250	26,695	25,417	25,280	23,300	24,202	28,969	30,117	24,217	32,235
Iowa.....	126	116	115	115	126	127	126	121	124	125	123	143	152
Kansas.....	181	139	140	163	174	134	146	158	140	179	188	278	322
Kentucky.....	1,230	1,210	1,222	1,227	1,245	1,161	1,123	1,139	1,140	970	1,351	1,432	1,535
Louisiana.....	203	220	202	220	218	172	232	228	194	186	218	178	196
Maryland.....	1,728	1,901	1,898	1,913	1,918	1,903	1,898	1,845	413	774	1,878	2,182	2,215
Massachusetts.....	1,249	1,143	1,112	1,126	1,214	1,279	1,184	1,132	1,168	1,119	1,380	1,530	1,606
Michigan.....	253,017	277,163	271,386	267,527	260,985	249,499	231,511	189,555	179,031	271,255	282,839	256,593	309,657
Minnesota.....	1,166	1,089	1,085	1,078	1,094	1,098	1,111	1,112	648	1,193	1,431	1,539	1,515
Missouri.....	6,994	7,670	7,578	7,410	7,378	6,700	6,545	6,527	3,157	4,895	7,794	9,109	9,171
Nebraska.....	16	14	15	18	18	20	16	13	14	15	15	15	15
New Jersey.....	8,979	9,140	9,754	8,720	8,825	8,665	8,503	5,669	5,838	8,861	10,680	11,485	11,608
New York.....	16,077	16,707	16,185	15,789	15,680	15,448	14,784	14,356	12,025	14,642	18,115	19,301	19,799
North Carolina.....	376	242	250	244	240	254	363	601	689	661	326	313	320
Ohio.....	29,841	30,626	29,263	30,512	29,904	29,410	28,528	24,874	24,916	29,276	32,757	33,674	34,457
Oregon.....	183	152	155	185	198	219	239	193	196	186	164	155	150
Pennsylvania.....	13,613	12,651	12,605	13,124	13,180	13,180	12,987	12,897	12,922	13,593	15,021	15,337	15,857
Rhode Island.....	169	144	147	149	152	148	153	152	178	190	153	227	231
Tennessee.....	1,016	1,055	1,070	983	866	870	875	876	887	976	1,189	1,274	1,270
Texas.....	1,327	1,347	1,341	1,342	1,346	1,175	1,175	1,183	1,229	1,264	1,458	1,519	1,543
Virginia.....	1,094	1,209	1,078	1,055	1,064	955	956	948	939	1,020	1,234	1,339	1,337
Washington.....	350	216	245	305	346	360	380	427	472	451	340	325	318
Wisconsin.....	14,317	14,810	14,852	14,752	14,664	14,194	14,028	10,043	10,951	14,224	16,311	16,264	16,712

¹ No strictly comparable figures available for 1929.

MOTOR VEHICLES, BODIES, PARTS AND ACCESSORIES

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TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	1,054
Reporting expenditures for plant and equipment	665
Value of products:	
Total for the industry	\$4,039,930,733
Reporting expenditures for plant and equipment	4,008,409,257
Expenditures for plant and equipment:	
Total for the industry	78,331,170
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	12,941,497
Expenditures for new machinery and operating equipment	62,041,720
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	1,335,763
Expenditures unclassified	12,199

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

	1939	1937
Inventories:		
Beginning of year, total	\$337,062,884	\$405,882,506
Finished products	80,357,361	102,411,245
Materials, supplies, etc.	251,305,823	303,471,321
End of year, total	410,195,717	479,544,692
Finished products	100,947,175	131,604,741
Materials, supplies, etc.	309,248,542	347,840,951
Value of products for the industry, total	4,039,930,733	5,279,006,323
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	4,039,582,110	5,270,906,323
Value for establishments not reporting inventories	348,623	2,790,528

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments	1,054
Number of establishments reporting power equipment	990
Prime movers, aggregate:	
Number	734
Horsepower	853,672
Prime movers, driving generators, total—	
Number	142
Horsepower	738,084
Steam engines—	
Number	40
Horsepower	25,970
Steam turbines—	
Number	72
Horsepower	677,489

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators—Continued.	
Diesel and semi-Diesel engines—	
Number	3
Horsepower	1,065
Other internal-combustion engines ² —	
Number	16
Horsepower	1,417
Hydroturbines and water wheels—	
Number	11
Horsepower	32,143
Prime movers, driving generators, ordinarily idle (included above), horsepower	10,802
Prime movers not driving generators, total—	
Number	592
Horsepower	115,558
Steam engines—	
Number	348
Horsepower	49,796
Steam turbines—	
Number	212
Horsepower	64,291
Diesel and semi-Diesel engines—	
Number	4
Horsepower	235
Other internal-combustion engines ² —	
Number	26
Horsepower	1,151
Hydroturbines and water wheels—	
Number	2
Horsepower	115
Prime movers not driving generators, ordinarily idle (included above), horsepower	17,922
Generators, kilowatt rating, total	502,339
Generators, driven by—	
Steam engines, kilowatt rating	18,351
Steam turbines, kilowatt rating	458,248
Diesel and semi-Diesel engines, kilowatt rating	720
Other internal-combustion engines, ² kilowatt rating	1,120
Hydroturbines and water wheels, kilowatt rating	23,900
Generators, ordinarily idle (included above), kilowatt rating	8,068
Electric motors, total:	
Number	314,515
Horsepower	2,229,525
Driven by purchased energy—	
Number	229,129
Horsepower	1,391,456
Driven by energy generated in establishments reporting—	
Number	85,386
Horsepower	838,069
Electric energy (kilowatt-hours):	
Generated in plant	1,174,419,502
Sold	128,347,153
Purchased	1,420,042,047

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

AUTOMOBILE TRAILERS (FOR ATTACHMENT TO PASSENGER CARS)

[A preliminary report for this industry was issued November 23, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the manufacture or assembly of trailers for passenger cars. Prior to the 1939 Census of Manufactures such establishments were classified in the "Motor-vehicle bodies and motor-vehicle parts" industry, which industry, except for establishments whose major product is passenger-car trailers, is now included in the "Motor vehicles, motor-vehicle bodies, parts and accessories" industry.

In order to obtain figures for 1937 comparable with the 1939 figures for the "Automobile trailers (for attachment to passenger cars)" industry, a special tabulation was made of the 1937 reports showing passenger-car trailers as the major product. For years prior to 1937, however, no adjustment has been made.

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

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	79	1,426	\$1,501,270	\$4,835,158	\$7,941,996	\$3,106,838	-----
1937 ⁴	85	2,692	3,610,183	7,178,008	13,098,577	5,920,569	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

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

⁴ The 1937 figures represent data reported by 85 establishments which in that year were primarily engaged in manufacturing trailers for passenger cars.

⁵ Data not called for on schedule.

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

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

ITEM	United States	California	Illinois	Indiana	Michigan	Oregon	Other States ¹
Number of establishments ²	79	19	7	8	20	3	22
Proprietors and firm members.....	71	25	10	3	12	3	18
Persons reported by manufacturing establishments, total ³	1,696	162	204	512	563	7	267
Salaried officers of corporations ³	46	4	2	12	20	-----	8
Manufacturing:							
Salaried employees ³	131	8	22	26	54	-----	21
Wage earners (average for the year) ⁴	1,426	134	164	448	456	7	216
Distribution.....	89	6	14	26	32	-----	11
Construction.....	1	-----	-----	-----	-----	-----	1
Other.....	3	-----	2	-----	1	-----	-----
Salaries and wages, total ⁵	\$2,000,229	\$167,720	\$229,501	\$605,091	\$739,351	\$6,443	\$262,123
Salaried officers ³	201,505	8,200	3,600	72,014	94,501	-----	23,100
Manufacturing:							
Salaries ³	165,988	11,317	30,597	23,771	72,000	-----	27,343
Wages.....	1,501,270	132,641	156,903	481,938	520,730	6,443	193,606
Distribution.....	129,086	5,562	36,841	27,368	41,015	-----	17,400
Construction.....	584	-----	-----	-----	-----	-----	584
Other.....	1,706	-----	1,560	-----	236	-----	-----
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	4,835,158	416,689	816,292	1,675,272	1,420,037	30,850	476,009
Materials and supplies.....	4,754,679	410,322	800,473	1,666,764	1,382,727	30,574	463,810
Fuel.....	20,814	130	2,090	3,446	16,431	-----	4,717
Purchased electric energy.....	38,771	4,050	5,066	5,062	16,910	210	7,473
Contract work.....	14,804	2,187	8,663	-----	3,969	75	-----
Value of products.....	7,941,996	736,455	1,262,068	2,582,913	2,471,470	55,870	833,220
Value added by manufacture ⁴	3,106,838	310,766	445,776	907,641	1,051,433	25,011	357,211

¹ Colorado, 2 establishments; Florida, 3; Idaho, 1; Maryland, 1; Minnesota, 1; Mississippi, 1; Missouri, 1; New York, 2; Ohio, 1; Oklahoma, 1; Pennsylvania, 2; Texas, 3; Washington, 1; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

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

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

	1939	1937
Automobile Trailers (for Attachment to Passenger Cars) industry, all products, total value.....	\$7,941,996	\$13,098,577
Automobile trailers (for attachment to passenger cars) made in this industry.....	7,585,727	10,028,209
Miscellaneous products not specified.....	81,951	132,732
Receipts for contract and repair work.....	84,800	131,633
Other products (not classified in this industry).....	189,468	2,805,703
Automobile trailers (for attachment to passenger cars), total value.....	7,945,203	10,554,887
Automobile trailers (for attachment to passenger cars) made in this industry.....	7,585,727	10,028,209
Automobile trailers (for attachment to passenger cars) made as secondary products in other industries.....	359,476	526,678

AUTOMOBILE TRAILERS

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

PRODUCT	1939	1937
Total value.....	\$7,045,203	\$10,554,887
Automobile trailers (for attachment to passenger cars) ¹ :		
Number reported—		
Number.....	16,614	24,900
Value.....	\$7,890,868	\$10,503,627
Number not reported, value.....	\$54,335	\$51,260
Coach or house—		
Number reported—		
Number.....	11,782	18,130
Value.....	\$7,503,562	\$9,712,195
Number not reported, value.....		\$51,260
Commercial display—		
Number.....	253	868
Value.....	\$136,700	\$492,207
Other types of passenger-car trailers, including those not reported as to kind—		
Number reported—		
Number.....	4,579	5,002
Value.....	\$250,606	\$290,225
Number not reported, value.....	\$54,335	

¹ Made in the "Automobile trailers (for attachment to passenger cars)" industry, 13,036 units, valued at \$7,585,727; made in the "Motor vehicles, motor-vehicle bodies, parts and accessories" industry, 1,827 units, valued at \$233,637; made in industries outside the "Automobiles and automobile equipment" group, 1,751 units, valued at \$71,504, and an unspecified number of units valued at \$54,335.

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

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

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,426	923	945	1,125	1,308	1,583	1,639	1,700	1,575	1,474	1,518	1,589	1,643
1937.....	2,992	2,989	3,093	3,549	4,351	4,145	3,708	2,956	2,638	2,605	2,341	2,007	1,519
California.....	134	102	111	118	142	149	149	151	158	123	132	138	140
Florida.....	7	13	12	10	8	9	6	4	4	3	4	3	5
Illinois.....	164	88	95	119	140	181	185	186	192	184	186	185	214
Indiana.....	448	254	238	353	423	477	495	494	487	498	522	561	577
Michigan.....	450	297	309	324	441	495	539	584	485	474	499	502	523
Oregon.....	7	7	8	7	7	7	10	9	8	6	7	0	6
Texas.....	55	56	58	67	69	70	71	70	56	25	22	39	46

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	79
Reporting expenditures for plant and equipment.....	53
Value of products:	
Total for the industry.....	\$7,941,996
Reporting expenditures for plant and equipment.....	7,197,850
Expenditures for plant and equipment:	
Total for the industry.....	171,477
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	54,869
Expenditures for new machinery and operating equipment.....	50,283
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	65,925
Expenditures unclassified.....	400

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

	1939	1937
Inventories:		
Beginning of year, total.....	\$904,289	\$1,441,430
Finished products.....	271,956	291,370
Materials, supplies, etc.....	632,333	1,150,060

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

	1939	1937
Inventories—Continued.		
End of year, total.....	\$1,061,593	\$2,122,149
Finished products.....	301,937	602,637
Materials, supplies, etc.....	759,656	1,519,512
Value of products for the industry, total.....	7,941,996	13,098,577
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	7,927,490	12,290,533
Value for establishments not reporting inventories.....	14,506	808,044

TABLE 8.—POWER—MOTORS AND ELECTRIC ENERGY PURCHASED: 1939 ¹

	1939
Number of establishments.....	79
Number of establishments reporting power equipment.....	79
Electric motors driven by purchased energy:	
Number.....	1,133
Horsepower.....	1,838
Purchased electric energy (kilowatt-hours).....	1,267,567

¹ Comparable data for 1929 not available.