

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 | 31,431,585 | 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 | 124,987,763 | 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 | 50,216,205 | 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 | 115,999,693 | (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 | 33,714,581 | 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 | | | | | | | |
| SUMMARY FOR SUBGROUPS AND FOR INDIVIDUAL INDUSTRIES—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 | 6,652 | 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 | 4,780,265 | 9,857,338 | 24,545,164 | 14,687,826 | 3,608 |
| 1937..... | 50 | 3,529 | 5,091,936 | 9,879,241 | 25,576,640 | 15,697,399 | (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 | 226,060,518 | 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 | 29,706,544 | 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)

405

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 MACHINERY | | | |
|---|-------------------------|----------------------|--------------|--------------|-------------------------------------|--------------|--------------|---|--------------|--------------|--------------|
| | | Total | 1711 | 1712 | Total | 1721 | 1729 | Total | 1731 | 1732 | 1733 |
| Number of establishments ² | 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 manufacturing industries, total ³ | 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 corporations 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 ³ | 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 ³ | 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 | 50,216,206 | 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 | 130,846,784 | 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 | 497,836 | 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 | 56,902,186 | 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 ³ | 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 ³ | 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 | 18,936,642 | 27,614,519 | 4,656,946 | 7,775,242 | 14,646,956 | 15,160,633 |
| Distribution..... | 11,539,884 | 5,603,332 | 3,820,100 | 2,116,452 | 14,584,574 | 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 | 493,433 | 772,922 | 131,314 | 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 | 180,722 | 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.

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, 563 | 43, 174 |
| Salaried officers of corporations ³ | 350 | 197 | 71 | 82 | 622 | 89 | 89 | 56 | 388 |
| Manufacturing: | | | | | | | | | |
| Salaried employees ³ | 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 ⁵ | \$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 ³ | 3, 269, 934 | 1, 943, 881 | 856, 340 | 469, 713 | 3, 990, 388 | 622, 649 | 640, 821 | 400, 471 | 2, 326, 447 |
| Manufacturing: | | | | | | | | | |
| Salaries ³ | 13, 849, 845 | 11, 830, 254 | 971, 530 | 1, 048, 061 | 14, 888, 904 | 1, 952, 851 | 1, 101, 910 | 2, 369, 156 | 9, 465, 047 |
| Wages..... | 57, 919, 914 | 49, 981, 728 | 4, 631, 710 | 3, 806, 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, 375 | 13, 017, 826 | 21, 096, 335 | 128, 182, 878 |

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

- | | |
|--|---|
| <p>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.</p> | <p>1761. Pumping equipment and air compressors. 1782. Elevators, escalators, and conveyors. 1783. Cars and trucks, industrial. 1784. 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.</p> |
|--|---|

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 reclassification 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 | \$1,318,250 |
| 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 | 748,071 |
| Other products (not classified in this industry)..... | 7,010,629 | 4,592,025 |
| 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

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

| PRODUCT | 1939 | | | | 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 | | | 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, turbines, water wheels, etc.—Con. | | | | | | |
| Water wheels: | | | | | | Number..... | (3) | (3) | | 49 | | |
| Horsepower..... | | | | | | Value..... | (2) | (2) | | 12,558 | | 225 |
| Water turbines: | | | | | | Number..... | (3) | (3) | | 112 | | 508,818 |
| Horsepower..... | | | | | | Value..... | (2) | (2) | | 836,663 | | \$2,967,062 |
| Value..... | | | | | | Steam engines and turbines not reported by number or horsepower. | | (2) | 2 | \$145,610 | \$145,610 | \$1,088,022 |
| Steam engines and turbines, total: | | | | | | Parts and attachments: | | | | | | |
| Number..... | 1,529 | 639 | 225 | 2,393 | 12,522 | For steam engines and turbines..... | \$665,142 | (3) | 2 | \$1,365,973 | \$2,031,115 | \$1,298,520 |
| Horsepower..... | 807,058 | 92,947 | 5,900 | 1,220,555 | 1,153,475 | For water wheels and turbines..... | \$634,901 | \$242,701 | | \$877,602 | \$645,742 | |
| Value..... | \$10,067,083 | \$1,779,776 | \$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) | 282 | 2,271 | 2,471 | | | | | | | |
| Horsepower..... | 415,398 | (2) | 102,397 | 517,795 | 953,627 | | | | | | | |
| Value..... | \$5,263,212 | (2) | \$1,807,215 | \$7,070,427 | \$12,860,673 | | | | | | | |

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 | 3,708 |

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..... | 18 |
| 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..... | 375 |
| 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 ³ | 160 | 12 | 15 | 11 | 12 | 14 | 8 | 39 | 49 |
| Manufacturing: | | | | | | | | | |
| Salaried employees ³ | 3,529 | 107 | 367 | 184 | 600 | 572 | 284 | 950 | 465 |
| Wage earners (average for the year) ⁴ | 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 ⁵ | \$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 ³ | 1,325,949 | 71,216 | 95,791 | 84,561 | 101,240 | 153,100 | 20,787 | 415,909 | 383,345 |
| Manufacturing: | | | | | | | | | |
| Salaries ³ | 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 | 1,396,044 | 7,492,288 | 2,743,963 |
| Distribution..... | 2,721,963 | 52,804 | 195,824 | 89,948 | 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 | 1,737,911 | 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 ⁵ | 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.

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 | (²) |
| (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 | 4,070 |
| Horsepower..... | 625,005 | 166,459 | 791,464 | 473,348 |
| Value..... | \$9,454,146 | \$2,722,037 | \$12,176,183 | \$8,041,170 |

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 | 432,022 |
| Value..... | \$3,466,932 | | \$3,466,932 | \$4,406,482 |
| Not reported by number and horsepower, value..... | | | \$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 | |
| 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.

INTERNAL-COMBUSTION ENGINES

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 | 269 | 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 | 2,062 | 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 |

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..... | 50,695 |
| 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 ² | 30 | 6 | 7 | 17 |
| Proprietors and firm members..... | 4 | | | 4 |
| Persons reported by manufacturing establishments, total ³ | 39,262 | 19,647 | 12,330 | 7,285 |
| Salaried officers of corporations ⁴ | 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 ⁴ | 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 | 566,359 |
| 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..... | 7,388,162 | |
| 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 |

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

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

³ 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 ² | 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 | 7,388,162 | (³) | (³) |
| Attachments and parts for industrial tractors..... | | 3,740,531 | (³) | (³) |

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 | 38,455 | 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 | 536 | 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..... | 6,778,233 |
| 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 | 37,778 | 55,751,394 | 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 ² | 410 | 12 | 2 | 11 | 51 | 44 | 22 | 2 | 5 | 23 |
| Manufacturing: | | | | | | | | | | |
| Salaried employees ² | 5,176 | 60 | 2 | 49 | 2,671 | 647 | 168 | 9 | 9 | 144 |
| Wage earners (average for the year) ² | 27,806 | 289 | 9 | 360 | 13,270 | 3,541 | 790 | 52 | 122 | 613 |
| Distribution..... | 1,345 | 44 | 3 | 17 | 388 | 143 | 16 | 2 | 4 | 91 |
| Construction..... | 82 | 1 | 1 | 34 | 18 | 10 | 10 | 1 | 1 | 1 |
| Other..... | 79 | 2 | 2 | 6 | 35 | 3 | 3 | 3 | 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 ² | 1,878,531 | 36,225 | 3,284 | 62,423 | 230,509 | 294,610 | 84,525 | 18,375 | 35,964 | 77,012 |
| Manufacturing: | | | | | | | | | | |
| Salaries ² | 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 | 1 | 102,611 | 24,694 | 24,694 | 14,742 | 14,742 | 1,942 | 817 |
| Other..... | 67,118 | 2,027 | 2 | 4,199 | 32,915 | 2,803 | 2,803 | 2,803 | 2,803 | 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 | 1 | 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 | 2 | 380 | 249,626 | 3,530 | 3,530 | 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 | 149,919 | 316,181 | 2,012,813 |

See footnotes at end of table.

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

| ITEM | New York | North Carolina | Ohio | Pennsylvania | Tennessee | Texas | Virginia | Washington | Wisconsin | Other States ⁵ |
|---|-------------|----------------|-------------|--------------|-----------|-----------|-----------|------------|-------------|---------------------------|
| 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 | 1,047 | 310 | 1,604 | 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..... | 9,914,304 | 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.
⁵ 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..... | ³ 152,949,140 | ³ 198,238,773 |
| Agricultural machinery, parts, and attachments made in the industry..... | 150,577,521 | ¹ 188,212,277 |
| Agricultural machinery, parts, and attachments made as secondary products in other industries..... | 2,371,619 | ⁴ 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..... | 9,601,278 | 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)

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

| | 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 | 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 | \$988,778 | \$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.

CONSTRUCTION AND SIMILAR MACHINERY

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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) ³ | 406 | 536 | 4,534 | 826 | 314 | 3,949 | 668 |
| Distribution..... | 17 | 75 | 557 | 22 | 18 | 150 | 92 |
| Construction..... | 7 | 13 | 13 | 3 | 2 | 48 | 108 |
| Other..... | 3 | 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 | 38,234 | 419,354 | 209,128 |
| Construction..... | 10,741 | 19,341 | 19,341 | 3 | 1,973 | 98,097 | 50,120 |
| Other..... | 2,781 | 65,818 | 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 | 343,582 | 32,395 | 15,288 | 196,156 | 39,333 |
| Contract work..... | | 969 | 226,137 | 3,063 | 4,191 | 38,999 | 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.

⁶ 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 |
|---|--------|---------------|--------------------------|
| | Number | 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 | 4,885,470 |
| Number not reported..... | | 144,534 | |
| Other— | | | |
| Number reported..... | 66 | 1,603,979 | |
| Number not reported..... | | 281,170 | |
| Attachments and parts..... | | 770,636 | (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 | |
|--|--------|-------------|--------------------------|--|
| | Number | 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..... | | 269,859 | | |
| Bulldozers, angledozers, and trail-builders..... | 5,047 | 4,242,238 | \$78,849,267 | |
| 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 |
|--|--------|-----------|-----------------------------|
| | Number | 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— | | | 78,849,267 |
| 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 | 1,860,860 | |
| 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 |
|--|--------|-------------|-----------------------------|
| | Number | 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 | 799,381 | |
| Stationary and other— | | | 1,140,934 |
| Number reported..... | 2,304 | 1,448,982 | |
| Number not reported..... | | 1,341,248 | |
| Derricks— | | | |
| Number reported..... | 31 | 217,528 | |
| Number not reported..... | | 51,700 | |
| Hoists and winches— | | | 14,373,698 |
| Number reported..... | 27,198 | 6,889,586 | |
| Number not reported..... | | 1,721,833 | |
| Construction machinery, not reported by kind... Parts and attachments not reported as to kind and rebuilt machinery..... | | 14,305,463 | 14,707,975 |
| | | 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 | 386 | 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 | 183 | 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..... | 3,877,681 |
| 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 | \$38,143,332 |
| Finished products..... | 16,111,584 | 19,124,600 |
| Materials, supplies, etc..... | 26,469,877 | 19,018,732 |
| End of year, total..... | 48,591,594 | 48,664,155 |
| Finished products..... | 16,591,587 | 22,102,776 |
| Materials, supplies, etc..... | 31,999,977 | 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 |

CONSTRUCTION AND SIMILAR MACHINERY

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

| | 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 ² — | |
| 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, ² 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..... | 180 | 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 | 158 | 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 | \$946,904 |
| 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 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.... | 3 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 | 1,980,165 |
| Made outside the machinery group..... | 850,796 | |

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..... | 856 | 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..... | 6,008 | 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 |

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..... | 3,080 |
| 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 | 193,333 | 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 the industry | 29,399,717 | 27,847,763 |
| Miscellaneous products not specified | 222,806 | 5,888,511 |
| Other products (not classified in this industry) | 1,270,430 | |
| Receipts for contract and repair work | 1,145,956 | 366,390 |
| 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 | 143 | 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..... | 500 |
| Generators, ordinarily idle (included above), kilowatt rating..... | 1,155 |
| Electric motors, total: | |
| Number..... | 4,391 |
| Horsepower..... | 33,349 |
| 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 | 232 |
| 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 | 539,845 |
| Construction..... | 519,287 | — | 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 | |
| Other products (not classified in this industry)..... | 42, 008, 105 | 36, 730, 272 |
| 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..... | | |
| Value..... | \$262, 292 | \$298, 099 |
| 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 | 781 |
| 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 | 86 |
| 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 | |
| Other (including drilling and tapping)— | | |
| Number..... | 778 | (¹) |
| Value..... | \$2, 167, 562 | \$4, 089, 507 |
| 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..... | | 32 |
| Value..... | 994 | \$181, 710 |
| Generator and other— | | |
| Number..... | \$7, 029, 430 | 1, 131 |
| Value..... | | \$7, 384, 948 |
| Gear-chamfering machines: | | |
| Number..... | 139 | |
| Value..... | \$462, 104 | |
| Gear-tooth grinding, shaving, or burnishing machines: | | |
| Number..... | 171 | (²) |
| 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..... | 599 | 661 |
| Value..... | \$2, 386, 403 | \$2, 110, 836 |
| Surface— | | |
| Horizontal— | | |
| Number..... | 2, 132 | 2, 087 |
| 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..... | | 5, 824 |
| Value..... | (¹) | \$294, 082 |
| Other..... | \$5, 022, 274 | \$493, 634 |
| Keyseaters (except broaching): | | |
| Number..... | 402 | (¹) |
| Value..... | \$81, 339 | (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 |

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

² No 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..... | \$3,061,410 | \$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.)..... | \$1,073,489 | \$1,529,383 |
| All other machine tools..... | \$10,008,698 | \$7,505,260 |
| 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 | 4,875 | 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 | 2,068 | 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..... | 180,856 |
| Driven by purchased energy— | |
| Number..... | 25,497 |
| Horsepower..... | 153,099 |
| Driven by energy generated in establishments reporting— | |
| Number..... | 4,934 |
| Horsepower..... | 27,757 |
| Electric energy (kilowatt-hours): | |
| Generated in plant..... | 17,008,633 |
| 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 |
|-------------|---------------------------------------|--|--------------|--|-------------------|---|-----------------------------|
| 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 | 115,999,693 | (5) |
| 1935..... | 731 | 23,193 | 34,413,847 | 27,413,472 | 96,837,534 | 69,424,062 | (5) |
| 1933..... | 537 | 12,757 | 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 | 37,832 | 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 | Minnesota | Missouri | New Jersey | New York | Ohio | Pennsylvania | Rhode Island | Vermont | Washington | 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 | 3 | 20 | 9 |
| Persons reported by manufacturing establishments, 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 | 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 ⁵ | \$124,944 | \$263,378 | \$1,651,374 | \$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 | 2,284,399 | 7,507,881 | 1,884,701 | 853,712 | 151,458 | 13,087 | 811,922 | 47,092 |
| Distribution..... | 904 | 12,975 | 25,959 | 96,659 | 619,123 | 138,972 | 70,872 | 32,228 | 622 | 19,325 | 447 |
| Construction..... | | | 953 | | 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 | 11,100 | 437 | 32,739 | 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 | 108,920 |

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..... | 1,783,540 | | |
| 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 | | |
| Made as secondary products outside the Machinery (Except Electrical) group..... | 29,500,169 | (³) | (³) |

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 industries | 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 | ³ 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.

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 | 577,621 | 585,683 | 727,934 | |
| Milling-machine..... | 108,147 | ¹ 1,661,621 | 1,769,768 | 848,228 | |
| Other machine-tool..... | 107,016 | 1,505,086 | 1,612,102 | ¹ 1,051,144 | |
| Special equipment: | | | | | |
| Balancing machines..... | 16,439 | 326,294 | 342,733 | (²) | (²) |
| Die-casting dies..... | 1,262,282 | ³ 830,553 | 2,092,835 | 1,117,890 | ⁷ 1,270,754 |
| Jigs, fixtures, drop-forging dies, forming and stamping punches, dies, subpresses, etc., and especially designed tools..... | 49,411,102 | ³ 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.)..... | (⁴) | (⁴) | 2,610,928 | 3,049,279 | (⁴) |
| 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 | ⁸ 5,066,984 |
| Other attachments and fixtures..... | 1,620,182 | ³ 1,647,955 | 3,268,137 | ² 5,673,831 | ⁹ 9,883,851 |
| Small cutting tools and tool holders, total value..... | 42,564,011 | ³ 11,064,421 | 53,628,432 | ² 67,247,659 | (¹⁰) |
| Arbors and collars..... | 158,861 | 184,613 | 343,474 | 256,252 | 364,716 |
| Broaches..... | 1,648,135 | 1,082,742 | 2,730,877 | (¹¹) | (¹¹) |
| Collets or sockets, etc. (lathe, milling-machine, and drill)..... | 508,747 | 652,759 | 1,161,506 | 738,475 | 345,523 |
| Counterbores..... | (⁴) | (⁴) | 769,766 | 1,058,200 | 1,116,719 |
| Countersinks and combination countersinks and drills..... | (⁴) | (⁴) | 414,675 | 542,891 | ¹² 65,222 |
| Drills, carbon..... | 2,447,897 | 35,706 | 2,483,603 | 2,986,130 | 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 | (⁴) |
| 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 | ³ 850,138 | 1,462,655 | 975,640 | 1,140,643 |
| Lathe, planer, and shaper tools, tungsten-carbide tipped..... | (⁴) | (⁴) | 1,529,335 | 508,590 | (⁴) |
| Milling cutters (all types), end mills, slotting cutters, etc. (solid and those with inserted-teeth): | | | | | |
| Solid— | | | | | |
| Carbon steel..... | (⁴) | (⁴) | 155,206 | 526,835 | 10,704,526 |
| High-speed steel..... | 5,482,988 | 821,540 | 6,304,528 | 8,989,344 | |
| Tungsten-carbide tipped..... | (⁴) | (⁴) | 624,425 | 683,843 | |
| Inserted-teeth..... | 602,172 | 309,091 | 911,263 | 849,911 | |
| Reamers (solid, expansion, and inserted-blade): | | | | | |
| Carbon..... | (⁴) | (⁴) | 856,885 | 1,176,305 | 3,114,356 |
| High-speed..... | 2,495,285 | 840,763 | 2,836,048 | 3,885,706 | 5,042,556 |
| Threading tools: | | | | | |
| Taps and dies (not pipe-threading)— | | | | | |
| Taps, carbon (except collapsible)..... | 1,759,827 | ³ 400,379 | 2,220,206 | 2,721,898 | 3,526,272 |
| Taps, high speed (except collapsible)..... | 2,405,355 | 853,890 | 3,259,245 | 5,048,972 | 3,069,694 |
| Taps, collapsible..... | (⁴) | (⁴) | 103,879 | 56,303 | (⁴) |
| Dies, carbon (except self-opening)..... | (⁴) | (⁴) | 697,106 | 1,271,258 | 1,337,119 |
| Dies, high-speed (except self-opening)..... | (⁴) | (⁴) | 151,092 | 397,989 | 1,362,676 |
| Dies, self-opening..... | 216,836 | 296,796 | 513,632 | 285,977 | (⁴) |
| Chasers..... | 1,907,883 | 862,354 | 2,470,237 | 2,539,011 | 3,251,469 |
| Pipe-threading— | | | | | |
| Taps (except collapsible)..... | (⁴) | (⁴) | 220,830 | 433,580 | 300,435 |
| Taps, collapsible..... | 135,262 | 135,262 | 135,262 | 285,722 | |
| Dies (except self-opening)..... | 489,935 | 120,270 | 610,205 | 611,465 | 1,346,867 |
| Dies, self-opening..... | 611,465 | 611,465 | 611,465 | 1,296,240 | (⁴) |
| Chasers..... | 511,810 | 74,487 | 586,297 | 1,825,142 | 2,338,528 |
| Pipe stocks complete with dies..... | 1,106,394 | 434,384 | 1,540,778 | 9,052,309 | |
| All other cutting tools, tool holders, mandrels, etc..... | 1,568,407 | 906,270 | 2,474,677 | | |
| 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 | ³ 235,482 | 2,143,579 | 3,002,642 | |
| Other measuring tools..... | (⁴) | (⁴) | 1,113,072 | 2,229,363 | |
| Miscellaneous equipment and accessories not called for above: | | | | | |
| Wheel-truing (diamond-point and other)..... | (⁴) | (⁴) | 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.

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 | 27,080 | 27,627 | 26,684 | 22,902 |
| California | 199 | 166 | 195 | 185 | 186 | 185 | 214 | 207 | 203 | 203 | 205 | 224 | 210 |
| Connecticut | 1,960 | 1,770 | 1,801 | 1,829 | 1,837 | 1,897 | 1,881 | 1,904 | 1,914 | 1,943 | 2,102 | 2,226 | 2,359 |
| Illinois | 2,798 | 2,422 | 2,598 | 2,632 | 2,716 | 2,689 | 2,739 | 2,758 | 2,800 | 2,834 | 3,080 | 3,107 | 3,173 |
| Indiana | 784 | 676 | 661 | 663 | 663 | 691 | 830 | 914 | 927 | 877 | 900 | 884 | 856 |
| Iowa | 66 | 54 | 59 | 68 | 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 | 5,700 | 7,208 | 8,151 | 8,036 | 7,930 | 6,807 | 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 | 1,395 | 1,347 | 1,435 | 1,462 | 1,462 | 1,443 | 1,458 | 1,540 | 1,640 |
| Rhode Island | 564 | 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 | 533 | 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 |
|---|---------------|
| Number 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 | 1,826 |
| Steam engines— | | |
| Number | 8 | 118 |
| Horsepower | 2,010 | 1,107 |
| 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 | (³) |
| Prime movers not driving generators, total— | | |
| Number | 11 | |
| Horsepower | 495 | |
| Steam engines— | | |
| Number | 3 | |
| Horsepower | 245 | |
| Diesel and semi-Diesel engines— | | |
| Number | 1 | (³) |
| 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 | |
| Other internal-combustion engines, ³ kilowatt rating | | (⁴) |
| Hydroturbines and water wheels, kilowatt rating | 18 | |
| Generators, ordinarily idle (included above), kilowatt rating | 789 | |
| Electric motors, total: | 1,008 | (⁴) |
| 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 | (*) |

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 | 21,099 | 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 | 40 | 12 | 20 | 8 | 10 | 28 | 73 | 27 | 9 | 41 |
| Manufacturing: | | | | | | | | | | | | | |
| Salaried employees ³ | 3,734 | 113 | 175 | 460 | 20 | 170 | 19 | 699 | 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 | 690 | 18 | 32 | 153 | 4 | 37 | 90 | 4 | 222 | 281 | 32 | 11 | 106 |
| Construction | 27 | 2 | 7 | 1 | | | 1 | 2 | 2 | 10 | | 2 | |
| Other | 57 | | | 12 | | | | | 12 | 27 | 3 | | 3 |
| Salaries and wages, total ⁵ | \$37,367,907 | \$901,888 | \$2,315,782 | \$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 | 2,429,370 | | 240,902 | 392,589 | 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 | 336,001 | 31,481 | 1,295,551 | 659,424 | 2,016,895 | 717,524 | 68,718 | 669,674 |
| Wages | 25,089,052 | 681,992 | 1,580,410 | 3,156,472 | 141,328 | 1,401,281 | 360,184 | 2,540,728 | 3,650,442 | 7,655,935 | 1,843,802 | 282,070 | 2,819,408 |
| Distribution | 2,116,462 | 28,655 | 93,332 | 302,310 | 7,447 | 101,839 | 185,914 | 1,900 | 471,065 | 658,144 | 60,829 | 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 | | | 13,786 | | | | | 10,822 | 29,727 | 1,959 | | 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 | 1,382,360 | 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 | 5,639 | 58,201 | 3,886 | 30,837 | 79,200 | 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 | 5,406 | 171,730 | 1,500 | 13,425 | | 25,453 | 79,200 | 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 | 1,487,545 | 3,358,927 | 8,401,502 | 342,665 | 4,073,560 | 1,297,315 | 4,690,187 | 5,581,278 | 19,332,428 | 7,228,122 | 826,912 | 7,516,056 |

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 | 10,406,643 |
| 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 | \$141,776,700 |
| Bending machines: | | | | |
| I-beam, pipe, plate, etc.— | | | | |
| Number reported— | | | | |
| Number..... | 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— | | | | |
| Number..... | 1,408 | 107 | 1,515 | 2,457 |
| Value..... | \$492,831 | \$527,789 | \$1,020,620 | \$1,166,625 |
| Number not reported, value..... | \$190,893 | \$232,157 | \$423,050 | |
| Die-casting machines: | | | | |
| Number reported— | | | | |
| Number..... | 42 | 23 | 65 | 66 |
| Value..... | \$84,813 | \$180,838 | \$265,651 | \$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..... | \$1,476,796 | | \$1,476,796 | 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— | | | | |
| Number..... | 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— | | | | |
| Number..... | 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..... | \$5,906,601 | | \$5,906,601 | \$5,601,252 |
| Grinders, electric— | | | | |
| Number..... | 21,559 | 12,709 | 34,268 | 31,402 |
| Value..... | \$776,564 | \$442,003 | \$1,218,567 | \$1,374,959 |
| Grinders, pneumatic— | | | | |
| Number reported— | | | | |
| Number..... | 11,433 | | 11,433 | 11,579 |
| Value..... | \$661,762 | | \$661,762 | \$1,001,585 |
| Number not reported, value..... | | \$90,000 | \$90,000 | |
| Hammers (chipping, riveting, calking, etc.), electric— | | | | |
| Number reported— | | | | |
| Number..... | 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..... | \$1,115,510 | | \$1,115,510 | \$978,764 |
| Flexible-shaft machines— | | | | |
| Number reported— | | | | |
| Number..... | 3,374 | 826 | 4,200 | 3,387 |
| Value..... | \$512,798 | \$234,144 | \$746,942 | \$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

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— | | | | \$10, 468, 167 |
| Number..... | 3, 310 | 60 | 3, 370 | |
| Value..... | \$8, 243, 064 | \$249, 107 | \$8, 493, 071 | |
| Punch— | | | | |
| Number reported— | | | | |
| Number..... | 1, 113 | 150 | 1, 263 | 3, 504 |
| 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 | (⁵) |
| Value..... | \$903, 471 | \$130, 579 | \$1, 034, 050 | (⁵) |
| Number not reported, value..... | \$148, 887 | \$142, 080 | \$291, 573 | \$740, 941 |
| Punching machines, (not portable): | | | | |
| Number reported— | | | | |
| Number..... | 31 | 34 | 65 | (⁵) |
| Value..... | \$72, 815 | \$2, 118 | \$74, 933 | (⁵) |
| 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..... | (⁴) | (⁴) | 283 | |
| Value..... | (⁴) | (⁴) | \$70, 659 | |
| Rolling-mill machinery and equipment, value..... | \$16, 265, 821 | \$18, 339, 181 | \$34, 605, 002 | \$52, 138, 559 |
| Rod and wire forming and fabricating machines, value..... | \$1, 342, 540 | \$266, 341 | \$1, 608, 881 | \$2, 000, 862 |
| Shears (hand-lever and foot-power), value..... | (⁶) | (⁶) | \$87, 041 | (⁶) |
| 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..... | (⁴) | (⁴) | 149 | |
| Value..... | (⁴) | (⁴) | \$106, 623 | |
| Straight— | | | | |
| Number..... | 430 | 168 | 598 | 504 |
| Value..... | \$770, 214 | \$605, 764 | \$1, 375, 978 | \$1, 220, 652 |
| Other, value..... | (⁴) | (⁴) | \$97, 607 | \$830, 074 |
| Sheet-metal working machinery: | | | | |
| Can forming and soldering, value..... | \$12, 271, 043 | \$183, 911 | \$12, 455, 954 | \$17, 009, 929 |
| Other, value..... | \$946, 074 | \$138, 996 | \$1, 085, 070 | \$1, 422, 705 |
| Spring winding and forming machines: | | | | |
| Number..... | (⁴) | (⁴) | 175 | (⁵) |
| Value..... | (⁴) | (⁴) | \$415, 139 | (⁵) |
| Wire-drawing machines, value..... | \$1, 180, 547 | \$50, 270 | \$1, 230, 817 | \$1, 053, 839 |
| 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 | | |

⁴ Data incomplete.
⁵ 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.
⁶ Figures for hand-lever and foot-power shears included with "Other power shears."
⁷ 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 | 740 | 759 | 794 | 826 | 832 | 884 | 883 | 921 | 941 | 940 | 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, 309 | 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 | 10,298,551 |
| 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..... | 245 |
| 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..... | 6,174,018 |
| 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 | 18,476 | 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 | 483 | 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..... | 2,410 | 116 | 34 | 406 | 229 | 4 | 140 | 12 | 197 | 179 |
| Construction..... | 31 | 1 | ----- | 3 | 3 | 12 | ----- | ----- | 3 | ----- |
| Other..... | 78 | ----- | ----- | 3 | 15 | ----- | 3 | ----- | 6 | 1 |
| Salaries and wages, total ² | \$32,497,864 | \$1,730,599 | \$701,020 | \$5,065,157 | \$1,307,474 | \$181,844 | \$1,666,872 | \$766,188 | \$1,976,231 | \$978,462 |
| Salaried officers ² | 3,163,913 | 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 | 698,519 | 268,101 | 16,865 | 170,193 | 131,483 | 412,054 | 72,763 |
| Wages..... | 18,936,642 | 910,394 | 292,570 | 3,800,999 | 494,365 | 103,899 | 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..... | 33,693 | 1,800 | ----- | 4,100 | 4,409 | 4,980 | ----- | ----- | 3,379 | ----- |
| Other..... | 105,657 | ----- | ----- | 4,795 | 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 | 866,444 | 1,518,726 | 937,981 |
| Materials and supplies..... | 30,363,802 | 1,628,944 | 593,428 | 5,660,501 | 797,034 | 143,120 | 1,738,652 | 820,060 | 1,308,437 | 869,141 |
| Fuel..... | 493,436 | 7,968 | 7,968 | 55,137 | 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 | 38,450 | 19,323 | 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 ⁶ |
|---|-----------|------------|-------------|-------------|--------------|----------|----------|------------|-------------|---------------------------|
| Number of establishments ¹ | 14 | 12 | 55 | 36 | 29 | 4 | 5 | 7 | 22 | 30 |
| Proprietors and firm members..... | 6 | 2 | 16 | 18 | 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 | 81 | 41 |
| Manufacturing: | | | | | | | | | | |
| Salaried employees ² | 56 | 52 | 818 | 400 | 126 | 6 | 6 | 12 | 173 | 188 |
| Wage earners (average for the year) ³ | 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 | \$769,420 | \$720,202 | \$6,717,920 | \$4,220,000 | \$1,123,332 | \$45,425 | \$33,300 | \$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 | 1,561,780 | 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 | 478,671 | 254,040 |
| 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 | 1,920,400 |
| 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 | 52,500 | 21,148 |
| Purchased electric energy..... | 9,512 | 17,641 | 115,290 | 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 | 16,220,200 | 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.⁶ 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 | |
| Made in other industries..... | 4,874,191 | (¹) |

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 | 1,950 |
| Value..... | \$3,498,104 | \$50,263 | | \$3,548,367 | \$2,577,413 |
| 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 | \$697,387 |
| 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 | | \$415,775 | |
| Other bakers' machinery and equipment..... | \$5,859,447 | \$59,350 | \$397,168 | \$6,315,965 | \$3,888,772 |

See footnotes at end of table.

FOOD-PRODUCTS MACHINERY

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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 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 | \$855,216 | \$200,816 | \$11,959,005 | \$21,185,303 |
| Canning machinery..... | \$3,361,575 | \$670,207 | \$71,067 | \$4,102,849 | \$11,839,735 |
| Chocolate and confectionery machinery..... | \$980,340 | \$135,824 | | \$1,116,164 | \$7,216,831 |
| Ice-cream-making machinery..... | \$2,543,057 | \$2,043,852 | \$381,933 | \$5,968,842 | |
| 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..... | \$607,867 | \$1,340 | | \$609,207 | \$700,488 |
| Cream separators— | | | | | |
| Capacity 500 pounds or less per hour— | | | | | |
| Number..... | 3,605 | 34,309 | | 38,004 | 45,302 |
| Value..... | \$213,932 | \$670,318 | | \$884,250 | \$1,385,113 |
| Capacity more than 500 pounds per hour— | | | | | |
| Number..... | 5,050 | 11,613 | | 17,672 | 26,884 |
| Value..... | \$629,006 | \$578,438 | | \$1,207,444 | \$2,427,055 |
| Milkling machines (complete assemblies)— | | | | | |
| Reported by number and value— | | | | | |
| Number..... | 18,606 | 6,794 | | 25,400 | 21,502 |
| Value..... | \$1,048,128 | \$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 | \$2,670 | | \$1,466,620 | \$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..... | \$3,260,850 | \$70,586 | \$2,255 | \$3,333,691 | \$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 | \$132,604 | \$2,935,178 | \$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— | | | | | \$1,524,958 |
| Number..... | 5,324 | | | 5,324 | \$607,408 |
| Value..... | \$626,357 | | | \$626,357 | |
| Meat choppers and grinders, and food cutters and choppers— | | | | | |
| Reported by number and value— | | | | | |
| Number..... | 12,574 | 4 | 104 | 12,682 | 13,078 |
| Value..... | \$1,725,588 | \$398 | \$5,097 | \$1,731,081 | \$2,012,998 |
| Not reported by number, value..... | \$102,299 | \$197,393 | \$176,279 | \$775,971 | \$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 | \$3,534,856 |
| Slicing machines (other than for bakeries)— | | | | | |
| Number..... | 39,162 | 155 | | 39,317 | 40,991 |
| Value..... | \$4,817,846 | \$14,250 | | \$4,832,096 | \$4,700,970 |
| 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 | 13,852 | 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..... | 751 | 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 | 468 | 463 |
| Missouri..... | 250 | 243 | 240 | 254 | 254 | 240 | 249 | 240 | 251 | 251 | 256 | 280 | 253 |
| New Jersey..... | 290 | 261 | 261 | 300 | 285 | 303 | 317 | 299 | 286 | 282 | 288 | 298 | 295 |
| New York..... | 2,608 | 2,442 | 2,466 | 2,501 | 2,539 | 2,572 | 2,565 | 2,636 | 2,586 | 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 | 2,096 | 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 | 26 | 30 | 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 | 1,433 | 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..... | 530 |
| Horsepower..... | 13,531 |
| Prime movers, driving generators, total— | |
| Number..... | 22 |
| Horsepower..... | 8,137 |
| 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..... | 99,038 |
| 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..... | 5,066,402 |
| Purchased..... | 25,373,039 |

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 | 71,882,644 | (5) |
| 1935 | 349 | 19,072 | 21,245,578 | 23,131,415 | 98,846,269 | 46,714,854 | (6) |
| 1933 | 314 | 18,570 | 18,737,290 | 18,377,880 | 90,323,267 | 41,945,387 | (6) |
| 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 | 39,036,868 | 121,653,324 | 82,616,466 | 20,321 |
| 1923 | 428 | 35,672 | 49,022,543 | 49,706,554 | 140,661,358 | 90,955,504 | 23,405 |
| 1921 | 421 | 31,025 | 33,830,690 | 44,993,788 | 128,934,396 | 84,031,108 | (7) |
| 1919 | 482 | 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.

⁶ 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 | 87,804 | 36,160 | 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 | 662,760 | 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 | 230,885 | 30,769 | 5,028 | 183,604 |
| Construction | 609,872 | | | 390,743 | 186 | | | 65,894 | 7,219 | 3,619 | | 41,681 |
| Other | 266,162 | 39,785 | | 100,024 | 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 | 4,646,824 |
| Materials and supplies | 32,005,000 | 540,960 | 457,605 | 12,654,036 | 1,895,138 | 463,045 | 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 | 268,389 | 29,877 | 14,696 | 15,268 | 173,885 | 72,394 | 14,832 | 831 | 133,152 |
| Contract work | 72,940 | | | 17,034 | 827 | 352 | | 2,279 | | 9,991 | | 32,294 |
| Value of products | 93,276,326 | 1,361,363 | 1,009,746 | 35,773,630 | 3,307,330 | 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 | 955,923 | 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 | \$1,822,003 |
| Garnetting machines, drawing and roving frames, value..... | \$1,904,223 | | |
| Spinning machines: | | | |
| Number..... | 4,144 | 5,800 | 5,419 |
| Value..... | \$6,155,377 | \$9,687,116 | \$4,868,709 |
| 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 | \$4,824,902 |
| 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..... | \$10,927,225 | \$10,283,473 | \$20,942,030 |
| Knitting machines, total value..... | \$11,997,977 | \$7,977,063 | \$10,069,540 |
| Hosiery (full-fashioned and circular): | | | |
| Number..... | 4,509 | 2,465 | |
| Value..... | \$10,844,884 | \$5,665,610 | |
| 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..... | \$632,010 | \$1,256,305 | |
| Braiding machines: | | | |
| Number..... | 2,669 | | 6,988 |
| Value..... | \$467,536 | | \$1,043,561 |
| 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 | \$9,331,804 |
| Machinery for drying stock, yarn, cloth, etc., value..... | \$1,078,180 | \$3,503,311 | \$30,302,284 |
| Other textile machinery, value..... | \$3,691,021 | \$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..... | \$2,537,069 | \$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 | (1) |
| Value..... | \$1,080,385 | \$1,604,257 | |
| Spindles, value..... | \$104,758 | \$274,310 | |
| Other parts, attachments, and accessories, value..... | \$33,766,062 | \$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..... | 21,004 | 20,541 | 20,851 | 20,861 | 21,105 | 21,700 | 21,866 | 21,778 | 21,772 | 21,787 | 22,021 | 23,705 | 24,170 |
| 1937..... | 25,340 | 24,409 | 25,244 | 25,963 | 26,638 | 26,739 | 26,850 | 26,150 | 25,893 | 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 | 27,602 | 27,963 | 27,251 | 26,737 | 26,330 |
| Connecticut..... | 324 | 413 | 855 | 844 | 336 | 333 | 321 | 311 | 239 | 284 | 290 | 288 | 300 |
| 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 | 9,304 |
| New Hampshire..... | 1,061 | 884 | 937 | 939 | 1,001 | 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 | 330 |
| North Carolina..... | 367 | 339 | 347 | 357 | 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 | 1,729 | 1,779 | 1,726 |
| South Carolina..... | 476 | 406 | 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, 986 |
| 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, 864, 566 | \$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, 879, 458 | 16, 250, 968 |
| Value of products for the industry, total..... | 93, 276, 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 | 359 |
| 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 | 1 8 |
| Horsepower..... | 550 | 1 448 |
| Other internal-combustion engines ² — | | |
| Number..... | 1 | 1 21 |
| Horsepower..... | 40 | 1 1, 824 |
| 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 | (¹) |
| 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 | (¹) |
| Other internal-combustion engines, ² kilowatt rating..... | 25 | |
| Hydroturbines and water wheels, kilowatt rating..... | 705 | |
| Generators, ordinarily idle (included above), kilowatt rating..... | 580 | (¹) |
| 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 | (¹) |
| Sold..... | 292, 349 | (²) |
| 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 | \$3,291,723 | \$21,604,106 | \$13,312,383 | 3,743 |
| 1937 ⁴ | 106 | 3,678 | 4,856,128 | 3,374,601 | 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..... | 693 | 9 | 102 | 22 | 4 | 45 | 73 | 11 |
| Salaried employees ³ | 3,622 | 45 | 466 | 84 | 20 | 286 | 332 | 51 |
| Wage earners (average for the year) ³ | 553 | 49 | 28 | 3 | ----- | 13 | 59 | 3 |
| Distribution..... | 3 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Construction..... | 28 | ----- | 4 | ----- | ----- | ----- | ----- | ----- |
| Other..... | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 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 | 26,400 |
| Manufacturing..... | 1,238,622 | 14,530 | 139,210 | 25,381 | 4,116 | 88,736 | 121,405 | 20,158 |
| Salaries ³ | 4,656,946 | 64,339 | 727,037 | 104,795 | 16,170 | 390,016 | 389,607 | 62,691 |
| Wages..... | 1,032,823 | 46,842 | 60,489 | 6,004 | ----- | 36,470 | 102,200 | 2,710 |
| Distribution..... | 2,505 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Construction..... | 31,778 | ----- | 3,591 | ----- | ----- | ----- | ----- | ----- |
| Other..... | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 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..... | 7,788,782 | 129,944 | 1,063,546 | 189,690 | 48,053 | 328,023 | 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 | 16,573 | 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 | 203,325 |

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 | 138,976 | 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 | 188,069 |
| Distribution..... | 190,802 | 68,005 | 22,515 | 78,730 | 2,280 | 62,158 | 18,094 | 294,796 | 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 | 808,833 | 119,591 | 607,452 | 61,912 | 339,136 | 366,524 | 1,928,609 | 313,253 |
| Fuel..... | 13,160 | 13,763 | 1,539 | 10,043 | 595 | 4,138 | 4,465 | 27,974 | 5,199 |
| Purchased electric energy..... | 15,484 | 15,483 | 3,388 | 9,581 | 2,658 | 8,017 | 14,656 | 27,871 | 8,283 |
| Contract work..... | 76,884 | | | 36,634 | | 368 | | 24,644 | 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 | 136,345 | 814,790 | 698,726 | 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— | 169 | 41 | 210 | |
| Number..... | \$677,652 | \$95,154 | \$772,806 | \$1,293,145 |
| Value..... | \$344,158 | \$251,884 | \$596,042 | |
| Number not reported, value..... | | | | |
| Saws, jointers, lathes, shapers, etc. (small size for home, shop, and professional craftsmen): | | | | |
| Number reported— | 365,763 | 227 | 365,990 | (1) |
| Number..... | \$3,797,596 | \$60,924 | \$3,858,520 | |
| Value..... | \$542,937 | \$414,425 | \$957,362 | |
| Number not reported, value..... | | | | |
| Portable woodworking tools, including electric hand saws: | | | | |
| Number reported— | 10,178 | 2,866 | 13,044 | |
| Number..... | \$1,317,931 | \$282,636 | \$1,600,617 | \$2,014,456 |
| Value..... | \$1,184,068 | \$74,788 | \$1,258,836 | |
| Number not reported, value..... | \$3,004,056 | \$509,262 | \$3,513,318 | \$8,038,606 |
| Other woodworking machines, value..... | | | \$759,221 | \$756,980 |
| Parts and attachments for woodworking machinery, value..... | \$759,221 | | | |

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 | 3,806 | 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 | 466 | 461 | 422 | 437 | 450 | 452 | 468 | 460 | 480 | 450 | 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 | 40 | 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 | 80 | 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 | 159 | 164 | 165 | 175 |
| Tennessee | 66 | 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 | 16,951,655 |
| 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 | 6,093,564 |
| 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 | \$32,410,924 | \$19,692,479 | 4,112 |
| 1937 ⁴ | 91 | 6,813 | 10,801,268 | 19,015,419 | 43,406,178 | 24,300,769 | (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 ² | 7,268 | 1,438 | 319 | 600 | 1,555 | 1,080 | 550 | 1,121 | 696 |
| Salaried officers of corporations ² | 192 | 49 | 14 | 11 | 40 | 14 | 14 | 30 | 20 |
| Manufacturing: | | | | | | | | | |
| Salaried employees ² | 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 ² | \$12,900,332 | \$2,472,688 | \$643,296 | \$897,061 | \$2,703,582 | \$1,815,928 | \$975,786 | \$2,188,324 | \$1,293,667 |
| Salaried officers ² | 1,605,548 | 358,396 | 161,343 | 168,001 | 317,725 | 93,429 | 97,036 | 300,927 | 112,692 |
| Manufacturing: | | | | | | | | | |
| Salaries ² | 2,437,604 | 421,758 | 46,038 | 165,804 | 518,200 | 424,652 | 202,530 | 488,752 | 169,951 |
| Wages..... | 7,775,242 | 1,466,809 | 344,999 | 511,145 | 1,599,740 | 1,146,948 | 540,223 | 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 | | | 22,807 |
| 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 | 1,698,420 | 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 | 55,713 | 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 | 26,148 |
| Contract work..... | 81,718 | 7,749 | 75 | | 59,912 | | 1,500 | | 12,482 |
| Value of products..... | 32,410,924 | 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 ² | 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 | \$1,286,639 |
| Box-making: | | | | |
| Number reported— | | | | |
| Number..... | 1,547 | 46 | 1,593 | |
| Value..... | \$3,283,742 | \$116,739 | \$3,400,481 | |
| Number not reported, value..... | \$1,706,737 | \$123,551 | \$1,830,288 | (¹) |
| Other: | | | | \$5,888,063 |
| Number reported— | | | | |
| Number..... | 455 | 2 | 457 | |
| Value..... | \$155,081 | \$20,737 | \$185,718 | |
| Number not reported, value..... | \$428,534 | \$101,813 | \$620,347 | |
| 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..... | 385 | 373 | 350 | 388 | 389 | 388 | 386 | 368 | 368 | 367 | 356 | 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..... | 351 | 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..... | 2,357,514 | 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..... | 84 |
| Horsepower..... | 4,112 |
| Prime movers, driving generators, total— | |
| Number..... | 24 |
| Horsepower..... | 3,787 |
| Steam engines— | |
| Number..... | 9 |
| Horsepower..... | 1,265 |
| 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 | 67,662,352 | (4) |
| 1935 ⁴ | 238 | 9,884 | 13,682,101 | 13,130,929 | 51,559,758 | 38,428,829 | (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 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 ² | 261 | 10 | 8 | 45 | 3 | 8 | 24 | 8 |
| Manufacturing: | | | | | | | | |
| Salaried employees ² | 2,092 | 18 | 79 | 358 | 2 | 18 | 40 | 5 |
| Wage earners (average for the year) ³ | 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 ² | \$23,480,578 | \$213,454 | \$657,101 | \$4,900,224 | \$57,340 | \$378,075 | \$993,358 | \$100,001 |
| Salaried officers ² | 1,816,454 | 30,402 | 48,010 | 277,283 | 23,160 | 71,950 | 165,432 | 19,728 |
| Manufacturing: | | | | | | | | |
| Salaries ² | 4,178,695 | 30,932 | 109,844 | 775,408 | 3,483 | 36,900 | 66,495 | 6,884 |
| Wages..... | 14,646,956 | 98,631 | 412,354 | 3,245,930 | 16,855 | 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..... | 118,935 | ----- | 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 | 60,492 | 626 | 5,579 | 23,271 | 2,620 |
| Purchased electric energy..... | 429,579 | 2,906 | 18,990 | 95,677 | 1,009 | 14,586 | 20,869 | 2,414 |
| Contract work..... | 134,050 | 5,595 | ----- | 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 ⁴ | 40,528,727 | 322,298 | 771,145 | 9,315,508 | 92,935 | 663,191 | 1,510,866 | 201,488 |

See footnotes at end of table.

PRINTING-TRADES MACHINERY AND EQUIPMENT

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 | 9 | 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 | \$7,530,479 | \$1,580,745 | \$2,393,010 | \$37,101 | \$370,551 | \$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 | 322,636 | 403,109 | 1,872 | 61,360 | 205,651 |
| Wages..... | 2,023,343 | 4,820,356 | 1,049,835 | 1,324,879 | 14,409 | 229,810 | 639,000 |
| Distribution..... | 150,695 | 787,544 | 133,696 | 433,337 | 16,110 | 33,504 | 197,851 |
| Construction..... | — | — | — | — | — | 4,004 | 888 |
| Other..... | 61,287 | 10,171 | 3,097 | 2,207 | — | 4,775 | 1,001 |
| Cost of materials, supplies, fuel, purchased electric energy, and contract work, total..... | 1,921,916 | 3,992,853 | 1,213,956 | 1,106,084 | 43,180 | 241,386 | 888,101 |
| Materials and supplies..... | 1,801,036 | 3,766,012 | 1,202,240 | 1,033,936 | 36,627 | 259,216 | 830,603 |
| 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 | 653,076 | 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 | \$78,028,255 |
| Printing-trades machinery and equipment, parts and attachments, made in this industry..... | 51,593,300 | 72,403,970 |
| Other products (not classified in the industry)..... | ¹ 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..... | 52,582,029 | 74,013,371 |
| Printing-trades machinery and equipment, parts and attachments, made in the industry..... | 51,593,300 | 72,403,970 |
| Printing-trades machinery and equipment made as secondary products in other industries..... | 989,203 | 1,000,401 |

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..... | \$51,593,306 | \$989,203 | \$52,582,029 | \$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..... | 2,345 | — | 2,345 | \$6,083,208 |
| Value..... | \$1,223,435 | — | \$1,223,435 | — |
| Number not reported, value..... | \$37,972 | \$27,000 | \$64,972 | — |
| 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 | 4 | 30 | — |
| Value..... | \$431,534 | \$60,875 | \$501,409 | — |
| Offset (lithographic)— | | | | |
| Sheet- and web-fed— | | | | |
| Number..... | 2,417 | (3) | 417 | 362 |
| Value..... | \$3,379,618 | (9) | \$3,379,618 | \$4,325,394 |
| Other, including proof, value..... | \$278,690 | — | \$278,690 | — |

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..... | 2 36 | (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 | \$11,617,528 |
| Value..... | 2 \$1,115,282 | (3) | \$1,115,282 | |
| Typefoundry machinery, value..... | \$521,063 | | \$521,063 | |
| Other printers' machinery..... | \$7,829,199 | \$173,701 | \$8,002,900 | \$7,562,000 |
| Printers' rollers, rules, sticks, blocks, type cases, etc..... | \$6,227,616 | \$551,015 | \$6,778,631 | \$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 | \$10,362,433 |

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 | 1,960 | 1,992 | 2,013 | 2,046 | 1,685 | 2,041 | 2,066 | 2,114 | 2,107 |
| 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 | 145 | 147 | 151 | 150 | 153 | 148 | 149 | 149 | 149 | 149 | 148 |
| Michigan..... | 405 | 392 | 395 | 413 | 331 | 369 | 381 | 390 | 408 | 424 | 498 | 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 | 1,230 | 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..... | 55,581,091 | 78,028,255 |
| Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)..... | 55,310,444 | 75,792,566 |
| Value for establishments not reporting inventories..... | 271,247 | 2,835,689 |

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 | 58,716,317 | 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 | 69 | 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 | \$681,685 | \$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 | 1,599,937 | 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 | — | — | 610 |
| Cost of materials, supplies, fuel, purchased electric energy, and contract work, total | 19,836,348 | 990,906 | 1,905,732 | 622,183 | 273,309 | 280,352 | 515,910 | 938,792 |
| Materials and supplies | 19,066,324 | 950,365 | 1,642,555 | 602,579 | 252,363 | 258,807 | 491,265 | 883,710 |
| Fuel | 388,827 | 5,649 | 70,384 | 5,742 | 5,172 | 7,258 | 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 | 26,738 | 100,576 | — | 4,696 | — | — | 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 | 1,687,650 | 3,224,482 | 1,020,203 | 532,400 | 701,527 | 1,235,187 | 2,062,553 |

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 ⁵ |
|---|-----------|-------------|--------------|-----------|-----------|-----------|---------------------------|
| 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 | 732 | 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 | \$696,304 | \$4,817,017 | \$1,604,281 | \$845,529 | \$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 | 155,136 | 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 | 5,429,139 |
| Fuel..... | 5,657 | 47,330 | 33,828 | 9,995 | 7,707 | 1,271 | 164,014 |
| Purchased electric energy..... | 19,136 | 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..... | 1,895,140 | |
| Special industry machinery, parts, and attachments, aggregate value..... | 51,135,104 | 55,706,659 |
| 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 | \$55,706,659 |
| 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) | | 2,816,993 | 2,377,433 |
| Leather-working machinery (other than shoe machinery)..... | 1,045,597 | 190,127 | 29,068 | 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 | 9,704 | 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 | 258 | 310 | 310 | 331 | 323 | 299 | 311 | 300 | 300 | 306 |
| Connecticut | 1,015 | 887 | 923 | 958 | 962 | 998 | 1,010 | 988 | 993 | 1,005 | 1,092 | 1,153 | 1,181 |
| Georgia | 308 | 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 | 458 | 433 | 436 | 436 | 445 | 458 | 467 | 464 | 461 | 463 | 470 | 471 | 474 |
| Massachusetts | 2,548 | 2,548 | 2,560 | 2,639 | 2,534 | 2,515 | 2,523 | 2,520 | 2,505 | 2,501 | 2,534 | 2,591 | 2,595 |
| 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 | 592 | 490 | 512 | 516 | 540 | 537 | 523 | 593 | 570 | 582 | 000 | 022 | 635 |
| New York | 293 | 281 | 277 | 302 | 294 | 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 | 346 | 308 | 248 | 371 |
| 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 | 40 | 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. | 9,866,931 | 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 (including value of products of establishments reporting no inventories on hand) | 55,635,554 | 58,440,605 |
| Value for establishments not reporting inventories | 149,462 | 266,712 |

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 | 660 |
| 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 | 8,650 |
| 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 | 54,893 |
| 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 | 8,802,460 | 24,311,767 | 54,075,265 | 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 | 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) ⁴ | 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 ³ | \$11,952,529 | \$3,473,081 | \$639,152 | \$7,840,296 |
| Salaried officers ³ | 555,519 | 226,476 | 74,828 | 254,215 |
| Manufacturing: | | | | |
| Salaries ³ | 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 | 85,642 | 1,079,548 |
| Construction..... | 106,961 | 17,242 | — | 89,719 |
| Other..... | 64,144 | 61,246 | — | 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..... | 177,568 | 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 ⁶ | 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 | 16,380,408 |
| 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 | 124,599 |
| Value..... | \$10,373,692 | \$50,610 | \$10,424,302 | \$25,283,233 |
| Noncomputing type— | | | | |
| Number..... | 9,046 | 50 | 9,096 | 18,608 |
| Value..... | \$1,600,312 | \$6,250 | \$1,606,562 | \$2,085,292 |
| 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 | — |
| 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 | 91,683 |
| 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 | 4,829 | 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 | 6,383 |
| California..... | 29 | 29 | 20 | 32 | 29 | 31 | 32 | 29 | 20 | 29 | 29 | 27 | 28 |
| Indiana..... | 1,080 | 1,080 | 1,092 | 1,015 | 1,035 | 1,081 | 1,169 | 1,150 | 1,125 | 1,119 | 1,057 | 1,036 | 087 |
| 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 | \$8,997,830 |
| 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 23, 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 | 83,297,090 | (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 | 1,373 | 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 | \$43,266,655 | \$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 | 96,528 | 113,621 | 77,004 | 182,892 | 91,949 |
| Manufacturing: | | | | | | | | |
| Salaries ² | 8,290,311 | 579,807 | 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 | 81,530 |
| Construction..... | 210,267 | ----- | 58,484 | ----- | 8,700 | ----- | 17,253 | ----- |
| Other..... | 250,230 | 45,045 | 64,831 | 3,890 | ----- | 4,231 | 37,543 | 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 | 58,204 | 47,703 | 86,250 | 26,271 | 82,306 | 6,070 |
| Purchased electric energy..... | 771,462 | 72,065 | 100,933 | 40,183 | 101,605 | 32,392 | 60,642 | 30,582 |
| Contract work..... | 337,089 | 120,335 | 19,000 | 9,607 | 45 | 140,380 | 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 | 3,325,642 |
| Value added by manufacture ³ | 80,736,834 | 7,415,810 | 9,432,751 | 3,803,450 | 4,543,669 | 2,272,406 | 3,007,411 | 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 | 2,498 | 2,065 | 2,567 | 233 | 1,512 | 603 | 1,036 |
| 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 | 176,143 | 88,581 | 220,283 |
| Manufacturing: | | | | | | | | |
| Salaries ² | 136,203 | 1,095,004 | 844,187 | 752,051 | 127,001 | 622,963 | 330,371 | 578,182 |
| Wages..... | 642,377 | 3,818,686 | 2,882,504 | 3,454,744 | 337,990 | 1,039,805 | 868,785 | 1,324,506 |
| Distribution..... | 275,666 | 235,841 | 251,507 | 1,214,396 | 82,429 | 321,955 | 66,578 | 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 | 5,004,298 | 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 | 44,037 |
| 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 | 4,108 | 20,793 |
| 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 | 22,401,085 |
| Other products (not classified in this industry)..... | 1,23,426,747 | 8,544,659 |
| Receipts for contract and repair work..... | 7,480,760 | |
| 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 | \$649,622 |
| Other— | | | | | |
| Number reported— | | | | | |
| Number..... | 83,298 | 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 | \$99,292 | \$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 |

PUMPING EQUIPMENT AND AIR COMPRESSORS

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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 |
| Value..... | \$1,204,242 | | | \$1,204,242 |
| 250 g. p. h. to 490 g. p. h.— | | | | |
| Number..... | 114,913 | 161 | | 115,074 |
| Value..... | \$4,282,372 | \$13,685 | | \$4,296,057 |
| 500 g. p. h. and over— | | | | |
| Number..... | 17,767 | | | 17,767 |
| Value..... | \$1,125,917 | | | \$1,125,917 |
| Jet pump systems— | | | | |
| Number..... | 20,416 | | | 20,416 |
| 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 |
| Value..... | \$434,686 | \$92,200 | | \$526,886 |
| 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 |
| Value..... | \$97,594 | \$17,560 | | \$85,154 |
| 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 |
| Power-driven pumps not elsewhere specified: | | | | |
| Centrifugal pumps— | | | | |
| Horizontal type— | | | | |
| Number reported— | | | | |
| Number..... | 80,733 | 675 | 1,581 | 82,989 |
| Value..... | \$13,070,033 | \$845,033 | \$82,344 | \$14,898,310 |
| Number not reported, value..... | \$244,281 | \$3,000 | \$4,600 | \$251,881 |
| Vertical type— | | | | |
| Number..... | 28,154 | 6 | 20,180 | 48,340 |
| Value..... | \$3,346,380 | \$10,000 | \$123,747 | \$3,480,127 |
| Reciprocating pumps— | | | | |
| Direct-acting steam— | | | | |
| Number reported— | | | | |
| Number..... | 6,548 | | | 6,548 |
| Value..... | \$2,836,252 | | | \$2,836,252 |
| Number not reported, value..... | | | | |
| Other reciprocating— | | | | |
| Number..... | 3,737 | | 91 | 3,828 |
| Value..... | \$2,607,520 | | \$85,092 | \$2,692,612 |
| Rotary pumps— | | | | |
| Gear type— | | | | |
| Number reported— | | | | |
| Number..... | 184,792 | 55,638 | 10,653 | 251,083 |
| Value..... | \$3,083,684 | \$639,960 | \$115,414 | \$3,839,058 |
| Number not reported, value..... | \$1,114,300 | \$11,595 | \$724,198 | \$1,850,093 |
| Screw type— | | | | |
| Number..... | 21,372 | | | 21,372 |
| Value..... | \$1,821,051 | | | \$1,821,051 |
| Other types (cam, disk, etc.)..... | \$30,623 | | | \$30,623 |
| Number not reported, value..... | | | | |
| Other power-driven pumps not listed above— | | | | |
| Number reported— | | | | |
| Number..... | 7,118 | 2,110 | 1,817 | 11,045 |
| Value..... | \$3,484,620 | \$506,150 | \$150,033 | \$4,089,818 |
| Number not reported, value..... | \$276,066 | \$24,700 | \$182,754 | \$483,520 |
| Off-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 |
| 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 |

See footnotes at end of table.

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

| PRODUCT | 1939 | | | Aggregate | 1937 |
|--|---------------------------|---|--|--------------|--------------|
| | Produced in this industry | Produced in other industries within the Machinery (Except Electrical) group | Produced in industries outside the Machinery (Except Electrical) group | | |
| 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..... | \$969,362 | \$1,460,121 | \$41,434 | \$2,470,917 | |
| Number not reported, value..... | \$63,175 | \$996,105 | \$70,935 | \$1,130,215 | |
| 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 | \$723,001 | | \$5,965,080 | \$7,074,911 |
| Over 7½ h. p. and including 100 h. p.— | | | | | |
| Number reported— | | | | | |
| Number..... | 8,598 | 809 | | 9,407 | 7,718 |
| Value..... | \$7,179,358 | \$1,049,715 | | \$8,229,103 | \$9,640,060 |
| Number not reported, value..... | \$1,259,750 | \$183,034 | | \$1,442,784 | \$3,430,385 |
| Over 100 h. p. and including 250 h. p.— | | | | | |
| Number reported— | | | | | |
| Number..... | 272 | 173 | | 445 | 350 |
| 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— | | | | | |
| Number..... | 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— | | | | | |
| Number..... | | 796 | 1,001 | 1,797 | |
| Value..... | | \$215,555 | \$91,264 | \$306,849 | |
| Number not reported, value..... | | \$778,200 | \$102,850 | \$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) | \$449,568 | |
| 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 | | 1,892 | 304,650 | |
| Value..... | \$1,219,372 | | \$32,930 | \$1,252,302 | \$1,067,855 |
| Power (including self-propelled)— | | | | | |
| Number..... | 11,908 | 1,560 | 5,892 | 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) | \$77,963 | \$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— | | | | | |
| Number..... | 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— | | | | | |
| Number..... | 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 | \$83,368 | \$2,129 | \$357,653 | \$253,437 |
| Pump jacks and pumping powers: | | | | | |
| Number reported— | | | | | |
| Number..... | 16,583 | 16,695 | 1,570 | 34,848 | 20,759 |
| Value..... | \$578,310 | \$155,380 | \$21,598 | \$756,288 | \$885,536 |
| Number not reported, value..... | | | | | \$121,720 |
| Cylinders made for sale separately: | | | | | |
| Number reported— | | | | | |
| Number..... | 118,098 | 3,369 | | 121,467 | 169,970 |
| Value..... | \$514,602 | \$10,574 | | \$525,176 | \$893,071 |
| Number not reported, value..... | \$214,469 | \$33,691 | | \$248,160 | |
| Spare parts and attachments..... | \$14,794,481 | \$22,000 | \$49,940 | \$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.

PUMPING EQUIPMENT AND AIR COMPRESSORS

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 | 22,302 | 22,691 | 22,156 | 22,183 | 21,826 | 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 | 46 | 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 | 1,370 | 1,436 | 1,553 | 1,622 | 1,650 | 1,734 | 1,744 | 1,633 |
| Massachusetts..... | 568 | 490 | 603 | 521 | 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 | 556 | 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..... | 2,488 | 2,202 | 2,242 | 2,276 | 2,307 | 2,376 | 2,438 | 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 | 2,336 | 2,405 | 2,480 | 2,551 | 2,570 | 2,611 | 2,659 | 2,828 | 2,919 | 2,857 |
| Oklahoma..... | 233 | 234 | 287 | 264 | 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 | 259 | 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: | 337 |
| Total for the industry..... | 210 |
| Reporting expenditures for plant and equipment..... | |
| 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..... | 23,881,566 | 20,870,900 |
| Materials, supplies, etc..... | 19,641,449 | 17,005,809 |
| 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..... | 103,760 | 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..... | 9,559 |
| 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, ² 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 classification 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 | 330 | 10 | 44 | 9 | 9 | 8 | 7 | 8 |
| Manufacturing: | | | | | | | | |
| Salaried employees ² | 2,051 | 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 | \$22,604,666 | \$863,673 | \$3,444,377 | \$215,895 | \$486,859 | \$533,553 | \$137,847 | \$344,707 |
| Salaried officers ² | 1,711,768 | 97,517 | 220,489 | 39,991 | 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 | 460,132 | 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 | 3,577,743 | 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.

ELEVATORS, ESCALATORS, AND CONVEYORS

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

| ITEM | Michigan | Missouri | New Jersey | New York | Ohio | Pennsylvania | Wisconsin | Other States ¹ |
|---|-------------|-----------|-------------|-------------|-------------|--------------|-----------|---------------------------|
| 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) ³ | 957 | 112 | 927 | 1,914 | 1,077 | 1,098 | 66 | 545 |
| Distribution..... | 49 | 22 | 34 | 183 | 174 | 398 | 18 | 132 |
| Construction..... | | | | | 5 | 83 | | |
| Other..... | | | | 4 | 15 | 56 | | 3 |
| Salaries and wages, total ² | \$2,181,281 | \$219,774 | \$2,217,473 | \$4,380,720 | \$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 | 743,310 | 572,183 | 447,906 | 19,771 | 84,214 |
| Wages..... | 1,652,255 | 103,059 | 1,382,594 | 2,898,352 | 1,438,627 | 1,837,802 | 102,460 | 570,465 |
| Distribution..... | 131,414 | 36,902 | 80,434 | 545,019 | 492,105 | 660,344 | 29,260 | 251,466 |
| Construction..... | | | | | 10,228 | 208,372 | | |
| Other..... | | | | 1,547 | 20,335 | 80,391 | | 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 | 3,375,068 | 3,104,497 | 3,288,363 | 227,470 | 1,222,675 |
| Fuel..... | 12,127 | 1,317 | 45,151 | 53,368 | 49,128 | 28,850 | 2,889 | 10,422 |
| Purchased electric energy..... | 36,593 | 2,838 | 55,763 | 124,090 | 50,175 | 54,430 | 4,359 | 21,412 |
| Contract work..... | 27,110 | 3,665 | 76,039 | 13,672 | 201,392 | 68,030 | 2,101 | 750 |
| Value of products..... | 5,937,365 | 660,904 | 8,130,662 | 11,553,577 | 9,161,828 | 8,971,839 | 544,772 | 3,055,171 |
| Value added by manufacture ⁴ | 2,987,736 | 395,282 | 5,662,233 | 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.
⁵ 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..... | \$64,123,051 | \$69,292,304 |
| Elevators, escalators, and conveyor systems (other than coal and ore conveyors), equipment, parts and attachments made in this industry..... | 47,874,656 | 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..... | 56,927,671 | 69,133,133 |
| Elevators, escalators, and conveyors made in the industry..... | 47,874,656 | 54,322,011 |
| Elevators, escalators, and conveyors made as secondary products in other industries, total..... | 9,053,015 | 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.

CENSUS OF MANUFACTURES: 1939

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..... | \$47,874,656 | \$9,053,015 | \$56,927,671 | \$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..... | | | | \$996,242 |
| Conveying and elevating machinery: | | | | |
| Belt type..... | \$5,763,791 | \$1,297,490 | \$7,061,280 | \$9,821,223 |
| Bucket type..... | \$2,030,507 | \$934,683 | \$2,965,190 | \$3,038,814 |
| Gravity type..... | \$1,032,293 | \$65,493 | \$1,097,786 | \$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 | \$11,823,607 |
| 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 | \$4,248,514 | \$5,830,792 |
| Not reported by number, value..... | \$203,301 | \$92,923 | \$296,224 | \$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 | \$2,000 |
| 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..... | \$178,996 | \$50,137 | \$229,133 | \$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 |

ELEVATORS, ESCALATORS, AND CONVEYORS

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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 | \$199,000 |
| 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..... | \$84,128,051 |
| 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]

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 | 4,963,524 | 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.

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 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 | 23 |
| Proprietors and firm members..... | 17 | 3 | ..... | 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) ⁴ | 2,732 | 25 | 380 | 491 | 554 | 1,282 |
| Distribution..... | 419 | 6 | 134 | 20 | 121 | 138 |
| Construction..... | 2 | ..... | ..... | ..... | 2 | ..... |
| Other..... | 8 | ..... | ..... | 2 | 5 | 1 |
| Salaries and wages, total ⁵ | \$5,330,131 | \$64,106 | \$913,128 | \$680,608 | \$1,147,066 | \$2,524,325 |
| Salaried officers ⁴ | 436,066 | 7,560 | 56,500 | 60,100 | 110,487 | 202,319 |
| Manufacturing: | | | | | | |
| Salaries ⁵ | 893,966 | 7,072 | 194,388 | 77,714 | 155,328 | 458,564 |
| Wages..... | 3,149,208 | 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 | 1,315,986 | 1,517,714 | 3,303,600 |
| Fuel..... | 108,250 | 131 | 10,473 | 24,457 | 23,348 | 49,841 |
| Purchased electric energy..... | 147,906 | 1,577 | 33,025 | 21,503 | 26,237 | 65,564 |
| Contract work..... | 55,541 | ..... | ..... | 360 | 2,085 | 53,096 |
| Value of products..... | 17,319,579 | 228,707 | 3,020,825 | 2,647,887 | 3,372,443 | 8,040,717 |
| Value added by manufacture ⁵ | 9,518,658 | 115,400 | 1,737,007 | 1,285,582 | 1,803,059 | 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

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

| | 1939 | 1937 |
|--|--------------|--------------|
| Cars and Trucks, Industrial industry, all products, total value..... | \$17,319,579 | \$25,087,974 |
| Cars and trucks, parts, and attachments made in this industry..... | 13,011,242 | 19,376,322 |
| Miscellaneous products not specified..... | 11,654 | 5,740,992 |
| Other products (not classified in this industry)..... | 1 3,821,315 | 581,600 |
| Receipts for contract and repair work..... | 475,368 | |
| Cars and trucks, industrial, total value..... | 2 16,534,074 | 3 22,080,761 |
| Cars and trucks, parts, and attachments made in this industry..... | 13,011,242 | 19,376,322 |
| 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..... | \$2,166,285 | \$233,450 | \$2,399,744 | \$5,012,686 |
| Number not reported, value..... | \$2,079,608 | \$773,303 | \$2,852,911 | \$1,099,893 |
| Electric (including storage-battery)— | | | | |
| Number reported— | | | | |
| Number..... | 1,000 | 155 | 1,155 | |
| Value..... | \$3,752,116 | \$665,820 | \$4,417,936 | \$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 | \$2,597,106 | |
| Number not reported, value..... | \$341,112 | \$118,852 | \$460,004 | |
| Industrial (other than hand or electric): | | | | |
| Number reported— | | | | |
| Number..... | 7,516 | 1,859 | 9,375 | \$6,193,088 |
| Value..... | \$919,169 | \$580,166 | \$1,479,319 | |
| Number not reported, value..... | | \$155,973 | \$155,973 | |
| Parts and attachments, value..... | \$1,904,395 | | \$1,904,395 | \$3,189,365 |

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 | 2,701 | 2,883 | 3,114 | 3,179 |
| 1937..... | 3,819 | 3,670 | 3,701 | 3,717 | 3,892 | 3,954 | 4,055 | 4,092 | 4,079 | 3,951 | 3,820 | 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 | 364 | 355 | 360 | 382 | 424 | 438 | 434 |
| Michigan..... | 491 | 480 | 483 | 485 | 464 | 455 | 449 | 500 | 504 | 508 | 505 | 531 | 523 |
| New Jersey..... | 27 | 20 | 21 | 22 | 23 | 32 | 30 | 27 | 30 | 24 | 23 | 30 | 37 |
| 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..... | 68,606 |

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..... | 1,793,615 | 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..... | 13,192 |
| Driven by energy generated in establishments reporting— | |
| Number..... | 181 |
| Horsepower..... | 1,349 |
| Electric energy (kilowatt-hours): | |
| Generated in plant..... | 711,605 |
| Purchased..... | 0,047,773 |

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 | \$11,707,721 | \$28,606,349 | \$16,838,628 | 1,770 |
| 1937..... | 42 | 3,997 | \$5,845,251 | \$12,730,708 | \$30,264,909 | \$17,634,141 | (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 | 74 | 11 | 8 | 2 | 2 |
| Other..... | 82 | 1 | 1 | 74 | 11 | 8 | 2 | 7 |
| Salaries and wages, total ⁵ | \$9,063,141 | \$348,103 | \$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 | 380,018 |
| 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..... | 1,743,697 | 60,643 | 14,980 | 402,402 | 50,170 | 13,890 | 4,407 | 1,188,190 |
| Construction..... | 25,105 | 3,086 | 18,302 | 18,302 | 18,302 | 18,302 | 18,302 | 3,717 |
| Other..... | 141,958 | 888 | 888 | 132,890 | 132,890 | 132,890 | 132,890 | 8,180 |
| Cost of materials, supplies, fuel, purchased electric energy, and contract work, total..... | \$11,707,721 | \$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 | 7,216 | 1,290 | 46,016 |
| Contract work..... | 107,728 | 500 | 994 | 42,776 | 66,444 | 8,855 | 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 ⁵ | \$16,838,628 | \$744,494 | \$160,275 | \$4,416,369 | \$1,391,785 | \$434,949 | \$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 | |
| Receipts for contract and repair work..... | 238,610 | 574,209 |
| Blowers; exhaust and ventilating fans, aggregate value..... | 24,561,195 | 26,292,451 |
| 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 | \$916,019 |
| 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 | 3,792 | 4,045 | 4,161 | 4,136 | 4,048 | 4,003 | 4,045 | 4,074 | 4,046 |
| 1937 | 3,997 | 3,454 | 3,585 | 3,804 | 3,970 | 4,212 | 4,479 | 4,513 | 4,374 | 4,146 | 3,980 | 3,832 | 3,610 |
| California | 131 | 68 | 97 | 126 | 165 | 209 | 192 | 174 | 184 | 105 | 98 | 101 | 111 |
| Louisiana | 28 | 22 | 24 | 30 | 30 | 30 | 37 | 53 | 31 | 24 | 24 | 25 | 25 |
| Michigan | 715 | 609 | 624 | 620 | 654 | 697 | 694 | 755 | 753 | 762 | 770 | 822 | 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 | \$8,621,130 | \$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 | 30,264,000 |
| 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 | \$30,684,434 | \$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 ⁵ | 48 | 5,559 | 7,572,861 | 11,707,296 | 35,302,161 | 23,504,805 | 944 |
| "TESTING EQUIPMENT AND GAGES AND CONTROLS NOT ELSEWHERE CLASSIFIED" BRANCH OF THE INDUSTRY | | | | | | | |
| 1939 ⁵ | 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 | 1 | 2 | 1 | 1 | 1 | 9 |
| Persons reported by manufacturing establishments, total ³ | 8,556 | 583 | 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 | 1 | 1 | 1 | 1 | 14 | 1 |
| Other..... | 28 | 1 | 1 | 1 | 3 | 10 | 7 | 6 |
| Salaries and wages, total ³ | \$13,102,996 | \$930,587 | \$1,682,342 | \$78,189 | \$542,086 | \$2,409,927 | \$3,776,782 | \$3,598,483 |
| 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 | 894,822 | 24,148 | 371,879 | 1,838,212 | 2,900,592 | 2,217,127 |
| Distribution..... | 1,070,478 | 140,601 | 288,599 | 12,221 | 55,845 | 244,561 | 81,912 | 206,789 |
| Construction..... | 16,203 | 1 | 1 | 1 | 1,125 | 1 | 15,078 | 1 |
| Other..... | 33,491 | 987 | 1,119 | 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 | 1,469,857 | 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 | 1,173 | 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.

MEASURING INSTRUMENTS, MECHANICAL

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 | 4,719,076 | 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 | 790,768 | Meters (except electric), made as secondary products in other industries..... | 1,476,738 | |
| Receipts for contract and repair work..... | 975,634 | | 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..... | 247,766 | |
| Mechanical measuring instruments made as secondary products in other industries..... | 4,865,228 | 3,506,615 | Other products (not classified in this industry)..... | 54,590 | |
| 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..... | 7,881,533 | (2) |
| 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..... | 765,705 | 3,169 | 768,874 | Pressure indicating, recording, and controlling equipment (other than meters called for above)..... | \$647,953 | | \$647,953 |
| Value..... | \$7,467,933 | \$45,019 | \$7,512,952 | Other meters..... | \$608,278 | \$243,743 | \$852,021 |
| Water..... | | | | Parts of meters..... | \$3,987,728 | | \$3,987,728 |
| Number..... | 567,841 | 8,709 | 576,550 | Testing equipment, gages and controls, etc., not elsewhere classified ² | \$4,493,343 | \$3,388,490 | \$7,881,833 |
| Value..... | \$6,541,606 | \$108,453 | \$6,650,059 | | | | |
| Other liquid (including gasoline dispensing)..... | \$5,302,767 | \$353,803 | \$5,656,570 | | | | |

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..... | 7,460 | 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 | 302 | 397 | 392 | 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 Jersey..... | 302 | 291 | 293 | 236 | 246 | 263 | 327 | 320 | 333 | 325 | 319 | 327 | 330 |
| New York..... | 1,282 | 1,214 | 1,241 | 1,261 | 1,263 | 1,274 | 1,273 | 1,281 | 1,282 | 1,287 | 1,319 | 1,338 | 1,337 |
| Ohio..... | 291 | 277 | 279 | 276 | 280 | 284 | 284 | 282 | 281 | 280 | 312 | 318 | 335 |
| 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 | 165 | 192 | 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 | 41,022,350 |
| Value for establishments not reporting inventories..... | | | | 1,055,014 |

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 | 56,524,366 | 181,278,250 | 124,768,884 | (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 | 2,800 | 4,274 | 9,781 |
| Salaried officers of corporations ³ | 380 | 0 | 42 | 51 | 20 | 29 | 21 | 48 | 58 | 93 |
| Manufacturing: | | | | | | | | | | |
| Salaried employees ³ | 4,352 | 47 | 1,103 | 216 | 479 | 248 | 119 | 381 | 642 | 1,117 |
| Wage earners (average for the year) ⁴ | 30,268 | 104 | 8,680 | 1,691 | 3,513 | 1,153 | 1,362 | 2,177 | 3,193 | 8,299 |
| Distribution..... | 2,124 | 22 | 622 | 118 | 493 | 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 ⁵ | \$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 | 3,482,635 | 61,544 | 534,065 | 483,919 | 362,013 | 272,159 | 216,775 | 353,344 | 597,029 | 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 | 27,109 |
| Other..... | 185,870 | 4,349 | 54,380 | 6,581 | 20,269 | 3,808 | ..... | 5,052 | 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 | 4,546,850 | 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 | 72,276 | 149,546 | 28,347 | 20,723 | 111,177 | 118,650 | 304,125 |
| Purchased electric energy..... | 1,958,853 | 12,624 | 626,566 | 122,297 | 186,962 | 80,850 | 204,590 | 130,226 | 104,062 | 400,730 |
| Contract work..... | 383,474 | 7 | 2,549 | 40,809 | 4,083 | 36,694 | 13,500 | 56,163 | 97,765 | 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 | 12,831,423 | 20,539,884 | 49,247,533 |
| Value added by manufacture ⁵ | 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 | 168,560,921 |
| Miscellaneous products not specified..... | 291,458 | ..... |
| Other products (not classified in this industry)..... | 19,564,028 | 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 | 168,560,921 |
| 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 | 1,033,338 |
| Roller bearings..... | 45,769,310 | 1,662,958 | 47,432,268 | 59,724,837 |
| Rolls for sale as such..... | 1,003,955 | 7,280 | 1,011,235 | 1,110,416 |
| Other parts..... | 566,050 | 5,844 | 571,894 | 199,912 |
| Power-transmission equipment: | | | | |
| Chain drives..... | 17,280,806 | 197,667 | 17,478,473 | 25,258,742 |
| Variable-speed drives..... | 3,293,257 | 975,777 | 4,269,034 | 1,200,868,375 |
| 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 | 28,965 | 29,670 | 29,225 | 28,295 | 28,380 | 28,638 | 29,156 | 30,397 | 32,582 | 34,153 | 35,180 |
| 1937..... | 33,029 | 30,693 | 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 | 1,292 | 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 | 1,999 | 1,987 | 1,979 | 2,013 | 2,080 | 2,145 | 2,237 | 2,428 | 2,683 | 2,630 |
| Ohio..... | 5,006 | 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..... | 6,060,920 |

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..... | \$242,334 |
| 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 | 14,791,969 |
| Materials, supplies, etc..... | 24,393,044 | 17,589,885 |
| 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 | 170,207,393 |
| Value for establishments not reporting inventories..... | 81,591 | 2,070,857 |

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..... | 2,300 |
| 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..... | 31,431 |
| Prime movers, driving generators, ordinarily idle (included above), horsepower..... | 3,500 | Horsepower..... | 180,196 |
| 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..... | 460,880 |
| | | 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 | \$14,087,826 | 3,008 |
| 1937 ⁴ | 50 | 3,529 | 5,091,936 | 9,870,241 | 25,576,640 | 15,007,390 | (*) |

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 | 172,695 | 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 | 591,489 |
| Materials and supplies..... | 9,435,593 | 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 | 32,193 | 76,092 | 733 | 14,399 |
| Contract work..... | 57,642 | 506 | | | 278 | 509 | 50,098 | | | 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 | 5,039,790 | 84,272 | 1,570,769 |
| Value added by manufacture ⁵ | 14,087,826 | 2,791,672 | 1,167,051 | 1,764,603 | 269,379 | 833,527 | 3,298,695 | 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)..... | 15,983,720 | |
| Receipts for contract and repair work..... | 720,032 | 973,902 |
| 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 | (1) |
| Produced in industries outside the Machinery (Except Electrical) group..... | 3,047,087 | |

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 | | | Aggregate | 1937 |
|---|--------------------------|---|--|--------------|--------------|
| | Produced in the industry | Produced in other industries within the Machinery (Except Electrical) group | Produced in industries outside the Machinery (Except Electrical) group | | |
| 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..... | \$77,468 | \$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 | \$41,268 | \$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 | 3,258 | 3,321 | 3,390 | 3,485 | 3,578 | 3,602 | 3,840 | 3,885 | 3,916 | 3,801 |
| 1937..... | 3,620 | 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 | 702 | 788 | 701 | 785 | 785 | 809 | 857 | 889 | 871 | 846 | 798 |
| Indiana..... | 325 | 258 | 205 | 256 | 274 | 286 | 290 | 351 | 411 | 450 | 445 | 333 | 277 |
| Michigan..... | 280 | 220 | 239 | 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..... | 179 | 170 | 167 | 167 | 168 | 178 | 178 | 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 | 29 | 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 | 2,233,488 |
| 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..... | 12,966,164 |

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 | \$194,457,436 | \$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 | 141,492,984 | 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 | 21,936 | 31,178,421 | 52,964,472 | 140,628,049 | 87,663,577 | 13,395 |
| 1937 | 867 | 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 | 73 | 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 ² | 12,202,643 | 60,084 | 4,800 | 519,779 | 39,111 | 187,449 | 37,437 | 70,030 | ----- | 1,345,919 | 454,987 |
| Manufacturing: | | | | | | | | | | | |
| Salaries ² | 19,404,075 | 94,510 | 10,551 | 966,016 | 24,300 | 416,613 | 20,032 | 91,175 | 24,700 | 1,905,431 | 1,300,382 |
| Wages..... | 81,659,539 | 404,533 | 53,897 | 4,017,831 | 124,875 | 1,622,732 | 109,113 | 408,367 | 74,035 | 7,600,098 | 4,615,633 |
| Distribution..... | 10,967,216 | 10,188 | 8,050 | 489,397 | 13,652 | 177,739 | 47,440 | 17,782 | 4,008 | 1,004,065 | 344,851 |
| Construction..... | 477,095 | ----- | ----- | 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 | 400,886 | 470,850 | 132,248 | 10,867,792 | 9,034,490 |
| Materials and supplies..... | 132,786,360 | 622,751 | 50,842 | 6,976,502 | 201,044 | 2,070,371 | 403,845 | 439,668 | 122,748 | 10,036,510 | 8,565,100 |
| Fuel..... | 3,169,747 | 22,852 | 723 | 81,260 | 6,901 | 95,828 | 2,412 | 12,647 | 5,632 | 322,063 | 214,592 |
| Purchased electric energy..... | 3,847,681 | 14,604 | 2,032 | 162,550 | 6,957 | 126,483 | 3,629 | 18,595 | 3,868 | 359,068 | 246,452 |
| Contract work..... | 1,689,106 | 29,802 | 117 | 151,330 | 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 | 23,886,281 |
| 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 | 283 | 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 | 50 | 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 | \$6,652,597 | \$18,452,732 | \$838,317 | \$148,892 | \$2,700,278 |
| Salaried officers ² | 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 ² | 213,209 | 12,572 | 289,200 | 37,808 | 64,979 | 480,002 | 770,908 | 2,036,786 | 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 | 103,529 | 13,827 | 301,269 |
| Construction..... | 800 | ----- | ----- | ----- | ----- | 6,670 | 122,024 | 35,823 | ----- | 480 | 10,872 |
| Other..... | 830 | ----- | ----- | 676 | 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 | 4,725,746 | 18,951,255 | 684,791 | 217,510 | 3,616,711 |
| 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 | 8,865 | 72,946 | 239,531 | 641,825 | 38,570 | 4,488 | 68,777 |
| Contract work..... | 226 | ----- | 3,504 | 4,600 | 198 | 2,736 | 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 | 367,651 | 3,012,353 | 8,808,941 | 30,686,588 | 1,679,989 | 219,985 | 5,554,838 |

See footnotes at end of table.

INDUSTRIAL MACHINERY; MACHINE-SHOP PRODUCTS

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 | 216 |
| Proprietors and firm members..... | | 12 | 5 | 44 | 136 | 17 | 3 | 61 | 22 | 16 | 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 | 4,898 | 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 | \$5,046,225 | \$9,614,300 | \$589,971 | \$9,059 | \$16,968,148 | \$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 | 1,429,240 |
| Manufacturing: | | | | | | | | | | | |
| Salaries ³ | 17,997 | 11,845 | 6,729 | 896,341 | 1,523,394 | 95,392 | | 2,304,289 | 55,607 | 99,982 | 3,192,388 |
| Wages..... | 82,822 | 84,882 | 55,865 | 2,981,596 | 6,268,155 | 351,154 | 6,586 | 11,637,050 | 198,080 | 617,088 | 11,074,506 |
| Distribution..... | 13,579 | 45,326 | | 750,658 | 449,726 | 38,482 | 2,473 | 1,321,149 | 54,854 | 30,604 | 2,148,107 |
| Construction..... | | | | 20,602 | 21,911 | | | 13,531 | | | 112,210 |
| Other..... | 540 | 1,800 | | 198,193 | 22,576 | 2,544 | | 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 | 496,197 | 7,934 | 17,213,783 | 271,053 | 957,124 | 16,354,967 |
| Materials and supplies..... | 105,992 | 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 | 91,366 | 328,977 | 9,046 | 1,460 | 370,626 | 6,078 | 10,739 | 507,046 |
| Purchased electric energy..... | 4,290 | 3,723 | 2,069 | 140,915 | 288,862 | 13,029 | 493 | 514,929 | 10,624 | 29,741 | 483,611 |
| Contract work..... | | 21 | | 45,797 | 63,954 | | | 273,998 | 150 | 600 | 709,988 |
| Value of products..... | 286,280 | 512,944 | 207,449 | 15,547,720 | 27,393,190 | 1,407,742 | 16,775 | 46,784,893 | 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 | 160 | 481 | 304 | 2,428 | 40 | 343 |
| Salaried officers of corporations ³ | 14 | 5 | 7 | 36 | 1 | 16 | 20 | 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 | 100 | 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 | 23,710 | 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 | 67,538 |
| Wages..... | 621,485 | 79,817 | 378,707 | 790,313 | 12,270 | 140,260 | 487,111 | 366,045 | 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 | | | 1,719 | | 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 | 254,603 | 886,951 | 1,130,390 | 4,746,840 | 62,571 | 799,895 |
| 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 | 15,908 |
| 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 | 440,633 | 1,004,231 | 637,238 | 6,075,981 | 125,664 | 1,449,963 |

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 | 46 | 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 | 3 | 2 | ----- | 14 | ----- | ----- | ----- | 12 | 9 | 4 | 1 |
| Salaries and wages, total ⁴ | \$51,694,364 | \$2,906,815 | \$431,497 | \$295,130 | \$5,222,870 | \$1,222,047 | \$248,744 | \$293,826 | \$3,476,021 | \$3,204,221 | \$741,656 | \$517,105 |
| Salaried officers ² | 5,262,471 | 235,264 | 125,274 | 59,009 | 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 | 656,452 | 51,226 | 54,409 |
| Wages..... | 31,178,421 | 1,744,439 | 218,693 | 176,855 | 2,955,940 | 561,763 | 161,316 | 132,741 | 2,025,210 | 1,866,526 | 363,014 | 279,370 |
| Distribution..... | 4,916,370 | 346,282 | 30,224 | 34,929 | 734,419 | 356,901 | 10,969 | 20,913 | 424,173 | 342,289 | 227,088 | 41,037 |
| Construction..... | 250,811 | 66,068 | ----- | ----- | 17,181 | ----- | ----- | ----- | 24,524 | 18,392 | ----- | ----- |
| Other..... | 172,319 | 3,539 | 2,082 | ----- | 15,399 | ----- | ----- | ----- | 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..... | 694,696 | 67,786 | 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 | 1,149,300 | 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 | 35 | 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 | 697 | 11 | 25 | 46 | 39 | 3 | 104 | 300 |
| 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 | 2 | ----- | 7 | 55 |
| Salaries and wages, total ⁴ | \$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 | 657,394 | 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 | 3,274,569 | 48,494 | 159,828 | 3,695,542 | 92,069 | 172,150 | 193,533 | 536,083 | 12,978 | 605,264 | 3,162,140 |
| Distribution..... | 318,402 | 342,076 | 495,934 | ----- | 10,875 | 736,197 | ----- | 22,373 | 21,842 | 40,795 | ----- | 47,519 | 296,133 |
| Construction..... | 54,170 | 7,101 | 8,480 | ----- | ----- | 20,140 | ----- | ----- | 2,675 | 3,297 | 4,482 | ----- | 24,301 |
| Other..... | 11,307 | 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 | 6,920,365 | 62,581 | 302,187 | 6,828,250 | 30,332 | 420,593 | 487,344 | 625,536 | 16,042 | 1,171,346 | 3,425,134 |
| Fuel..... | 260,077 | 113,437 | 113,932 | 713 | 6,283 | 130,376 | 2,230 | 885 | 3,694 | 22,867 | 654 | 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 | 964 | 27,323 | 129,824 |
| Contract work..... | 18,134 | 54,750 | 30,286 | 100 | ----- | 104,282 | 3,200 | 8,556 | 3,350 | 12,460 | ----- | 80,005 | 65,385 |
| Value of products..... | 23,185,379 | 13,051,264 | 15,816,472 | 181,419 | 684,908 | 17,604,705 | 231,435 | 909,680 | 1,292,239 | 1,767,322 | 54,366 | 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

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..... | 403,194,596 | 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..... | 473,680,154 | 584,439,783 |
| Industrial machinery and machine-shop products made in these industries..... | 403,194,596 | 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 | | | Aggregate | 1937 |
|---|--------------------------|---|--|---------------|---------------|
| | Produced in the industry | Produced in other industries in the Machinery (Except Electrical) group | Produced in industries outside the Machinery (Except Electrical) group | | |
| Total value..... | \$403,194,596 | \$43,653,487 | \$26,832,071 | \$478,680,154 | \$584,439,783 |
| Cement and concrete machinery (not including cement-making machinery or concrete mixers) ¹ : | | | | | |
| Cement and concrete-block machines— | | | | | |
| Reported by number— | | | | | |
| 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 | \$2,363,011 | \$2,547,030 |
| Not reported by number, value..... | \$207,440 | | \$11,575 | \$279,016 | \$294,982 |
| Foundry machinery: | | | | | |
| Molding machines— | | | | | |
| Reported by number— | | | | | |
| Number..... | 1,613 | | | 1,613 | 2,385 |
| Value..... | \$1,213,521 | | | \$1,213,521 | \$1,798,449 |
| Not reported by number, value..... | \$163,866 | \$101,440 | \$58,205 | \$323,520 | \$1,258,234 |
| Tumbling and burnishing barrels..... | \$120,251 | \$37,800 | \$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 | \$48,948 | \$6,653,486 | \$6,910,350 |
| 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 | | \$1,345,471 | \$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 | \$3,079,160 |
| 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 | 962,205 |
| Value..... | \$2,639,841 | | | \$2,639,841 | \$2,414,053 |
| Not reported by number, value..... | | | \$261,082 | \$291,082 | \$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 | \$68,393,181 | \$93,933,864 |

See footnotes at end of table.

MACHINE-SHOP REPAIRS

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 | 8,876 | 8,912 | 9,070 | 9,097 | 9,095 | 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 | 110 | 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 | 0 | 8 | 8 | 0 | 11 | 0 | 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 | 468 | 459 | 469 | 479 | 469 | 462 | 508 | 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 | 167 | 146 | 163 | 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 | 324 | 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 | 452 | 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 | 769 | 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 | 267 | 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 |

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 | \$116,593,378 |
| Finished products, materials, supplies, etc..... | 34,418,530 | 13,188,015 | 47,606,545 | 40,308,485 |
| End of year, total..... | 44,293,916 | 18,748,210 | 63,042,135 | 67,284,893 |
| Finished products, materials, supplies, etc..... | 86,080,260 | 36,995,745 | 123,076,005 | 141,374,293 |
| Value of products for the industry, total..... | 34,800,281 | 13,051,973 | 47,852,254 | 61,410,294 |
| Value for establishments reporting no inventories on hand..... | 52,179,979 | 23,943,772 | 76,123,751 | 79,954,990 |
| Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)..... | 360,334,229 | 140,628,049 | 500,962,278 | 629,476,526 |
| Value for establishments not reporting inventories..... | 3,308,022 | 448,918 | 3,847,840 | 18,253,249 |

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 | 8,631 |
| 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 | 19,132 |
| Horsepower..... | 329,540 | 166,824 |
| 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 | 41,751 |
| 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 | 29,344,035 | (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 | 156 | 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 | \$28,756 | \$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 | ----- | ----- | ----- | 1,808 | ----- | ----- | ----- | ----- | ----- | ----- |
| Cost of materials, supplies, fuel, purchased electric energy, and contract work, total..... | 10,997,646 | 131,881 | 13,447 | 138,661 | 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 | 53,024 | 10,470 | 46,130 | 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 | 1,638 |
| Value of products..... | 38,166,267 | 457,709 | 73,061 | 570,294 | 3,365,615 | 325,662 | 226,784 | 39,504 | 180,393 | 759,854 | 461,279 |
| Value added by manufacture ⁴ | 27,168,621 | 325,823 | 50,614 | 381,633 | 2,354,701 | 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 | \$944,010 | \$257,335 | \$118,645 | \$204,457 | \$139,552 | \$411,295 | \$51,303 | \$271,000 | \$312,747 | \$706,721 |
| Salaried officers ² | ----- | 63,125 | 26,187 | 8,687 | 1,545 | 12,956 | 28,930 | ----- | 52,905 | 38,182 | 59,007 |
| Manufacturing: | | | | | | | | | | | |
| Salaries ² | 185 | 96,797 | 10,698 | 8,015 | 13,926 | 24,966 | 29,192 | 1,560 | 18,628 | 30,000 | 73,327 |
| Wages..... | 36,433 | 776,493 | 218,880 | 100,178 | 177,529 | 151,630 | 326,382 | 47,199 | 106,300 | 243,265 | 525,334 |
| Distribution..... | 1,800 | 8,248 | 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..... | 24,938 | 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 | 1,518 | 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..... | 94,091 | 1,904,664 | 564,017 | 329,346 | 510,839 | 335,812 | 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 | 236,740 | 926,639 | 92,099 | 417,676 | 600,408 | 1,173,385 |

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 | \$56,051 | \$1,080,106 | \$388,540 | \$779,957 | \$326,348 |
| Salaried officers ² | 30,170 | 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 | 3,300 | 5,563 | 2,720 | 52,587 | 3,945 | 153,991 | 50,963 | 87,244 | 43,247 |
| Wages..... | 126,643 | 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 | 30,271 | 1,222,298 | 479,489 | 476,878 | 191,727 |
| Materials and supplies..... | 95,340 | 135,364 | 368,069 | 43,073 | 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 | 1,046,196 | 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 | 83 | 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 | 151 | 658 | 28 | 61 | 225 | 765 | 9 | 233 | 253 | 131 | 121 | 21 |
| Distribution..... | ----- | 4 | 1 | 2 | 2 | 43 | ----- | 2 | 7 | 1 | 1 | ----- |
| Construction..... | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 1 | ----- | ----- | ----- |
| Other..... | ----- | 2 | ----- | ----- | 1 | 5 | ----- | ----- | 1 | ----- | 3 | ----- |
| 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 | ----- | 87,880 | 67,024 | 18,584 | 26,416 | 14,250 |
| Manufacturing: | | | | | | | | | | | | |
| Salaries ² | 15,334 | 110,639 | 4,626 | 5,009 | 34,759 | 127,673 | 2,271 | 38,318 | 42,643 | 23,387 | 14,487 | 9,191 |
| Wages..... | 204,412 | 865,007 | 30,236 | 60,472 | 239,028 | 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..... | ----- | 1,078 | ----- | ----- | 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 | 5,584 | 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 | ----- | 433 | 6,176 | ----- | 1,048 | 5,706 | ----- | 447 | ----- |
| Value of products..... | 605,070 | 2,504,660 | 145,413 | 183,023 | 836,204 | 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 | 323,246 | 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

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 | 8,876 | 8,912 | 9,070 | 9,097 | 9,095 | 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 | 110 | 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 | 0 | 8 | 8 | 0 | 11 | 0 | 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 | 468 | 459 | 469 | 479 | 469 | 462 | 508 | 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 | 295 | 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 | 167 | 146 | 163 | 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 | 324 | 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 | 452 | 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 | 267 | 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 | 2,119,070 |
| 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: 1939¹

| | 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..... | 3,199 |
| 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 | 861 | 12,445 | 2,355 | 129 | 12,050 | 15,704 |
| Salaried officers of corporations ³ | 197 | 9 | 7 | 31 | 7 | 57 | 86 |
| Manufacturing: | | | | | | | |
| Salaried employees ³ | 5,811 | 131 | 1,224 | 400 | 14 | 1,642 | 2,304 |
| Wage earners (average for the year) ⁴ | 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 | 30 |
| Salaries and wages, total ³ | \$97,676,777 | \$1,421,354 | \$16,160,711 | \$3,556,009 | \$170,200 | \$18,002,770 | \$28,305,673 |
| Salaried officers ³ | 1,043,881 | 63,818 | 110,708 | 186,830 | 47,355 | 387,351 | 1,138,813 |
| Manufacturing: | | | | | | | |
| Salaries ³ | 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 | 295,280 | 9,325 | 328,002 | 2,630,718 |
| Construction..... | 329,512 | 6,942 | 191,170 | 2,536 | | 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 | 3,992,353 | 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 | 3,610 | 20,782 | 64,210 |
| Value of products..... | 150,170,237 | 5,912,868 | 28,741,608 | 11,634,600 | 940,875 | 30,818,254 | 72,122,023 |
| Value added by manufacture ⁵ | 121,027,465 | 5,184,169 | 22,845,147 | 7,042,253 | 429,907 | 21,010,746 | 63,906,246 |

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.

CENSUS OF MANUFACTURES: 1939

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 | \$11,626,093 |

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 | \$5,009,220 |
| 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 | \$6,760,423 |
| Parts and attachments for other business machines..... | \$9,809,004 | \$12,315,657 |
| Reconditioned and rebuilt machines, other than typewriters ⁴ | \$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 | 1,883 | 1,908 | 1,924 |
| Massachusetts..... | 338 | 339 | 338 | 338 | 346 | 347 | 322 | 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 | 5,980 | 5,953 | 5,991 |
| Pennsylvania..... | 119 | 244 | 245 | 249 | 246 | 246 | 29 | 29 | 29 | 29 | 29 | 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..... | 4,452,399 |
| Expenditures for new construction or major alterations of buildings and other fixed plant and structures..... | 373,444 |
| Expenditures for new machinery and operating equipment..... | 3,943,053 |
| 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 | 19,924,096 |
| Materials, supplies, etc..... | 36,306,862 | 20,628,931 |
| End of year, total..... | 56,858,473 | 61,764,404 |
| Finished products..... | 21,541,704 | 24,374,734 |
| Materials, supplies, etc..... | 35,316,769 | 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: 1939¹—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..... | 23,136 |
| 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..... | 19,000 |
| 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..... | 59,825 |
| 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..... | 35,664,068 |

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 | 5,186,695 | 12,958,541 | 27,367,616 | 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 | 63,595 |
| Wages..... | 4,631,710 | 24,878 | 4,167,936 | 178,588 | 19,434 | 240,874 |
| Distribution..... | 786,209 | ..... | 737,467 | 29,169 | 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..... | 73,129 | 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)..... | 15, 235, 438 | 53, 633 |
| Receipts for contract and repair work..... | 131, 209 | |
| 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 — | | \$10, 551, 072 |
| Number reported— | | ² \$3, 347, 433 |
| Number..... | 2, 741 | |
| Value..... | \$161, 731 | |
| 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, 035 |
| 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..... | 23,907 |
| 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 | 3,318,542 |
| 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 | 27,367,616 |
| Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)..... | 22,946,137 | 27,307,456 |
| Value for establishments not reporting inventories..... | 196,745 | 60,160 |

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

| | 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 | \$14,350,068 | \$9,362,554 | 644 |
| 1937 | 57 | 3,299 | 4,115,410 | 5,857,970 | 17,859,392 | 11,098,413 | (5) |
| 1935 | 56 | 2,468 | 2,633,489 | 3,815,701 | 13,383,520 | 9,507,759 | (5) |
| 1933 | 45 | 2,137 | 1,825,009 | 2,101,677 | 8,332,006 | 6,171,229 | (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 | 3,006 | 5,460,742 | 7,453,927 | 24,655,442 | 17,201,615 | 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 | 4,427,986 | 4,716,313 | 16,884,770 | 11,168,467 | (4) |
| 1919 | 70 | 5,432 | 6,533,078 | 6,093,082 | 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 | 8,785,642 | 6,081,645 | 2,552 |
| 1904 | 85 | 3,133 | 1,754,789 | 1,633,150 | 6,002,638 | 4,360,488 | 2,802 |
| 1899 | 86 | 2,775 | 1,436,839 | 1,533,376 | 6,230,788 | 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 ³ | 82 | 24 | 9 | 11 | 9 | 4 | 25 |
| Manufacturing: | | | | | | | |
| Salaried employees ³ | 523 | 57 | 55 | 62 | 141 | 19 | 102 |
| Wage earners (average for the year) ⁴ | 2,839 | 503 | 214 | 458 | 518 | 80 | 1,006 |
| Distribution | 306 | 68 | 37 | 32 | 57 | 11 | 31 |
| Construction | 0 | — | — | — | — | — | — |
| Other | 1 | 1 | 2 | — | — | — | 4 |
| Salaries and wages, total ⁵ | \$5,566,413 | \$911,375 | \$560,062 | \$922,227 | \$1,355,263 | \$120,616 | \$1,609,871 |
| Salaried officers ³ | 469,713 | 138,126 | 62,668 | 101,198 | 50,077 | 8,380 | 102,355 |
| Manufacturing: | | | | | | | |
| Salaries ³ | 1,048,061 | 99,732 | 89,063 | 127,030 | 395,176 | 21,807 | 315,853 |
| Wages | 3,306,476 | 551,602 | 320,294 | 431,011 | 757,585 | 78,846 | 1,107,133 |
| Distribution | 734,347 | 121,031 | 86,821 | 262,988 | 146,525 | 17,873 | 100,109 |
| Construction | 6,932 | — | 1,216 | — | — | — | — |
| Other | 884 | 884 | — | — | — | — | 5,710 |
| Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total | 4,927,514 | 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 | 9,268 | 14,455 | 20,483 | 2,545 | 43,450 |
| Contract work | 87,835 | 24,449 | — | 8,027 | 7,000 | — | 48,359 |
| Value of products | 14,350,068 | 2,620,775 | 1,177,915 | 2,432,127 | 3,706,920 | 288,596 | 4,007,741 |
| Value added by manufacture ⁶ | 9,362,554 | 1,687,735 | 862,066 | 1,276,156 | 2,588,309 | 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 | 186,359 | 155,241 |
| Value..... | \$901,532 | \$4,003,112 | \$5,084,801 |
| 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..... | \$875,867 | \$627,117 | |
| Precision balances (for chemists, druggists, etc.): | | | |
| Number..... | 13,537 | 9,062 | |
| Value..... | \$428,927 | \$591,055 | |
| 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 | | \$699,661 |
| Other, value..... | \$326,479 | \$354,095 | |

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 | 4,257 | 4,259 | 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 | 456 | 444 | 448 | 410 | 424 | 438 | 459 | 477 | 458 | 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 |

SCALES AND BALANCES

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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 | 17,866,392 |
| 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 | (³) |
| Horsepower..... | 29 | |
| Steam engines— | | |
| Number..... | 1 | |
| 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 | 604 |
| 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 | 25,384,203 | (5) |
| 1933 | 41 | 6,956 | 6,302,617 | 24,361,338 | 44,642,334 | 20,180,966 | (5) |
| 1931 | 59 | 6,201 | 7,212,342 | 24,520,948 | 50,928,564 | 20,407,016 | (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 | 34,628,385 | 70,244,407 | 35,716,072 | 2,837 |
| 1925 | 82 | 7,077 | 9,989,875 | 32,748,312 | 69,568,206 | 36,810,894 | 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 | 13,676,932 | (5) |
| 1919 | 105 | 5,956 | 6,431,378 | 23,388,925 | 40,771,285 | 17,382,360 | 3,259 |
| 1914 | 111 | 2,302 | 1,220,882 | 4,148,431 | 7,599,802 | 3,451,321 | 3,892 |
| 1909 | 100 | 1,835 | 903,789 | 2,837,361 | 5,824,880 | 2,987,628 | 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 ⁴ | 1,095 | 183 | 279 | 212 | 421 |
| Wage earners (average for the year) ⁴ | 7,466 | 1,948 | 1,772 | 977 | 2,770 |
| Distribution | 849 | 136 | 267 | 105 | 341 |
| Construction | 59 | — | 5 | 32 | 22 |
| Other | 52 | 14 | 3 | 24 | 11 |
| Salaries and wages, total ⁵ | \$18,890,421 | \$3,114,295 | \$3,634,933 | \$1,987,289 | \$5,153,904 |
| Salaried officers ⁴ | 622,049 | 62,948 | 161,706 | 75,163 | 332,832 |
| Manufacturing: | | | | | |
| Salaries ⁴ | 1,952,851 | 355,734 | 412,525 | 320,309 | 864,283 |
| Wages | 9,277,024 | 2,372,794 | 2,339,650 | 1,235,355 | 3,329,825 |
| Distribution | 1,873,806 | 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 | 14,616 |
| Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total | 36,365,346 | 7,251,694 | 9,355,708 | 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 | — | — | — | 6,835 |
| Value of products | 61,601,221 | 12,884,481 | 16,147,237 | 9,217,494 | 28,352,009 |
| Value added by manufacture ⁶ | 25,235,875 | 5,632,787 | 6,791,634 | 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

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 | 69,060,381 | 77,965,445 |
| 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 | 69,060,381 | 77,965,445 |
| 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 | \$69,099,103 | \$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 | \$53,759,751 | 1 \$59,939,902 |
| 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 | |
| Number..... | 10,823 | | (1) |
| Value..... | \$92,738 | | (1) |
| 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 | 6,730 | 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 | 9,948 | 8,753 | 8,214 | 7,959 |
| 1929..... | 8,189 | 7,026 | 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 | 1,057 | 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 | 1,369 | 1,585 | 1,588 | 1,885 | 2,063 | 2,076 |
| Michigan..... | 493 | 452 | 462 | 497 | 488 | 458 | 448 | 430 | 469 | 456 | 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 | 1,157 | 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 | (³) |
| Horsepower..... | 250 | |
| Generators, kilowatt rating, total..... | 2,275 | 1,100 |
| Generators, driven by— | | |
| Steam engines, kilowatt rating..... | 700 | (³) |
| Steam turbines, kilowatt rating..... | 1,575 | |
| Electric motors, total: | | |
| Number..... | 5,094 | 3,354 |
| Horsepower..... | 34,041 | 23,637 |
| 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 ³ | 89 | 1 | 12 | 7 | 7 | 7 | 24 | 3 | 3 | 25 |
| Manufacturing: | | | | | | | | | | |
| Salaried employees ³ | 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 | \$90,019 | \$219,607 | \$190,743 | \$2,660,762 | \$43,252 | \$81,078 | \$1,497,194 |
| Salaried officers ³ | 640,821 | 2,400 | 38,151 | 15,069 | 24,430 | 26,440 | 311,123 | 5,467 | 9,020 | 207,821 |
| Manufacturing: | | | | | | | | | | |
| Salaries ³ | 1,101,910 | 5,107 | 234,931 | 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..... | 590,749 | 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 | 1,554,400 | 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..... | 94,894 | 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 | — | 31 | 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 | 180,822 | 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..... | 146,772 | |
| Commercial laundry, dry-cleaning, and pressing machinery, parts and attachments, total value..... | 21,107,493 | 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..... | \$21,107,493 | \$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 | 499 | 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 | 29 |
| Missouri..... | 78 | 72 | 84 | 75 | 79 | 79 | 82 | 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 | 360 | 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..... | 2,384,662 | 2,554,940 |
| Materials, supplies, etc..... | 4,536,819 | 2,972,273 |
| End of year, total..... | 6,752,112 | 7,058,038 |
| Finished products..... | 2,017,404 | 3,122,602 |
| 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..... | 5,046 |

 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..... | 366 |
| 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 | (5) |
| 1935..... | 39 | 7,509 | 9,053,413 | 6,031,808 | 22,635,452 | 16,603,644 | (5) |
| 1933..... | 30 | 6,313 | 6,034,211 | 2,862,117 | 12,926,146 | 10,064,029 | (5) |
| 1931..... | 34 | 8,090 | 8,791,969 | 6,090,980 | 20,148,125 | 14,057,145 | (5) |
| 1929..... | 39 | 10,467 | 14,976,182 | 16,458,425 | 45,004,600 | 28,636,175 | 16,067 |
| 1927 ⁵ | 35 | 9,907 | 13,748,151 | 14,072,570 | 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..... | 236 | 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 ⁸ | 400,471 | 59,369 | 80,188 | 95,799 | 165,125 |
| Manufacturing:..... | | | | | |
| Salaries ⁹ | 2,869,150 | 623,908 | 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 | \$5,660,491 |
| Materials, supplies, and containers..... | 8,090,976 | 700,994 | 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 | 12,301,135 |

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 | \$45,094,600 |
| 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 | — | \$10,481,823 |
| Foot and hand—..... | | \$13,850,135 | — |
| Number..... | 121,756 | — | 345,533 |
| Value..... | \$2,108,433 | — | \$8,613,185 |
| Industrial types—..... | | | |
| Number..... | 58,685 | 115,127 | 122,641 |
| Value..... | \$6,881,730 | \$10,743,253 | \$12,001,730 |
| 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

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 | 7,906 | 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 | 8,034 | 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 | 10,601 | 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 | 1,304 | 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 | 110 | 128 | 143 | 150 | 149 |
| New York..... | 252 | 250 | 261 | 262 | 250 | 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..... | \$29,706,544 |
| 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 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 | 16,067 |
| 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..... | | 10 |
| 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 | 9,690 |
| Generators, driven by— | | |
| Steam engines, kilowatt rating..... | 1,435 | (?) |
| Steam turbines, kilowatt rating..... | 6,500 | |
| 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 | 964 |
| 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.

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..... | 10,348,059 | 7,373,407 |
| End of year, total..... | 16,310,494 | 17,545,464 |
| Finished products..... | 6,328,029 | 8,606,190 |
| Materials, supplies, etc..... | 9,991,465 | 8,949,274 |
| Value of products for the industry, total..... | 29,706,544 | 34,835,852 |
| Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)..... | 29,706,544 | 34,798,385 |
| Value for establishments not reporting inventories..... | | 37,467 |

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 | 195,220,240 | 368,788,412 | 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 | 110,864,092 | (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 ² | \$65,774,100 | \$1,479,015 | \$1,553,511 | \$11,431,026 | \$225,542 | \$82,614 | \$11,526,604 | \$2,101,548 |
| Salaried officers ² | 2,320,447 | 193,479 | 151,149 | 401,285 | 16,230 | 9,640 | 323,281 | 224,494 |
| Manufacturing: | | | | | | | | |
| Salaries ² | 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 | 10,087 | 974,606 | 164,452 |
| Construction..... | 300,069 | ..... | 8,532 | 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 | 463,681 | 109,641 | 30,243,925 | 5,767,905 |
| Materials and supplies..... | 146,639,804 | 2,355,683 | 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..... | 2,043,664 | 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 | 4,964,314 | 6,386,280 | 54,675,833 | 850,487 | 232,425 | 51,805,725 | 10,195,250 |
| Value added by manufacture ⁴ | 128,182,878 | 2,629,822 | 2,908,103 | 26,697,561 | 386,906 | 122,784 | 21,561,800 | 4,427,354 |

See footnotes as end of table.

REFRIGERATORS, REFRIGERATION MACHINERY, ETC.

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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 | 6 | 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 ³ | 20 | 16 | 64 | 4 | 25 | 6 | 3 | 10 | 56 |
| Manufacturing: | | | | | | | | | |
| Salaried employees ³ | 117 | 121 | 304 | 9 | 613 | 16 | 6 | 83 | 1,307 |
| Wage earners (average for the year) ³ | 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 ³ | \$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 ³ | 178,552 | 78,366 | 258,123 | 16,095 | 105,066 | 18,048 | 6,650 | 57,537 | 292,872 |
| Manufacturing: | | | | | | | | | |
| Salaries ³ | 221,344 | 177,700 | 573,601 | 13,259 | 1,121,950 | 20,867 | 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 | 110,000 | 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 | 159,278 | 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 | 22,660 | 51,340 | 255 | 113,197 | 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 | 656,099 |
| Contract work..... | 40,277 | | 50,357 | | 25,145 | | | 41,546 | 5,569 |
| Value of products..... | 6,038,648 | 3,293,665 | 15,271,020 | 328,189 | 51,850,245 | 2,472,254 | 209,869 | 2,433,374 | 67,647,953 |
| Value added by manufacture ⁴ | 2,794,033 | 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..... | 259,236,025 | 341,350,008 |
| Miscellaneous products not specified..... | 885,537 | 20,678,893 |
| Other products (not classified in this industry)..... | 116,608,608 | |
| Receipts for contract and repair work..... | 1,915,372 | 1,768,611 |
| Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment, complete air-conditioning units and parts, total value..... | 200,713,831 | 375,406,475 |
| Refrigerators, domestic (mechanical and absorption), refrigeration machinery and equipment, complete air-conditioning units, and parts made in this industry..... | 259,236,025 | 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 | 34,055,567 |

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..... | 22,870 | 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 | | |
| Other complete commercial refrigerators— | | | 10,530 | 2,166,536 |
| Number reported..... | 11,100 | 3,373,105 | | 831,541 |
| 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 | 866,973 | 3,145,453 |
| Number not reported, value..... | | 911,037 | | 1,355,892 |
| Room coolers (not air-conditioning)— | | | | |
| Number reported..... | 10,975 | 564,577 | 13,310 | 1,099,108 |
| Number not reported, value..... | | 433,233 | | 89,711 |
| 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 | | 599,724 |
| 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 | 5,816,804 |
| 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 | | |
| 6 cubic feet or more— | | | 520,097 | 17,163,000 |
| 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 | 26,953 | 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 | | |
| Number not reported, value..... | | 172,869 | | |
| 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 | | |
| Number not reported, value..... | | 1,117,908 | | 5,353,970 |
| 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.

REFRIGERATORS, REFRIGERATION MACHINERY, ETC.

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

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

| STATE | Average number employed during year | NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH— | | | | | | | | | | | |
|---------------------|-------------------------------------|---|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|
| | | January | February | March | April | May | June | July | August | September | October | November | December |
| United States: | | | | | | | | | | | | | |
| 1939..... | 35,160 | 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 | 48,953 | 52,256 | 55,681 | 57,100 | 57,154 | 52,319 | 51,975 | 49,423 | 44,364 | 45,959 | 45,726 | 46,571 |
| California..... | 608 | 577 | 655 | 707 | 758 | 708 | 801 | 750 | 703 | 677 | 667 | 640 | 649 |
| Colorado..... | 27 | 24 | 24 | 25 | 28 | 28 | 30 | 32 | 30 | 25 | 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 | 668 | 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 | 6,089 | 6,350 |
| Maryland..... | 110 | 120 | 140 | 143 | 156 | 157 | 164 | 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 | 7,290 |
| Minnesota..... | 1,744 | 1,842 | 2,093 | 1,941 | 2,180 | 1,793 | 1,798 | 1,557 | 1,470 | 1,538 | 1,531 | 1,492 | 1,699 |
| Missouri..... | 741 | 659 | 718 | 822 | 837 | 842 | 806 | 773 | 765 | 685 | 552 | 652 | 718 |
| New Jersey..... | 583 | 585 | 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 | 406 | 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..... | 11,365 |

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..... | 0 |
| 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..... | 27,504 |
| 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 | 398,063 | \$646,405,891 | \$2,725,396,316 | \$4,047,872,729 | \$1,322,476,413 | 853,072 |
| 1937 ⁵ | 1,070 | 511,535 | 807,027,324 | 3,710,918,904 | 5,222,795,428 | 1,681,876,524 | (⁶) |
| 1935 ⁶ | 1,007 | 470,341 | 750,081,075 | 3,600,342,422 | 5,170,230,367 | 1,506,898,945 | (⁶) |
| 1935 | 946 | 387,801 | 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 | 1,308 | 447,448 | 733,082,618 | 3,258,497,400 | 5,200,723,007 | 2,002,225,087 | 365,866 |
| 1927 | 1,477 | 368,390 | 612,955,061 | 2,530,732,811 | 3,999,809,208 | 1,469,136,397 | 361,598 |
| 1925 | 1,655 | 426,110 | 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 | 1,464,809,707 | 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 | 1,940,878,876 | 3,050,073,970 | 1,139,395,103 | 159,705 |
| 1914 | 1,271 | 127,002 | 101,926,874 | 358,207,930 | 632,831,474 | 276,623,644 | 70,719 |
| 1909 | 743 | 76,721 | 48,693,867 | 131,645,736 | 249,202,075 | 117,556,339 | 46,612 |
| 1904 ⁷ | 178 | 12,049 | 7,153,958 | 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 ⁸ | 985 | 508,341 | 803,415,641 | 3,703,740,896 | 5,279,696,851 | 1,675,965,955 | (⁶) |
| AUTOMOBILE TRAILERS (FOR ATTACHMENT TO PASSENGER CARS): | | | | | | | |
| 1939 | 79 | 1,426 | 1,501,270 | 4,835,158 | 7,941,996 | 3,106,838 | ----- |
| 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.

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GROUP 18.—AUTOMOBILES AND AUTOMOBILE EQUIPMENT—GENERAL STATISTICS IN DETAIL, BY INDUSTRIES:¹ 1939

| ITEM | Total for the group | 1939 | 1938 | ITEM | Total for the group | 1939 | 1938 | | | | |
|--|---------------------|---------------|-------------|--|---------------------|---------------|-----------|---|---------------|---------------|-----------|
| Number of establishments ² | 1,133 | 1,054 | 70 | Salaries and wages—Continued. Manufacturing: Salaries ³ | \$104,736,614 | \$104,570,626 | \$165,988 | | | | |
| Proprietors and firm members..... | 564 | 493 | 71 | | | | | Wages..... | 646,403,891 | 644,904,821 | 1,501,270 |
| Persons reported by manufacturing industries, total ⁴ | 460,419 | 458,723 | 1,696 | | | | | Distribution..... | 29,856,934 | 29,727,848 | 129,086 |
| Salaried officers of corporations ⁵ | 1,327 | 1,281 | 46 | | | | | Construction..... | 640,137 | 639,553 | 584 |
| Manufacturing: | | | | | | | | Other..... | 1,373,210 | 1,371,414 | 1,796 |
| Salaried employees ³ | 44,884 | 44,753 | 131 | | | | | Cost of materials, supplies, fuel, purchased electric energy, and contract work, total..... | 2,725,390,316 | 2,720,561,158 | 4,835,158 |
| Wage earners (average for the year) ⁴ | 398,003 | 397,537 | 1,426 | | | | | Materials and supplies..... | 2,639,294,529 | 2,634,539,850 | 4,754,679 |
| Distribution..... | 14,143 | 14,054 | 89 | | | | | Fuel..... | 18,775,888 | 18,749,074 | 25,814 |
| Construction..... | 307 | 306 | 1 | | | | | Purchased electric energy..... | 16,084,145 | 16,645,374 | 38,771 |
| Other..... | 795 | 792 | 3 | | | | | Contract work..... | 50,041,754 | 50,626,800 | 14,894 |
| Salaries and wages, total ⁵ | \$793,484,209 | \$791,483,980 | \$2,000,229 | | | | | Value of products..... | 4,047,872,729 | 4,039,930,733 | 7,941,996 |
| Salaried officers ³ | 10,471,423 | 10,269,918 | 201,505 | | | | | Value added by manufacture ⁵ | 1,322,476,413 | 1,319,369,575 | 3,100,838 |

¹ The numbers at the head of the columns represent the following industries: 1939, Motor Vehicles, Motor-Vehicle Bodies, Parts and Accessories; 1938, 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. Manufacturing: Salaries ³ | \$110,832,488 | \$104,570,626 | \$165,988 | \$6,095,874 | | | | | |
| Proprietors and firm members..... | 564 | 493 | 71 | ----- | | | | | | Wages..... | 687,079,002 | 644,904,821 | 1,501,270 | 41,573,111 |
| Persons reported by manufacturing establishments, total ⁴ | 491,952 | 458,723 | 1,696 | 31,533 | | | | | | Distribution..... | 31,461,062 | 29,727,848 | 129,086 | 1,004,123 |
| Salaried officers of corporations ⁵ | 1,332 | 1,281 | 46 | 5 | | | | | | Construction..... | 667,097 | 639,553 | 584 | 53,960 |
| Manufacturing: | | | | | | | | | | Other..... | 1,433,808 | 1,371,414 | 1,796 | 60,598 |
| Salaried employees ³ | 47,434 | 44,753 | 131 | 2,550 | | | | | | 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 |
| Wage earners (average for the year) ⁴ | 427,128 | 397,537 | 1,426 | 28,165 | | | | | | Materials and supplies..... | 2,733,218,842 | 2,634,539,850 | 4,754,679 | 93,924,313 |
| Distribution..... | 14,880 | 14,054 | 89 | 737 | | | | | | Fuel..... | 23,854,767 | 18,749,074 | 26,814 | 5,078,879 |
| Construction..... | 330 | 306 | 1 | 23 | | | | | | Purchased electric energy..... | 18,030,547 | 16,645,374 | 38,771 | 1,346,402 |
| Other..... | 848 | 792 | 3 | 53 | | | | | | Contract work..... | 50,041,754 | 50,626,800 | 14,894 | ----- |
| Salaries and wages, total ⁵ | \$842,878,083 | \$791,483,980 | \$2,000,229 | \$49,394,774 | | | | | | Value of products..... | 4,256,462,422 | 4,039,930,733 | 7,941,999 | 208,589,693 |
| Salaried officers ³ | 10,505,526 | 10,269,918 | 201,505 | 34,103 | | | | | | Value added by manufacture ⁵ | 1,430,716,512 | 1,319,369,575 | 3,100,838 | 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 | \$2,720,561,168 | \$4,039,930,733 | \$1,319,369,576 | 863,672 |
| 1937... | 985 | 508,341 | 803,416,641 | 3,703,740,896 | 5,279,696,851 | 1,575,955,956 | (*) |

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

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 | 167 | 1,024 | 10 | 9,333 |
| Salaried officers of corporations ³ | 1,281 | 5 | 3 | 40 | 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 | \$791,483,080 | \$95,484 | \$78,194 | \$12,020,188 | \$227,350 | \$1,355,466 | \$24,397 | \$14,433,201 |
| Salaried officers ³ | 10,269,018 | 9,744 | 24,000 | 316,722 | 10,330 | 191,725 | 8,650 | 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..... | 2,720,561,158 | 206,173 | 287,028 | 90,660,109 | 281,540 | 1,012,205 | 29,078 | 61,093,790 |
| Materials and supplies..... | 2,634,539,850 | 201,634 | 280,872 | 90,285,318 | 272,002 | 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 | 636 | 364,864 |
| Contract work..... | 50,626,860 | | | (⁴) | (⁴) | (⁴) | | (⁴) |
| Value of products..... ⁵ | 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 ⁶ | 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 | 25,009 | 11,440 | 14,160 | 1 | 1,170 | 2,168 |
| Wage earners (average for the year) ³ | 26,756 | 126 | 253,917 | 92,675 | 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 | \$108,708 | \$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 | 1,108,849 | | 231,172 | 770,887 |
| Manufacturing: | | | | | | | | |
| Salaries ³ | 7,565,058 | 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 | 133,352,344 |
| 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 | 9,914,734 | 4,339,884 | 5,674,850 | 990 | 440,349 | 828,448 |
| Contract work..... | (⁴) | | (⁴) | (⁴) | (⁴) | | (⁴) | (⁴) |
| Value of products..... ⁵ | 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 ⁶ | 96,147,943 | 280,594 | 771,520,719 | 247,982,660 | 523,538,050 | 26,840 | 28,320,910 | 62,552,311 |

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 ⁷ |
|---|------------------------|--------------------------|----------------------|-------------------------|------------------------|--------------------------|---------------------------|
| 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 ³ | 11 | 104 | 4 | 116 | 9 | 69 | 119 |
| Manufacturing: | | | | | | | |
| Salaried employees ⁴ | 30 | 4,553 | 12 | 1,983 | 34 | 1,818 | 1,756 |
| Wage earners (average for the year) ⁵ | 376 | 29,841 | 183 | 13,613 | 350 | 14,317 | 18,350 |
| Distribution..... | 17 | 1,036 | 8 | 409 | 72 | 710 | 1,553 |
| Construction..... | | 29 | | | | 49 | 5 |
| Other..... | | 6 | 1 | 1 | | | 7 |
| Salaries and wages, total ⁶ | \$421,224 | \$59,506,674 | \$320,790 | \$24,729,415 | \$782,646 | \$28,853,417 | \$35,578,618 |
| Salaried officers ³ | 32,175 | 1,499,840 | 24,100 | 732,528 | 42,540 | 562,450 | 646,209 |
| Manufacturing: | | | | | | | |
| Salaries ⁴ | 51,330 | 9,530,390 | 20,842 | 3,562,723 | 79,714 | 3,983,331 | 4,009,236 |
| Wages..... | 310,149 | 46,209,680 | 253,199 | 19,515,731 | 520,230 | 22,820,790 | 27,566,153 |
| Distribution..... | 27,564 | 2,222,273 | 11,869 | 910,847 | 140,102 | 1,385,004 | 3,553,477 |
| Construction..... | | 37,481 | | | | 101,852 | 9,203 |
| Other..... | | 7,004 | 780 | 1,680 | | | 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 | 1,539,307 | 110,106,740 | 321,348,613 |
| Materials and supplies..... | ⁸ 1,098,446 | ⁸ 189,848,611 | ⁸ 498,887 | ⁸ 68,565,806 | ⁸ 1,529,253 | ⁸ 108,733,451 | ⁸ 310,905,362 |
| Fuel..... | 2,890 | 1,137,819 | 1,514 | 493,310 | 2,182 | 686,613 | 814,082 |
| Purchased electric energy..... | 10,224 | 1,659,713 | 7,850 | 612,783 | 7,902 | 680,676 | 538,569 |
| Contract work..... | (⁹) | (⁹) | (⁹) | (⁹) | (⁹) | (⁹) | (⁹) |
| Value of products..... | 1,740,054 | 285,681,412 | 919,160 | 108,424,041 | 2,350,341 | 162,080,652 | 417,336,424 |
| Value added by manufacture ⁶ | 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, 5; 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 | 4,936,133,740 |
| Miscellaneous products not specified..... | 33,343,933 | 145,432,095 |
| 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 | 1271,566,722 |
| Motor vehicles, motor-vehicle bodies, parts and accessories, total value..... | \$3,776,404,467 | \$4,983,010,991 |
| Motor vehicles, motor-vehicle bodies, parts and accessories made in this industry..... | 3,744,753,863 | 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 | 140,877,245 |

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 | \$2,848,736,150 |
| Passenger cars including taxicabs— | | |
| Number..... | 2,824,203 | 3,849,576 |
| Value..... | \$1,799,502,953 | \$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..... | 440,782 | 614,576 |
| Value..... | \$303,687,049 | \$410,056,421 |
| Ambulances, hearses, and undertakers' wagons— | | |
| Number..... | 2,840 | 3,071 |
| Value..... | \$6,427,015 | \$7,361,120 |
| Fire-department apparatus— | | |
| Number..... | 955 | 985 |
| Value..... | \$5,600,403 | \$5,897,071 |
| Passenger chassis— | | |
| Number..... | 21,227 | 36,423 |
| Value..... | \$6,806,802 | \$12,703,960 |
| Commercial chassis (including bus chassis)— | | |
| Number..... | 234,844 | 227,022 |
| Value..... | \$153,133,063 | \$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 | \$17,366,487 |
| Number not reported, value..... | \$550,206 | \$211,001 |
| Motor-truck trailer (supported entirely on own wheels): | | |
| Number..... | 1,514 | 2,789 |
| Value..... | \$1,095,338 | \$2,037,857 |
| Semitrailers (partly supported by truck tractors): | | |
| Number reported— | | |
| Number..... | 23,707 | 18,958 |
| Value..... | \$25,785,681 | \$14,728,630 |
| Number not reported, value..... | \$95,269 | \$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) |
| Splicers' tool carts and pole trailers ³ : | | |
| Number..... | 559 | (²) |
| Value..... | \$123,313 | (²) |
| Motor-vehicle bodies and motor-vehicle parts, value..... | \$1,472,565,520 | \$2,116,647,353 |

¹ Includes \$38,706,150 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: 1939¹

[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..... | <i>Long tons</i> 358,020 | \$7,952,207 | <i>Long tons</i> | \$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..... | <i>Short tons</i> 926,038 | 79,150,076 | <i>Short tons</i> 1,785 | 244,999 |
| Malleable-iron..... | 147,812 | 18,345,155 | | 33,059 |
| 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..... | 239,840 | 13,965,472 | | 197,271 |
| Sheets and strip..... | 3,001,281 | 146,202,773 | 25 | 1,264,273 |
| Alloy steel, except stainless: | | | | |
| Bars, rods, and small shapes..... | 465,202 | 28,776,235 | 200 | 13,328 |
| Plates, sheets, and strip..... | 24,634 | 2,077,289 | 20 | 16,762 |
| Other alloy steel, except stainless..... | 84,788 | 7,563,280 | | 10,542 |
| Stainless steel..... | 10,255 | 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..... | <i>Pounds</i> 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..... | 163,958,294 | 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 \$1,884,547, 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 | 6,152 | 7,770 | 7,113 | 6,428 | 6,353 | 5,461 | 5,370 | 4,388 | 3,186 | 5,378 | 7,110 | 7,249 | 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 | 19 | 19 | 16 | 12 | 13 | 12 |
| Florida | 48 | 48 | 53 | 46 | 44 | 40 | 43 | 42 | 45 | 48 | 60 | 60 | 40 |
| Georgia | 1,700 | 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 | 26,595 | 25,417 | 25,280 | 23,300 | 24,202 | 28,069 | 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 | 213 | 172 | 232 | 228 | 194 | 186 | 218 | 178 | 166 |
| Maryland | 1,728 | 1,901 | 1,898 | 1,913 | 1,918 | 1,903 | 1,808 | 1,845 | 413 | 774 | 1,876 | 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 | 329 |
| Ohio | 29,841 | 30,026 | 29,263 | 30,512 | 29,904 | 29,410 | 28,528 | 24,874 | 24,916 | 29,276 | 32,757 | 33,574 | 34,457 |
| Oregon | 183 | 152 | 155 | 185 | 198 | 219 | 239 | 193 | 196 | 186 | 164 | 155 | 150 |
| Pennsylvania | 13,613 | 12,661 | 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 | 1,018 | 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 | 1,335,768 |
| 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 | \$337,662,884 | \$405,832,500 |
| Finished products | 86,357,361 | 102,411,245 |
| Materials, supplies, etc. | 251,305,523 | 303,421,255 |
| End of year, total | 410,195,717 | 479,544,602 |
| Finished products | 109,947,175 | 131,694,741 |
| Materials, supplies, etc. | 309,248,542 | 347,849,861 |
| Value of products for the industry, total | 4,039,930,733 | 5,279,696,851 |
| Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand) | 4,039,582,110 | 5,276,906,323 |
| 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 | 248 |
| 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 | 2,992 | 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 | 503 | 7 | 267 |
| Salaried officers of corporations ³ | 40 | 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 | \$730,351 | \$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 | ----- | 230 | ----- | ----- |
| 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 ⁵ | 3,106,838 | 310,706 | 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 | 182,782 |
| 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

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, 000 |
| 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, 980 | 3, 093 | 3, 549 | 4, 351 | 4, 145 | 3, 793 | 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 | 501 | 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—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, 626 | 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.

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 |