## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY TOTALS: 1880.

NOTE.—The differences between any totals published in this table and the corresponding totals in the preliminary bulletin entitled "The manufactures of 20 principal cities" are due (1) to revision and (2) to the inclusion in this table of the industries noted in that bulletin as having been omitted therefrom.

| Cities. | Rank, according to— | | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Population. | Value of products. | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Albany, N. Y | 21 | 30 | 804 | $14, 684, 130 | 9, 829 | 1, 528 | 428 | $4, 566, 424 | $12, 509, 362 | $21, 751, 009 |
| Allegheny, Pa | 23 | 37 | 424 | 8, 451, 059 | 5, 549 | 614 | 308 | 2, 652, 774 | 8, 818, 153 | 13, 731, 792 |
| Atlanta, Ga | 49 | 79 | 196 | 2, 468, 456 | 2, 753 | 533 | 394 | 889, 282 | 3, 159, 267 | 4, 861, 727 |
| Auburn, N. Y | 84 | 62 | 154 | 4, 423, 950 | 3, 579 | 752 | 187 | 1, 658, 826 | 4, 052, 746 | 7, 719, 409 |
| Augusta, Ga | 86 | 92 | 60 | 2, 069, 275 | 867 | 511 | 302 | 448, 825 | 2, 247, 665 | 3, 139, 029 |
| Baltimore, Md | 7 | 8 | 3, 683 | 38, 586, 773 | 34, 086 | 18, 137 | 4, 115 | 15, 117, 489 | 47, 974, 297 | 78, 417, 304 |
| Bay City, Mich | 95 | 75 | 80 | 4, 235, 500 | 2, 066 | 21 | 151 | 862, 488 | 3, 851, 553 | 5, 533, 621 |
| Boston, Mass | 5 | 5 | 3, 665 | 47, 348, 384 | 39, 810 | 18, 150 | 1, 253 | 24, 924, 009 | 81, 688, 160 | 130, 531, 993 |
| Bridgeport, Conn | 71 | 47 | 170 | 9, 751, 785 | 5, 476 | 1, 807 | 225 | 3, 342, 935 | 4, 819, 939 | 10, 458, 212 |
| Brooklyn, N. Y | 3 | 4 | 5, 201 | 61, 646, 749 | 37, 105 | 7, 020 | 3, 462 | 22, 487, 457 | 129, 085, 091 | 177, 223, 142 |
| Buffalo, N. Y | 13 | 15 | 1, 183 | 26, 847, 937 | 15, 033 | 1, 795 | 1, 193 | 7, 442, 109 | 27, 552, 086 | 42, 937, 701 |
| Cambridge, Mass | 31 | 24 | 379 | 6, 480, 799 | 6, 205 | 1, 172 | 166 | 3, 416, 470 | 20, 101, 349 | 26, 605, 688 |
| Camden, N. J | 44 | 65 | 321 | 5, 032, 835 | 3, 293 | 826 | 251 | 1, 626, 396 | 4, 348, 710 | 7, 044, 705 |
| Charleston, S. C | 36 | 93 | 194 | 1, 718, 300 | 1, 788 | 150 | 208 | 639, 030 | 1, 468, 375 | 2, 732, 590 |
| Chelsea, Mass | 88 | 89 | 155 | 1, 822, 250 | 1, 122 | 500 | 25 | 677, 737 | 2, 691, 911 | 3, 846, 250 |
| Chicago, Ill | 4 | 3 | 3, 519 | 68, 836, 885 | 62, 431 | 12, 185 | 4, 798 | 34, 653, 462 | 179, 209, 610 | 249, 022, 948 |
| Cincinnati, Ohio | 8 | 7 | 3, 276 | 50, 533, 100 | 38, 993 | 10, 483 | 5, 041 | 19, 553, 620 | 62, 376, 710 | 105, 259, 165 |
| Cleveland, Ohio | 11 | 18 | 1, 055 | 19, 436, 989 | 18, 018 | 2, 286 | 1, 420 | 8, 502, 935 | 31, 629, 737 | 48, 604, 050 |
| Columbus, Ohio | 33 | 52 | 316 | 5, 379, 401 | 4, 935 | 289 | 266 | 1, 961, 394 | 5, 534, 496 | 9, 646, 679 |
| Covington, Ky | 65 | 71 | 181 | 3, 182, 141 | 2, 251 | 223 | 451 | 1, 033, 463 | 3, 935, 727 | 5, 864, 530 |
| Davenport, Iowa | 87 | 81 | 188 | 2, 806, 222 | 1, 473 | 82 | 150 | 685, 469 | 2, 960, 668 | 4, 468, 978 |
| Dayton, Ohio | 47 | 43 | 495 | 6, 063, 384 | 5, 071 | 513 | 441 | 2, 293, 630 | 6, 434, 225 | 11, 985, 483 |
| Denver, Colo | 50 | 53 | 259 | 2, 301, 850 | 2, 550 | 264 | 130 | 1, 574, 438 | 5, 715, 215 | 9, 367, 749 |
| Des Moines, Iowa | 80 | 85 | 155 | 1, 463, 250 | 1, 211 | 71 | 96 | 667, 699 | 2, 810, 396 | 4, 220, 709 |
| Detroit, Mich | 18 | 19 | 919 | 15, 594, 479 | 12, 477 | 2, 430 | 1, 203 | 6, 306, 460 | 18, 150, 995 | 30, 181, 416 |
| Dubuque, Iowa | 81 | 70 | 346 | 3, 446, 866 | 2, 619 | 292 | 92 | 1, 339, 730 | 3, 837, 846 | 6, 328, 889 |
| Elizabeth, N. J | 69 | 68 | 149 | 2, 453, 180 | 3, 151 | 216 | 482 | 1, 740, 456 | 2, 915, 851 | 6, 828, 027 |
| Elmira, N. Y | 97 | 78 | 203 | 2, 698, 762 | 2, 283 | 324 | 121 | 1, 024, 161 | 3, 132, 115 | 4, 877, 300 |
| Erie, Pa | 70 | 63 | 167 | 4, 730, 503 | 3, 284 | 207 | 276 | 1, 518, 085 | 4, 879, 319 | 7, 683, 356 |
| Evansville, Ind | 66 | 61 | 313 | 4, 733, 815 | 2, 945 | 337 | 387 | 1, 365, 006 | 4, 972, 690 | 8, 091, 914 |
| Fall River, Mass | 37 | 32 | 258 | 25, 076, 518 | 8, 232 | 6, 723 | 2, 130 | 4, 659, 077 | 10, 552, 192 | 18, 913, 584 |
| Fort Wayne, Ind | 74 | 73 | 114 | 2, 352, 101 | 2, 426 | 164 | 145 | 1, 020, 793 | 4, 007, 955 | 5, 816, 924 |
| Galveston, Tex | 82 | 94 | 170 | 871, 250 | 633 | 15 | 36 | 499, 785 | 1, 283, 246 | 2, 375, 965 |
| Grand Rapids, Mich | 58 | 67 | 355 | 4, 864, 298 | 4, 509 | 295 | 368 | 1, 895, 072 | 3, 956, 663 | 7, 405, 607 |
| Harrisburg, Pa | 60 | 64 | 274 | 4, 026, 457 | 3, 243 | 264 | 153 | 1, 236, 522 | 4, 975, 276 | 7, 063, 416 |
| Hartford, Conn | 43 | 45 | 268 | 9, 679, 126 | 4, 573 | 1, 373 | 354 | 2, 848, 041 | 6, 467, 460 | 11, 437, 200 |
| Hoboken, N. J | 59 | 99 | 121 | 486, 320 | 613 | 59 | 51 | 283, 694 | 588, 756 | 1, 051, 136 |
| Holyoke, Mass | 85 | 38 | 123 | 8, 913, 903 | 4, 433 | 3, 861 | 717 | 2, 743, 142 | 7, 739, 573 | 13, 667, 327 |
| Indianapolis, Ind | 24 | 21 | 688 | 10, 049, 500 | 8, 671 | 830 | 499 | 3, 917, 114 | 19, 198, 102 | 27, 453, 089 |
| Jersey City, N. J | 17 | 12 | 584 | 11, 899, 915 | 7, 962 | 2, 426 | 750 | 4, 622, 655 | 49, 738, 985 | 60, 473, 905 |
| Kansas City, Mo | 30 | 69 | 224 | 2, 147, 305 | 2, 127 | 283 | 188 | 1, 420, 713 | 3, 723, 916 | 6, 382, 681 |
| Lancaster, Pa | 77 | 76 | 313 | 3, 792, 740 | 2, 741 | 1, 044 | 467 | 1, 177, 249 | 2, 942, 312 | 5, 404, 937 |
| Lawrence, Mass | 46 | 28 | 229 | 18, 698, 977 | 7, 819 | 7, 908 | 992 | 5, 544, 513 | 13, 862, 142 | 25, 058, 246 |
| Louisville, Ky | 16 | 17 | 1, 108 | 21, 767, 013 | 13, 480 | 2, 829 | 1, 139 | 5, 835, 545 | 21, 207, 110 | 35, 423, 203 |
| Lowell, Mass | 27 | 18 | 283 | 20, 465, 192 | 9, 218 | 9, 503 | 1, 318 | 5, 996, 591 | 16, 315, 062 | 33, 935, 777 |
| Lynn, Mass | 48 | 23 | 343 | 5, 894, 575 | 8, 894 | 3, 489 | 37 | 5, 833, 849 | 17, 433, 455 | 26, 828, 023 |
| Manchester, N. H | 56 | 36 | 121 | 15, 149, 153 | 4, 632 | 5, 748 | 458 | 3, 370, 404 | 7, 901, 066 | 14, 136, 305 |
| Memphis, Tenn | 54 | 82 | 138 | 2, 313, 975 | 2, 130 | 69 | 69 | 845, 672 | 2, 419, 341 | 4, 413, 422 |
| Milwaukee, Wis | 19 | 14 | 844 | 18, 766, 914 | 16, 015 | 3, 922 | 949 | 6, 946, 105 | 28, 975, 872 | 43, 473, 812 |
| Minneapolis, Minn | 38 | 20 | 401 | 9, 002, 650 | 4, 702 | 457 | 185 | 2, 582, 253 | 24, 274, 623 | 29, 973, 476 |
| Mobile, Ala | 68 | 97 | 91 | 525, 708 | 622 | 37 | 45 | 261, 643 | 830, 961 | 1, 335, 570 |
| Nashville, Tenn | 40 | 57 | 268 | 3, 892, 380 | 3, 815 | 538 | 438 | 1, 312, 765 | 5, 312, 527 | 8, 597, 278 |
| Newark, N. J | 15 | 11 | 1, 319 | 25, 679, 885 | 22, 151 | 5, 246 | 2, 649 | 13, 171, 339 | 44, 604, 335 | 69, 252, 705 |
| New Bedford, Mass | 75 | 50 | 330 | 7, 681, 082 | 3, 915 | 1, 538 | 359 | 2, 058, 751 | 5, 907, 874 | 9, 835, 955 |
| New Haven, Conn | 26 | 29 | 587 | 9, 703, 737 | 9, 998 | 4, 780 | 378 | 5, 761, 374 | 14, 482, 163 | 24, 040, 225 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY TOTALS: 1880.

| Cities. | Rank, according to— Population. | Rank, according to— Value of products. | No. of establishments. | Capital. | Average number of hands employed. Males above 16 years. | Females above 15 years. | Children and youths. | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|---|---|
| New Orleans, La | 10 | 33 | 915 | $8,565,303 | 7,666 | 1,286 | 552 | $3,717,557 | $10,771,892 | $18,808,696 |
| Newport, Ky | 98 | 88 | 94 | 1,700,715 | 1,608 | 35 | 105 | 711,019 | 2,526,936 | 3,996,995 |
| New York, N. Y | 1 | 1 | 11,339 | 181,206,356 | 146,179 | 71,795 | 9,378 | 97,030,021 | 288,441,691 | 472,926,437 |
| Norfolk, Va | 83 | 96 | 105 | 570,276 | 668 | 61 | 23 | 317,528 | 861,026 | 1,455,987 |
| Oakland, Cal | 51 | 91 | 72 | 1,371,457 | 1,369 | 13 | 5 | 759,917 | 2,012,695 | 3,181,066 |
| Omaha, Nebr | 63 | 84 | 154 | 1,835,800 | 1,466 | 64 | 158 | 726,918 | 2,527,476 | 4,280,866 |
| Oswego, N. Y | 92 | 74 | 179 | 2,611,238 | 1,754 | 272 | 106 | 756,435 | 3,646,845 | 5,619,944 |
| Paterson, N. J | 34 | 25 | 346 | 12,412,942 | 10,270 | 6,576 | 2,953 | 6,992,487 | 14,623,883 | 26,503,350 |
| Peoria, Ill | 67 | 35 | 296 | 4,160,707 | 3,619 | 313 | 135 | 1,507,666 | 9,556,476 | 14,228,134 |
| Petersburg, Va | 89 | 80 | 115 | 1,755,415 | 2,209 | 1,245 | 742 | 602,749 | 3,290,116 | 4,643,015 |
| Philadelphia, Pa | 2 | 2 | 8,567 | 187,148,857 | 113,075 | 56,818 | 15,634 | 64,265,966 | 199,155,477 | 324,342,935 |
| Pittsburgh, Pa | 12 | 10 | 1,112 | 52,645,010 | 32,011 | 1,681 | 3,238 | 17,168,989 | 42,109,777 | 75,915,033 |
| Portland, Me | 53 | 51 | 302 | 4,243,225 | 4,841 | 1,550 | 738 | 1,541,997 | 6,813,962 | 9,832,931 |
| Poughkeepsie, N. Y | 99 | 83 | 140 | 3,728,700 | 1,766 | 493 | 223 | 761,711 | 2,781,289 | 4,392,900 |
| Providence, R. I | 20 | 16 | 1,205 | 27,177,006 | 16,050 | 5,125 | 1,716 | 9,464,110 | 22,794,227 | 42,597,512 |
| Quincy, Ill | 73 | 60 | 318 | 4,078,200 | 2,866 | 151 | 309 | 1,271,995 | 5,089,880 | 8,103,277 |
| Reading, Pa | 41 | 39 | 330 | 7,498,256 | 5,413 | 724 | 558 | 2,240,290 | 8,396,910 | 13,251,095 |
| Richmond, Va | 25 | 31 | 598 | 6,884,386 | 9,218 | 2,872 | 1,957 | 3,006,456 | 12,141,512 | 20,790,106 |
| Rochester, N. Y | 22 | 27 | 735 | 13,161,870 | 9,292 | 4,052 | 1,263 | 5,217,713 | 16,446,815 | 26,478,266 |
| Sacramento, Cal | 90 | 87 | 160 | 1,672,400 | 868 | 10 | 46 | 547,692 | 2,911,889 | 4,093,934 |
| Saint Joseph, Mo | 57 | 77 | 238 | 1,423,650 | 2,040 | 94 | 124 | 896,762 | 3,210,080 | 5,143,585 |
| Saint Louis, Mo | 6 | 6 | 2,924 | 50,832,885 | 33,980 | 4,761 | 3,084 | 17,743,532 | 75,379,867 | 114,333,375 |
| Saint Paul, Minn | 45 | 48 | 593 | 3,738,791 | 3,930 | 1,092 | 208 | 2,254,340 | 5,719,067 | 10,286,363 |
| Salem, Mass | 72 | 49 | 241 | 3,978,850 | 2,632 | 1,309 | 240 | 1,401,592 | 7,264,447 | 9,926,564 |
| Salt Lake City, Utah | 93 | 95 | 166 | 860,415 | 696 | 114 | 118 | 425,537 | 812,736 | 1,610,133 |
| San Antonio, Tex | 96 | 100 | 71 | 310,050 | 300 | 13 | 48 | 137,781 | 328,476 | 642,412 |
| San Francisco, Cal | 9 | 9 | 2,971 | 35,368,139 | 23,662 | 3,588 | 1,192 | 14,928,534 | 47,978,072 | 77,824,299 |
| Savannah, Ga | 62 | 90 | 120 | 1,102,970 | 996 | 68 | 66 | 447,640 | 2,457,606 | 3,396,297 |
| Scranton, Pa | 39 | 58 | 216 | 4,470,631 | 2,908 | 456 | 185 | 1,313,287 | 6,671,479 | 8,561,850 |
| Somerville, Mass | 78 | 72 | 100 | 1,682,795 | 1,191 | 84 | 21 | 564,508 | 4,608,192 | 5,852,535 |
| Springfield, Ill | 100 | 86 | 116 | 1,709,775 | 1,391 | 75 | 232 | 656,253 | 3,156,279 | 4,123,883 |
| Springfield, Mass | 55 | 41 | 434 | 9,177,250 | 4,881 | 2,138 | 341 | 2,906,130 | 7,726,119 | 12,891,826 |
| Springfield, Ohio | 94 | 59 | 170 | 7,255,953 | 3,741 | 47 | 182 | 1,667,212 | 4,550,569 | 8,462,443 |
| Syracuse, N. Y | 32 | 34 | 724 | 8,186,818 | 7,513 | 2,871 | 582 | 3,042,135 | 8,544,436 | 14,605,674 |
| Taunton, Mass | 91 | 66 | 148 | 4,086,134 | 3,585 | 898 | 671 | 2,083,185 | 4,272,451 | 7,618,953 |
| Terre Haute, Ind | 76 | 55 | 224 | 2,566,750 | 3,090 | 144 | 142 | 1,406,352 | 6,743,719 | 9,185,246 |
| Toledo, Ohio | 35 | 46 | 440 | 5,534,285 | 5,028 | 1,020 | 690 | 2,260,456 | 6,355,399 | 10,600,074 |
| Trenton, N. J | 64 | 42 | 404 | 6,966,830 | 6,691 | 1,084 | 1,127 | 3,150,119 | 7,421,399 | 12,712,762 |
| Troy, N. Y | 29 | 26 | 514 | 13,418,853 | 10,337 | 11,115 | 982 | 6,745,874 | 13,443,284 | 26,497,163 |
| Utica, N. Y | 52 | 56 | 317 | 5,905,635 | 3,752 | 2,620 | 338 | 1,917,657 | 5,180,598 | 8,873,306 |
| Washington, D. C | 14 | 44 | 971 | 5,552,526 | 5,496 | 1,389 | 261 | 3,924,612 | 5,365,400 | 11,882,816 |
| Wheeling, W. Va | 61 | 54 | 227 | 4,868,288 | 4,658 | 196 | 658 | 2,192,255 | 5,203,931 | 9,259,844 |
| Wilkesbarre, Pa | 79 | 98 | 89 | 1,146,500 | 613 | 17 | 15 | 223,399 | 660,649 | 1,133,844 |
| Wilmington, Del | 42 | 40 | 258 | 10,744,389 | 6,871 | 459 | 522 | 3,174,821 | 7,884,847 | 13,205,370 |
| Worcester, Mass | 28 | 22 | 644 | 11,378,604 | 13,685 | 2,480 | 394 | 6,910,817 | 16,582,750 | 27,292,793 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF ALBANY, N. Y.

[Statistics collected under the direction of F. E. WADHAMS, Chief Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 804 | $14,684,130 | 9,829 | 1,528 | 428 | $4,566,424 | $12,509,362 | $21,751,009 |
| Agricultural implements | 3 | 359,000 | 280 | ..... | ..... | 70,788 | 146,000 | 336,586 |
| Blacksmithing (see also Wheelwrighting) | 38 | 50,670 | 88 | ..... | 2 | 40,826 | 36,365 | 114,819 |
| Bookbinding and blank-book making | 7 | 47,100 | 52 | 22 | 8 | 35,589 | 48,112 | 103,407 |
| Boots and shoes, including custom work and repairing | 55 | 652,545 | 1,178 | 460 | 39 | 549,700 | 1,294,923 | 2,237,616 |
| Boxes, cigar | 5 | 15,500 | 15 | 14 | 3 | 6,175 | 24,183 | 40,639 |
| Boxes, fancy and paper | 3 | 18,000 | 9 | 73 | 3 | 15,655 | 22,423 | 46,405 |
| Brass castings | 4 | 31,800 | 40 | ..... | 2 | 4,650 | 11,925 | 23,305 |
| Bread and other bakery products | 50 | 547,135 | 324 | 53 | 25 | 209,880 | 794,809 | 1,157,959 |
| Brick and tile | 10 | 167,000 | 246 | ..... | 42 | 71,805 | 45,057 | 171,800 |
| Brooms and brushes | 3 | 33,674 | 24 | ..... | 6 | 11,600 | 32,657 | 88,768 |
| Carpentering | 50 | 190,070 | 479 | ..... | 4 | 226,441 | 308,545 | 661,813 |
| Carriages and wagons (see also Wheelwrighting) | 10 | 153,708 | 150 | ..... | 1 | 54,701 | 80,508 | 175,025 |
| Clothing, men's | 45 | 404,541 | 681 | 250 | 9 | 260,426 | 481,832 | 917,640 |
| Coffee and spices, roasted and ground | 5 | 167,775 | 39 | 1 | 2 | 25,389 | 467,800 | 557,126 |
| Coffins, burial cases, and undertakers' goods | 9 | 62,300 | 22 | 4 | ..... | 10,279 | 22,668 | 52,295 |
| Confectionery | 19 | 61,500 | 48 | 20 | 15 | 30,221 | 83,594 | 160,921 |
| Cooperage | 8 | 45,500 | 40 | ..... | 4 | 19,366 | 54,650 | 88,900 |
| Dentistry, mechanical | 10 | 11,900 | 7 | ..... | 4 | 3,718 | 4,750 | 17,250 |
| Dyeing and cleaning | 4 | 22,500 | 13 | 6 | 1 | 8,100 | 4,566 | 21,405 |
| Electroplating | 4 | 14,000 | 25 | ..... | 6 | 13,477 | 5,300 | 29,563 |
| Engraving and die-sinking | 3 | 7,300 | 9 | 1 | 1 | 6,606 | 8,600 | 23,700 |
| Engraving, wood | 5 | 3,400 | 7 | ..... | ..... | 5,248 | 500 | 14,600 |
| Flouring- and grist-mill products | 3 | 222,000 | 33 | ..... | ..... | 16,000 | 300,000 | 354,720 |
| Foundery and machine-shop products | 28 | 3,070,950 | 2,156 | ..... | 59 | 974,145 | 1,159,617 | 2,656,635 |
| Furniture (see also Upholstering) | 11 | 176,800 | 131 | 4 | 11 | 53,051 | 100,790 | 211,391 |
| Hairwork | 6 | 10,625 | ..... | 15 | ..... | 3,014 | 6,534 | 15,585 |
| Instruments, professional and scientific | 4 | 7,300 | 3 | ..... | 1 | 1,025 | 675 | 6,642 |
| Jewelry | 7 | 24,100 | 23 | 1 | 1 | 13,650 | 10,250 | 33,260 |
| Kindling wood | 9 | 17,900 | 19 | ..... | 8 | 6,987 | 20,650 | 38,860 |
| Leather, curried | 3 | 43,000 | 19 | ..... | ..... | 7,044 | 69,336 | 89,865 |
| Liquors, malt | 17 | 1,943,500 | 660 | ..... | ..... | 291,896 | 1,479,296 | 2,041,600 |
| Looking-glass and picture frames | 3 | 18,900 | 27 | ..... | 3 | 14,660 | 13,962 | 35,907 |
| Lumber, planed (see also Sash, doors, and blinds) | 4 | 100,000 | 134 | ..... | 25 | 52,597 | 37,250 | 111,261 |
| Malt | 13 | 1,322,688 | 155 | ..... | ..... | 52,622 | 1,111,656 | 1,348,858 |
| Marble and stone work | 9 | 39,600 | 47 | ..... | ..... | 19,777 | 20,259 | 57,660 |
| Masonry, brick and stone | 4 | 2,500 | 20 | ..... | ..... | 6,912 | 6,850 | 19,600 |
| Mineral and soda waters | 5 | 44,800 | 44 | ..... | ..... | 15,221 | 60,900 | 107,196 |
| Models and patterns | 4 | 2,300 | 5 | ..... | ..... | 2,100 | 550 | 6,300 |
| Musical instruments, pianos and materials | 7 | 227,200 | 169 | ..... | 1 | 77,757 | 129,117 | 248,000 |
| Painting and paperhanging | 36 | 59,250 | 164 | ..... | 2 | 73,159 | 76,860 | 199,838 |
| Patent medicines and compounds | 5 | 47,000 | 21 | 7 | 7 | 13,700 | 47,075 | 85,126 |
| Photographing | 13 | 86,025 | 30 | 13 | 4 | 20,873 | 24,048 | 87,022 |
| Plumbing and gasfitting | 24 | 85,050 | 103 | ..... | 3 | 50,444 | 101,856 | 206,158 |
| Printing and publishing | 17 | 1,032,500 | 528 | 148 | 14 | 342,189 | 340,717 | 875,025 |
| Roofing and roofing materials | 3 | 20,500 | 42 | ..... | ..... | 21,900 | 47,250 | 79,475 |
| Saddlery and harness | 19 | 31,638 | 43 | ..... | 1 | 18,319 | 23,116 | 66,839 |
| Sash, doors, and blinds (see also Lumber, planed) | 7 | 54,000 | 104 | ..... | 4 | 40,100 | 77,200 | 143,035 |
| Shipbuilding | 3 | 15,000 | 71 | ..... | ..... | 53,200 | 27,800 | 90,000 |
| Shirts | 8 | 41,800 | 14 | 86 | ..... | 25,325 | 131,318 | 171,788 |
| Slaughtering and meat-packing, not including retail butchering | 10 | 193,000 | 70 | ..... | ..... | 18,182 | 750,645 | 804,773 |
| Soap and candles | 6 | 65,800 | 9 | ..... | ..... | 4,476 | 38,011 | 60,152 |
| Stationery goods | 3 | 275,000 | 67 | 92 | ..... | 40,494 | 278,459 | 366,046 |
| Tinware, copperware, and sheet iron ware | 24 | 83,200 | 81 | ..... | 5 | 30,000 | 75,601 | 130,634 |
| Tobacco, cigars and cigarettes | 50 | 220,450 | 290 | 49 | 30 | 121,057 | 269,050 | 545,246 |
| Upholstering (see also Furniture) | 4 | 15,450 | 16 | 6 | 1 | 10,568 | 28,526 | 47,302 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 7 | 7,500 | 11 | ..... | ..... | 3,462 | 4,400 | 12,600 |
| Wirework | 6 | 11,575 | 13 | 1 | 3 | 4,907 | 52,700 | 67,533 |
| All other industries (*a*) | 72 | 1,998,302 | 736 | 202 | 68 | 384,802 | 1,607,256 | 2,687,529 |

*a* Embracing awnings and tents; axle-grease; baking and yeast powders; billiard tables and materials; blacking; bluing; boot and shoe cut stock; boot and shoe findings; boot and shoe uppers; boxes, wooden, packing; carriage and wagon materials; collars and cuffs, paper; coppersmithing; cordage and twine; cork cutting; cutlery and edge tools; drugs and chemicals; enameling; fancy articles; fertilizers; files; food preparations; furs, dressed; gas machines and meters; gold and silver leaf and foil; hats and caps; hosiery and knit goods; housefurnishing goods; ink; iron and steel; iron railing, wrought; lasts; leather, tanned; lock- and gun smithing; mantels, slate, marble, and marbleized; mattresses and spring beds; millinery and lace goods; musical instruments and materials (not specified); oilcloth, enameled; paving materials; plated and britannia ware; pumps; refrigerators; safes, doors, and vaults, fire-proof; saws; silverware; springs, steel, car, and carriage; steam fittings and heating apparatus; stencils and brands; stone- and earthen-ware; tobacco, chewing, smoking, and snuff; umbrellas and canes; varnish; vinegar; wooden ware; and wood, turned and carved.

### CITY OF ALLEGHENY, PA.

[Statistics collected under the direction of A. B. MILLS, Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 424 | $8,451,059 | 5,549 | 614 | 308 | $2,652,774 | $8,818,153 | $13,731,792 |
| Blacksmithing (see also Wheelwrighting) | 16 | 7,050 | 17 | ..... | ..... | 8,910 | 7,093 | 28,300 |
| Boots and shoes, including custom work and repairing | 6 | 1,750 | 4 | ..... | ..... | 1,050 | 1,850 | 5,900 |
| Bread and other bakery products | 18 | 101,000 | 69 | 9 | 5 | 42,414 | 142,613 | 219,850 |
| Brick and tile | 6 | 47,000 | 144 | ..... | 5 | 47,116 | 16,560 | 93,100 |
| Brooms and brushes | 3 | 6,000 | 5 | 16 | ..... | 4,300 | 3,000 | 11,300 |
| Carpentering | 32 | 167,850 | 297 | ..... | 2 | 163,105 | 303,300 | 624,770 |
| Carriages and wagons (see also Wheelwrighting) | 5 | 23,500 | 60 | ..... | ..... | 29,523 | 20,600 | 74,925 |
| Clothing, men's | 7 | 39,300 | 43 | 31 | ..... | 16,798 | 37,150 | 68,150 |
| Coffins, burial cases, and undertakers' goods | 8 | 215,500 | 240 | 18 | ..... | 105,132 | 112,679 | 270,121 |
| Confectionery | 5 | 35,500 | 21 | 11 | 7 | 15,825 | 42,300 | 76,550 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF ALLEGHENY, PA.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Cooperage | 7 | $20,600 | 32 | ..... | ..... | $13,058 | $43,000 | $95,328 |
| Cotton goods | 3 | 596,935 | 148 | 461 | 161 | 138,513 | 435,235 | 734,250 |
| Dentistry, mechanical | 14 | 12,500 | 1 | 1 | ..... | 400 | 5,800 | 20,600 |
| Drugs and chemicals | 4 | 44,500 | 10 | 1 | ..... | 6,070 | 32,570 | 54,900 |
| Dyeing and cleaning | 5 | 9,100 | 16 | 4 | 1 | 10,348 | 4,450 | 22,900 |
| Foundery and machine-shop products | 14 | 978,700 | 786 | ..... | 20 | 409,001 | 635,715 | 1,167,137 |
| Furniture (see also Upholstering) | 6 | 51,800 | 60 | ..... | 1 | 29,591 | 41,103 | 80,500 |
| Hardware | 4 | 87,000 | 146 | ..... | ..... | 56,400 | 91,400 | 210,400 |
| Iron and steel | 7 | 1,776,364 | 1,509 | ..... | 51 | 619,438 | 1,418,292 | 2,034,364 |
| Leather, curried | 7 | 505,000 | 103 | ..... | ..... | 51,741 | 1,407,570 | 1,617,000 |
| Leather, tanned | 12 | 547,500 | 221 | ..... | ..... | 105,839 | 1,095,525 | 1,529,745 |
| Liquors, malt | 8 | 556,000 | 150 | ..... | ..... | 76,947 | 348,650 | 666,712 |
| Lumber, planed | 4 | 60,500 | 51 | ..... | ..... | 30,470 | 48,275 | 91,350 |
| Lumber, sawed | 4 | 115,000 | 40 | ..... | ..... | 11,500 | 118,000 | 177,900 |
| Marble and stone work | 7 | 56,000 | 86 | ..... | ..... | 40,386 | 29,342 | 83,248 |
| Masonry, brick and stone | 7 | 25,100 | 49 | ..... | ..... | 19,983 | 12,000 | 44,426 |
| Painting and paperhanging | 24 | 19,700 | 56 | 1 | 1 | 30,450 | 29,550 | 85,300 |
| Paints | 7 | 925,000 | 229 | ..... | 4 | 95,291 | 694,910 | 1,005,788 |
| Photographing | 7 | 10,200 | 5 | 3 | ..... | 4,002 | 3,804 | 12,962 |
| Plumbing and gasfitting | 16 | 55,700 | 54 | ..... | 4 | 27,908 | 48,517 | 98,144 |
| Saddlery and harness | 7 | 120,000 | 129 | ..... | 10 | 72,058 | 122,543 | 242,593 |
| Salt | 3 | 140,000 | 53 | ..... | 3 | 24,680 | 48,000 | 99,900 |
| Shipbuilding | 3 | 20,300 | 9 | ..... | ..... | 5,000 | 12,500 | 22,000 |
| Soap and candles | 4 | 150,000 | 48 | 1 | ..... | 24,300 | 129,265 | 286,115 |
| Tinware, copperware, and sheet-iron ware | 17 | 42,650 | 44 | ..... | 2 | 23,747 | 36,200 | 84,700 |
| Tobacco, cigars and cigarettes | 43 | 54,710 | 118 | 9 | 4 | 53,114 | 64,372 | 161,227 |
| Upholstering (see also Furniture) | 5 | 4,200 | 5 | 2 | 1 | 3,400 | 5,050 | 14,600 |
| Watch and clock repairing | 11 | 8,350 | 13 | ..... | 3 | 7,635 | 3,335 | 24,000 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 25 | 46,500 | 52 | ..... | 2 | 25,611 | 24,825 | 75,405 |
| All other industries (a) | 33 | 749,300 | 426 | 46 | 21 | 201,720 | 1,041,295 | 1,424,363 |

a Embracing agricultural implements; baskets, rattan and willow ware; carpets, rag; files; flouring- and grist-mill products; grease and tallow; iron bolts, nuts, washers, and rivets; malt; mineral and soda waters; models and patterns; oil, linseed; printing and publishing; roofing and roofing materials; slaughtering and meat-packing; springs, steel, car, and carriage; tobacco, chewing, smoking, and snuff; vinegar; wirework; and woolen goods.

### CITY OF ATLANTA, GA.

[Statistics collected under the direction of MOSES T. SIMMONS, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 196 | $2,468,456 | 2,753 | 533 | 394 | $889,282 | $3,159,267 | $4,861,727 |
| Blacksmithing | 16 | 5,300 | 29 | ..... | 2 | 7,650 | 10,360 | 24,050 |
| Boots and shoes, including custom work and repairing | 11 | 1,800 | 23 | ..... | ..... | 8,438 | 10,467 | 26,080 |
| Bread and other bakery products | 6 | 36,900 | 42 | 13 | 9 | 19,260 | 115,500 | 161,100 |
| Brick and tile | 14 | 31,240 | 230 | ..... | 83 | 42,230 | 33,915 | 102,200 |
| Carpentering | 10 | 85,500 | 318 | ..... | 5 | 92,800 | 220,000 | 382,200 |
| Carriages and wagons | 8 | 22,000 | 86 | ..... | 4 | 32,800 | 30,700 | 81,500 |
| Clothing, men's | 3 | 13,400 | 12 | 28 | ..... | 8,465 | 17,000 | 32,500 |
| Confectionery | 4 | 78,300 | 50 | 23 | 1 | 18,146 | 215,000 | 263,000 |
| Dyeing and cleaning | 3 | 7,600 | 7 | 4 | ..... | 3,614 | 2,624 | 10,000 |
| Flouring- and grist-mill products | 4 | 125,000 | 34 | ..... | ..... | 15,000 | 474,000 | 527,800 |
| Foundery and machine-shop products | 7 | 314,866 | 172 | ..... | 7 | 72,393 | 114,784 | 252,908 |
| Furniture (see also Mattresses and spring beds) | 3 | 22,350 | 85 | 3 | 3 | 17,558 | 28,759 | 82,014 |
| Lumber, planed | 5 | 81,000 | 235 | ..... | 10 | 56,789 | 179,000 | 285,000 |
| Marble and stone work | 4 | 14,400 | 25 | ..... | ..... | 8,950 | 7,800 | 33,100 |
| Mattresses and spring beds (see also Furniture) | 3 | 1,400 | 5 | 5 | 1 | 1,860 | 2,600 | 6,200 |
| Painting and paperhanging | 6 | 2,650 | 23 | ..... | ..... | 6,920 | 6,400 | 18,650 |
| Patent medicines and compounds | 9 | 102,500 | 59 | 15 | 7 | 30,492 | 52,700 | 128,500 |
| Printing and publishing | 10 | 183,500 | 163 | 10 | 15 | 71,112 | 96,549 | 220,383 |
| Saddlery and harness | 3 | 12,200 | 15 | ..... | ..... | 8,000 | 17,100 | 32,000 |
| Slaughtering and meat-packing, not including retail butchering | 9 | 25,700 | 35 | ..... | 6 | 9,473 | 269,077 | 309,093 |
| Tinware, copperware, and sheet-iron ware | 7 | 44,300 | 86 | ..... | 6 | 25,250 | 80,400 | 127,900 |
| Watch and clock repairing | 4 | 5,200 | 7 | ..... | 2 | 4,524 | 4,000 | 14,800 |
| All other industries (a) | 47 | 1,251,350 | 1,012 | 432 | 233 | 327,558 | 1,170,532 | 1,730,349 |

a Embracing agricultural implements; bags, paper; baking and yeast powders; bookbinding and blank-book making; boxes, fancy and paper; boxes, wooden, packing; brass castings; coal-tar; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; cooperage; coppersmithing; cotton goods; dyeing and finishing textiles; ice, artificial; instruments, professional and scientific; iron and steel; liquors, distilled; liquors, malt; lithographing; looking-glass and picture frames; masonry, brick and stone; millstones; mineral and soda waters; models and patterns; musical instruments, organs and materials; paints; paving materials; perfumery and cosmetics; plumbing and gasfitting; stencils and brands; straw goods; tobacco, cigars and cigarettes; trunks and valises; and upholstering.

### CITY OF AUBURN, N. Y.

[Statistics collected under the direction of MINARD MCDONALD, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 154 | $4,423,950 | 3,579 | 752 | 187 | $1,658,826 | $4,052,746 | $7,719,409 |
| Agricultural implements | 7 | 1,231,000 | 1,124 | ..... | 8 | 551,314 | 894,800 | 2,416,075 |
| Blacksmithing | 8 | 14,000 | 13 | ..... | ..... | 6,120 | 7,600 | 21,900 |
| Boots and shoes, including custom work and repairing | 9 | 131,800 | 335 | ..... | ..... | 69,853 | 469,805 | 501,498 |
| Bread and other bakery products | 3 | 6,300 | 19 | ..... | ..... | 9,590 | 38,506 | 56,506 |
| Carpentering | 6 | 11,000 | 75 | ..... | ..... | 34,600 | 120,000 | 199,000 |
| Dentistry, mechanical | 4 | 14,500 | ..... | ..... | ..... | ..... | 3,261 | 12,510 |
| Foundery and machine-shop products | 5 | 152,000 | 273 | ..... | ..... | 96,075 | 153,004 | 299,177 |
| Furniture | 4 | 75,300 | 22 | ..... | ..... | 11,125 | 18,600 | 37,840 |
| Liquors, malt | 4 | 132,000 | 16 | ..... | 6 | 10,017 | 47,434 | 87,362 |
| Marble and stone work | 4 | 10,500 | 12 | ..... | ..... | 6,635 | 7,487 | 19,648 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF AUBURN, N. Y.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Masonry, brick and stone | 6 | $6,700 | 71 | ..... | ..... | $35,000 | $30,000 | $72,700 |
| Painting and paperhanging | 4 | 10,050 | 16 | ..... | ..... | 6,400 | 13,800 | 25,000 |
| Photographing | 8 | 20,600 | 47 | 15 | ..... | 24,710 | 24,450 | 74,200 |
| Printing and publishing | 3 | 42,500 | 25 | 24 | 25 | 22,167 | 34,490 | 77,600 |
| Saddlery and harness | 7 | 34,500 | 70 | ..... | ..... | 19,075 | 38,975 | 70,700 |
| Tinware, copperware, and sheet-iron ware | 5 | 13,275 | 13 | ..... | ..... | 7,004 | 17,750 | 30,600 |
| Tobacco, cigars and cigarettes | 15 | 21,325 | 29 | ..... | 4 | 15,378 | 22,546 | 52,918 |
| Woolen goods | 3 | 940,000 | 351 | 325 | 26 | 204,745 | 799,577 | 1,292,901 |
| All other industries (a) | 49 | 1,556,600 | 1,068 | 388 | 118 | 529,018 | 1,310,601 | 2,280,965 |

a Embracing bookbinding and blank-book making; boxes, fancy and paper; buttons; carpets, other than rag; carriages and sleds, children's; carriages and wagons; cement; clothing, men's; dyeing and cleaning; files; flouring- and grist-mill products; gloves and mittens; hairwork; hand-knit goods; hardware; hardware, saddlery; iron and steel; iron forgings; leather, curried; leather, tanned; lock- and gun-smithing; mattresses and spring beds; mineral and soda waters; models and patterns; oil, neat's-foot; patent medicines and compounds; pumps; sash, doors and blinds; shirts; soap and candles; starch; tobacco, chewing, smoking, and snuff; tools; washing-machines and clothes-wringers; wheelwrighting; and window blinds and shades.

### CITY OF AUGUSTA, GA.

[Statistics collected under the direction of ERNEST E. DOSCHER, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 60 | $2,069,275 | 867 | 511 | 302 | $448,825 | $2,247,665 | $3,139,029 |
| Blacksmithing | 5 | 2,075 | 11 | ..... | ..... | 3,221 | 5,730 | 12,569 |
| Carpentering | 5 | 14,350 | 81 | ..... | ..... | 30,585 | 68,033 | 111,016 |
| Carriages and wagons | 4 | 80,450 | 62 | ..... | 2 | 24,456 | 52,750 | 91,746 |
| Cotton goods | 6 | 1,360,000 | 222 | 493 | 234 | 223,633 | 1,038,466 | 1,460,982 |
| Flouring- and grist-mill products | 3 | 144,000 | 50 | ..... | 6 | 18,360 | 770,000 | 869,950 |
| Foundery and machine-shop products | 4 | 56,000 | 107 | 4 | 14 | 37,620 | 79,699 | 146,250 |
| Tinware, copperware, and sheet-iron ware | 4 | 4,100 | 14 | ..... | 1 | 4,250 | 17,200 | 27,700 |
| All other industries (a) | 29 | 408,300 | 320 | 14 | 45 | 106,700 | 215,787 | 418,846 |

a Embracing bread and other bakery products; brick and tile; coffins, burial cases, and undertakers' goods; confectionery; fertilizers; ice, artificial; looking-glass and picture frames; marble and stone work; mattresses and spring beds; mineral and soda waters; painting and paperhanging; patent medicines and compounds; plumbing and gasfitting; printing and publishing; saddlery and harness; sash, doors, and blinds; stencils and brands; tobacco, chewing, smoking, and snuff; tobacco, cigars and cigarettes; wheelwrighting; and woolen goods.

### CITY OF BALTIMORE, MD.

[Statistics collected under the direction of NOBLE H. CREAGER, Chief Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 3,683 | $38,586,773 | 34,086 | 18,137 | 4,115 | $15,117,489 | $47,974,297 | $78,417,304 |
| Agricultural implements | 5 | 106,000 | 118 | ..... | 15 | 49,250 | 101,000 | 229,550 |
| Awnings and tents | 3 | 4,600 | 11 | 30 | ..... | 7,900 | 16,800 | 36,100 |
| Bags, paper | 3 | 78,500 | 24 | 22 | 4 | 17,704 | 152,270 | 236,700 |
| Baking and yeast powders (see also Drugs and chemicals) | 4 | 70,600 | 12 | 14 | ..... | 16,000 | 111,040 | 167,808 |
| Baskets, rattan and willow ware | 16 | 5,110 | 16 | ..... | 2 | 5,168 | 5,335 | 18,826 |
| Blacksmithing (see also Wheelwrighting) | 116 | 127,520 | 270 | ..... | 6 | 123,894 | 98,225 | 348,835 |
| Bookbinding and blank-book making | 17 | 91,756 | 99 | 83 | 25 | 61,593 | 59,304 | 163,988 |
| Boot and shoe uppers | 11 | 7,700 | 27 | 18 | 1 | 11,755 | 17,375 | 37,675 |
| Boots and shoes, including custom work and repairing | 623 | 865,337 | 2,117 | 507 | 70 | 930,861 | 1,632,492 | 3,411,736 |
| Boxes, cigar | 13 | 19,325 | 22 | 19 | 9 | 15,163 | 28,883 | 58,822 |
| Boxes, fancy and paper | 8 | 34,020 | 28 | 169 | 19 | 32,617 | 82,883 | 140,625 |
| Boxes, wooden, packing | 13 | 139,012 | 318 | ..... | 44 | 147,077 | 300,573 | 531,000 |
| Brass castings | 10 | 19,500 | 32 | ..... | 1 | 16,279 | 33,741 | 71,101 |
| Bread and other bakery products | 316 | 832,372 | 625 | 73 | 58 | 261,463 | 1,449,459 | 2,172,662 |
| Brick and tile | 28 | 640,000 | 1,460 | ..... | 60 | 322,839 | 156,648 | 626,813 |
| Brooms and brushes | 28 | 83,115 | 210 | 22 | 32 | 74,758 | 156,978 | 293,619 |
| Carpentering | 114 | 1,107,800 | 1,226 | ..... | 9 | 674,964 | 1,906,239 | 3,216,028 |
| Carpets, rag | 17 | 23,525 | 28 | 2 | 4 | 10,521 | 23,078 | 48,506 |
| Carriages and sleds, children's | 3 | 15,600 | 31 | 2 | 3 | 10,740 | 33,500 | 53,080 |
| Carriages and wagons (see also Wheelwrighting) | 37 | 223,700 | 364 | ..... | 8 | 147,201 | 155,573 | 397,849 |
| Clothing, men's | 188 | 3,848,851 | 5,184 | 5,915 | 58 | 1,822,501 | 6,013,863 | 9,446,793 |
| Clothing, women's | 27 | 136,250 | 22 | 482 | 23 | 84,998 | 265,192 | 469,718 |
| Coffee and spices, roasted and ground | 13 | 124,750 | 46 | 23 | ..... | 24,503 | 221,108 | 299,874 |
| Coffins, burial cases, and undertakers' goods | 52 | 91,275 | 73 | ..... | 1 | 31,984 | 73,103 | 184,423 |
| Confectionery | 53 | 339,765 | 222 | 87 | 13 | 110,718 | 781,752 | 1,108,038 |
| Cooperage | 43 | 220,860 | 364 | ..... | 7 | 146,382 | 325,432 | 560,696 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 8 | 20,200 | 21 | ..... | ..... | 11,900 | 15,600 | 32,250 |
| Cotton goods (see also Mixed textiles) | 3 | 699,000 | 209 | 225 | 108 | 80,738 | 182,283 | 327,366 |
| Cutlery and edge tools (see also Hardware) | 10 | 22,550 | 23 | ..... | 1 | 9,200 | 11,156 | 30,596 |
| Dentistry, mechanical | 14 | 12,260 | 11 | 1 | 1 | 6,323 | 4,313 | 32,788 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 17 | 652,300 | 189 | 47 | ..... | 78,144 | 529,485 | 873,125 |
| Dyeing and cleaning | 26 | 40,785 | 31 | 19 | ..... | 19,031 | 11,060 | 58,062 |
| Electroplating | 5 | 17,525 | 29 | ..... | 2 | 10,166 | 7,350 | 36,600 |
| Engraving and die-sinking | 7 | 1,925 | 6 | ..... | ..... | 3,300 | 1,450 | 14,059 |
| Engraving, wood | 4 | 1,250 | 4 | ..... | ..... | 1,800 | 905 | 6,900 |
| Fertilizers | 18 | 3,241,370 | 655 | ..... | 6 | 254,055 | 2,689,223 | 4,287,308 |
| Files (see also Saws) | 4 | 31,850 | 26 | ..... | 16 | 15,206 | 9,850 | 31,330 |
| Flavoring extracts | 5 | 8,200 | 15 | 4 | ..... | 5,274 | 16,360 | 31,100 |
| Flouring- and grist-mill products | 8 | 562,000 | 95 | ..... | ..... | 46,118 | 1,173,088 | 1,327,584 |
| Food preparations (see page 39) | 3 | 4,650 | 12 | 2 | 1 | 2,415 | 16,000 | 26,000 |
| Foundery and machine-shop products | 63 | 2,240,004 | 2,643 | ..... | 33 | 1,333,841 | 1,887,421 | 3,939,717 |
| Fruits and vegetables, canned and preserved | 41 | 1,959,100 | 2,324 | 6,753 | 1,846 | 815,013 | 3,854,550 | 5,201,268 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 68 | 721,552 | 941 | 15 | 22 | 401,005 | 772,232 | 1,512,634 |
| Furniture, chairs | 3 | 150,250 | 64 | 30 | 2 | 47,200 | 130,200 | 278,560 |
| Furs, dressed | 4 | 30,000 | 6 | 17 | ..... | 8,125 | 10,635 | 33,913 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF BALTIMORE, MD.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Gas machines and meters | 5 | $62,000 | 82 | 1 | 17 | $42,748 | $118,250 | $200,620 |
| Glass | 7 | 406,000 | 524 | ..... | 88 | 234,254 | 239,682 | 587,000 |
| Gold and silver leaf and foil | 3 | 6,000 | 16 | 20 | 2 | 10,500 | 26,000 | 49,200 |
| Grease and tallow | 6 | 101,500 | 22 | ..... | ..... | 10,254 | 213,449 | 258,621 |
| Hairwork | 11 | 12,250 | 4 | 20 | ..... | 5,654 | 16,575 | 34,298 |
| Hardware (see also Cutlery and edge tools) | 5 | 18,100 | 31 | ..... | 4 | 13,844 | 14,100 | 37,504 |
| Hats and caps, not including wool hats | 6 | 26,000 | 22 | 33 | ..... | 13,415 | 33,000 | 63,380 |
| Instruments, professional and scientific | 6 | 40,000 | 25 | 2 | 4 | 18,244 | 3,850 | 31,600 |
| Iron and steel | 10 | 1,632,125 | 1,343 | ..... | 65 | 532,579 | 1,803,209 | 2,672,940 |
| Iron railing, wrought | 6 | 5,900 | 19 | ..... | ..... | 8,200 | 13,000 | 32,800 |
| Jewelry | 4 | 11,300 | 16 | 1 | 3 | 9,744 | 12,860 | 33,100 |
| Kindling wood | 11 | 36,925 | 42 | ..... | 22 | 18,256 | 36,245 | 72,296 |
| Leather, curried | 18 | 115,017 | 74 | ..... | 1 | 29,117 | 310,527 | 405,317 |
| Leather, tanned | 17 | 134,768 | 93 | 9 | 4 | 39,379 | 206,654 | 287,980 |
| Liquors, malt | 21 | 1,143,490 | 203 | ..... | ..... | 97,851 | 488,752 | 888,644 |
| Lock- and gun-smithing | 20 | 28,100 | 35 | ..... | 1 | 15,932 | 12,143 | 42,286 |
| Looking-glass and picture frames | 31 | 118,550 | 271 | 70 | 25 | 98,653 | 160,492 | 402,423 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 3 | 36,000 | 30 | ..... | ..... | 15,500 | 33,000 | 60,700 |
| Malt | 6 | 705,000 | 98 | ..... | ..... | 52,000 | 547,000 | 752,000 |
| Mantels, slate, marble, and marbleized | 3 | 23,000 | 19 | ..... | 2 | 8,388 | 10,784 | 30,205 |
| Marble and stone work | 40 | 651,701 | 815 | ..... | 10 | 323,480 | 447,030 | 954,285 |
| Masonry, brick and stone | 47 | 203,000 | 655 | ..... | 1 | 266,889 | 399,777 | 767,946 |
| Mattresses and spring beds (see also Furniture) | 5 | 6,825 | 10 | 2 | ..... | 4,442 | 32,443 | 44,125 |
| Millinery and lace goods | 11 | 79,100 | 24 | 133 | 41 | 35,896 | 148,240 | 229,460 |
| Millstones | 3 | 34,700 | 24 | ..... | ..... | 11,293 | 14,242 | 38,319 |
| Mineral and soda waters | 17 | 66,900 | 84 | ..... | ..... | 33,753 | 108,035 | 199,607 |
| Mixed textiles (see also Cotton goods; Silk and silk goods) | 3 | 4,900 | 6 | 11 | 5 | 4,000 | 7,850 | 20,240 |
| Models and patterns | 3 | 1,450 | 5 | ..... | ..... | 2,050 | 1,700 | 8,100 |
| Musical instruments and materials (not specified) | 6 | 4,900 | 4 | ..... | ..... | 1,395 | 1,975 | 7,400 |
| Musical instruments, organs and materials | 3 | 16,250 | 21 | ..... | 2 | 8,000 | 24,810 | 41,000 |
| Musical instruments, pianos and materials | 4 | 638,382 | 380 | ..... | 5 | 200,988 | 157,699 | 534,099 |
| Painting and paperhanging | 89 | 99,505 | 265 | ..... | 8 | 144,861 | 168,898 | 453,943 |
| Paints | 10 | 367,200 | 93 | ..... | 7 | 39,941 | 192,185 | 338,658 |
| Patent medicines and compounds (see also Drugs and chemicals) | 33 | 222,650 | 103 | 109 | 45 | 68,467 | 438,027 | 646,493 |
| Perfumery and cosmetics | 5 | 23,410 | 11 | 27 | 1 | 7,902 | 15,251 | 42,499 |
| Photographing | 25 | 70,150 | 51 | 15 | 2 | 25,005 | 22,426 | 95,228 |
| Pickles, preserves, and sauces | 6 | 21,850 | 7 | 14 | 6 | 5,532 | 48,250 | 71,300 |
| Plated and britannia ware | 3 | 19,200 | 43 | ..... | ..... | 20,780 | 18,500 | 52,000 |
| Plumbing and gasfitting | 89 | 198,185 | 194 | ..... | 9 | 82,042 | 176,186 | 412,886 |
| Printing and publishing | 47 | 1,954,200 | 671 | 21 | 99 | 400,251 | 560,657 | 1,374,108 |
| Pumps, not including steam pumps | 9 | 8,475 | 16 | ..... | 1 | 8,460 | 14,550 | 39,050 |
| Refrigerators | 3 | 16,200 | 24 | ..... | ..... | 7,099 | 13,040 | 27,990 |
| Roofing and roofing materials | 6 | 89,625 | 46 | ..... | 1 | 16,769 | 30,450 | 78,017 |
| Saddlery and harness | 76 | 304,625 | 461 | 2 | 81 | 223,187 | 388,092 | 857,810 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 9 | 354,525 | 359 | ..... | 34 | 190,111 | 334,113 | 681,755 |
| Saws | 3 | 6,500 | 8 | ..... | ..... | 2,821 | 2,744 | 10,281 |
| Scales and balances | 3 | 9,200 | 7 | ..... | ..... | 4,181 | 2,819 | 11,077 |
| Sewing machines and attachments | 6 | 20,500 | 22 | 1 | 2 | 11,620 | 9,450 | 35,595 |
| Shipbuilding | 62 | 1,493,275 | 887 | ..... | ..... | 524,873 | 707,026 | 1,445,080 |
| Shirts | 38 | 313,930 | 328 | 1,284 | 84 | 307,807 | 425,947 | 949,524 |
| Show-cases | 5 | 14,300 | 38 | ..... | 1 | 15,785 | 27,389 | 74,320 |
| Silk and silk goods (see also Mixed textiles) | 4 | 20,900 | 12 | 56 | 14 | 11,000 | 15,760 | 35,415 |
| Silversmithing | 4 | 98,703 | 88 | ..... | ..... | 26,979 | 49,542 | 112,061 |
| Slaughtering and meat-packing, not including retail butchering | 6 | 705,000 | 194 | ..... | ..... | 85,300 | 2,559,662 | 2,742,045 |
| Soap and candles | 7 | 250,432 | 77 | ..... | 6 | 43,145 | 215,238 | 323,350 |
| Stencils and brands | 3 | 2,800 | 6 | ..... | 1 | 3,526 | 2,200 | 9,500 |
| Stone- and earthen-ware | 6 | 125,700 | 194 | 10 | 62 | 115,004 | 74,923 | 254,594 |
| Straw goods | 3 | 160,800 | 107 | 422 | 15 | 57,761 | 264,507 | 362,982 |
| Sugar and molasses, refined | 3 | 260,000 | 106 | ..... | ..... | 31,000 | 756,703 | 840,986 |
| Surgical appliances | 3 | 5,700 | 35 | 5 | ..... | 17,000 | 15,600 | 61,500 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing) | 154 | 1,071,360 | 1,231 | 124 | 298 | 569,642 | 2,250,500 | 3,371,081 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 10 | 602,600 | 187 | 740 | 128 | 165,107 | 1,152,906 | 1,531,424 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 329 | 568,282 | 1,050 | 115 | 84 | 462,099 | 617,585 | 1,551,014 |
| Trunks and valises | 15 | 24,150 | 51 | ..... | 4 | 19,228 | 36,810 | 75,460 |
| Umbrellas and canes | 3 | 8,550 | 4 | 6 | ..... | 2,080 | 8,500 | 17,400 |
| Upholstering (see also Furniture) | 19 | 22,725 | 42 | 7 | 2 | 16,820 | 51,781 | 98,539 |
| Vinegar | 8 | 47,750 | 17 | 1 | 1 | 7,012 | 58,112 | 87,012 |
| Watch and clock repairing | 23 | 18,500 | 25 | ..... | 4 | 14,883 | 6,454 | 41,415 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 44 | 77,445 | 148 | ..... | 3 | 54,057 | 54,013 | 166,325 |
| Whips | 3 | 21,300 | 31 | 6 | 1 | 13,936 | 25,800 | 52,925 |
| Window blinds and shades | 3 | 5,500 | 24 | ..... | ..... | 3,200 | 11,500 | 18,900 |
| Wirework | 4 | 33,500 | 42 | ..... | 2 | 24,000 | 26,000 | 77,000 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 8 | 2,660 | 17 | ..... | 4 | 8,203 | 9,020 | 26,436 |
| All other industries (a) | 81 | 2,790,664 | 1,564 | 271 | 293 | 766,948 | 4,945,900 | 6,655,810 |

a Embracing artificial limbs; babbitt metal and solder; bags, other than paper; bells; belting and hose, leather; billiard tables and materials; blacking; bluing; bridges; carpets, other than rag; carriage and wagon materials; cars, railroad, street, and repairs; cleansing and polishing preparations; cloth-finishing; cork cutting; cordage and twine; corsets; explosives and fireworks; fancy articles; fire extinguishers, chemical; flags and banners; furnishing goods, men's; glass, cut, stained, and ornamented; hand-knit goods; hosiery and knit goods; iron bolts, nuts, washers, and rivets; iron forgings; iron nails and spikes, cut and wrought; iron work, architectural and ornamental; ivory and bone work; japanning; kaolin and ground earths; lamps and reflectors; lard, refined; lasts; lead, bar, pipe, sheet, and shot; leather, dressed skins; lightning rods; lime; liquors, distilled; lithographing; lumber, sawed; oil, illuminating, not including petroleum refining; oil, lard; oleomargarine; pipes, tobacco; printing materials; regalia and society banners and emblems; rubber and elastic goods; safes, doors, and vaults, fire-proof; shoddy; spectacles and eyeglasses; sporting goods; stationery goods; telegraph and telephone apparatus; toys and games; type founding; upholstering materials; and wooden ware.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF BAY CITY, MICH.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 80 | $4,235,500 | 2,066 | 21 | 151 | $802,488 | $3,851,553 | $5,533,621 |
| Cooperage | 6 | 10,200 | 39 | ..... | 4 | 19,220 | 30,100 | 60,450 |
| Foundery and machine-shop products | 9 | 278,000 | 322 | ..... | 5 | 126,583 | 176,200 | 340,695 |
| Lumber, sawed | 22 | 3,042,000 | 1,079 | ..... | 95 | 351,500 | 2,831,608 | 3,702,298 |
| Salt | 20 | 673,000 | 405 | ..... | 21 | 191,642 | 296,297 | 707,741 |
| All other industries (a) | 23 | 232,300 | 221 | 21 | 26 | 113,543 | 517,348 | 722,437 |

a Embracing blacksmithing; boots and shoes; carriages and wagons; clothing, men's; flouring- and grist-mill products; liquors, malt; lumber, planed; mineral and soda waters; models and patterns; needles and pins; sash, doors, and blinds; slaughtering and meat-packing; tinware, copperware, and sheet-iron ware; tobacco, cigars and cigarettes; and wooden ware.

### CITY OF BOSTON, MASS.

[Statistics collected under the direction of ROBERT T. SWAN, Chief Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 3,665 | $47,348,384 | 39,810 | 18,150 | 1,253 | $24,924,009 | $81,688,160 | $130,531,993 |
| Artificial feathers and flowers (see also Millinery and lace goods) | 4 | 20,000 | 16 | 162 | ..... | 25,540 | 21,350 | 124,900 |
| Awnings and tents | 4 | 16,200 | 12 | 40 | 1 | 21,180 | 43,840 | 77,150 |
| Baking and yeast powders (see also Drugs and chemicals) | 4 | 254,000 | 40 | 36 | 8 | 25,530 | 160,230 | 305,230 |
| Belting and hose, leather | 3 | 40,000 | 28 | ..... | ..... | 10,383 | 160,000 | 204,000 |
| Billiard tables and materials | 4 | 47,200 | 43 | ..... | ..... | 20,000 | 42,700 | 88,300 |
| Blacking | 6 | 63,500 | 38 | 44 | ..... | 28,080 | 204,000 | 324,400 |
| Blacksmithing (see also Wheelwrighting) | 155 | 218,275 | 576 | ..... | 7 | 278,741 | 192,544 | 665,525 |
| Bookbinding and blank-book making | 46 | 410,328 | 423 | 596 | 31 | 402,082 | 359,790 | 986,416 |
| Boot and shoe cut stock | 13 | 62,500 | 57 | 209 | 8 | 61,075 | 243,600 | 352,200 |
| Boot and shoe findings | 11 | 117,700 | 104 | 71 | 15 | 63,012 | 258,975 | 389,883 |
| Boots and shoes, including custom work and repairing | 83 | 348,775 | 1,015 | 306 | 29 | 514,356 | 1,158,366 | 1,928,740 |
| Boxes, fancy and paper | 18 | 139,900 | 80 | 442 | 16 | 115,432 | 176,937 | 380,062 |
| Boxes, wooden, packing | 5 | 18,500 | 46 | ..... | 1 | 16,507 | 50,998 | 80,900 |
| Brass castings | 26 | 222,400 | 244 | 2 | 4 | 121,532 | 198,263 | 410,553 |
| Bread and other bakery products | 113 | 292,950 | 484 | 128 | 18 | 265,927 | 946,803 | 1,471,582 |
| Bridges | 9 | 53,000 | 138 | ..... | ..... | 61,620 | 206,300 | 325,500 |
| Brooms and brushes | 16 | 290,300 | 246 | 167 | 5 | 168,321 | 491,392 | 828,290 |
| Carpentering | 305 | 818,605 | 2,419 | ..... | 14 | 1,163,648 | 1,841,710 | 3,748,358 |
| Carriage and wagon materials | 3 | 52,000 | 23 | ..... | ..... | 15,363 | 70,000 | 110,770 |
| Carriages and wagons (see also Wheelwrighting) | 23 | 375,000 | 419 | 1 | ..... | 222,567 | 259,891 | 632,085 |
| Cars, railroad, street, and repairs | 3 | 100,000 | 100 | ..... | ..... | 45,329 | 61,399 | 127,225 |
| Clothing, men's | 222 | 4,200,193 | 2,246 | 6,844 | 190 | 3,418,126 | 9,844,108 | 16,157,892 |
| Clothing, women's | 24 | 319,900 | 229 | 1,740 | 17 | 423,573 | 1,028,135 | 1,808,520 |
| Coffee and spices, roasted and ground | 12 | 289,000 | 88 | 33 | ..... | 70,089 | 1,243,971 | 1,448,869 |
| Coffins, burial cases, and undertakers' goods | 9 | 27,300 | 33 | ..... | ..... | 18,956 | 18,625 | 52,950 |
| Confectionery | 33 | 251,475 | 275 | 255 | 5 | 193,436 | 1,059,225 | 1,606,214 |
| Cooperage | 21 | 79,467 | 119 | ..... | ..... | 51,532 | 86,374 | 188,560 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 8 | 107,200 | 141 | ..... | 5 | 85,350 | 115,800 | 249,100 |
| Cordage and twine | 7 | 706,550 | 343 | 108 | 19 | 134,995 | 774,925 | 1,124,400 |
| Cork cutting | 4 | 32,494 | 34 | 16 | 6 | 15,749 | 62,467 | 106,125 |
| Corsets | 5 | 45,000 | 19 | 242 | 10 | 59,240 | 105,000 | 226,600 |
| Cotton goods (see also Hosiery and knit goods; Mixed textiles) | 4 | 143,000 | 33 | 81 | 80 | 54,200 | 161,000 | 275,000 |
| Cutlery and edge tools (see also Hardware) | 11 | 34,600 | 41 | ..... | 1 | 19,108 | 17,670 | 58,500 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 11 | 200,500 | 104 | 16 | 1 | 51,584 | 321,132 | 450,961 |
| Dyeing and cleaning | 20 | 41,300 | 71 | 141 | 3 | 55,782 | 27,360 | 135,371 |
| Electrical apparatus and supplies | 9 | 162,500 | 86 | 1 | 1 | 48,308 | 44,506 | 110,289 |
| Electroplating | 19 | 113,450 | 91 | 4 | 2 | 41,241 | 53,990 | 147,550 |
| Engraving and die-sinking | 22 | 53,150 | 137 | 33 | 4 | 83,850 | 68,302 | 224,031 |
| Engraving, steel | 5 | 7,600 | 11 | 3 | 2 | 6,950 | 3,040 | 18,700 |
| Engraving, wood | 11 | 20,135 | 62 | ..... | 2 | 40,125 | 4,250 | 83,975 |
| Fancy articles | 6 | 17,500 | 26 | 18 | 11 | 11,580 | 23,100 | 48,200 |
| Fertilizers | 5 | 568,000 | 254 | ..... | ..... | 136,427 | 805,490 | 1,231,170 |
| Files | 7 | 57,200 | 64 | 4 | ..... | 23,448 | 11,700 | 57,133 |
| Flavoring extracts | 6 | 65,500 | 22 | 30 | 2 | 19,960 | 172,400 | 269,500 |
| Flouring- and grist-mill products | 8 | 510,000 | 69 | ..... | ..... | 40,792 | 1,000,010 | 1,101,000 |
| Foundery and machine-shop products (see also Steam fittings and heating apparatus). | 134 | 4,824,833 | 3,813 | 13 | 19 | 2,068,609 | 2,739,690 | 6,234,775 |
| Fruits and vegetables, canned and preserved | 8 | 242,700 | 97 | 181 | 39 | 83,997 | 496,250 | 681,188 |
| Furnishing goods, men's | 15 | 69,900 | 25 | 152 | 5 | 47,300 | 219,250 | 377,925 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 123 | 1,388,875 | 2,269 | 70 | 26 | 1,078,199 | 2,011,807 | 3,867,917 |
| Furniture, chairs | 7 | 70,000 | 102 | 2 | ..... | 49,261 | 170,279 | 257,238 |
| Furs, dressed | 13 | 64,547 | 42 | 73 | 2 | 31,016 | 179,177 | 263,250 |
| Glass, cut, stained, and ornamented | 10 | 55,650 | 77 | 12 | 3 | 48,511 | 34,630 | 114,340 |
| Gold and silver leaf and foil | 5 | 19,300 | 31 | 16 | 5 | 20,085 | 65,900 | 96,175 |
| Grease and tallow | 4 | 392,000 | 98 | ..... | 2 | 54,880 | 436,210 | 564,868 |
| Hairwork | 13 | 28,600 | 9 | 65 | ..... | 20,441 | 33,360 | 78,400 |
| Hand-stamps | 5 | 9,500 | 12 | ..... | ..... | 4,867 | 8,750 | 20,356 |
| Hardware (see also Cutlery and edge tools) | 11 | 117,850 | 46 | 4 | 1 | 22,575 | 22,430 | 79,900 |
| Hardware, saddlery | 3 | 26,000 | 39 | 1 | 2 | 17,720 | 9,500 | 36,300 |
| Hats and caps, not including wool hats | 27 | 106,200 | 222 | 167 | 13 | 146,252 | 196,592 | 441,276 |
| Housefurnishing goods | 5 | 20,700 | 25 | 10 | 4 | 11,575 | 22,750 | 46,200 |
| Hosiery and knit goods (see also Cotton goods) | 9 | 156,800 | 94 | 1,370 | 53 | 101,275 | 291,825 | 484,183 |
| Instruments, professional and scientific | 12 | 81,000 | 93 | 7 | 3 | 53,446 | 20,400 | 123,540 |
| Iron and steel | 5 | 1,624,408 | 1,108 | ..... | 12 | 444,095 | 1,552,002 | 2,189,987 |
| Iron bolts, nuts, washers, and rivets | 3 | 30,000 | 34 | 4 | 1 | 21,060 | 17,000 | 54,000 |
| Iron forgings | 3 | 420,000 | 149 | 95 | 2 | 107,779 | 250,947 | 502,970 |
| Japanning | 6 | 4,600 | 27 | ..... | 2 | 12,890 | 4,290 | 25,060 |
| Jewelry | 28 | 193,100 | 277 | 94 | 7 | 133,382 | 228,515 | 481,722 |
| Kindling wood | 3 | 19,000 | 52 | ..... | 6 | 19,085 | 24,223 | 58,687 |
| Labels and tags | 5 | 288,000 | 74 | 58 | ..... | 52,210 | 338,725 | 450,325 |
| Lapidary work | 4 | 30,000 | 33 | 3 | 3 | 19,700 | 56,575 | 102,200 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

CITY OF BOSTON, MASS.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Lasts | 3 | $10,500 | 14 | ..... | ..... | $7,820 | $3,600 | $18,100 |
| Leather, curried | 20 | 420,800 | 534 | ..... | 8 | 240,250 | 2,035,382 | 2,520,792 |
| Leather, dressed skins | 8 | 315,500 | 200 | ..... | 2 | 82,753 | 430,840 | 579,350 |
| Liquors, distilled | 3 | 245,000 | 75 | ..... | 2 | 35,000 | 415,500 | 596,500 |
| Liquors, malt | 18 | 2,874,400 | 1,014 | ..... | ..... | 486,448 | 2,461,159 | 4,426,264 |
| Lithographing (see also Printing and publishing) | 9 | 487,550 | 576 | 98 | 22 | 336,327 | 437,360 | 989,020 |
| Lock- and gun-smithing | 20 | 29,000 | 50 | ..... | 1 | 21,019 | 22,865 | 66,560 |
| Looking-glass and picture frames | 45 | 123,700 | 267 | 8 | 13 | 147,775 | 268,895 | 533,097 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 11 | 372,500 | 233 | ..... | 5 | 109,754 | 261,500 | 480,810 |
| Marble and stone work | 43 | 696,600 | 1,033 | ..... | ..... | 387,113 | 674,141 | 1,442,861 |
| Masonry, brick and stone | 101 | 284,725 | 1,178 | ..... | ..... | 515,208 | 612,351 | 1,392,231 |
| Mattresses and spring beds (see also Furniture) | 19 | 181,597 | 169 | 123 | 12 | 124,003 | 460,722 | 677,792 |
| Millinery and lace goods (see also Artificial feathers and flowers) | 4 | 38,500 | 15 | 109 | 20 | 33,300 | 224,900 | 317,000 |
| Mineral and soda waters | 8 | 74,600 | 90 | ..... | 1 | 51,340 | 137,084 | 239,644 |
| Mixed textiles (see also Cotton goods; Silk and silk goods) | 5 | 600,000 | 106 | 462 | 26 | 176,010 | 581,472 | 909,000 |
| Models and patterns | 22 | 24,850 | 84 | 2 | 1 | 39,564 | 13,640 | 88,455 |
| Musical instruments and materials (not specified) | 6 | 28,200 | 39 | 1 | ..... | 19,550 | 7,307 | 36,060 |
| Musical instruments, organs and materials | 8 | 445,366 | 512 | 8 | ..... | 319,804 | 414,090 | 904,732 |
| Musical instruments, pianos and materials | 23 | 1,673,000 | 1,107 | 11 | 3 | 693,867 | 943,069 | 2,166,966 |
| Oil, illuminating, not including petroleum refining | 3 | 90,000 | 11 | ..... | ..... | 6,500 | 300,600 | 345,000 |
| Painting and paperhanging | 230 | 256,828 | 1,091 | 2 | 7 | 490,361 | 391,689 | 1,204,861 |
| Paints (see also Varnish) | 6 | 241,500 | 69 | 2 | 2 | 38,830 | 281,400 | 390,900 |
| Patent medicines and compounds (see also Drugs and chemicals) | 21 | 179,650 | 67 | 56 | 2 | 49,647 | 345,850 | 771,631 |
| Perfumery and cosmetics | 7 | 21,500 | 23 | 17 | ..... | 12,690 | 69,550 | 126,000 |
| Photographing | 41 | 103,900 | 121 | 59 | 6 | 92,581 | 66,047 | 231,935 |
| Pickles, preserves, and sauces | 4 | 12,500 | 9 | 10 | 2 | 6,530 | 34,500 | 78,000 |
| Plumbing and gasfitting | 117 | 232,550 | 568 | 3 | 18 | 291,156 | 467,607 | 973,588 |
| Pocket-books | 3 | 2,400 | 5 | 1 | 1 | 1,650 | 2,550 | 7,000 |
| Printing and publishing (see also Lithographing) | 145 | 2,496,535 | 2,342 | 436 | 98 | 1,783,913 | 1,955,668 | 5,469,518 |
| Printing materials | 4 | 15,300 | 12 | 1 | 2 | 8,460 | 12,000 | 28,050 |
| Refrigerators | 5 | 52,350 | 64 | ..... | ..... | 22,450 | 44,400 | 87,700 |
| Roofing and roofing materials | 41 | 173,625 | 238 | ..... | ..... | 109,142 | 249,765 | 465,567 |
| Rubber and elastic goods | 10 | 1,095,000 | 407 | 506 | 10 | 362,106 | 1,304,347 | 2,095,460 |
| Saddlery and harness | 69 | 175,300 | 390 | 21 | 7 | 164,357 | 248,052 | 550,558 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 12 | 73,800 | 86 | 3 | 4 | 39,625 | 124,480 | 195,045 |
| Scales and balances | 3 | 49,000 | 39 | 1 | 4 | 23,770 | 11,440 | 51,613 |
| Sewing machines and attachments | 3 | 243,000 | 41 | ..... | ..... | 29,358 | 36,870 | 102,700 |
| Shipbuilding | 116 | 1,451,850 | 841 | ..... | ..... | 536,458 | 724,422 | 1,479,148 |
| Shirts | 7 | 69,300 | 34 | 159 | 3 | 44,626 | 206,800 | 329,800 |
| Show-cases | 5 | 10,800 | 17 | ..... | 1 | 8,900 | 10,460 | 29,980 |
| Silk and silk goods (see also Mixed textiles) | 9 | 132,800 | 81 | 262 | 37 | 106,845 | 222,815 | 443,425 |
| Silversmithing | 5 | 4,250 | 11 | 2 | ..... | 5,811 | 4,176 | 10,235 |
| Slaughtering and meat-packing, not including retail butchering | 21 | 918,000 | 211 | ..... | ..... | 153,263 | 6,509,139 | 7,096,777 |
| Soap and candles | 11 | 161,400 | 59 | 14 | ..... | 33,739 | 124,600 | 208,633 |
| Soda-water apparatus | 3 | 95,000 | 189 | 5 | 6 | 73,335 | 279,638 | 487,306 |
| Spectacles and eyeglasses | 7 | 8,200 | 18 | 2 | 1 | 11,500 | 4,630 | 25,730 |
| Sporting goods | 3 | 8,000 | 8 | 18 | ..... | 5,920 | 2,950 | 10,800 |
| Springs, steel, car, and carriage | 5 | 4,450 | 13 | ..... | ..... | 2,750 | 9,500 | 18,509 |
| Stationery goods | 10 | 48,800 | 73 | 11 | 3 | 41,635 | 103,870 | 207,050 |
| Steam fittings and heating apparatus (see also Foundery and machine-shop products). | 9 | 269,500 | 186 | ..... | 17 | 97,989 | 228,918 | 398,780 |
| Stencils and brands | 12 | 28,500 | 28 | 3 | 4 | 16,660 | 14,525 | 53,200 |
| Stereotyping and electrotyping (see also Type founding) | 5 | 38,000 | 96 | 2 | ..... | 59,021 | 34,908 | 115,630 |
| Stone- and earthen-ware | 5 | 58,000 | 72 | 6 | 4 | 33,450 | 23,735 | 97,900 |
| Straw goods | 3 | 41,000 | 36 | 125 | 5 | 51,227 | 122,974 | 220,295 |
| Sugar and molasses, refined | 4 | 1,629,500 | 395 | ..... | ..... | 202,061 | 15,544,084 | 16,518,760 |
| Surgical appliances | 5 | 30,500 | 30 | 19 | 2 | 28,300 | 43,000 | 106,000 |
| Taxidermy | 3 | 1,800 | 7 | 2 | ..... | 2,900 | 5,100 | 14,000 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing) | 94 | 322,280 | 520 | 23 | 16 | 258,033 | 531,861 | 1,055,472 |
| Tobacco, cigars and cigarettes | 88 | 135,556 | 333 | 103 | 15 | 190,976 | 253,413 | 524,283 |
| Trunks and valises | 20 | 104,500 | 158 | 6 | ..... | 82,665 | 235,503 | 400,708 |
| Type founding (see also Stereotyping and electrotyping) | 3 | 72,200 | 75 | 56 | 5 | 65,500 | 55,500 | 162,000 |
| Umbrellas and canes | 3 | 17,600 | 7 | 15 | ..... | 8,811 | 28,425 | 50,046 |
| Upholstering (see also Furniture) | 41 | 122,757 | 179 | 45 | 3 | 105,103 | 210,267 | 390,848 |
| Varnish (see also Paints) | 3 | 65,000 | 16 | ..... | ..... | 9,600 | 176,000 | 235,000 |
| Watch and clock repairing | 6 | 6,700 | 12 | ..... | ..... | 5,504 | 1,162 | 12,000 |
| Watch cases | 5 | 65,000 | 103 | 16 | 3 | 86,142 | 274,480 | 427,371 |
| Whalebone and rattan | 4 | 24,500 | 31 | 21 | 2 | 19,115 | 41,044 | 69,417 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 56 | 90,225 | 218 | ..... | ..... | 98,735 | 73,477 | 232,905 |
| Window blinds and shades | 12 | 19,250 | 46 | 11 | ..... | 18,140 | 40,760 | 76,345 |
| Wirework | 15 | 69,400 | 107 | 16 | 11 | 55,106 | 104,771 | 214,567 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 44 | 327,960 | 441 | 1 | 8 | 208,829 | 433,855 | 791,355 |
| Wooden ware | 3 | 6,000 | 21 | ..... | ..... | 8,950 | 13,800 | 33,500 |
| All other industries (a) | 116 | 4,142,030 | 2,265 | 1,103 | 100 | 1,399,393 | 4,990,581 | 8,041,397 |

a Embracing agricultural implements; artificial limbs; bags, other than paper; bags, paper; baskets, rattan and willow ware; belting and hose, linen; boot and shoe uppers; boxes, cigar; brick and tile; buttons; carpets, other than rag; carpets, rag; carpets, wood; carriages and sleds, children's; cement; cheese and butter (factory); chocolate; cleansing and polishing preparations; clocks; cloth-finishing; collars and cuffs, paper; cordials and sirups; cotton-ties; drain and sewer pipe; dyeing and finishing textiles; dyestuffs and extracts; engravers' materials; explosives and fireworks; fire-arms; food preparations; foundery supplies; gas and lamp fixtures; gas machines and meters; glass; glue; graphite; grindstones; hat and cap materials; hones and whetstones; ink; iron doors and shutters; iron nails and spikes, cut and wrought; iron work, architectural and ornamental; jewelry and instrument cases; lamps and reflectors; lard, refined; lead, bar, pipe, sheet, and shot; leather goods; lime; lumber, sawed; malt; matches; millstones; mirrors; needles and pins; nets and seines; oilcloth, floor; oleomargarine; pens, gold; photographic apparatus; plated and britannia ware; regalias and society banners and emblems; rules, ivory and wood; safes, doors, and vaults, fire-proof; saws; shoddy; silverware; smelting and refining; starch; telegraph and telephone apparatus; terra-cotta ware; tobacco, chewing, smoking, and snuff; toys and games; tools; veneering; vinegar; washing-machines and clothes-wringers; watches; and woolen goods.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF BRIDGEPORT, CONN.

[Statistics collected under the direction of WILLIAM E. DISBROW, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 170 | $9,751,785 | 5,476 | 1,807 | 225 | $3,342,935 | $4,819,939 | $10,458,212 |
| Blacksmithing | 6 | 23,225 | 22 | ..... | ..... | 11,400 | 17,450 | 39,779 |
| Boots and shoes, including custom work and repairing | 7 | 50,050 | 59 | 40 | ..... | 40,968 | 84,659 | 153,764 |
| Bread and other bakery products | 8 | 17,000 | 40 | 3 | ..... | 23,214 | 67,754 | 113,040 |
| Carpentering | 10 | 18,200 | 181 | ..... | 2 | 71,926 | 133,050 | 228,428 |
| Carriages and wagons | 6 | 79,250 | 128 | ..... | ..... | 58,494 | 90,649 | 196,700 |
| Confectionery | 4 | 10,700 | 12 | 2 | 3 | 6,400 | 17,785 | 36,535 |
| Cutlery and edge tools (see also Hardware) | 3 | 213,000 | 434 | 55 | 30 | 226,200 | 174,275 | 443,800 |
| Foundery and machine-shop products | 11 | 222,726 | 392 | ..... | 27 | 191,085 | 231,837 | 486,185 |
| Furniture | 6 | 171,000 | 136 | 1 | ..... | 52,385 | 81,647 | 185,889 |
| Hardware (see also Cutlery and edge tools) | 6 | 201,850 | 205 | 18 | 9 | 96,081 | 148,740 | 324,876 |
| Liquors, malt | 6 | 121,000 | 27 | ..... | ..... | 12,798 | 72,560 | 122,943 |
| Marble and stone work | 6 | 113,200 | 70 | ..... | ..... | 37,371 | 35,000 | 98,600 |
| Photographing | 3 | 8,000 | 5 | 1 | ..... | 3,350 | 2,900 | 11,000 |
| Printing and publishing | 7 | 77,000 | 62 | ..... | ..... | 35,744 | 34,932 | 85,559 |
| Saddlery and harness | 5 | 35,000 | 69 | 6 | 7 | 36,534 | 72,430 | 134,500 |
| Shirts | 7 | 112,950 | 71 | 531 | ..... | 175,770 | 226,705 | 443,490 |
| Springs, steel, car, and carriage | 3 | 65,250 | 175 | ..... | ..... | 95,416 | 219,838 | 351,341 |
| Tobacco, cigars and cigarettes | 6 | 5,550 | 14 | 1 | 2 | 6,425 | 10,900 | 22,700 |
| Watch and clock repairing | 3 | 20,200 | 8 | ..... | ..... | 3,700 | 1,700 | 8,500 |
| All other industries (a) | 57 | 8,120,634 | 3,366 | 1,149 | 145 | 2,157,674 | 3,095,128 | 6,970,583 |

a Embracing ammunition; belting and hose, leather; bookbinding and blank-book making; boxes, fancy and paper; brass and copper, rolled; brass castings; buttons; carpets, other than rag; carriage and wagon materials; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; corsets; drugs and chemicals; electroplating; engraving and die-sinking; files; fire-arms; flouring- and grist-mill products; hairwork; iron and steel; looking-glass and picture frames; mantels, slate, marble, and marbleized; millinery and lace goods; mixed textiles; musical instruments, organs and materials; paints; plated and britannia ware; rubber and elastic goods; sash, doors, and blinds; sewing machines and attachments; silk and silk goods; soap and candles; steam fittings and heating apparatus; tinware, copperware, and sheet-iron ware; toys and games; tools; upholstering; upholstering materials; varnish; wheelwrighting; wood, turned and carved; and wool hats.

### CITY OF BROOKLYN, N. Y.

[Statistics collected under the direction of JAMES H. FROTHINGHAM, Chief Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 5,201 | $61,646,749 | 37,105 | 7,020 | 3,462 | $22,487,457 | $129,085,091 | $177,223,142 |
| Artificial feathers and flowers (see also Millinery and lace goods) | 9 | 11,550 | 2 | 106 | 5 | 16,170 | 16,321 | 45,240 |
| Awnings and tents | 12 | 7,200 | 15 | 7 | ..... | 9,319 | 14,559 | 35,843 |
| Bags, paper | 3 | 2,200 | ..... | 5 | ..... | 1,420 | 8,390 | 12,765 |
| Baskets, rattan and willow ware | 12 | 10,025 | 24 | 3 | 12 | 11,633 | 14,206 | 35,238 |
| Blacksmithing | 222 | 194,573 | 371 | ..... | 4 | 232,262 | 190,655 | 622,780 |
| Bookbinding and blank-book making | 4 | 4,500 | 10 | 3 | ..... | 7,008 | 3,030 | 17,691 |
| Boots and shoes, including custom work and repairing | 546 | 311,835 | 944 | 216 | 34 | 502,834 | 852,168 | 1,819,993 |
| Boxes, cigar | 3 | 28,000 | 49 | 6 | 2 | 27,083 | 42,100 | 77,700 |
| Boxes, fancy and paper | 12 | 49,050 | 50 | 88 | 8 | 45,089 | 79,066 | 158,826 |
| Boxes, wooden, packing | 7 | 998,500 | 540 | ..... | 62 | 248,812 | 1,286,630 | 1,767,640 |
| Brass castings | 18 | 151,350 | 117 | ..... | 4 | 59,540 | 244,747 | 364,875 |
| Brass ware | 7 | 38,800 | 62 | 25 | 15 | 33,122 | 57,843 | 112,759 |
| Bread and other bakery products | 532 | 1,020,375 | 1,017 | 7 | 16 | 596,660 | 3,695,720 | 5,594,975 |
| Brick and tile | 6 | 113,000 | 134 | ..... | 1 | 72,774 | 69,326 | 201,084 |
| Brooms and brushes | 33 | 69,375 | 134 | 47 | 29 | 59,372 | 96,074 | 207,792 |
| Buttons | 5 | 33,000 | 23 | 120 | 15 | 30,537 | 16,363 | 54,813 |
| Carpentering | 300 | 1,229,678 | 1,896 | ..... | 2 | 1,325,540 | 2,967,855 | 5,124,407 |
| Carpets, rag | 13 | 2,850 | 14 | 2 | ..... | 4,543 | 11,333 | 21,741 |
| Carriages and wagons | 90 | 484,350 | 484 | ..... | 8 | 289,155 | 328,425 | 829,492 |
| Cars, railroad, street, and repairs | 7 | 61,774 | 92 | ..... | ..... | 65,329 | 59,266 | 137,055 |
| Cleansing and polishing preparations | 6 | 112,000 | 44 | 1 | 4 | 24,935 | 36,919 | 114,750 |
| Clothing, men's | 328 | 952,445 | 973 | 274 | 13 | 686,311 | 1,571,974 | 2,937,262 |
| Clothing, women's | 25 | 157,425 | 44 | 561 | 10 | 189,480 | 390,223 | 711,249 |
| Coffee and spices, roasted and ground | 5 | 70,000 | 42 | ..... | 1 | 28,998 | 183,342 | 280,874 |
| Coffins, burial cases, and undertakers' goods | 3 | 47,000 | 41 | ..... | ..... | 22,362 | 24,503 | 63,269 |
| Confectionery | 104 | 236,275 | 165 | 22 | 4 | 79,477 | 501,766 | 822,843 |
| Cooperage | 42 | 913,700 | 1,111 | 5 | 242 | 595,010 | 1,583,987 | 2,512,741 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 10 | 18,900 | 27 | ..... | ..... | 11,365 | 24,455 | 47,629 |
| Cordage and twine | 12 | 2,566,700 | 665 | 503 | 361 | 380,223 | 3,206,319 | 3,915,566 |
| Cork cutting | 8 | 102,800 | 50 | 31 | 16 | 31,220 | 100,443 | 161,853 |
| Cutlery and edge tools (see also Hardware) | 5 | 2,600 | 6 | ..... | ..... | 3,026 | 1,705 | 10,450 |
| Dentistry, mechanical | 67 | 59,200 | 39 | ..... | 2 | 17,741 | 28,521 | 137,271 |
| Drugs and chemicals (see also Patent medicines and compounds) | 38 | 3,449,650 | 808 | 129 | 24 | 473,353 | 3,446,549 | 4,900,338 |
| Dyeing and cleaning | 20 | 23,250 | 40 | 8 | ..... | 22,349 | 178,667 | 236,007 |
| Electroplating | 6 | 10,650 | 11 | 4 | 15 | 9,371 | 3,630 | 21,632 |
| Fancy articles | 14 | 81,400 | 63 | 3 | 14 | 34,827 | 27,535 | 90,739 |
| Fertilizers | 3 | 545,000 | 84 | 5 | ..... | 51,000 | 1,063,867 | 1,252,756 |
| Files | 12 | 25,750 | 58 | 3 | 15 | 29,192 | 21,978 | 68,509 |
| Flouring- and grist-mill products | 9 | 662,500 | 139 | 5 | ..... | 98,655 | 2,615,270 | 2,896,503 |
| Food preparations (see page 39) | 9 | 155,250 | 63 | 12 | 4 | 33,853 | 102,882 | 268,823 |
| Foundery and machine-shop products | 121 | 4,079,250 | 3,750 | ..... | 140 | 2,283,934 | 3,146,992 | 6,984,832 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 88 | 405,680 | 608 | 6 | 18 | 315,439 | 439,135 | 952,472 |
| Furniture, chairs | 11 | 41,110 | 88 | ..... | 2 | 50,658 | 49,195 | 121,703 |
| Furs, dressed | 22 | 416,265 | 251 | 199 | 23 | 137,374 | 565,154 | 830,804 |
| Glass | 12 | 930,600 | 1,158 | 36 | 660 | 630,857 | 489,593 | 1,318,081 |
| Glass, cut, stained, and ornamented | 8 | 22,150 | 14 | ..... | 6 | 9,614 | 15,698 | 33,461 |
| Gold and silver leaf and foil | 3 | 4,500 | 1 | 5 | ..... | 2,434 | 28,174 | 43,178 |
| Grease and tallow | 3 | 51,070 | 11 | ..... | ..... | 6,869 | 304,740 | 338,215 |
| Hairwork | 22 | 44,150 | 17 | 82 | 1 | 23,683 | 44,043 | 101,395 |
| Hardware (see also Cutlery and edge tools) | 34 | 432,550 | 391 | 28 | 22 | 193,186 | 401,251 | 750,297 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

CITY OF BROOKLYN, N. Y.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Hats and caps, not including wool hats | 32 | $523,915 | 905 | 378 | 109 | $626,504 | $999,218 | $1,978,145 |
| Ink | 3 | 220,000 | 23 | ..... | ..... | 18,750 | 124,060 | 189,410 |
| Instruments, professional and scientific | 12 | 116,200 | 108 | 2 | 10 | 65,515 | 35,018 | 144,611 |
| Iron bolts, nuts, washers, and rivets | 12 | 114,800 | 91 | ..... | 12 | 46,456 | 103,552 | 185,245 |
| Iron railing, wrought | 15 | 73,147 | 79 | ..... | 1 | 53,468 | 56,748 | 141,897 |
| Ivory and bone work | 8 | 10,842 | 54 | ..... | 14 | 23,949 | 22,571 | 61,355 |
| Jute and jute goods | 3 | 390,000 | 197 | 282 | ..... | 132,621 | 415,788 | 650,560 |
| Kindling wood | 28 | 211,900 | 295 | 2 | 53 | 116,932 | 276,007 | 483,368 |
| Leather, dressed skins | 20 | 691,650 | 511 | 21 | 31 | 248,932 | 1,258,407 | 1,755,144 |
| Lime and cement | 7 | 77,000 | 49 | ..... | ..... | 20,914 | 45,192 | 98,008 |
| Liquors, malt | 41 | 3,838,500 | 1,082 | ..... | ..... | 538,594 | 2,729,792 | 4,871,772 |
| Lock- and gun-smithing | 28 | 27,100 | 26 | ..... | 3 | 10,793 | 11,867 | 43,084 |
| Looking-glass and picture frames | 17 | 32,050 | 39 | ..... | 7 | 23,866 | 56,725 | 106,056 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 12 | 676,500 | 492 | ..... | 38 | 230,827 | 1,271,317 | 1,707,821 |
| Malt | 4 | 262,000 | 37 | ..... | ..... | 24,375 | 323,915 | 433,290 |
| Marble and stone work | 92 | 738,300 | 730 | ..... | 1 | 521,858 | 554,084 | 1,329,234 |
| Masonry, brick and stone | 75 | 123,295 | 551 | ..... | 1 | 374,569 | 594,426 | 1,079,800 |
| Mats and matting | 7 | 193,650 | 183 | 12 | 70 | 116,029 | 203,427 | 385,340 |
| Mattresses and spring beds (see also Furniture) | 7 | 31,100 | 24 | ..... | ..... | 13,268 | 67,640 | 157,670 |
| Millinery and lace goods (see also Artificial feathers and flowers) | 13 | 140,700 | 33 | 84 | 10 | 48,710 | 339,634 | 476,202 |
| Mineral and soda waters | 21 | 107,800 | 63 | ..... | 5 | 29,475 | 63,196 | 155,177 |
| Mixed textiles (see also Silk and silk goods) | 11 | 338,300 | 98 | 122 | 39 | 99,430 | 263,097 | 423,239 |
| Models and patterns | 9 | 11,250 | 25 | ..... | ..... | 18,530 | 5,643 | 37,530 |
| Musical instruments and materials (not specified) | 9 | 13,500 | 39 | 1 | 6 | 20,543 | 56,483 | 102,724 |
| Musical instruments, organs and materials | 4 | 7,700 | 8 | ..... | ..... | 6,139 | 4,237 | 18,076 |
| Musical instruments, pianos and materials | 11 | 195,775 | 115 | 1 | 8 | 68,984 | 122,810 | 252,083 |
| Oil, lubricating | 3 | 22,000 | 7 | ..... | ..... | 3,941 | 31,221 | 49,645 |
| Oil, resin | 3 | 82,523 | 23 | ..... | ..... | 14,590 | 189,622 | 238,471 |
| Painting and paperhanging | 271 | 335,425 | 938 | 14 | 22 | 553,040 | 496,527 | 1,389,719 |
| Paints (see also Varnish) | 26 | 2,602,800 | 856 | 80 | 5 | 478,376 | 4,023,500 | 5,284,201 |
| Paperhangings | 3 | 285,000 | 230 | 50 | 92 | 175,733 | 783,753 | 1,382,862 |
| Paper patterns | 4 | 105,100 | 13 | 84 | ..... | 40,538 | 44,000 | 512,550 |
| Patent medicines and compounds (see also Drugs and chemicals) | 6 | 550,000 | 57 | 59 | 1 | 56,411 | 274,474 | 730,046 |
| Photographing | 35 | 88,950 | 64 | 18 | 2 | 37,455 | 26,685 | 141,947 |
| Pickles, preserves, and sauces | 7 | 34,400 | 17 | 1 | ..... | 5,908 | 38,830 | 69,500 |
| Plumbing and gasfitting | 216 | 352,890 | 668 | ..... | 23 | 377,195 | 701,530 | 1,399,092 |
| Printing and publishing | 64 | 889,284 | 693 | 257 | 72 | 522,075 | 452,610 | 1,549,743 |
| Pumps, not including steam pumps | 6 | 10,150 | 17 | ..... | ..... | 9,708 | 8,156 | 24,190 |
| Roofing and roofing materials | 29 | 82,975 | 196 | ..... | 3 | 98,443 | 160,974 | 447,259 |
| Rubber and elastic goods | 6 | 298,837 | 185 | 60 | 28 | 120,885 | 664,335 | 922,857 |
| Saddlery and harness | 88 | 105,877 | 128 | 42 | 15 | 73,437 | 151,848 | 300,425 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 24 | 368,350 | 393 | ..... | 40 | 190,509 | 398,679 | 738,722 |
| Sewing machines and attachments | 15 | 10,725 | 24 | 10 | 5 | 16,780 | 6,244 | 34,158 |
| Shipbuilding | 58 | 768,050 | 957 | ..... | ..... | 746,856 | 1,044,724 | 1,999,788 |
| Shirts | 25 | 97,300 | 57 | 240 | 7 | 105,723 | 260,511 | 439,060 |
| Silk and silk goods (see also Mixed textiles) | 15 | 559,325 | 147 | 453 | 107 | 231,135 | 443,135 | 853,480 |
| Slaughtering and meat-packing, not including retail butchering | 28 | 1,125,000 | 260 | ..... | ..... | 194,568 | 7,340,450 | 8,010,492 |
| Soap and candles | 8 | 338,000 | 101 | 4 | 13 | 55,642 | 587,936 | 799,053 |
| Spectacles and eyeglasses | 3 | 39,300 | 75 | 15 | 20 | 36,556 | 5,300 | 68,000 |
| Sporting goods | 11 | 65,750 | 77 | 24 | 24 | 45,112 | 32,487 | 103,826 |
| Stamped ware (see also Tinware, copperware, and sheet-iron ware) | 6 | 870,000 | 858 | 112 | 40 | 394,770 | 936,084 | 1,556,829 |
| Stationery goods | 7 | 325,800 | 63 | 91 | 28 | 65,300 | 226,237 | 386,097 |
| Stone- and earthen-ware | 4 | 198,600 | 175 | 113 | 10 | 102,053 | 56,960 | 194,284 |
| Sugar and molasses, refined | 11 | 10,946,000 | 2,054 | ..... | 13 | 954,929 | 56,423,868 | 59,711,168 |
| Surgical appliances | 6 | 10,650 | 4 | 2 | ..... | 5,294 | 7,686 | 17,968 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing; Stamped ware). | 119 | 156,350 | 268 | 2 | 14 | 150,331 | 346,867 | 619,184 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 10 | 1,059,890 | 129 | 466 | 1 | 198,770 | 931,250 | 2,302,703 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, snuff). | 341 | 376,590 | 519 | 17 | 56 | 228,141 | 381,589 | 977,480 |
| Toys and games | 10 | 255,775 | 146 | 199 | 43 | 109,958 | 142,769 | 332,146 |
| Trunks and valises | 7 | 89,800 | 59 | 18 | 16 | 32,138 | 88,249 | 146,344 |
| Umbrellas and canes | 9 | 18,600 | 4 | 8 | ..... | 4,066 | 14,305 | 28,773 |
| Upholstering (see also Furniture) | 72 | 584,535 | 197 | 135 | 35 | 145,950 | 483,514 | 784,112 |
| Varnish (see also Paints) | 8 | 716,800 | 70 | ..... | 3 | 47,186 | 353,205 | 874,655 |
| Vinegar | 7 | 63,712 | 16 | ..... | ..... | 6,974 | 54,630 | 77,019 |
| Watch and clock repairing | 109 | 82,668 | 133 | 8 | 11 | 76,171 | 53,319 | 221,723 |
| Watch cases | 4 | 156,565 | 261 | 22 | 12 | 249,816 | 717,177 | 1,109,046 |
| Window blinds and shades | 12 | 294,450 | 129 | 8 | 3 | 82,171 | 224,722 | 475,805 |
| Wirework | 10 | 240,778 | 128 | 23 | 21 | 83,600 | 97,641 | 228,204 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 19 | 95,300 | 78 | ..... | 6 | 39,366 | 52,411 | 139,255 |
| Wooden ware | 3 | 9,250 | 20 | ..... | 1 | 9,477 | 21,150 | 36,264 |
| Zinc | 3 | 26,500 | 14 | ..... | ..... | 11,502 | 10,520 | 38,385 |
| All other industries (a) | 78 | 5,231,247 | 3,060 | 923 | 438 | 1,691,160 | 8,546,026 | 12,065,141 |

a Embracing agricultural implements; babbitt metal and solder; baking and yeast powders; belting and hose, leather; billiard tables and materials; bone-, ivory-, and lamp-black; boot and shoe findings; brass and copper, rolled; carpets, wood; carriages and sleds, children's; clocks; corsets; cotton goods; dyeing and finishing textiles; dyestuffs and extracts; engraving, wood; envelopes; explosives and fireworks; felt goods; gas and lamp fixtures; gloves and mittens; glue; gold and silver, reduced and refined; hat and cap materials; housefurnishing goods; iron and steel; iron forgings; japanning; jewelry; jewelry and instrument cases; lamps and reflectors; lead, bar, pipe, sheet, and shot; leather, tanned; liquors, distilled; lithographing; oil, essential; oil, linseed; oilcloth, floor; oleomargerine; paper; paving materials; pencils, lead; pens, gold; photographic apparatus; plated and britannia ware; pocket-books; printing materials; racking hose; refrigerators; regalia and society banners and emblems; sand and emery paper and cloth; saws; straw goods; taxidermy; upholstering materials; watch and clock materials; whalebone and rattan; wheelbarrows; wire; wood preserving; and wool hats.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF BUFFALO, N. Y.

[Statistics collected under the direction of SILAS J. DOUGLAS, Chief Special Agent. See note on page 379.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 1,183 | $26,847,937 | 15,033 | 1,795 | 1,193 | $7,442,109 | $27,552,086 | $42,937,701 |
| Agricultural implements | 4 | 341,500 | 255 | ..... | ..... | 86,773 | 129,800 | 423,500 |
| Baking and yeast powders (see also Drugs and chemicals) | 7 | 38,200 | 13 | 1 | 1 | 6,950 | 61,800 | 70,400 |
| Belting and hose, leather | 3 | 120,000 | 39 | ..... | 21 | 18,500 | 285,000 | 322,000 |
| Billiard tables and materials | 3 | 13,500 | 5 | ..... | 1 | 3,500 | 7,100 | 16,000 |
| Blacksmithing (see also Wheelwrighting) | 59 | 66,175 | 65 | ..... | 4 | 33,227 | 41,108 | 121,945 |
| Bookbinding and blank-book making | 6 | 73,800 | 37 | 44 | 3 | 30,600 | 53,900 | 104,100 |
| Boots and shoes, including custom work and repairing | 131 | 496,146 | 549 | 84 | 47 | 268,369 | 579,157 | 1,068,296 |
| Boxes, fancy and paper | 4 | 10,500 | 10 | 72 | 12 | 15,100 | 44,190 | 72,225 |
| Boxes, wooden, packing | 6 | 27,500 | 43 | ..... | ..... | 14,053 | 34,550 | 61,812 |
| Brass castings | 7 | 40,600 | 37 | ..... | 4 | 18,990 | 36,378 | 71,400 |
| Bread and other bakery products | 59 | 352,550 | 238 | 43 | 27 | 125,805 | 605,993 | 924,420 |
| Brick and tile | 9 | 161,495 | 226 | ..... | 70 | 106,750 | 45,270 | 201,040 |
| Brooms and brushes | 8 | 13,700 | 16 | 7 | 4 | 8,796 | 23,370 | 43,892 |
| Carpentering | 15 | 45,600 | 120 | ..... | ..... | 56,780 | 127,275 | 224,100 |
| Carriages and sleds, children's | 3 | 47,800 | 29 | 4 | ..... | 14,000 | 37,500 | 75,400 |
| Carriages and wagons (see also Wheelwrighting) | 23 | 295,900 | 281 | ..... | 7 | 143,221 | 184,081 | 410,631 |
| Clothing, men's | 52 | 1,090,900 | 649 | 853 | 11 | 576,425 | 1,798,067 | 2,747,475 |
| Coffee and spices, roasted and ground | 5 | 120,300 | 22 | 4 | 3 | 11,706 | 187,000 | 230,500 |
| Confectionery | 10 | 173,700 | 121 | 75 | 17 | 77,770 | 262,689 | 433,800 |
| Cooperage | 17 | 251,857 | 315 | ..... | 26 | 130,340 | 232,245 | 432,162 |
| Cutlery and edge tools (see also Hardware) | 6 | 98,400 | 83 | ..... | 14 | 46,039 | 50,900 | 115,100 |
| Dentistry, mechanical | 7 | 5,875 | 6 | ..... | 2 | 3,635 | 6,800 | 22,500 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 5 | 314,600 | 54 | 14 | 1 | 25,000 | 137,635 | 204,900 |
| Dyeing and cleaning | 4 | 31,350 | 12 | 14 | 1 | 4,090 | 3,230 | 12,500 |
| Engraving, steel | 4 | 4,100 | 4 | ..... | ..... | 2,850 | 1,100 | 7,500 |
| Engraving, wood | 5 | 6,600 | 10 | ..... | ..... | 16,100 | 1,825 | 30,550 |
| Files | 5 | 12,400 | 32 | ..... | 1 | 13,625 | 6,000 | 29,500 |
| Flouring- and grist-mill products | 7 | 940,000 | 120 | ..... | ..... | 58,984 | 2,081,532 | 2,251,848 |
| Foundery and machine-shop products | 41 | 3,080,918 | 2,011 | ..... | 152 | 936,543 | 1,935,038 | 3,577,029 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 33 | 578,200 | 371 | 15 | 52 | 218,549 | 370,005 | 773,091 |
| Furs, dressed | 5 | 85,000 | 19 | 37 | 3 | 14,378 | 86,500 | 136,750 |
| Glucose | 3 | 1,750,000 | 775 | 5 | 17 | 485,000 | 2,000,000 | 3,075,000 |
| Hardware (see also Cutlery and edge tools) | 9 | 230,000 | 223 | 3 | 41 | 106,025 | 174,844 | 382,003 |
| Hats and caps, not including wool hats | 6 | 17,950 | 12 | 11 | 2 | 6,150 | 17,050 | 30,200 |
| Iron and steel | 4 | 1,790,000 | 688 | ..... | 25 | 212,278 | 635,353 | 887,012 |
| Iron forgings | 3 | 255,000 | 180 | ..... | 5 | 69,000 | 225,000 | 400,000 |
| Leather, curried | 3 | 93,000 | 64 | ..... | 2 | 26,233 | 439,250 | 510,500 |
| Leather, tanned | 7 | 1,077,000 | 375 | ..... | 2 | 140,442 | 1,446,800 | 1,757,500 |
| Liquors, malt | 28 | 1,859,975 | 300 | ..... | ..... | 179,962 | 916,171 | 1,636,020 |
| Lithographing (see also Printing and publishing) | 4 | 190,000 | 128 | 6 | 9 | 99,400 | 185,910 | 381,800 |
| Lock- and gun-smithing | 4 | 4,500 | 7 | ..... | ..... | 4,050 | 10,850 | 20,500 |
| Looking-glass and picture frames | 8 | 39,700 | 40 | 3 | 8 | 13,205 | 45,780 | 86,700 |
| Lumber, planed (see also Wood, turned and carved) | 17 | 1,183,000 | 561 | ..... | 59 | 243,820 | 784,541 | 1,219,400 |
| Malt | 34 | 1,342,000 | 275 | ..... | ..... | 91,840 | 1,512,752 | 2,002,803 |
| Marble and stone work | 21 | 274,050 | 477 | 7 | 2 | 189,640 | 182,829 | 433,023 |
| Masonry, brick and stone | 16 | 27,250 | 123 | ..... | 6 | 47,700 | 50,250 | 144,350 |
| Mattresses and spring beds (see also Furniture) | 7 | 19,098 | 10 | 3 | 3 | 6,074 | 31,945 | 64,032 |
| Musical instruments, pianos and materials | 3 | 46,000 | 44 | ..... | ..... | 22,450 | 13,114 | 42,670 |
| Painting and paperhanging | 29 | 40,157 | 175 | ..... | 6 | 98,070 | 110,185 | 258,488 |
| Patent medicines and compounds (see also Drugs and chemicals) | 12 | 1,098,100 | 78 | 47 | 2 | 60,471 | 261,345 | 654,027 |
| Photographing | 21 | 46,500 | 28 | 4 | 7 | 15,388 | 13,275 | 64,800 |
| Plumbing and gasfitting | 17 | 99,300 | 152 | ..... | 16 | 77,890 | 151,500 | 288,200 |
| Printing and publishing (see also Lithographing) | 31 | 819,000 | 424 | 80 | 97 | 261,803 | 372,318 | 975,022 |
| Pumps, not including steam pumps | 4 | 13,000 | 19 | ..... | ..... | 9,875 | 7,850 | 25,200 |
| Refrigerators | 4 | 125,000 | 212 | 13 | 25 | 88,700 | 113,500 | 264,500 |
| Roofing and roofing materials | 5 | 19,321 | 38 | ..... | ..... | 13,951 | 36,791 | 62,728 |
| Saddlery and harness | 31 | 87,844 | 93 | ..... | 2 | 41,483 | 80,498 | 165,844 |
| Shipbuilding | 17 | 576,500 | 709 | ..... | ..... | 328,390 | 455,252 | 859,756 |
| Shirts | 7 | 20,800 | 10 | 61 | 2 | 21,760 | 24,300 | 66,500 |
| Slaughtering and meat-packing, not including retail butchering | 6 | 872,500 | 289 | ..... | ..... | 170,433 | 3,028,924 | 3,441,280 |
| Soap and candles | 7 | 579,000 | 153 | 4 | 48 | 81,095 | 881,114 | 1,176,840 |
| Starch | 3 | 245,000 | 184 | 40 | 15 | 77,691 | 378,176 | 625,390 |
| Stereotyping and electrotyping | 3 | 39,000 | 30 | ..... | 1 | 26,400 | 9,600 | 58,000 |
| Stone- and earthen-ware | 3 | 8,500 | 10 | ..... | ..... | 4,675 | 2,275 | 17,800 |
| Tinware, copperware, and sheet-iron ware | 53 | 203,050 | 213 | ..... | 21 | 115,417 | 269,470 | 492,317 |
| Tobacco, cigars and cigarettes | 40 | 196,029 | 250 | 11 | 41 | 114,470 | 241,758 | 464,940 |
| Trunks and valises | 6 | 38,600 | 43 | ..... | 1 | 16,596 | 43,500 | 79,800 |
| Upholstering (see also Furniture) | 6 | 4,450 | 5 | ..... | 1 | 1,900 | 8,200 | 15,600 |
| Vinegar | 6 | 52,100 | 18 | ..... | ..... | 9,842 | 53,406 | 84,200 |
| Watch and clock repairing | 16 | 18,000 | 25 | ..... | 3 | 14,538 | 10,403 | 42,099 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 35 | 83,325 | 72 | ..... | 4 | 31,795 | 38,854 | 107,603 |
| Wirework | 5 | 119,800 | 93 | 10 | 42 | 55,305 | 114,614 | 203,500 |
| Wood, turned and carved (see also Lumber, planed) | 5 | 46,000 | 86 | 6 | 19 | 35,910 | 56,630 | 115,526 |
| All other industries (*a*) | 81 | 2,264,382 | 1,490 | 214 | 175 | 643,535 | 2,663,781 | 4,028,591 |

*a* Embracing artificial limbs; awnings and tents; baskets, rattan and willow ware; bluing; boot and shoe findings; boot and shoe uppers; boxes, cigar; bridges; carriage and wagon materials; cars, railroad, street, and repairs; coffins, burial cases, and undertakers' goods; cordage and twine; dentists' materials; drain and sewer pipe; electrical apparatus and supplies; electroplating; envelopes; fertilizers; flavoring extracts; fruits and vegetables, canned and preserved; furniture, chairs; glass, cut, stained, and ornamented; gloves and mittens; glue; gold and silver leaf and foil; gold and silver, reduced and refined; grease and tallow; hairwork; housefurnishing goods; ink; iron bolts, nuts, washers, and rivets; iron pipe, wrought; iron railing, wrought; iron work, architectural and ornamental; jewelry; lasts; lead, bar, pipe, sheet, and shot; liquors, distilled; lumber, sawed; mantles, slate, marble, and marbleized; millinery and lace goods; models and patterns; musical instruments, organs and materials; oil, linseed; oil, lubricating; paints; paperhangings; paving materials; perfumery and cosmetics; scales and balances; show-cases; silversmithing; springs, steel, car, and carriage; stamped ware; stencils and brands; toys and games; type founding; umbrellas and canes; whips; and window blinds and shades.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF CAMBRIDGE, MASS.

[Statistics collected under the direction of SIMEON SNOW, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 379 | $6,480,799 | 6,205 | 1,172 | 166 | $3,416,479 | $20,101,349 | $26,605,688 |
| Blacksmithing (see also Wheelwrighting) | 26 | 29,450 | 54 | ..... | ..... | 27,760 | 26,900 | 81,790 |
| Bookbinding and blank-book making | 4 | 144,000 | 81 | 109 | 1 | 78,703 | 100,739 | 202,485 |
| Boots and shoes, including custom work and repairing | 6 | 31,250 | 29 | 5 | 4 | 11,684 | 25,232 | 47,109 |
| Bread and other bakery products | 19 | 121,600 | 170 | 80 | 47 | 113,881 | 346,732 | 579,856 |
| Brick and tile | 7 | 457,000 | 363 | ..... | 13 | 73,239 | 120,700 | 217,930 |
| Brooms and brushes | 4 | 34,500 | 47 | 33 | ..... | 19,730 | 75,203 | 124,281 |
| Carpentering | 37 | 100,350 | 243 | ..... | ..... | 134,896 | 298,420 | 491,551 |
| Carriages and wagons (see also Wheelwrighting) | 13 | 148,600 | 104 | ..... | ..... | 62,443 | 75,121 | 161,586 |
| Confectionery | 4 | 76,000 | 49 | 42 | ..... | 29,200 | 153,000 | 203,800 |
| Cooperage | 4 | 42,500 | 116 | ..... | 10 | 64,800 | 77,500 | 155,500 |
| Drugs and chemicals | 3 | 235,000 | 31 | 13 | 2 | 21,400 | 194,000 | 300,000 |
| Furniture (see also Mattresses and spring beds) | 12 | 275,000 | 502 | 11 | 5 | 264,765 | 233,058 | 615,101 |
| Foundery and machine-shop products | 9 | 137,734 | 231 | ..... | ..... | 128,029 | 344,890 | 509,326 |
| Leather, curried | 5 | 104,000 | 140 | ..... | 5 | 70,915 | 601,860 | 753,000 |
| Marble and stone work | 14 | 98,050 | 110 | 1 | ..... | 54,865 | 30,326 | 113,798 |
| Masonry, brick and stone | 20 | 100,275 | 216 | ..... | ..... | 104,852 | 233,870 | 388,030 |
| Mattresses and spring beds (see also Furniture) | 3 | 29,000 | 32 | 1 | 4 | 11,270 | 24,500 | 53,000 |
| Musical instruments, organs and materials | 5 | 593,000 | 481 | 15 | 15 | 326,090 | 292,556 | 783,222 |
| Musical instruments, pianos and materials | 7 | 54,200 | 145 | 9 | 6 | 79,870 | 67,090 | 161,900 |
| Painting and paperhanging | 25 | 27,100 | 86 | 2 | ..... | 38,285 | 30,300 | 95,510 |
| Photographing | 3 | 3,300 | 4 | 4 | ..... | 1,950 | 2,050 | 8,000 |
| Plumbing and gasfitting | 6 | 11,700 | 23 | ..... | ..... | 12,049 | 27,806 | 56,325 |
| Printing and publishing | 15 | 313,200 | 485 | 341 | 5 | 404,789 | 109,993 | 785,443 |
| Roofing and roofing materials | 5 | 4,000 | 14 | ..... | ..... | 6,300 | 14,100 | 26,400 |
| Saddlery and harness | 7 | 5,300 | 13 | ..... | ..... | 6,750 | 8,450 | 21,500 |
| Slaughtering and meat-packing, not including retail butchering | 5 | 560,500 | 483 | ..... | ..... | 228,800 | 6,434,700 | 7,179,625 |
| Soap and candles | 13 | 375,500 | 222 | ..... | 28 | 101,096 | 1,602,696 | 1,983,604 |
| Tinware, copperware, and sheet-iron ware | 14 | 50,100 | 50 | ..... | ..... | 25,772 | 33,200 | 76,410 |
| Tobacco, cigars and cigarettes | 11 | 14,100 | 35 | 6 | ..... | 20,546 | 22,415 | 52,350 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 8 | 8,850 | 17 | ..... | ..... | 11,540 | 11,100 | 30,700 |
| Wood, turned and carved | 6 | 18,800 | 79 | 7 | 4 | 44,800 | 54,200 | 126,750 |
| All other industries (a) | 50 | 2,276,840 | 1,490 | 493 | 17 | 835,401 | 8,427,751 | 10,225,716 |

a Embracing boxes, wooden, packing; bridges; cars, railroad, street, and repairs; cheese and butter (factory); clothing, men's; coffins, burial cases, and undertakers' goods; collars and cuffs, paper; cordage and twine; cutlery and edge tools; flavoring extracts; food preparations; flouring- and grist-mill products; hardware; instruments, professional and scientific; iron bolts, nuts, washers, and rivets; iron pipe, wrought; iron and steel; lard, refined; leather, tanned; lime and cement; liquors, distilled; looking-glass and picture frames; mats and matting; mineral and soda waters; models and patterns; musical instruments and materials (not specified); pumps; rubber and elastic goods; safes, doors, and vaults, fire-proof; sash, doors, and blinds; shipbuilding; sporting goods; springs, steel, car, and carriage; stamped ware; steam fittings and heating apparatus; stone- and earthen-ware; sugar and molasses, refined; trunks and valises; upholstering; vinegar; and window blinds and shades.

### CITY OF CAMDEN, N. J.

[Statistics collected under the direction of JOSEPH B. FOX, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 321 | $5,032,835 | 3,293 | 826 | 251 | $1,026,306 | $4,348,710 | $7,644,705 |
| Blacksmithing (see also Wheelwrighting) | 14 | 8,000 | 20 | ..... | ..... | 8,296 | 11,396 | 31,098 |
| Boots and shoes, including custom work and repairing | 35 | 29,475 | 140 | 57 | 4 | 66,532 | 125,827 | 246,975 |
| Bread and other bakery products | 29 | 64,900 | 37 | 1 | ..... | 13,291 | 74,672 | 122,284 |
| Carpentering | 18 | 55,000 | 87 | ..... | ..... | 43,801 | 60,176 | 143,382 |
| Carpets, rag | 7 | 5,600 | 10 | ..... | ..... | 2,940 | 7,600 | 17,420 |
| Carriages and wagons (see also Wheelwrighting) | 7 | 183,000 | 192 | 2 | 7 | 61,528 | 58,600 | 180,700 |
| Coffins, burial cases, and undertakers' goods | 4 | 15,700 | 8 | ..... | ..... | 4,559 | 3,300 | 11,320 |
| Confectionery | 9 | 9,400 | 20 | 6 | 2 | 9,166 | 33,200 | 52,970 |
| Drugs and chemicals (see also Patent medicines and compounds) | 3 | 800,000 | 180 | ..... | 1 | 93,752 | 504,338 | 751,613 |
| Foundery and machine-shop products | 6 | 815,000 | 869 | ..... | 42 | 366,091 | 734,226 | 1,293,050 |
| Furniture | 6 | 11,550 | 21 | ..... | ..... | 7,138 | 7,400 | 22,280 |
| Hats and caps, not including wool hats | 3 | 3,200 | 6 | 3 | ..... | 2,785 | 2,950 | 8,791 |
| Lumber, sawed | 3 | 445,000 | 50 | ..... | 3 | 20,500 | 208,900 | 307,000 |
| Marble and stone work | 4 | 5,700 | 8 | 1 | 1 | 2,600 | 4,975 | 14,306 |
| Masonry, brick and stone | 19 | 37,700 | 98 | ..... | ..... | 49,156 | 51,005 | 134,850 |
| Painting and paperhanging | 17 | 21,800 | 63 | ..... | ..... | 28,918 | 33,778 | 87,788 |
| Patent medicines and compounds (see also Drugs and chemicals) | 3 | 3,300 | 3 | ..... | 1 | 1,396 | 5,100 | 11,675 |
| Plumbing and gasfitting | 8 | 16,000 | 30 | ..... | ..... | 14,329 | 18,340 | 53,050 |
| Printing and publishing | 9 | 96,225 | 70 | ..... | 11 | 26,350 | 25,914 | 75,250 |
| Roofing and roofing materials | 8 | 20,560 | 19 | ..... | ..... | 9,610 | 26,341 | 53,350 |
| Saddlery and harness | 4 | 25,350 | 15 | ..... | ..... | 7,024 | 15,946 | 28,700 |
| Sash, doors, and blinds | 5 | 202,000 | 152 | ..... | ..... | 56,624 | 124,464 | 219,200 |
| Shipbuilding | 13 | 484,400 | 266 | ..... | ..... | 161,355 | 209,649 | 438,576 |
| Tinware, copperware, and sheet-iron ware | 6 | 38,950 | 74 | 1 | 6 | 46,893 | 81,100 | 156,421 |
| Tobacco, cigars and cigarettes | 17 | 24,575 | 40 | ..... | 2 | 16,478 | 17,937 | 56,448 |
| Watch and clock repairing | 4 | 7,000 | 5 | ..... | ..... | 2,300 | 1,800 | 8,030 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 6 | 10,850 | 13 | ..... | ..... | 5,900 | 7,410 | 17,400 |
| Woolen goods | 3 | 570,000 | 235 | 91 | 43 | 116,999 | 401,084 | 754,500 |
| All other industries (a) | 51 | 1,022,600 | 562 | 664 | 128 | 380,085 | 1,485,287 | 2,344,278 |

a Embracing baskets, rattan and willow ware; boxes, cigar; brass castings; brick and tile; brooms and brushes; cigar molds; clothing, men's; coffee and spices, roasted and ground; cooperage; cotton goods; dentistry, mechanical; dyestuffs and extracts; flouring- and grist-mill products; fruits and vegetables, canned and preserved; furnishing goods, men's; glass; gold and silver leaf and foil; grease and tallow; hairwork; hosiery and knit goods; ink; iron work, architectural and ornamental; kindling wood; leather, curried; lime; lock- and gun-smithing; looking-glass and picture frames; mixed textiles; oilcloth, floor; paints; paper; pens, steel; photographing; pumps; shirts; silk and silk goods; soap and candles; straw goods; slaughtering and meat-packing; vinegar; and worsted goods.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF CHARLESTON, S. C.

[Statistics collected under the direction of B. R. STUART, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 194 | $1,718,300 | 1,788 | 150 | 208 | $639,030 | $1,468,375 | $2,732,590 |
| Blacksmithing (see also Wheelwrighting) | 6 | 10,050 | 10 | ..... | 5 | 6,058 | 3,855 | 13,727 |
| Boots and shoes, including custom work and repairing | 9 | 1,120 | 11 | ..... | 2 | 4,256 | 4,100 | 13,101 |
| Bread and other bakery products | 10 | 59,850 | 65 | ..... | 16 | 28,695 | 120,860 | 172,185 |
| Carpentering | 14 | 31,050 | 448 | ..... | 15 | 97,738 | 130,998 | 268,565 |
| Clothing, men's | 6 | 40,100 | 35 | 4 | 4 | 11,500 | 25,700 | 47,300 |
| Confectionery | 4 | 2,500 | 4 | ..... | 3 | 1,630 | 6,750 | 11,240 |
| Cotton compressing | 4 | 530,000 | 230 | ..... | ..... | 62,900 | 65,000 | 198,000 |
| Dentistry, mechanical | 7 | 2,800 | ..... | ..... | ..... | ..... | 3,785 | 9,800 |
| Flouring- and grist-mill products | 5 | 61,000 | 27 | ..... | ..... | 12,070 | 141,300 | 167,750 |
| Foundery and machine-shop products | 5 | 111,700 | 177 | ..... | 28 | 59,150 | 96,100 | 174,900 |
| Lock- and gun-smithing | 7 | 2,330 | 5 | ..... | 3 | 2,708 | 2,100 | 11,418 |
| Lumber, planed | 6 | 82,000 | 167 | ..... | 34 | 35,450 | 121,950 | 189,000 |
| Lumber, sawed | 4 | 115,000 | 37 | ..... | 12 | 21,420 | 139,509 | 254,550 |
| Marble and stone work | 5 | 14,700 | 16 | ..... | 4 | 10,900 | 17,000 | 34,000 |
| Mineral and soda water | 3 | 4,500 | 13 | ..... | ..... | 4,059 | 7,800 | 20,250 |
| Painting and paperhanging | 7 | 5,550 | 44 | ..... | ..... | 9,629 | 10,228 | 25,450 |
| Photographing | 3 | 4,800 | 4 | ..... | ..... | 1,800 | 1,500 | 8,100 |
| Plumbing and gasfitting | 6 | 3,900 | 10 | ..... | 8 | 9,086 | 19,050 | 33,176 |
| Printing and publishing | 10 | 116,700 | 144 | 33 | 9 | 88,772 | 80,150 | 249,320 |
| Saddlery and harness | 6 | 5,150 | 19 | ..... | 4 | 9,030 | 27,001 | 43,650 |
| Shipbuilding | 11 | 44,350 | 85 | ..... | ..... | 52,810 | 53,350 | 138,650 |
| Tinware, copperware, and sheet-iron ware | 10 | 7,300 | 35 | ..... | 3 | 9,296 | 16,576 | 36,176 |
| Tobacco, cigars and cigarettes | 8 | 8,600 | 33 | ..... | 1 | 13,411 | 9,240 | 30,520 |
| Upholstering | 4 | 13,400 | 11 | 4 | ..... | 6,000 | 30,420 | 49,000 |
| Watch and clock repairing | 8 | 4,700 | 11 | ..... | 3 | 9,096 | 2,030 | 16,900 |
| Wheelwrighting (see also Blacksmithing) | 8 | 18,050 | 26 | ..... | 22 | 14,388 | 7,085 | 31,066 |
| All other industries (*a*) | 18 | 417,100 | 121 | 109 | 32 | 56,278 | 324,338 | 484,106 |

*a* Embracing axle-grease; bagging, flax, hemp, and jute; bags, other than paper; baskets, rattan and willow ware; carriages and wagons; cars, railroad, street, and repairs; coppersmithing; cotton-ties; fertilizers; furnishing goods, men's; furniture; liquors, malt; soap and candles; and stencils and brands.

### CITY OF CHELSEA, MASS.

[Statistics collected under the direction of JOHN SALE, Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 155 | $1,822,250 | 1,122 | 500 | 25 | $677,737 | $2,691,911 | $3,846,250 |
| Blacksmithing | 8 | 9,950 | 13 | ..... | ..... | 6,599 | 9,251 | 18,988 |
| Boots and shoes, including custom work and repairing | 4 | 6,200 | 10 | 1 | 2 | 4,470 | 5,600 | 13,400 |
| Bread and other bakery products | 9 | 96,600 | 44 | 11 | 2 | 21,449 | 153,675 | 226,312 |
| Brick and tile | 3 | 31,000 | 47 | ..... | 4 | 14,750 | 25,000 | 42,250 |
| Carpentering | 15 | 17,850 | 27 | ..... | 1 | 13,799 | 31,547 | 55,119 |
| Carriages and wagons | 3 | 12,000 | 9 | ..... | ..... | 6,320 | 3,490 | 13,900 |
| Clothing, men's | 4 | 3,700 | 6 | 9 | ..... | 3,950 | 7,000 | 16,800 |
| Confectionery | 3 | 5,500 | 6 | 6 | ..... | 1,400 | 11,200 | 18,800 |
| Cotton goods | 3 | 405,000 | 69 | 303 | ..... | 89,350 | 373,703 | 511,340 |
| Foundery and machine-shop products | 4 | 516,000 | 284 | ..... | ..... | 178,837 | 190,000 | 464,000 |
| Furniture | 4 | 38,200 | 32 | 4 | ..... | 15,138 | 35,676 | 64,814 |
| Leather, curried | 5 | 53,300 | 79 | ..... | 1 | 37,140 | 717,601 | 793,263 |
| Marble and stone work | 3 | 3,800 | 10 | ..... | ..... | 5,600 | 3,650 | 13,650 |
| Masonry, brick and stone | 4 | 8,200 | 30 | ..... | 1 | 7,670 | 15,500 | 25,166 |
| Painting and paperhanging | 11 | 8,350 | 30 | ..... | ..... | 12,197 | 9,590 | 31,501 |
| Plumbing and gasfitting | 6 | 9,150 | 20 | ..... | ..... | 6,611 | 13,156 | 24,340 |
| Roofing and roofing materials | 3 | 13,000 | 18 | ..... | ..... | 10,700 | 54,500 | 72,000 |
| Saddlery and harness | 3 | 4,300 | 6 | ..... | ..... | 3,350 | 3,300 | 9,900 |
| Soap and candles | 4 | 12,800 | 9 | ..... | ..... | 4,912 | 14,060 | 22,750 |
| Tobacco, cigars and cigarettes | 12 | 34,950 | 36 | 48 | 2 | 25,598 | 74,640 | 110,284 |
| All other industries (*a*) | 44 | 532,400 | 337 | 118 | 12 | 207,897 | 939,772 | 1,298,173 |

*a* Embracing baking and yeast powders; bluing; bone-, ivory-, and lamp-black; bookbinding and blank-book making; boxes, fancy and paper; brass castings; brooms and brushes; cars, railroad, street, and repairs; cleansing and polishing preparations; drugs and chemicals; dyeing and cleaning; fertilizers; flavoring extracts; furniture, chairs; hairwork; hardware; hosiery and knit goods; leather, tanned; looking-glass and picture frames; mattresses and spring beds; oil, lubricating; oil, neat's-foot; paperhangings; photographing; printing and publishing; rubber and elastic goods; shipbuilding; stone- and earthen-ware; tinware, copperware, and sheet-iron ware; tools; type founding; upholstering; varnish; watch and clock repairing; wheelwrighting; and window blinds and shades.

### CITY OF CHICAGO, ILL.

[Statistics collected under the direction of CHARLES RANDOLPH, Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 3,510 | $68,836,885 | 62,431 | 12,185 | 4,798 | $34,653,462 | $179,209,610 | $249,022,948 |
| Agricultural implements | 8 | 3,110,000 | 981 | ..... | 40 | 559,532 | 1,642,748 | 2,699,480 |
| Awnings and tents | 8 | 10,350 | 20 | 24 | 1 | 13,540 | 46,872 | 72,031 |
| Baking and yeast powders (see also Drugs and chemicals) | 3 | 135,000 | 75 | 37 | 1 | 44,134 | 485,000 | 635,000 |
| Baskets, rattan and willow ware | 11 | 107,750 | 119 | ..... | 14 | 48,750 | 54,225 | 120,400 |
| Billiard tables and materials | 4 | 263,200 | 300 | ..... | ..... | 137,225 | 283,900 | 665,400 |
| Blacksmithing (see also Wheelwrighting) | 146 | 110,375 | 335 | ..... | 11 | 199,689 | 123,609 | 482,029 |
| Bookbinding and blank-book making | 26 | 176,100 | 208 | 163 | 30 | 165,102 | 203,725 | 481,131 |
| Boots and shoes, including custom work and repairing | 133 | 997,475 | 1,387 | 358 | 66 | 770,191 | 1,355,208 | 2,479,805 |
| Boxes, cigar | 6 | 54,800 | 40 | 43 | 22 | 36,268 | 114,090 | 179,411 |
| Boxes, fancy and paper | 12 | 66,200 | 68 | 178 | 32 | 81,550 | 116,400 | 254,792 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF CHICAGO, ILL.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Boxes, wooden, packing | 14 | $525,000 | 892 | ..... | 95 | $414,953 | $1,271,682 | $1,883,073 |
| Brass castings | 11 | 442,500 | 517 | ..... | ..... | 232,125 | 361,700 | 737,500 |
| Bread and other bakery products | 118 | 553,200 | 680 | 159 | 37 | 398,081 | 1,817,078 | 2,613,186 |
| Brick and tile (see also Terra-cotta ware) | 35 | 348,800 | 1,176 | 13 | 61 | 454,557 | 128,573 | 800,400 |
| Bridges | 3 | 348,000 | 642 | ..... | ..... | 311,763 | 1,473,000 | 1,974,000 |
| Brooms and brushes | 41 | 243,200 | 255 | 106 | 46 | 132,830 | 271,337 | 517,324 |
| Carpentering | 171 | 442,050 | 1,733 | 1 | 58 | 893,642 | 1,337,890 | 2,598,508 |
| Carpets, rag | 5 | 1,275 | 3 | 1 | ..... | 1,700 | 2,843 | 6,450 |
| Carriages and wagons (see also Wheelwrighting) | 40 | 1,361,080 | 1,152 | 35 | 123 | 590,166 | 702,532 | 1,809,750 |
| Cars, railroad, street, and repairs | 5 | 421,500 | 562 | ..... | 20 | 286,742 | 675,291 | 1,043,682 |
| Clothing, men's | 102 | 6,439,650 | 4,101 | 4,001 | 374 | 3,530,169 | 11,631,764 | 17,342,207 |
| Clothing, women's | 19 | 353,500 | 72 | 1,488 | 23 | 334,885 | 1,017,720 | 1,585,990 |
| Coffee and spices, roasted and ground | 10 | 477,000 | 185 | 40 | 45 | 137,496 | 2,342,021 | 2,808,879 |
| Coffins, burial cases, and undertakers' goods | 5 | 179,650 | 107 | 12 | 2 | 67,020 | 164,500 | 290,600 |
| Confectionery | 24 | 413,200 | 310 | 163 | 132 | 211,604 | 1,424,830 | 1,953,558 |
| Cooperage | 65 | 325,560 | 686 | ..... | 20 | 313,077 | 644,380 | 1,137,694 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 3 | 3,100 | 10 | ..... | ..... | 4,460 | 4,820 | 14,200 |
| Cork cutting | 3 | 45,800 | 24 | 15 | 17 | 22,103 | 125,038 | 217,220 |
| Cutlery and edge tools (see also Hardware; Tools) | 12 | 113,700 | 135 | 8 | 27 | 69,581 | 49,670 | 177,000 |
| Dentistry, mechanical | 48 | 37,000 | 28 | 2 | 2 | 14,000 | 25,000 | 144,000 |
| Dentists' materials | 3 | 11,000 | 18 | 5 | ..... | 11,800 | 12,000 | 46,000 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 14 | 408,500 | 165 | 45 | 11 | 93,440 | 617,800 | 959,850 |
| Dye ng and cleaning | 16 | 78,350 | 74 | 13 | 7 | 47,023 | 46,815 | 140,401 |
| Dyeing and finishing textiles | 11 | 69,850 | 72 | 13 | 7 | 46,519 | 45,565 | 135,521 |
| Electrical apparatus and supplies | 3 | 271,200 | 127 | 25 | ..... | 100,603 | 143,587 | 543,000 |
| Electroplating | 9 | 24,800 | 31 | 2 | 6 | 18,645 | 9,820 | 59,000 |
| Engraving and die-sinking | 5 | 18,000 | 22 | 3 | ..... | 17,397 | 13,550 | 49,000 |
| Engraving, wood | 16 | 35,825 | 66 | 3 | 8 | 51,785 | 12,970 | 116,775 |
| Flavoring extracts | 4 | 71,200 | 65 | 40 | 5 | 36,730 | 334,500 | 461,500 |
| Flouring- and grist-mill products | 12 | 652,100 | 176 | ..... | ..... | 103,542 | 1,939,709 | 2,217,564 |
| Food preparations (see page 39) | 5 | 89,600 | 27 | 12 | 8 | 15,940 | 58,500 | 119,060 |
| Foundery and machine-shop products (see also Iron work, architectural and ornamental; Steam fittings and heating apparatus). | 133 | 4,455,417 | 4,736 | 6 | 145 | 2,371,361 | 5,088,619 | 8,934,629 |
| Fruits and vegetables, canned and preserved | 5 | 90,000 | 113 | 40 | 27 | 58,700 | 417,415 | 587,223 |
| Furnishing goods, men's | 13 | 586,100 | 144 | 1,119 | 47 | 392,700 | 1,143,275 | 1,835,597 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 149 | 2,443,175 | 4,160 | 57 | 347 | 2,028,371 | 2,996,088 | 6,177,114 |
| Furniture, chairs | 6 | 216,500 | 278 | ..... | 57 | 121,200 | 139,440 | 334,072 |
| Furs, dressed | 10 | 160,500 | 49 | 88 | 2 | 51,058 | 227,000 | 370,000 |
| Gas and lamp fixtures | 3 | 17,100 | 46 | 1 | 2 | 18,600 | 41,225 | 96,000 |
| Gas machines and meters | 3 | 45,500 | 42 | ..... | ..... | 19,723 | 28,884 | 64,800 |
| Glass, cut, stained, and ornamented | 6 | 39,600 | 76 | 1 | 3 | 47,545 | 38,564 | 113,612 |
| Gloves and mittens (see also Hosiery and knit goods) | 7 | 50,200 | 36 | 109 | 5 | 40,075 | 110,150 | 170,800 |
| Gold and silver leaf and foil | 3 | 22,000 | 34 | 45 | 2 | 25,750 | 41,000 | 85,000 |
| Grease and tallow | 6 | 117,000 | 111 | ..... | ..... | 64,044 | 1,123,025 | 1,327,000 |
| Hairwork | 15 | 48,650 | 8 | 110 | ..... | 26,782 | 65,300 | 135,915 |
| Hand-knit goods | 7 | 14,900 | 4 | 106 | 9 | 14,065 | 43,470 | 64,072 |
| Handles, wooden | 3 | 2,850 | 4 | ..... | 2 | 1,950 | 4,485 | 9,000 |
| Hand-stamps | 4 | 5,500 | 11 | 1 | 1 | 7,140 | 11,000 | 26,050 |
| Hardware (see also Cutlery and edge tools; Tools) | 13 | 134,870 | 136 | ..... | 31 | 70,293 | 89,395 | 244,018 |
| Hardware, saddlery | 3 | 30,100 | 32 | 1 | 20 | 18,200 | 48,200 | 87,000 |
| Hats and caps, not including wool hats | 11 | 18,950 | 34 | 27 | 7 | 28,226 | 36,500 | 88,200 |
| Hosiery and knit goods (see also Gloves and mittens) | 7 | 57,800 | 121 | 341 | 63 | 66,966 | 184,831 | 300,577 |
| Ink | 3 | 33,750 | 18 | 2 | 12 | 11,450 | 15,000 | 61,000 |
| Iron and steel | 11 | 3,875,000 | 2,871 | ..... | 125 | 1,477,563 | 8,006,970 | 10,441,891 |
| Iron doors and shutters | 3 | 7,500 | 18 | ..... | ..... | 11,720 | 19,800 | 40,500 |
| Iron forgings | 4 | 135,800 | 115 | ..... | ..... | 56,130 | 349,337 | 485,581 |
| Iron railings, wrought | 5 | 10,000 | 27 | ..... | ..... | 15,590 | 17,400 | 42,882 |
| Iron work, architectural and ornamental (see also Foundery and machine-shop products). | 11 | 64,000 | 133 | ..... | 12 | 68,294 | 170,900 | 303,900 |
| Japanning | 3 | 9,100 | 26 | ..... | 1 | 6,300 | 5,000 | 17,100 |
| Jewelry | 11 | 48,600 | 67 | ..... | 5 | 45,396 | 78,380 | 192,004 |
| Lamps and reflectors | 4 | 453,500 | 345 | 25 | 55 | 159,250 | 648,408 | 1,051,346 |
| Lasts | 3 | 16,500 | 34 | ..... | 2 | 19,988 | 34,075 | 61,700 |
| Leather, curried | 9 | 481,002 | 225 | ..... | ..... | 129,196 | 1,762,756 | 2,146,500 |
| Leather, tanned | 19 | 1,932,998 | 981 | 99 | 29 | 541,184 | 3,790,522 | 4,914,550 |
| Liquors, distilled | 7 | 1,175,000 | 750 | ..... | ..... | 330,000 | 2,961,281 | 4,387,545 |
| Liquors, malt | 18 | 3,395,500 | 892 | ..... | ..... | 445,891 | 1,886,165 | 3,429,375 |
| Lithographing (see also Printing and publishing) | 13 | 494,150 | 307 | 12 | 11 | 220,955 | 263,549 | 698,387 |
| Lock- and gun-smithing | 14 | 10,400 | 20 | ..... | 1 | 10,481 | 7,155 | 34,004 |
| Looking-glass and picture frames | 52 | 338,675 | 787 | 31 | 156 | 357,625 | 600,540 | 1,268,855 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 15 | 471,008 | 686 | ..... | 56 | 297,730 | 3,441,100 | 4,080,000 |
| Malt | 16 | 870,200 | 230 | ..... | 1 | 108,709 | 1,583,019 | 1,960,780 |
| Marble and stone work | 43 | 491,150 | 891 | ..... | 14 | 456,014 | 583,915 | 1,275,355 |
| Masonry, brick and stone | 59 | 241,250 | 1,613 | ..... | 10 | 759,843 | 1,616,845 | 2,623,137 |
| Mattresses and spring beds (see also Furniture) | 24 | 216,950 | 281 | 63 | 48 | 131,286 | 333,900 | 739,908 |
| Millinery and lace goods | 12 | 108,100 | 48 | 289 | 65 | 85,280 | 244,000 | 430,900 |
| Mineral and soda waters | 13 | 120,150 | 196 | ..... | 6 | 84,380 | 132,810 | 406,900 |
| Models and patterns | 16 | 11,400 | 57 | ..... | 1 | 31,380 | 8,251 | 64,272 |
| Musical instruments, organs and materials | 9 | 81,500 | 177 | ..... | 22 | 105,307 | 195,028 | 376,650 |
| Musical instruments, pianos and materials | 5 | 20,300 | 27 | ..... | ..... | 16,902 | 11,860 | 37,675 |
| Oil, lard | 3 | 190,000 | 82 | ..... | 3 | 42,600 | 928,000 | 1,107,000 |
| Oil, linseed | 5 | 655,000 | 143 | 4 | 9 | 35,005 | 1,590,500 | 1,967,093 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF CHICAGO—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Oleomargarine | 3 | $208, 800 | 63 | ..... | 7 | $21, 310 | $328, 500 | $437, 800 |
| Painting and paperhanging | 134 | 280, 207 | 963 | 1 | 33 | 519, 973 | 549, 015 | 1, 403, 026 |
| Paints (see also Varnish) | 12 | 785, 500 | 251 | 18 | 7 | 153, 128 | 2, 110, 845 | 2, 796, 000 |
| Patent medicines and compounds (see also Drugs and chemicals) | 12 | 176, 050 | 94 | 32 | 2 | 45, 878 | 516, 500 | 674, 280 |
| Paving materials | 3 | 58, 500 | 81 | ..... | ..... | 36, 787 | 244, 500 | 307, 000 |
| Photographing | 47 | 181, 625 | 115 | 57 | 7 | 100, 738 | 81, 885 | 325, 978 |
| Pickles, preserves, and sauces | 6 | 27, 000 | 40 | 5 | 2 | 25, 400 | 216, 470 | 288, 200 |
| Pipes, tobacco | 5 | 6, 700 | 4 | ..... | 1 | 3, 050 | 3, 025 | 14, 200 |
| Plumbing and gasfitting | 86 | 108, 261 | 302 | 2 | 54 | 190, 114 | 253, 938 | 563, 012 |
| Pocket-books | 3 | 22, 300 | 61 | 28 | ..... | 31, 890 | 95, 840 | 150, 599 |
| Printing and publishing (see also Lithographing) | 135 | 2, 886, 400 | 2, 750 | 453 | 316 | 1, 930, 881 | 2, 451, 360 | 5, 059, 295 |
| Printing materials | 4 | 20, 200 | 24 | ..... | 7 | 17, 452 | 26, 300 | 61, 000 |
| Roofing and roofing materials | 15 | 192, 521 | 221 | ..... | ..... | 82, 331 | 422, 827 | 503, 431 |
| Rubber and elastic goods | 3 | 10, 500 | 8 | 10 | ..... | 4, 540 | 25, 750 | 35, 600 |
| Saddlery and harness | 82 | 219, 250 | 329 | 100 | 62 | 179, 574 | 403, 625 | 746, 247 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 27 | 1, 213, 538 | 1, 793 | 16 | 190 | 805, 233 | 1, 649, 555 | 2, 961, 508 |
| Saws | 6 | 40, 300 | 26 | ..... | ..... | 18, 283 | 12, 300 | 43, 500 |
| Scales and balances | 4 | 51, 450 | 74 | ..... | ..... | 40, 500 | 111, 250 | 217, 600 |
| Sewing-machine cases | 6 | 70, 800 | 339 | ..... | 26 | 106, 706 | 79, 685 | 262, 355 |
| Sewing machines and attachments | 11 | 91, 300 | 147 | 4 | 6 | 59, 906 | 130, 800 | 259, 513 |
| Shirts | 28 | 156, 450 | 111 | 417 | 7 | 132, 020 | 420, 677 | 721, 167 |
| Shipbuilding | 21 | 355, 000 | 347 | ..... | ..... | 181, 675 | 358, 820 | 659, 133 |
| Show-cases | 11 | 55, 100 | 107 | ..... | 8 | 59, 976 | 111, 500 | 227, 000 |
| Silk and silk goods | 5 | 82, 000 | 67 | 185 | 57 | 72, 195 | 125, 895 | 244, 150 |
| Slaughtering and meat-packing, not including retail butchering | 70 | 8, 455, 200 | 7, 180 | ..... | 298 | 3, 392, 748 | 74, 546, 310 | 85, 324, 371 |
| Soap and candles | 16 | 1, 230, 800 | 402 | 33 | 79 | 199, 292 | 3, 135, 047 | 3, 627, 310 |
| Springs, steel, car, and carriage | 5 | 45, 500 | 64 | ..... | 1 | 36, 740 | 151, 000 | 222, 500 |
| Stationery goods | 3 | 5, 600 | 6 | 4 | 3 | 4, 100 | 17, 050 | 25, 500 |
| Steam fittings and heating apparatus (see also Foundery and machine-shop products). | 11 | 99, 700 | 220 | ..... | 5 | 115, 590 | 411, 780 | 580, 530 |
| Stereotyping and electrotyping (see also Type founding) | 3 | 25, 000 | 45 | ..... | 12 | 28, 672 | 18, 300 | 65, 554 |
| Straw goods | 8 | 144, 000 | 85 | 335 | 19 | 110, 514 | 297, 744 | 484, 609 |
| Surgical appliances | 4 | 20, 500 | 16 | 12 | ..... | 10, 700 | 17, 200 | 48, 800 |
| Terra-cotta ware (see also Brick and tile) | 3 | 28, 000 | 81 | ..... | 13 | 20, 500 | 22, 576 | 68, 000 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing) | 106 | 657, 875 | 919 | 108 | 154 | 513, 329 | 1, 157, 831 | 2, 164, 496 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 4 | 287, 500 | 142 | 97 | 15 | 77, 060 | 1, 206, 187 | 1, 387, 598 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 287 | 538, 350 | 1, 489 | 134 | 101 | 701, 573 | 1, 053, 916 | 2, 315, 174 |
| Tools (see also Cutlery and edge tools; Hardware) | 5 | 15, 300 | 15 | ..... | ..... | 6, 200 | 4, 850 | 19, 224 |
| Trunks and valises | 12 | 155, 000 | 212 | ..... | 10 | 102, 170 | 295, 700 | 508, 300 |
| Type founding (see also Stereotyping and electrotyping) | 4 | 290, 000 | 127 | 95 | 96 | 109, 300 | 86, 000 | 314, 000 |
| Umbrellas and canes | 6 | 2, 775 | 8 | ..... | 2 | 2, 516 | 2, 100 | 7, 000 |
| Upholstering (see also Furniture) | 19 | 43, 900 | 110 | 21 | 9 | 51, 383 | 121, 691 | 226, 195 |
| Varnish (see also Paints) | 4 | 207, 000 | 32 | ..... | 1 | 24, 040 | 302, 600 | 389, 000 |
| Vinegar | 13 | 196, 300 | 63 | ..... | 4 | 36, 180 | 179, 900 | 328, 338 |
| Watch and clock repairing | 28 | 26, 950 | 49 | 1 | 1 | 31, 174 | 8, 537 | 63, 194 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 118 | 184, 205 | 426 | ..... | 21 | 213, 500 | 165, 049 | 532, 734 |
| Whips | 4 | 2, 300 | 8 | 3 | 1 | 3, 325 | 3, 950 | 11, 369 |
| Window blinds and shades | 4 | 11, 500 | 12 | 8 | 9 | 6, 550 | 32, 600 | 51, 250 |
| Wirework | 24 | 311, 122 | 213 | ..... | 39 | 108, 294 | 753, 786 | 1, 065, 860 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 14 | 86, 010 | 106 | 10 | 21 | 54, 767 | 79, 587 | 181, 840 |
| All other industries (a) | 74 | 4, 114, 271 | 2, 207 | 461 | 318 | 1, 258, 133 | 8, 060, 254 | 10, 787, 109 |

a Embracing axle-grease; bags, other than paper; bags, paper; belting and hose, leather; cleansing and polishing preparations; cordage and twine; corsets; cotton goods; envelopes; explosives and fireworks; fancy articles; files; fire extinguishers, chemical; glass; glue; gold and silver, reduced and refined; iron bolts, nuts, washers, and rivets; iron nails and spikes, cut and wrought; iron pipe, wrought; ivory and bone work; jewelry and instrument cases; labels and tags; lapidary work; lard, refined; lead, bar, pipe, sheet, and shot; lightning rods; lime; mantels, slate, marble, and marbleized; matches; mixed textiles; musical instruments and materials (not specified); oil, essential; perfumery and cosmetics; photographic apparatus; pumps; refrigerators; regalia and society banners and emblems; safes, doors, and vaults, fire-proof; screws; shoddy; soda-water apparatus; stencils and brands; stone- and earthen-ware; stamped ware; telegraph and telephone apparatus and supplies; toys and games; vault lights; washing-machines and clothes-wringers; watch cases; and wooden ware.

### CITY OF CINCINNATI, OHIO.

[Statistics collected under the direction of HENRY COLE, Chief Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 3, 276 | $50, 533, 100 | 38, 993 | 10, 483 | 5, 041 | $19, 553, 629 | $62, 376, 710 | $105, 259, 165 |
| Artificial limbs (see also Surgical appliances) | 3 | 3, 350 | 11 | ..... | 1 | 4, 904 | 3, 155 | 12, 225 |
| Awnings and tents | 9 | 7, 450 | 19 | 30 | ..... | 11, 492 | 34, 095 | 64, 750 |
| Bags, paper | 3 | 85, 000 | 42 | 41 | 2 | 26, 377 | 376, 072 | 472, 808 |
| Baking and yeast powders (see also Drugs and chemicals) | 6 | 28, 000 | 19 | ..... | 4 | 8, 560 | 54, 347 | 119, 700 |
| Baskets, rattan and willow ware | 9 | 9, 000 | 13 | ..... | 2 | 4, 175 | 10, 595 | 24, 060 |
| Belting and hose, leather | 3 | 57, 000 | 26 | ..... | ..... | 15, 429 | 73, 107 | 104, 554 |
| Blacksmithing (see also Wheelwrighting) | 128 | 115, 745 | 328 | ..... | 5 | 161, 816 | 123, 530 | 437, 019 |
| Bookbinding and blank-book making | 18 | 157, 910 | 122 | 148 | 22 | 116, 534 | 116, 377 | 387, 640 |
| Boot and shoe findings | 5 | 28, 000 | 9 | 2 | ..... | 4, 366 | 63, 200 | 91, 000 |
| Boot and shoe uppers | 3 | 5, 400 | 13 | 9 | 3 | 9, 000 | 14, 900 | 29, 900 |
| Boots and shoes, including custom work and repairing | 333 | 1, 066, 656 | 2, 352 | 579 | 283 | 1, 088, 248 | 2, 305, 219 | 4, 132, 637 |
| Boxes, cigar | 8 | 23, 750 | 47 | 44 | 23 | 32, 090 | 60, 185 | 118, 740 |
| Boxes, fancy and paper | 7 | 38, 550 | 27 | 35 | 7 | 26, 726 | 32, 012 | 72, 809 |
| Boxes, wooden, packing | 5 | 43, 100 | 75 | 8 | 11 | 30, 469 | 71, 900 | 125, 612 |
| Brass castings | 14 | 220, 777 | 226 | ..... | 33 | 109, 249 | 366, 962 | 551, 096 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF CINCINNATI, OHIO—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Bread and other bakery products | 232 | $391,860 | 551 | 66 | 82 | $246,344 | $1,159,917 | $1,827,210 |
| Brick and tile | 35 | 90,660 | 249 | ..... | 41 | 79,155 | 59,950 | 215,035 |
| Brooms and brushes | 18 | 101,237 | 108 | 13 | 13 | 41,438 | 64,835 | 148,050 |
| Carpentering | 119 | 290,305 | 875 | ..... | 13 | 386,095 | 745,720 | 1,515,097 |
| Carpets, rag | 21 | 4,775 | 32 | 3 | 6 | 11,425 | 15,899 | 41,822 |
| Carriage and wagon materials | 5 | 368,440 | 178 | 2 | 20 | 92,318 | 160,089 | 430,626 |
| Carriages and wagons (see also Wheelwrighting) | 50 | 1,252,131 | 2,694 | 81 | 522 | 1,207,319 | 3,061,264 | 5,287,113 |
| Clothing, men's | 237 | 6,279,783 | 3,731 | 4,898 | 646 | 2,670,130 | 8,628,133 | 13,878,903 |
| Clothing, women's | 19 | 194,802 | 31 | 898 | 8 | 222,380 | 608,002 | 1,030,454 |
| Coffee and spices, roasted and ground | 10 | 86,400 | 65 | 4 | 3 | 32,542 | 258,170 | 410,100 |
| Coffins, burial cases, and undertakers' goods | 8 | 636,500 | 464 | 98 | 96 | 258,446 | 462,675 | 1,002,860 |
| Coke | 3 | 14,000 | 13 | ..... | ..... | 4,012 | 17,206 | 42,887 |
| Confectionery | 20 | 177,075 | 148 | 60 | 23 | 83,595 | 467,820 | 660,260 |
| Cooperage | 58 | 359,950 | 531 | ..... | 11 | 205,559 | 258,428 | 587,083 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 5 | 34,000 | 50 | ..... | 2 | 25,054 | 57,740 | 102,530 |
| Corsets | 3 | 2,900 | ..... | 5 | 1 | 1,895 | 3,800 | 10,000 |
| Cotton goods (see also Hosiery and knit goods) | 3 | 715,000 | 97 | 275 | 26 | 99,147 | 298,465 | 684,158 |
| Cutlery and edge tools (see also Hardware; Tools) | 12 | 40,100 | 31 | ..... | 4 | 16,452 | 13,500 | 48,900 |
| Dentistry, mechanical | 24 | 18,550 | 14 | 1 | 1 | 6,763 | 12,179 | 72,495 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 8 | 102,200 | 49 | ..... | ..... | 16,344 | 159,225 | 225,025 |
| Dyeing and cleaning | 12 | 47,050 | 24 | 16 | 3 | 18,731 | 10,080 | 52,475 |
| Dyeing and finishing textiles | 7 | 58,300 | 27 | 13 | 3 | 20,401 | 78,400 | 144,295 |
| Electrical apparatus and supplies | 5 | 83,500 | 31 | 8 | 6 | 15,260 | 80,700 | 173,580 |
| Electroplating | 7 | 33,160 | 88 | 2 | 5 | 30,637 | 23,065 | 83,440 |
| Engraving and die-sinking | 12 | 11,050 | 26 | 8 | 10 | 16,838 | 6,894 | 38,021 |
| Engraving, steel | 3 | 1,300 | 3 | ..... | ..... | 1,600 | 1,100 | 5,600 |
| Engraving, wood | 3 | 2,100 | 8 | ..... | ..... | 4,150 | 325 | 9,500 |
| Fancy articles | 3 | 4,500 | 5 | 8 | 5 | 2,502 | 4,048 | 9,600 |
| Flavoring extracts | 4 | 10,800 | 10 | 1 | 2 | 3,980 | 9,500 | 17,800 |
| Flouring- and grist-mill products | 14 | 210,500 | 101 | ..... | ..... | 36,913 | 544,226 | 634,964 |
| Food preparations (see page 39) | 3 | 6,300 | 6 | 4 | ..... | 2,000 | 5,860 | 13,910 |
| Foundery and machine-shop products (see also Iron work, architectural and ornamental). | 90 | 4,088,475 | 3,503 | 6 | 126 | 1,749,584 | 2,592,096 | 5,723,508 |
| Fruits and vegetables, canned and preserved | 4 | 221,380 | 179 | 577 | 150 | 79,173 | 565,234 | 743,928 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 119 | 2,642,711 | 2,858 | 138 | 470 | 1,335,213 | 1,641,141 | 4,372,339 |
| Furniture, chairs | 16 | 71,850 | 167 | 17 | 14 | 73,775 | 50,222 | 208,635 |
| Gas machines and meters | 6 | 121,000 | 76 | ..... | 1 | 41,998 | 77,100 | 139,670 |
| Glass, cut, stained, and ornamented | 3 | 5,650 | 14 | ..... | ..... | 8,700 | 3,525 | 23,600 |
| Gloves and mittens (see also Hosiery and knit goods) | 3 | 1,100 | 4 | 1 | ..... | 1,400 | 3,500 | 7,000 |
| Glue | 3 | 189,000 | 46 | ..... | 26 | 21,180 | 34,700 | 143,000 |
| Grease and tallow | 7 | 44,550 | 34 | ..... | 1 | 18,486 | 187,200 | 229,600 |
| Hairwork | 14 | 32,050 | 11 | 31 | ..... | 9,988 | 16,090 | 42,680 |
| Hardware (see also Cutlery and edge tools; Tools) | 18 | 959,309 | 671 | 3 | 48 | 249,533 | 507,852 | 1,051,103 |
| Hats and caps, not including wool hats | 9 | 9,350 | 25 | 19 | 8 | 14,205 | 37,870 | 66,770 |
| Hosiery and knit goods (see also Cotton goods; Gloves and mittens) | 9 | 76,400 | 32 | 213 | 76 | 55,425 | 147,300 | 235,825 |
| Ink | 3 | 41,200 | 13 | ..... | 2 | 7,360 | 45,200 | 78,800 |
| Instruments, professional and scientific | 8 | 33,200 | 37 | 1 | 2 | 17,557 | 11,998 | 47,540 |
| Iron and steel | 4 | 610,689 | 305 | ..... | 8 | 163,590 | 338,479 | 596,160 |
| Iron railing, wrought | 5 | 18,150 | 58 | ..... | 4 | 22,183 | 32,969 | 69,386 |
| Iron work, architectural and ornamental (see also Foundery and machine-shop products). | 8 | 50,250 | 84 | ..... | ..... | 39,025 | 152,124 | 255,847 |
| Jewelry | 9 | 152,600 | 179 | 25 | 49 | 131,886 | 142,385 | 418,000 |
| Leather, curried | 21 | 379,000 | 184 | ..... | ..... | 86,175 | 1,425,505 | 1,700,426 |
| Leather, tanned | 29 | 918,600 | 341 | ..... | 5 | 168,393 | 1,504,137 | 2,090,672 |
| Lightning rods | 3 | 40,000 | 13 | ..... | ..... | 6,950 | 96,000 | 144,500 |
| Liquors, distilled | 10 | 3,143,500 | 750 | ..... | ..... | 312,500 | 3,604,120 | 5,293,466 |
| Liquors, malt | 19 | 4,139,968 | 1,373 | ..... | ..... | 595,363 | 2,566,000 | 4,580,579 |
| Lithographing (see also Printing and publishing) | 9 | 322,400 | 286 | 20 | 39 | 185,063 | 283,517 | 633,744 |
| Lock- and gun-smithing | 13 | 6,095 | 9 | ..... | 4 | 4,328 | 3,035 | 14,410 |
| Looking-glass and picture frames | 9 | 404,350 | 462 | ..... | 44 | 187,120 | 249,500 | 524,000 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 11 | 247,676 | 341 | 1 | 1 | 168,000 | 400,959 | 656,824 |
| Lumber, sawed | 9 | 502,000 | 295 | ..... | 20 | 110,979 | 974,097 | 1,247,191 |
| Malt | 14 | 839,000 | 107 | ..... | ..... | 57,316 | 736,613 | 884,310 |
| Mantels, slate, marble, and marbleized | 5 | 235,000 | 199 | ..... | 17 | 93,362 | 136,540 | 304,360 |
| Marble and stone work | 44 | 468,650 | 628 | 5 | 33 | 262,647 | 287,562 | 856,863 |
| Masonry, brick and stone | 18 | 23,050 | 138 | ..... | 5 | 58,591 | 85,628 | 183,509 |
| Mattresses and spring beds (see also Furniture) | 13 | 37,940 | 48 | 14 | 15 | 22,239 | 74,150 | 135,350 |
| Millinery and lace goods | 22 | 81,450 | 25 | 259 | 11 | 77,486 | 162,852 | 320,091 |
| Mineral and soda waters | 11 | 34,600 | 50 | ..... | 5 | 18,192 | 29,991 | 82,742 |
| Models and patterns | 13 | 8,350 | 26 | 8 | 4 | 10,243 | 6,140 | 29,346 |
| Musical instruments and materials (not specified) | 7 | 12,300 | 17 | ..... | ..... | 6,875 | 4,925 | 10,025 |
| Oil, lard | 5 | 220,000 | 35 | ..... | ..... | 14,272 | 357,916 | 395,145 |
| Oil, lubricating | 4 | 104,775 | 29 | ..... | 1 | 18,404 | 169,100 | 238,000 |
| Painting and paperhanging | 87 | 95,711 | 368 | ..... | 5 | 133,939 | 148,174 | 414,400 |
| Patent medicines and compounds (see also Drugs and chemicals) | 41 | 505,750 | 102 | 11 | 11 | 56,360 | 361,163 | 540,120 |
| Photographing | 30 | 34,700 | 66 | 13 | 3 | 37,434 | 33,780 | 122,747 |
| Pickles, preserves, and sauces | 3 | 35,000 | 56 | 12 | ..... | 16,800 | 95,000 | 130,000 |
| Plumbing and gasfitting | 59 | 200,488 | 235 | ..... | 22 | 95,767 | 237,101 | 423,113 |
| Printing and publishing (see also Lithographing) | 89 | 2,527,791 | 1,910 | 349 | 830 | 1,168,592 | 1,397,880 | 4,006,450 |
| Refrigerators | 4 | 44,100 | 41 | ..... | 2 | 11,303 | 13,425 | 42,040 |
| Regalia and society banners and emblems | 5 | 46,200 | 17 | 76 | 7 | 18,550 | 45,800 | 80,500 |
| Roofing and roofing materials | 25 | 230,520 | 234 | 1 | 3 | 91,764 | 409,244 | 612,491 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF CINCINNATI, OHIO—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Saddlery and harness | 51 | $413,955 | 543 | 14 | 35 | $236,473 | $511,749 | $1,155,564 |
| Safes, doors, and vaults, fire-proof | 4 | 784,000 | 865 | ..... | 10 | 502,428 | 425,000 | 1,335,000 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 9 | 410,600 | 391 | ..... | 12 | 187,949 | 355,400 | 735,200 |
| Saws | 5 | 112,750 | 96 | ..... | ..... | 37,518 | 66,410 | 145,550 |
| Sewing machines and attachments | 6 | 14,700 | 13 | 1 | 2 | 8,035 | 152,104 | 168,800 |
| Shipbuilding | 8 | 131,000 | 231 | ..... | ..... | 134,995 | 395,100 | 566,700 |
| Shirts | 21 | 188,400 | 69 | 418 | 2 | 107,271 | 253,325 | 416,627 |
| Show-cases | 4 | 26,200 | 92 | ..... | 3 | 41,616 | 53,019 | 116,637 |
| Silk and silk goods | 5 | 21,700 | 19 | 68 | 39 | 10,700 | 18,355 | 46,140 |
| Slaughtering and meat-packing, not including retail butchering | 49 | 4,074,682 | 1,107 | ..... | 36 | 338,302 | 10,454,991 | 11,614,810 |
| Spectacles and eyeglasses | 3 | 1,125 | 2 | ..... | ..... | 460 | 500 | 2,500 |
| Stencils and brands | 4 | 9,450 | 19 | ..... | 7 | 12,924 | 3,450 | 22,620 |
| Stereotyping and electrotyping | 3 | 10,600 | 20 | ..... | 2 | 13,495 | 7,600 | 28,348 |
| Stone- and earthen-ware | 12 | 287,100 | 275 | 41 | 75 | 139,508 | 93,730 | 356,900 |
| Surgical appliances (see also Artificial limbs) | 4 | 16,300 | 8 | 2 | ..... | 6,452 | 8,060 | 26,000 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing) | 107 | 344,333 | 300 | 3 | 19 | 168,933 | 406,303 | 790,333 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 13 | 490,645 | 431 | 85 | 60 | 101,980 | 1,138,489 | 1,508,486 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 250 | 746,935 | 2,009 | 372 | 384 | 901,628 | 1,043,066 | 2,767,401 |
| Tools (see also Cutlery and edge tools; Hardware) | 3 | 17,800 | 28 | ..... | 1 | 19,100 | 14,700 | 45,800 |
| Trunks and valises | 11 | 93,700 | 199 | 20 | 14 | 61,200 | 100,935 | 226,706 |
| Umbrellas and canes | 7 | 20,250 | 12 | 11 | 3 | 9,800 | 31,525 | 55,600 |
| Upholstering (see also Furniture) | 11 | 152,850 | 113 | 16 | 45 | 48,883 | 168,495 | 265,825 |
| Varnish | 4 | 94,500 | 23 | ..... | ..... | 14,355 | 131,958 | 186,090 |
| Vinegar | 8 | 92,750 | 49 | ..... | ..... | 10,348 | 79,600 | 167,728 |
| Watch and clock repairing | 36 | 84,520 | 68 | 4 | 8 | 33,686 | 15,040 | 106,151 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 45 | 122,012 | 206 | ..... | 4 | 84,345 | 55,945 | 218,304 |
| Window blinds and shades | 6 | 17,100 | 17 | 4 | 1 | 9,484 | 61,000 | 100,424 |
| Wirework | 6 | 82,600 | 170 | ..... | 36 | 36,157 | 97,200 | 198,600 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 17 | 27,070 | 60 | 4 | 2 | 26,079 | 23,065 | 104,160 |
| Wooden ware | 3 | 83,064 | 70 | ..... | 42 | 50,850 | 77,291 | 173,684 |
| All other industries (*a*) | 74 | 2,783,615 | 1,144 | 260 | 184 | 547,141 | 2,632,395 | 4,310,063 |

*a* Embracing agricultural implements; axle-grease; bags, other than paper; billiard tables and materials; blacking; calcium lights; carriages and sleds, children's; cars, railroad, street, and repairs; cement; cigar molds; cleansing and polishing preparations; cloth finishing; combs; cordage and twine; drain and sewer pipe; enameled goods; envelopes; explosives and fireworks; fertilizers; files; flags and banners; foundery supplies; furnishing goods, men's; furs, dressed; gas and lamp fixtures; gold and silver leaf and foil; hand-knit goods; hand-stamps; housefurnishing goods; lamps and reflectors; lapidary work; lasts; lead, bar, pipe, sheet, and shot; lime; millstones; mirrors; mixed textiles; oleomargarine; oil, cottonseed and cake; oil, illuminating; oil, linseed; paints; pens, gold; pocket-books; printing materials; scales and balances; smelting and refining; soap and candles; springs, steel, car, and carriage; starch; steam fittings and heating apparatus; taxidermy; type founding; veneering; washing-machines and clothes-wringers; and woolen goods.

### CITY OF CLEVELAND, OHIO.

[Statistics collected under the direction of M. M. HOBART, Chief Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 1,055 | $19,430,980 | 18,018 | 2,286 | 1,420 | $8,502,935 | $31,629,737 | $48,604,050 |
| Agricultural implements | 3 | 101,200 | 39 | ..... | 8 | 16,006 | 53,930 | 85,420 |
| Blacksmithing (see also Wheelwrighting) | 28 | 31,650 | 72 | ..... | 4 | 31,240 | 29,030 | 84,770 |
| Bookbinding and blank-book making | 12 | 116,000 | 115 | 71 | 10 | 60,705 | 114,112 | 210,200 |
| Boot and shoe uppers | 8 | 19,000 | 16 | 15 | 1 | 8,488 | 27,450 | 42,920 |
| Boots and shoes, including custom work and repairing | 103 | 227,045 | 320 | 44 | 1 | 121,238 | 242,879 | 455,536 |
| Boxes, cigar | 3 | 6,900 | 11 | 12 | 8 | 8,500 | 24,000 | 44,000 |
| Brass castings | 6 | 87,500 | 81 | ..... | 2 | 35,200 | 60,000 | 118,140 |
| Bread and other bakery products | 45 | 110,303 | 131 | 16 | 7 | 63,163 | 290,515 | 452,823 |
| Brick and tile | 21 | 89,100 | 256 | ..... | 22 | 74,914 | 37,109 | 159,450 |
| Bridges | 4 | 347,000 | 573 | ..... | 4 | 180,122 | 504,348 | 925,063 |
| Brooms and brushes | 6 | 22,000 | 210 | 64 | 101 | 54,675 | 57,725 | 141,666 |
| Carpentering | 13 | 36,550 | 120 | ..... | 2 | 56,240 | 104,000 | 185,150 |
| Carpets, rag | 9 | 760 | 5 | ..... | ..... | 1,050 | 2,372 | 9,815 |
| Carriages and wagons (see also Wheelwrighting) | 25 | 165,400 | 283 | ..... | 2 | 126,388 | 122,480 | 335,084 |
| Cars, railroad, street, and repairs | 4 | 144,500 | 216 | ..... | ..... | 103,925 | 461,000 | 661,000 |
| Clothing, men's | 73 | 1,086,600 | 824 | 1,172 | 61 | 634,319 | 1,488,780 | 2,687,409 |
| Coffee and spices, roasted and ground | 4 | 138,000 | 62 | 1 | 6 | 43,440 | 199,000 | 300,000 |
| Coffins, burial cases, and undertakers' goods | 3 | 103,000 | 144 | 39 | 10 | 70,012 | 103,780 | 265,150 |
| Confectionery | 5 | 61,500 | 47 | 25 | 9 | 23,300 | 111,500 | 161,550 |
| Cooperage | 11 | 42,575 | 194 | ..... | ..... | 88,625 | 334,315 | 474,050 |
| Cutlery and edge tools (see also Hardware) | 3 | 97,000 | 116 | ..... | ..... | 47,531 | 54,326 | 123,000 |
| Dentistry, mechanical | 3 | 9,000 | 7 | 1 | ..... | 4,918 | 6,050 | 19,450 |
| Drugs and chemicals (see also Patent medicines and compounds) | 6 | 563,000 | 202 | 4 | 1 | 63,490 | 323,875 | 557,500 |
| Engraving, wood | 3 | 1,200 | 7 | ..... | 1 | 3,000 | 800 | 10,000 |
| Flouring- and grist-mill products | 6 | 120,000 | 71 | ..... | ..... | 34,200 | 988,659 | 1,105,768 |
| Foundery and machine-shop products (see also Iron work, architectural and ornamental). | 53 | 1,961,038 | 2,426 | 3 | 108 | 946,877 | 1,786,420 | 3,820,685 |
| Furniture (see also Upholstering) | 28 | 326,600 | 392 | 12 | 23 | 167,251 | 183,199 | 470,835 |
| Hairwork | 10 | 14,740 | 5 | 19 | ..... | 4,335 | 10,230 | 21,140 |
| Hardware (see also Cutlery and edge tools) | 8 | 49,000 | 69 | ..... | 11 | 28,550 | 59,875 | 142,500 |
| Hats and caps, not including wool hats | 3 | 2,000 | 12 | 5 | 1 | 6,200 | 4,100 | 17,800 |
| Hosiery and knit goods | 5 | 27,000 | 4 | 192 | 2 | 21,960 | 42,100 | 97,550 |
| Iron and steel | 10 | 2,839,042 | 2,788 | ..... | 211 | 1,960,237 | 6,491,506 | 9,435,432 |
| Iron bolts, nuts, washers, and rivets | 5 | 307,500 | 364 | ..... | ..... | 153,923 | 482,926 | 800,711 |
| Iron forgings | 3 | 305,000 | 206 | ..... | ..... | 86,500 | 323,000 | 523,000 |
| Iron railing, wrought | 4 | 28,200 | 25 | ..... | 8 | 8,885 | 23,800 | 45,500 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF CLEVELAND, OHIO—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Iron work, architectural and ornamental (see also Foundery and machine-shop products). | 3 | $11,500 | 37 | ..... | ..... | $18,844 | $47,274 | $84,354 |
| Jewelry | 4 | 5,900 | 26 | ..... | ..... | 10,500 | 11,600 | 30,000 |
| Leather, curried | 4 | 47,000 | 19 | ..... | ..... | 8,200 | 159,608 | 178,500 |
| Leather, tanned | 4 | 68,000 | 32 | ..... | ..... | 14,850 | 143,700 | 181,800 |
| Lime | 4 | 44,600 | 45 | ..... | 4 | 19,100 | 35,750 | 63,500 |
| Liquors, malt | 23 | 1,286,200 | 328 | 1 | 1 | 162,345 | 699,666 | 1,249,502 |
| Lithographing (see also Printing and publishing) | 4 | 100,700 | 136 | 16 | 5 | 70,600 | 124,100 | 223,000 |
| Looking-glass and picture frames | 8 | 41,650 | 24 | 1 | 3 | 11,200 | 40,050 | 61,850 |
| Malt | 4 | 260,000 | 40 | ..... | 2 | 20,603 | 259,678 | 333,452 |
| Marble and stone work | 11 | 168,600 | 161 | ..... | 36 | 100,290 | 219,364 | 412,850 |
| Masonry, brick and stone | 5 | 20,700 | 168 | ..... | 2 | 63,000 | 93,750 | 187,000 |
| Mineral and soda waters | 4 | 21,500 | 25 | ..... | 4 | 9,230 | 12,950 | 43,000 |
| Models and patterns | 4 | 2,800 | 11 | ..... | ..... | 6,800 | 1,500 | 12,200 |
| Oil, lubricating | 5 | 655,850 | 122 | ..... | 6 | 56,123 | 850,102 | 1,103,714 |
| Painting and paperhanging | 24 | 47,420 | 139 | ..... | ..... | 58,267 | 59,590 | 160,366 |
| Paints (see also Varnish) | 10 | 423,500 | 207 | 12 | 15 | 113,214 | 801,334 | 1,202,480 |
| Patent medicines and compounds (see also Drugs and chemicals) | 3 | 6,700 | 5 | ..... | 1 | 2,400 | 9,006 | 14,311 |
| Photographing | 14 | 31,450 | 33 | 7 | 6 | 18,471 | 18,411 | 68,400 |
| Plumbing and gasfitting | 17 | 22,850 | 85 | ..... | 2 | 34,001 | 60,600 | 142,411 |
| Printing and publishing (see also Lithographing) | 11 | 693,300 | 392 | 18 | 16 | 258,590 | 236,947 | 666,500 |
| Pumps, not including steam pumps | 3 | 9,500 | 10 | ..... | ..... | 4,300 | 7,900 | 15,200 |
| Roofing and roofing materials | 4 | 61,000 | 41 | ..... | ..... | 19,292 | 113,000 | 169,000 |
| Saddlery and harness | 35 | 36,031 | 77 | ..... | 2 | 28,951 | 60,900 | 118,300 |
| Sash, doors, and blinds (see also Wood, turned and carved) | 15 | 406,314 | 489 | ..... | 11 | 202,703 | 533,035 | 857,687 |
| Sewing-machine cases | 5 | 36,000 | 275 | ..... | 22 | 108,600 | 126,000 | 255,600 |
| Shipbuilding | 12 | 167,100 | 282 | ..... | ..... | 144,200 | 301,250 | 510,550 |
| Shirts | 7 | 20,300 | 7 | 48 | ..... | 14,580 | 51,812 | 87,205 |
| Slaughtering and meat-packing, not including retail butchering | 12 | 447,000 | 388 | ..... | 28 | 192,892 | 4,886,771 | 5,427,938 |
| Soap and candles | 5 | 55,000 | 20 | ..... | 2 | 8,420 | 47,715 | 68,700 |
| Stencils and brands | 3 | 1,200 | 6 | ..... | ..... | 2,825 | 2,100 | 9,300 |
| Stereotyping and electrotyping | 3 | 4,150 | 6 | ..... | 1 | 3,400 | 1,000 | 8,500 |
| Tinware, copperware, and sheet-iron ware | 60 | 141,650 | 215 | 1 | 25 | 100,080 | 227,019 | 447,811 |
| Tobacco, cigars and cigarettes | 68 | 106,950 | 299 | 36 | 11 | 119,315 | 166,320 | 366,412 |
| Trunks and valises | 6 | 28,700 | 35 | 3 | 5 | 12,200 | 29,100 | 49,600 |
| Umbrellas and canes | 3 | 3,300 | 2 | 1 | 2 | 550 | 3,045 | 7,500 |
| Upholstering (see also Furniture) | 8 | 4,300 | 16 | 6 | 2 | 5,820 | 21,500 | 33,350 |
| Varnish (see also Paints) | 4 | 482,500 | 53 | ..... | ..... | 32,695 | 562,939 | 691,245 |
| Watch and clock repairing | 3 | 12,800 | 10 | 1 | 2 | 3,450 | 5,600 | 12,500 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 19 | 10,900 | 39 | ..... | ..... | 16,235 | 15,800 | 48,600 |
| Wirework | 4 | 118,500 | 78 | 2 | 25 | 3,175 | 200,500 | 287,000 |
| Wood, turned and carved (see also Sash, doors, and blinds) | 3 | 17,250 | 30 | ..... | 9 | 17,000 | 20,895 | 53,480 |
| Wooden ware | 3 | 108,500 | 140 | 10 | 58 | 52,550 | 158,000 | 232,500 |
| All other industries (*a*) | 73 | 3,609,921 | 3,052 | 428 | 488 | 1,007,679 | 5,052,410 | 7,316,707 |

*a* Embracing artificial limbs; awnings and tents; bags, other than paper; baking and yeast powders; baskets, rattan and willow ware; belting and hose, leather; belting and hose, rubber; billiard tables and materials; boxes, fancy and paper; carriage and wagon materials; clothing, women's; cordage and twine; dyeing and cleaning; electric lights; electroplating; fancy articles; fertilizers; files; foundery supplies; fruits and vegetables, canned and preserved; furs, dressed; gas and lamp fixtures; hand-stamps; ink; instruments, professional and scientific; iron nails and spikes, cut and wrought; iron pipe, wrought; lamps and reflectors; lead, bar, pipe, sheet, and shot; leather, dressed skins; liquors, distilled; lumber, planed; lumber, sawed; mantels, slate, marble, and marbleized; mattresses and spring beds; millstones; musical instruments, organs and materials; oil, lard; oil, linseed; paper; rubber and elastic goods; rules, ivory and wood; saws; screws; sewing machines and attachments; shoddy; show-cases; silk and silk goods; springs, steel, car, and carriage; surgical appliances; taxidermy; telegraph and telephone apparatus; tobacco, chewing, smoking, and snuff; tools; vinegar; wheelbarrows; wire; and woolen goods.

### CITY OF COLUMBUS, OHIO.

[Statistics collected under the direction of ISAAC W. TUCKER, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 316 | $5,379,401 | 4,935 | 289 | 266 | $1,961,394 | $5,534,496 | $9,646,670 |
| Blacksmithing (see also Wheelwrighting) | 20 | 5,855 | 20 | ..... | ..... | 6,515 | 8,455 | 26,675 |
| Bookbinding and blank-book making | 3 | 41,200 | 26 | 20 | 8 | 27,800 | 66,200 | 153,600 |
| Boots and shoes, including custom work and repairing | 25 | 61,250 | 102 | 17 | ..... | 51,383 | 77,105 | 159,637 |
| Brass castings | 3 | 13,200 | 31 | ..... | ..... | 13,420 | 54,250 | 115,000 |
| Bread and other bakery products | 10 | 49,653 | 51 | 5 | ..... | 25,241 | 142,193 | 198,395 |
| Brick and tile | 7 | 187,036 | 174 | ..... | 4 | 53,113 | 96,941 | 232,630 |
| Brooms and brushes | 8 | 31,500 | 45 | 4 | 6 | 20,714 | 60,004 | 99,572 |
| Carpentering | 12 | 26,650 | 83 | ..... | ..... | 36,784 | 98,676 | 191,747 |
| Carriage and wagon materials | 5 | 221,000 | 158 | ..... | ..... | 49,481 | 81,625 | 222,999 |
| Carriages and wagons (see also Wheelwrighting) | 10 | 393,000 | 555 | 2 | 40 | 248,722 | 598,376 | 1,008,179 |
| Clothing, men's | 3 | 23,000 | 80 | 20 | ..... | 11,560 | 56,053 | 86,458 |
| Confectionery | 4 | 6,400 | 4 | 3 | 3 | 4,430 | 20,447 | 33,800 |
| Dentistry, mechanical | 5 | 4,350 | 2 | ..... | ..... | 600 | 3,450 | 16,000 |
| Flouring- and grist-mill products | 3 | 15,000 | 2 | ..... | ..... | 804 | 27,429 | 31,161 |
| Foundery and machine-shop products | 16 | 376,500 | 376 | ..... | 6 | 142,965 | 283,231 | 446,350 |
| Furniture | 3 | 197,000 | 187 | 8 | 12 | 79,883 | 62,000 | 208,500 |
| Iron and steel | 3 | 800,000 | 504 | ..... | 26 | 177,008 | 734,794 | 1,149,525 |
| Liquors, malt | 4 | 510,000 | 149 | ..... | ..... | 67,459 | 290,895 | 519,529 |
| Lumber, planed | 9 | 213,100 | 119 | ..... | 15 | 56,940 | 317,245 | 445,500 |
| Marble and stone work | 11 | 34,750 | 59 | ..... | ..... | 19,954 | 28,500 | 70,925 |
| Painting and paperhanging | 14 | 4,625 | 39 | ..... | 1 | 19,000 | 16,043 | 55,848 |
| Photographing | 6 | 16,100 | 12 | 2 | ..... | 7,391 | 8,100 | 27,900 |
| Printing and publishing | 10 | 167,100 | 199 | 8 | 11 | 129,271 | 110,900 | 272,358 |
| Pumps, not including steam pumps | 4 | 3,800 | 8 | ..... | ..... | 3,050 | 2,750 | 10,780 |
| Saddlery and harness | 9 | 24,900 | 24 | ..... | ..... | 10,783 | 18,800 | 57,213 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF COLUMBUS, OHIO—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Shirts | 3 | $7,400 | ..... | 18 | ..... | $4,400 | $13,900 | $25,500 |
| Tinware, copperware, and sheet-iron ware | 22 | 89,300 | 103 | ..... | ..... | 40,012 | 75,875 | 161,975 |
| Tobacco, cigars and cigarettes | 19 | 46,645 | 131 | 6 | 18 | 43,831 | 79,766 | 188,030 |
| Vinegar | 3 | 4,300 | 3 | ..... | ..... | 2,750 | 7,888 | 18,100 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 6 | 7,250 | 8 | ..... | ..... | 2,801 | 2,050 | 8,499 |
| All other industries (a) | 56 | 1,798,537 | 1,681 | 176 | 116 | 603,329 | 2,140,965 | 3,404,249 |

a Embracing agricultural implements; baskets, rattan and willow ware; boxes, fancy and paper; carriages and sleds, children's; cars, railroad, street, and repairs; coffee and spices, roasted and ground; cooperage; cordage and twine; cutlery and edge tools; enameled goods; engraving and die-sinking; files; furniture, chairs; glass; hairwork; handles, wooden; hardware, saddlery; hosiery and knit goods; iron bolts, nuts, washers, and rivets; iron railing, wrought; iron work, architectural and ornamental; jewelry; leather, curried; leather, tanned; lime; lock- and gun-smithing; looking-glass and picture frames; masonry, brick and stone; mattresses and spring beds; mineral and soda waters; oil, lard; paper; paving materials; regalia and society banners and emblems; sash, doors, and blinds; saws; soap and candles; trunks and valises; watch and clock repairing; watches; window blinds and shades; wire; and wirework.

### CITY OF COVINGTON, KY.

[Statistics collected under the direction of J. M. BLACKBURN, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 181 | $3,182,141 | 2,251 | 223 | 451 | $1,033,463 | $3,935,727 | $5,864,530 |
| Blacksmithing | 8 | 14,700 | 27 | ..... | ..... | 10,878 | 6,500 | 24,200 |
| Boots and shoes, including custom work and repairing | 11 | 19,650 | 28 | 4 | ..... | 8,120 | 8,450 | 23,100 |
| Boxes, wooden, packing | 4 | 2,350 | 9 | ..... | 2 | 3,372 | 7,172 | 14,350 |
| Bread and other bakery products | 20 | 39,050 | 24 | 7 | 3 | 9,176 | 52,458 | 88,840 |
| Brick and tile | 9 | 6,200 | 73 | ..... | 21 | 14,650 | 15,100 | 40,795 |
| Carpentering | 8 | 12,750 | 29 | ..... | ..... | 14,486 | 66,400 | 93,600 |
| Carriages and wagons | 4 | 40,700 | 39 | ..... | ..... | 18,156 | 22,200 | 51,500 |
| Cooperage | 6 | 2,660 | 35 | ..... | ..... | 10,265 | 18,340 | 34,070 |
| Flouring- and grist-mill products | 5 | 73,000 | 33 | ..... | ..... | 12,433 | 223,224 | 246,312 |
| Furniture, chairs | 4 | 1,850 | 6 | ..... | 1 | 2,500 | 3,450 | 7,600 |
| Iron and steel | 3 | 730,000 | 533 | ..... | 32 | 281,925 | 663,705 | 1,012,004 |
| Iron railing, wrought | 3 | 7,500 | 26 | ..... | ..... | 8,200 | 10,560 | 25,480 |
| Leather, tanned | 3 | 37,000 | 39 | ..... | ..... | 15,900 | 301,106 | 330,150 |
| Liquors, distilled | 3 | 255,000 | 91 | ..... | 1 | 38,775 | 425,500 | 635,000 |
| Liquors, malt | 4 | 319,120 | 94 | ..... | ..... | 43,912 | 188,395 | 313,059 |
| Marble and stone work | 7 | 12,500 | 33 | ..... | ..... | 15,417 | 28,600 | 67,330 |
| Saddlery and harness | 4 | 13,500 | 20 | ..... | 1 | 7,600 | 14,700 | 27,421 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 30,500 | 10 | ..... | ..... | 5,384 | 98,900 | 111,000 |
| Tinware, copperware, and sheet-iron ware | 5 | 16,700 | 15 | 1 | ..... | 5,223 | 8,921 | 17,558 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 13 | 581,500 | 279 | 88 | 161 | 150,202 | 1,057,339 | 1,395,533 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 15 | 40,627 | 57 | 1 | 21 | 22,453 | 56,659 | 100,422 |
| All other industries (a) | 39 | 925,275 | 751 | 122 | 208 | 334,436 | 658,048 | 1,204,606 |

a Embracing agricultural implements; brooms and brushes; carpets, rag; clothing, men's; coffee and spices, roasted and ground; cordage and twine; foundery and machine-shop products; furniture; glass; grease and tallow; hardware; iron nails and spikes, cut and wrought; iron work, architectural and ornamental; leather, curried; lumber, planed; lumber, sawed; mineral and soda waters; painting and paperhanging; patent medicines and compounds; pickles, preserves, and sauces; pumps; shipbuilding; sporting goods; stationery goods; upholstering; vinegar; wirework; wood, turned and carved; and wool engoods.

### CITY OF DAVENPORT, IOWA.

[Statistics collected under the direction of JAMES R. GRAHAM, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 188 | $2,806,222 | 1,473 | 82 | 150 | $685,469 | $2,960,668 | $4,468,978 |
| Agricultural implements | 3 | 325,000 | 187 | ..... | ..... | 68,558 | 167,615 | 344,900 |
| Blacksmithing (see also Wheelwrighting) | 16 | 16,952 | 16 | ..... | 1 | 8,447 | 9,650 | 30,555 |
| Boots and shoes, including custom work and repairing | 14 | 41,440 | 33 | 1 | 3 | 15,894 | 18,580 | 52,230 |
| Bread and other bakery products | 7 | 97,700 | 39 | 2 | 1 | 17,105 | 95,610 | 132,915 |
| Brick and tile | 6 | 30,500 | 53 | ..... | 9 | 12,804 | 6,350 | 25,750 |
| Carpentering | 10 | 50,400 | 51 | ..... | 9 | 29,805 | 92,755 | 147,600 |
| Carriages and wagons (see also Wheelwrighting) | 4 | 35,870 | 35 | ..... | 1 | 23,400 | 26,383 | 65,500 |
| Clothing, men's | 13 | 110,900 | 82 | 30 | 1 | 62,068 | 109,759 | 209,378 |
| Confectionery | 3 | 19,650 | 7 | 5 | 1 | 4,320 | 55,800 | 78,000 |
| Cooperage | 4 | 16,700 | 33 | ..... | ..... | 12,050 | 29,590 | 47,642 |
| Flouring- and grist-mill products | 5 | 123,000 | 36 | ..... | ..... | 19,458 | 569,585 | 644,699 |
| Foundery and machine-shop products | 3 | 76,500 | 51 | ..... | 3 | 26,950 | 50,300 | 99,250 |
| Furniture | 5 | 110,500 | 91 | 1 | 2 | 40,212 | 61,732 | 124,650 |
| Liquors, malt | 4 | 205,000 | 62 | ..... | ..... | 24,135 | 103,590 | 178,370 |
| Lumber, sawed | 5 | 655,000 | 240 | ..... | 64 | 101,800 | 576,350 | 828,080 |
| Marble and stone work | 4 | 20,500 | 19 | ..... | 1 | 9,865 | 13,816 | 31,931 |
| Printing and publishing | 4 | 79,500 | 45 | 9 | 3 | 29,213 | 53,986 | 108,123 |
| Saddlery and harness | 9 | 16,200 | 21 | ..... | 2 | 8,645 | 19,317 | 38,585 |
| Sash, doors, and blinds | 3 | 135,000 | 83 | ..... | 25 | 40,240 | 252,182 | 333,475 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 285,000 | 49 | ..... | ..... | 7,310 | 266,559 | 273,634 |
| Tinware, copperware, and sheet-iron ware | 14 | 49,100 | 36 | ..... | ..... | 15,907 | 29,365 | 64,202 |
| Tobacco, cigars and cigarettes | 15 | 70,380 | 73 | 22 | 7 | 45,178 | 82,162 | 184,609 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 4 | 4,780 | 6 | ..... | 1 | 2,192 | 3,810 | 8,438 |
| All other industries (a) | 30 | 230,650 | 125 | 12 | 16 | 59,903 | 265,822 | 417,362 |

a Embracing bookbinding and blank-book making; boxes, wooden, packing; brass castings; brooms and brushes; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; cordage and twine; engraving, wood; hairwork; leather, curried; leather, tanned; lock- and gun-smithing; looking-glass and picture frames; malt; mineral and soda waters; models and patterns; painting and paperhanging; paints; paving materials; photographing; roofing and roofing materials; shirts; soap and candles; trunks and valises; vinegar; and window blinds and shades.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF DAYTON, OHIO.

[Statistics collected under the direction of J. H. THOMAS, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 495 | $6,063,334 | 5,071 | 513 | 441 | $2,293,630 | $6,434,225 | $11,985,483 |
| Agricultural implements | 12 | 914,000 | 577 | ..... | 20 | 212,613 | 468,536 | 1,187,204 |
| Blacksmithing (see also Wheelwrighting) | 15 | 12,100 | 36 | ..... | ..... | 15,780 | 9,400 | 47,330 |
| Bookbinding and blank-book making | 3 | 22,000 | 11 | 11 | 3 | 10,700 | 21,500 | 54,000 |
| Boots and shoes, including custom work and repairing | 52 | 11,975 | 72 | 5 | 2 | 35,108 | 30,663 | 95,208 |
| Bread and other bakery products | 20 | 101,025 | 64 | 2 | 6 | 26,975 | 163,349 | 229,110 |
| Carpentering | 37 | 139,050 | 240 | ..... | 4 | 120,701 | 300,222 | 642,591 |
| Carpets, rag | 4 | 925 | 4 | ..... | ..... | 1,250 | 1,650 | 3,750 |
| Carriages and wagons (see also Wheelwrighting) | 12 | 78,000 | 146 | ..... | 7 | 56,930 | 81,750 | 212,000 |
| Clothing, men's | 19 | 115,700 | 226 | 119 | 2 | 122,155 | 202,900 | 426,900 |
| Coffee and spices, roasted and ground | 4 | 18,700 | 18 | 4 | ..... | 10,495 | 86,300 | 112,675 |
| Confectionery | 10 | 17,100 | 29 | 22 | ..... | 10,343 | 78,190 | 114,500 |
| Cooperage | 9 | 26,450 | 51 | ..... | 1 | 17,670 | 46,447 | 81,151 |
| Flouring- and grist-mill products | 8 | 314,000 | 64 | ..... | ..... | 29,705 | 1,134,529 | 1,341,558 |
| Foundery and machine-shop products (see also Iron work, architectural and ornamental). | 16 | 785,000 | 697 | ..... | 36 | 299,739 | 484,852 | 1,062,887 |
| Furniture (see also Upholstering) | 14 | 151,850 | 136 | 3 | 12 | 55,490 | 89,150 | 217,554 |
| Iron work, architectural and ornamental (see also Foundery and machine-shop products). | 3 | 33,000 | 61 | ..... | ..... | 11,800 | 57,200 | 104,600 |
| Iron railing, wrought | 3 | 23,400 | 13 | ..... | 1 | 5,060 | 14,400 | 30,000 |
| Leather, curried | 4 | 31,000 | 18 | ..... | ..... | 6,340 | 75,030 | 96,275 |
| Leather, tanned | 4 | 19,500 | 8 | ..... | ..... | 3,740 | 49,434 | 63,025 |
| Liquors, malt | 8 | 133,428 | 49 | ..... | ..... | 25,139 | 108,690 | 194,021 |
| Lock- and gun-smithing | 3 | 1,300 | 6 | ..... | ..... | 2,500 | 1,750 | 5,600 |
| Looking-glass and picture frames | 4 | 34,200 | 5 | 1 | ..... | 2,676 | 13,800 | 26,000 |
| Marble and stone work | 6 | 21,800 | 32 | ..... | ..... | 13,280 | 17,100 | 45,100 |
| Masonry, brick and stone | 33 | 35,125 | 287 | ..... | 7 | 121,070 | 162,225 | 379,000 |
| Oil, linseed | 3 | 102,500 | 30 | ..... | ..... | 11,500 | 255,000 | 315,000 |
| Painting and paperhanging | 12 | 4,250 | 46 | ..... | ..... | 16,785 | 10,525 | 41,570 |
| Paper | 4 | 676,000 | 199 | 35 | 20 | 89,975 | 143,769 | 476,104 |
| Patent medicines and compounds | 4 | 3,700 | 3 | 1 | 2 | 1,145 | 7,700 | 23,750 |
| Plumbing and gasfitting | 6 | 38,300 | 47 | ..... | ..... | 23,118 | 61,211 | 105,012 |
| Printing and publishing | 10 | 244,600 | 133 | 55 | 22 | 97,885 | 126,018 | 332,624 |
| Pumps, not including steam pumps | 4 | 1,200 | 5 | ..... | 1 | 1,850 | 2,200 | 8,000 |
| Saddlery and harness | 11 | 41,350 | 72 | ..... | 5 | 31,500 | 63,050 | 133,460 |
| Slaughtering and meat-packing, not including retail butchering | 5 | 50,500 | 27 | ..... | 2 | 20,980 | 178,136 | 236,318 |
| Tinware, copperware, and sheet-iron ware | 18 | 27,000 | 70 | ..... | 2 | 31,525 | 37,350 | 93,025 |
| Tobacco, cigars and cigarettes | 28 | 71,900 | 144 | 57 | 25 | 74,387 | 91,060 | 296,976 |
| Upholstering (see also Furniture) | 4 | 17,300 | 8 | ..... | 2 | 4,460 | 15,700 | 20,300 |
| Watch and clock repairing | 8 | 5,525 | 16 | ..... | 1 | 9,330 | 5,235 | 22,370 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 6 | 5,900 | 17 | ..... | ..... | 5,780 | 5,950 | 19,610 |
| Window blinds and shades | 4 | 3,900 | 5 | 2 | ..... | 2,800 | 7,200 | 12,950 |
| All other industries (a) | 65 | 1,728,181 | 1,404 | 196 | 258 | 653,351 | 1,725,054 | 3,064,375 |

a Embracing awnings and tents; bagging, flax, hemp, and jute; bags, paper; baskets, rattan and willow ware; boxes, cigar; boxes, fancy and paper; brass castings; bridges; brooms and brushes; cars, railroad, street, and repairs; carriage and wagon materials; clothing, women's; cotton goods; cutlery and edge tools; drain and sewer pipe; dyeing and cleanings; electroplating; fancy articles; files; flax, dressed; hairwork; hardware; hats and caps; hosiery and knit goods; ink; kaolin and ground earths; lasts; liquors, distilled; lumber, sawed; malt; mineral and soda waters; models and patterns; musical instruments, organs and materials; oil, lard; paints; refrigerators; roofing and roofing materials; sash, doors, and blinds; saws; shirts; soap and candles; stationery goods; steam fittings and heating apparatus; stencils and brands; stone- and earthen-ware; tobacco, chewing, smoking, and snuff; toys and games; trunks and valises; umbrellas and canes; varnish; and woolen goods.

### CITY OF DENVER, COLO.

[Statistics collected under the direction of WILLIAM ODENHEIMER, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 259 | $2,301,850 | 2,550 | 264 | 130 | $1,574,438 | $5,715,215 | $9,367,749 |
| Blacksmithing | 14 | 31,400 | 66 | ..... | 5 | 37,400 | 31,600 | 98,900 |
| Boots and shoes, including custom work and repairing | 13 | 8,700 | 45 | ..... | 2 | 22,178 | 23,200 | 66,725 |
| Bread and other bakery products | 16 | 97,200 | 100 | 6 | 11 | 82,800 | 355,900 | 574,552 |
| Brick and tile | 24 | 104,800 | 441 | ..... | 24 | 118,710 | 92,808 | 286,028 |
| Carpentering | 26 | 80,800 | 227 | ..... | 1 | 210,220 | 546,600 | 964,000 |
| Carriages and wagons | 9 | 261,000 | 123 | ..... | 2 | 102,000 | 194,000 | 435,000 |
| Clothing, men's | 6 | 3,350 | 5 | 16 | ..... | 13,225 | 27,850 | 52,350 |
| Clothing, women's | 3 | 18,300 | ..... | 130 | 5 | 60,200 | 92,150 | 176,500 |
| Confectionery | 6 | 7,900 | 23 | 1 | 4 | 17,250 | 20,700 | 49,550 |
| Flouring- and grist-mill products | 7 | 162,000 | 85 | ..... | ..... | 44,486 | 926,112 | 1,124,442 |
| Foundery and machine-shop products | 10 | 176,500 | 249 | ..... | 10 | 157,420 | 426,130 | 771,522 |
| Furniture | 7 | 68,400 | 42 | 3 | 2 | 33,300 | 48,000 | 138,850 |
| Hairwork | 3 | 3,300 | ..... | 10 | ..... | 4,125 | 6,600 | 15,200 |
| Leather, curried | 3 | 16,700 | 13 | 1 | ..... | 8,500 | 53,250 | 90,550 |
| Leather, tanned | 3 | 16,700 | 13 | 1 | ..... | 9,000 | 38,300 | 55,800 |
| Liquors, malt | 6 | 281,500 | 70 | ..... | ..... | 32,065 | 119,470 | 217,710 |
| Lock- and gun-smithing | 3 | 2,600 | 11 | ..... | ..... | 3,700 | 2,200 | 10,500 |
| Marble and stone work | 5 | 19,500 | 62 | ..... | ..... | 23,600 | 21,750 | 61,500 |
| Mineral and soda waters | 3 | 6,100 | 9 | ..... | ..... | 6,500 | 14,750 | 32,675 |
| Printing and publishing | 4 | 181,000 | 156 | 12 | 19 | 135,050 | 95,300 | 305,500 |
| Saddlery and harness | 9 | 91,250 | 61 | 2 | 12 | 47,050 | 94,600 | 207,350 |
| Slaughtering and meat-packing, not including retail butchering | 4 | 49,000 | 35 | ..... | 5 | 15,900 | 536,920 | 590,945 |
| Tinware, copperware, and sheet-iron ware | 12 | 25,250 | 47 | ..... | 10 | 26,650 | 60,900 | 128,100 |
| Tobacco, cigars and cigarettes | 9 | 14,150 | 23 | 3 | ..... | 16,578 | 33,500 | 77,025 |
| Vinegar | 3 | 13,000 | 10 | ..... | 3 | 4,300 | 13,000 | 24,500 |
| Watch and clock repairing | 10 | 25,550 | 13 | ..... | 1 | 11,130 | 18,800 | 50,880 |
| All other industries (a) | 41 | 535,900 | 621 | 79 | 14 | 331,011 | 1,826,325 | 2,760,495 |

a Embracing awnings and tents; baking and yeast powders; brass castings; brooms and brushes; coffee and spices, roasted and ground; cutlery and edge tools; drugs and chemicals; dyeing and cleaning; flavoring extracts; fruits and vegetables, canned and preserved; furs, dressed; gloves and mittens; iron and steel; iron work, architectural and ornamental; jewelry and instrument cases; leather, dressed skins; lithographing; looking-glass and picture frames; lumber, planed; masonry, brick and stone; mattresses and spring beds; patent medicines and compounds; pickles, preserves, and sauces; plumbing and gasfitting; roofing and roofing materials; sash, doors, and blinds; soap and candles; stencils and brands; stereotyping and electrotyping; trunks and valises; upholstering; wheelwrighting; and whips.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF DES MOINES, IOWA.

[Statistics collected under the direction of J. P. BUSHNELL, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 155 | $1,463,250 | 1,211 | 71 | 96 | $667,699 | $2,810,396 | $4,220,709 |
| Agricultural implements | 3 | 55,000 | 18 | ..... | ..... | 8,000 | 14,200 | 46,200 |
| Blacksmithing (see also Wheelwrighting) | 5 | 3,300 | 8 | 1 | ..... | 4,700 | 5,100 | 14,560 |
| Boots and shoes, including custom work and repairing | 5 | 7,500 | 16 | ..... | ..... | 7,350 | 8,240 | 22,195 |
| Bread and other bakery products | 6 | 14,050 | 31 | 1 | ..... | 13,995 | 41,000 | 64,362 |
| Brick and tile | 3 | 12,700 | 80 | ..... | 12 | 21,000 | 12,375 | 42,000 |
| Carpentering | 5 | 17,000 | 52 | ..... | ..... | 28,900 | 94,500 | 142,750 |
| Carriages and wagons (see also Wheelwrighting) | 4 | 22,500 | 27 | ..... | ..... | 13,750 | 27,000 | 53,000 |
| Clothing, men's | 13 | 60,700 | 42 | 13 | ..... | 39,050 | 70,300 | 134,600 |
| Cooperage | 3 | 3,000 | 17 | ..... | ..... | 9,100 | 21,100 | 32,300 |
| Flouring- and grist-mill products | 7 | 142,500 | 40 | ..... | ..... | 13,105 | 204,380 | 239,295 |
| Foundery and machine-shop products | 8 | 94,000 | 75 | ..... | 4 | 46,702 | 50,823 | 151,848 |
| Furniture | 4 | 47,500 | 29 | ..... | 8 | 17,600 | 45,500 | 80,000 |
| Liquors, malt | 5 | 84,000 | 25 | ..... | ..... | 10,605 | 35,610 | 81,295 |
| Marble and stone work | 5 | 43,000 | 36 | 1 | ..... | 20,100 | 21,600 | 68,700 |
| Painting and paperhanging | 3 | 4,800 | 14 | ..... | ..... | 8,580 | 21,000 | 36,700 |
| Paving materials | 3 | 4,100 | 14 | ..... | ..... | 5,900 | 6,300 | 16,000 |
| Printing and publishing | 13 | 320,500 | 148 | 21 | 14 | 136,102 | 174,850 | 399,438 |
| Saddlery and harness | 4 | 5,100 | 16 | ..... | 1 | 6,200 | 24,000 | 39,000 |
| Tinware, copperware, and sheet-iron ware | 8 | 32,000 | 35 | ..... | ..... | 18,442 | 47,200 | 109,400 |
| Tobacco, cigars and cigarettes | 5 | 17,700 | 32 | 4 | 4 | 20,700 | 36,050 | 74,500 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 6 | 8,500 | 11 | ..... | ..... | 5,300 | 5,150 | 14,074 |
| All other industries (*a*) | 37 | 463,800 | 444 | 30 | 53 | 212,518 | 1,844,118 | 2,358,612 |

*a* Embracing bookbinding and blank-book making; boxes, cigar; brass castings; brooms and brushes; coffee and spices, roasted and ground; confectionery; corsets; engraving and die-sinking; files; glucose; hairwork; hardware; liquors, distilled; lithographing; looking-glass and picture frames; lumber, planed; lumber, sawed; oil, linseed; pumps; roofing and roofing materials; scales and balances; shirts; slaughtering and meat-packing; soap and candles; steam fittings and heating apparatus; stereotyping and electrotyping; stone- and earthen-ware; vinegar; wirework; and woolen goods.

### CITY OF DETROIT, MICH.

[Statistics collected under the direction of JAMES E. TAYON, Chief Special Agent. See note on page 370.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 919 | $15,594,470 | 12,477 | 2,430 | 1,203 | $6,306,460 | $18,150,995 | $30,181,416 |
| Baking and yeast powders | 6 | 38,000 | 33 | 10 | 3 | 17,596 | 84,800 | 141,600 |
| Baskets, rattan and willow ware | 6 | 11,100 | 18 | 9 | 7 | 12,570 | 9,325 | 29,000 |
| Blacksmithing (see also Wheelwrighting) | 39 | 43,575 | 80 | ..... | 3 | 37,064 | 33,300 | 109,350 |
| Boot and shoe uppers | 3 | 7,300 | 22 | 12 | 2 | 12,150 | 20,500 | 42,200 |
| Boots and shoes, including custom work and repairing | 60 | 331,700 | 529 | 54 | 29 | 317,100 | 605,450 | 1,066,025 |
| Boxes, cigar | 4 | 41,000 | 30 | 25 | 29 | 23,450 | 58,000 | 103,000 |
| Boxes, fancy and paper | 3 | 5,900 | 6 | 30 | 1 | 10,160 | 34,500 | 58,000 |
| Boxes, wooden, packing | 6 | 32,600 | 149 | ..... | 17 | 54,000 | 145,500 | 236,800 |
| Bread and other bakery products | 47 | 225,400 | 229 | 12 | 35 | 146,580 | 656,389 | 930,157 |
| Brooms and brushes | 10 | 39,400 | 55 | 19 | 44 | 32,409 | 72,060 | 127,538 |
| Carpentering | 30 | 272,000 | 669 | ..... | 8 | 254,230 | 580,495 | 955,195 |
| Carriages and wagons (see also Wheelwrighting) | 23 | 209,000 | 285 | 2 | 8 | 127,945 | 174,000 | 400,220 |
| Clothing, men's | 31 | 963,500 | 273 | 707 | ..... | 380,926 | 1,364,016 | 2,056,182 |
| Clothing, women's | 3 | 12,800 | ..... | 44 | ..... | 9,280 | 8,300 | 24,100 |
| Coffee and spices, roasted and ground | 3 | 55,000 | 27 | 6 | 1 | 16,950 | 100,000 | 145,000 |
| Confectionery | 8 | 207,200 | 93 | 72 | 5 | 63,800 | 467,400 | 584,200 |
| Cooperage | 20 | 118,300 | 183 | ..... | 13 | 69,500 | 146,650 | 266,400 |
| Corsets | 4 | 46,800 | 20 | 115 | 16 | 41,450 | 111,100 | 208,500 |
| Cutlery and edge tools (see also Hardware) | 4 | 9,000 | 14 | ..... | 2 | 7,920 | 5,270 | 20,500 |
| Dentistry, mechanical | 5 | 9,000 | 7 | 2 | 1 | 4,700 | 11,000 | 27,500 |
| Dyeing and cleaning | 6 | 16,200 | 10 | 14 | ..... | 9,228 | 5,700 | 22,100 |
| Flouring- and grist-mill products | 14 | 407,000 | 123 | ..... | ..... | 62,705 | 1,488,752 | 1,649,627 |
| Foundery and machine-shop products | 24 | 1,262,050 | 960 | ..... | 64 | 491,065 | 915,955 | 1,808,355 |
| Furniture (see also Upholstering) | 32 | 243,800 | 264 | 18 | 78 | 119,620 | 229,002 | 438,801 |
| Hairwork | 4 | 6,200 | ..... | 19 | ..... | 5,120 | 5,000 | 15,800 |
| Hardware (see also Cutlery and edge tools) | 3 | 27,000 | 55 | ..... | 7 | 18,142 | 20,300 | 49,000 |
| Hats and caps, not including wool hats | 6 | 298,000 | 100 | 133 | 1 | 73,009 | 129,400 | 293,500 |
| Instruments, professional and scientific | 3 | 12,500 | 10 | ..... | ..... | 4,880 | 4,470 | 14,540 |
| Iron and steel | 7 | 1,547,386 | 1,088 | ..... | 7 | 436,986 | 1,872,407 | 2,498,634 |
| Jewelry | 9 | 89,302 | 56 | ..... | 4 | 40,499 | 58,251 | 135,600 |
| Leather, curried | 7 | 104,336 | 34 | ..... | ..... | 16,088 | 233,975 | 284,118 |
| Leather, tanned | 10 | 408,664 | 139 | 2 | ..... | 56,493 | 465,526 | 629,096 |
| Lime | 4 | 95,500 | 80 | ..... | ..... | 10,440 | 18,733 | 37,555 |
| Liquors, malt | 28 | 1,205,126 | 299 | 4 | 1 | 149,677 | 640,768 | 1,143,601 |
| Lock- and gun-smithing | 6 | 4,500 | 10 | ..... | ..... | 4,200 | 1,850 | 13,300 |
| Looking-glass and picture frames | 13 | 252,050 | 266 | 74 | 60 | 126,472 | 217,797 | 462,669 |
| Marble and stone work | 16 | 110,100 | 173 | ..... | 9 | 109,446 | 100,300 | 348,200 |
| Models and patterns | 3 | 3,800 | 4 | ..... | 1 | 2,130 | 1,475 | 6,400 |
| Painting and paperhanging | 23 | 88,900 | 315 | ..... | 10 | 136,235 | 194,229 | 384,930 |
| Patent medicines and compounds | 5 | 48,000 | 28 | 36 | 6 | 16,920 | 25,000 | 87,000 |
| Perfumery and cosmetics | 4 | 25,500 | 20 | 9 | 5 | 12,000 | 42,000 | 94,000 |
| Photographing | 16 | 40,550 | 35 | 11 | 3 | 19,892 | 24,860 | 74,600 |
| Plumbing and gasfitting | 16 | 136,200 | 183 | ..... | 3 | 93,861 | 173,897 | 359,954 |
| Printing and publishing | 39 | 866,050 | 677 | 78 | 57 | 373,262 | 301,359 | 986,098 |
| Roofing and roofing materials | 5 | 30,000 | 65 | ..... | 4 | 25,700 | 60,500 | 108,200 |
| Saddlery and harness | 28 | 39,100 | 70 | 1 | 6 | 33,415 | 51,100 | 120,700 |
| Sash, doors, and blinds (see also Wood, turned and carved) | 15 | 261,000 | 338 | ..... | 68 | 148,525 | 278,850 | 553,000 |
| Shipbuilding | 16 | 187,200 | 756 | ..... | ..... | 310,605 | 364,262 | 738,975 |
| Shirts | 5 | 4,700 | 18 | 30 | 1 | 12,860 | 15,800 | 36,420 |
| Slaughtering and meat-packing, not including retail butchering | 7 | 485,000 | 137 | ..... | 10 | 79,067 | 1,413,426 | 1,721,231 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF DETROIT, MICH.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Spectacles and eyeglasses | 3 | $45,000 | 53 | 5 | 19 | $23,400 | $24,500 | $71,000 |
| Stencils and brands | 6 | 9,200 | 18 | ..... | ..... | 10,750 | 10,500 | 34,100 |
| Tinware, copperware, and sheet-iron ware | 47 | 108,650 | 142 | ..... | 24 | 68,781 | 100,725 | 232,700 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 5 | 495,000 | 138 | 125 | 80 | 100,725 | 719,554 | 1,212,146 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 58 | 453,700 | 723 | 102 | 74 | 310,828 | 572,080 | 1,190,870 |
| Trunks and valises | 3 | 35,500 | 78 | ..... | 12 | 44,142 | 82,758 | 145,000 |
| Upholstering (see also Furniture) | 5 | 52,200 | 67 | 5 | 9 | 28,115 | 112,400 | 172,400 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 15 | 12,300 | 32 | ..... | 3 | 13,670 | 10,150 | 36,300 |
| Wirework | 4 | 87,000 | 135 | 10 | 22 | 69,900 | 97,500 | 192,500 |
| Wood, turned and carved (see also Sash, doors, and blinds) | 11 | 15,550 | 31 | ..... | 3 | 14,300 | 13,850 | 40,849 |
| Wooden ware | 5 | 273,000 | 243 | 25 | 6 | 67,680 | 131,500 | 226,050 |
| All other industries (*a*) | 59 | 2,842,496 | 1,337 | 550 | 327 | 971,185 | 2,222,470 | 3,971,730 |

*a* Embracing artificial limbs; billiard tables and materials; boot and shoe findings; brass castings; brick and tile; bridges; carpets, rag; carriages and sleds, children's; cars, railroad, street, and repairs; combs; drugs and chemicals; files; fruits and vegetables, canned and preserved; furniture, chairs; furs, dressed; gas machines and meters; gloves and mittens; hosiery and knit goods; ink; lasts; lumber, sawed; masonry, brick and stone; matches; musical instruments, organs and materials; musical instruments, pianos and materials; needles and pins; oil, lubricating; pens, gold; pickles, preserves, and sauces; pipes, tobacco; refrigerators; regalia and society banners and emblems; safes, doors, and vaults, fire-proof; saws; scales and balances; show-cases; stone- and earthen-ware; telegraph and telephone apparatus; umbrellas and canes; varnish; whips; and window blinds and shades.

### CITY OF DUBUQUE, IOWA.

[Statistics collected under the direction of ABRAM S. BUNTING, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 346 | $3,446,866 | 2,619 | 292 | 92 | $1,339,730 | $3,837,846 | $6,323,889 |
| Blacksmithing (see also Wheelwrighting) | 8 | 6,750 | 24 | ..... | ..... | 12,250 | 4,525 | 23,880 |
| Bookbinding and blank-book making | 4 | 17,750 | 15 | 3 | 6 | 9,100 | 8,600 | 24,300 |
| Boots and shoes, including custom work and repairing | 34 | 41,475 | 80 | 4 | 1 | 38,900 | 64,825 | 128,100 |
| Bread and other bakery products | 15 | 55,135 | 51 | 9 | 3 | 26,558 | 92,107 | 149,004 |
| Brick and tile | 8 | 12,600 | 84 | ..... | ..... | 16,900 | 9,562 | 35,300 |
| Carpentering | 26 | 28,200 | 339 | ..... | ..... | 161,277 | 149,100 | 355,550 |
| Carpets, rag | 7 | 480 | 8 | 1 | ..... | 3,700 | 4,450 | 14,000 |
| Carriages and wagons (see also Wheelwrighting) | 9 | 532,900 | 283 | ..... | ..... | 150,050 | 324,250 | 627,000 |
| Clothing, men's | 18 | 241,150 | 71 | 188 | 1 | 66,500 | 254,875 | 403,000 |
| Cooperage | 10 | 58,150 | 109 | ..... | 3 | 55,750 | 70,030 | 168,050 |
| Dentistry, mechanical | 6 | 5,900 | 10 | ..... | ..... | 9,300 | 2,675 | 16,430 |
| Flouring- and grist-mill products | 4 | 30,000 | 14 | ..... | ..... | 5,030 | 69,740 | 83,257 |
| Foundery and machine-shop products (see also Steam fittings and heating apparatus). | 4 | 157,500 | 109 | ..... | ..... | 57,500 | 86,960 | 181,320 |
| Furniture | 6 | 87,500 | 159 | ..... | 1 | 70,250 | 100,600 | 219,000 |
| Hairwork | 3 | 3,700 | 2 | 9 | 2 | 3,100 | 6,750 | 12,300 |
| Liquors, malt | 6 | 265,000 | 63 | ..... | ..... | 26,975 | 110,182 | 211,125 |
| Lock- and gun-smithing | 6 | 2,500 | 5 | ..... | ..... | 2,900 | 650 | 6,204 |
| Looking-glass and picture frames | 4 | 4,000 | 10 | ..... | ..... | 4,750 | 7,000 | 17,500 |
| Lumber, sawed | 4 | 295,000 | 160 | ..... | 23 | 53,000 | 212,200 | 345,000 |
| Marble and stone work | 7 | 7,650 | 28 | ..... | ..... | 15,450 | 13,200 | 37,058 |
| Masonry, brick and stone | 19 | 3,396 | 107 | ..... | ..... | 43,210 | 52,775 | 121,450 |
| Painting and paperhanging | 11 | 6,950 | 47 | ..... | 2 | 24,250 | 15,150 | 50,900 |
| Photographing | 7 | 5,500 | 12 | 7 | 1 | 9,490 | 2,045 | 17,100 |
| Printing and publishing | 8 | 111,800 | 74 | 8 | 9 | 56,252 | 38,300 | 137,475 |
| Saddlery and harness | 7 | 63,300 | 36 | ..... | ..... | 18,124 | 42,500 | 78,227 |
| Sash, doors, and blinds | 3 | 114,000 | 71 | ..... | 15 | 50,000 | 191,000 | 284,000 |
| Slaughtering and meat-packing, not including retail butchering | 5 | 183,000 | 133 | ..... | 1 | 86,500 | 1,237,400 | 1,379,000 |
| Steam fittings and heating apparatus (see also Foundery and machine-shop products). | 3 | 50,400 | 61 | ..... | ..... | 37,000 | 36,000 | 90,800 |
| Tinware, copperware, and sheet-iron ware | 16 | 21,850 | 44 | ..... | ..... | 22,250 | 28,250 | 74,100 |
| Tobacco, cigars and cigarettes | 10 | 9,600 | 34 | ..... | 1 | 14,822 | 18,275 | 45,750 |
| Vinegar | 3 | 53,000 | 24 | ..... | ..... | 12,350 | 35,535 | 80,650 |
| Watch and clock repairing | 10 | 6,050 | 18 | ..... | ..... | 11,900 | 2,770 | 24,800 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 10 | 5,600 | 29 | ..... | ..... | 12,500 | 9,450 | 34,100 |
| All other industries (*a*) | 45 | 959,080 | 305 | 63 | 23 | 151,842 | 535,565 | 843,393 |

*a* Embracing agricultural implements; awnings and tents; bags, paper; baskets, rattan and willow ware; bellows; boxes, paper; brass ware; bridges; brooms and brushes; carriage and wagon materials; clothing, women's; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; confectionery; dyeing and cleaning; files; furs, dressed; hats and caps; iron work, architectural and ornamental; lead, bar, pipe, sheet, and shot; lightning rods; lime; liquors, vinous; mattresses and spring beds; mineral and soda waters; models and patterns; roofing and roofing materials; shipbuilding; shirts; show-cases; soap and candles; tobacco, chewing, smoking, and snuff; trunks and valises; upholstering; wirework; and wooden ware.

### CITY OF ELIZABETH, N. J.

[Statistics collected under the direction of J. F. WILEY, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 149 | $2,453,180 | 3,151 | 216 | 482 | $1,740,456 | $2,915,851 | $6,828,027 |
| Blacksmithing (see also Wheelwrighting) | 10 | 12,200 | 25 | ..... | ..... | 10,820 | 14,000 | 33,600 |
| Boots and shoes, including custom work and repairing | 3 | 26,000 | 23 | 7 | ..... | 17,420 | 36,660 | 63,800 |
| Bread and other bakery products | 19 | 31,050 | 50 | 1 | ..... | 20,528 | 99,095 | 150,000 |
| Brick and tile | 3 | 75,000 | 98 | ..... | 1 | 44,000 | 70,500 | 138,000 |
| Carpentering | 5 | 11,800 | 48 | ..... | ..... | 20,425 | 56,500 | 97,000 |
| Carriages and wagons (see also Wheelwrighting) | 3 | 2,500 | 10 | ..... | ..... | 3,940 | 6,800 | 16,000 |
| Clothing, men's | 6 | 16,300 | 23 | 13 | 2 | 13,100 | 24,700 | 51,000 |
| Coke | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Confectionery | 3 | 26,300 | 9 | 5 | 1 | 5,450 | 57,000 | 87,600 |
| Dyeing and cleaning | 3 | 3,800 | 7 | 3 | ..... | 2,400 | 1,950 | 6,750 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF ELIZABETH, N. J.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Foundery and machine-shop products | 3 | $105,000 | 152 | ..... | 10 | $90,000 | $110,000 | $248,000 |
| Kindling wood | 4 | 4,450 | 5 | ..... | 1 | 1,660 | 3,410 | 9,000 |
| Painting and paperhanging | 7 | 12,700 | 32 | 2 | ..... | 15,450 | 28,100 | 81,500 |
| Photographing | 3 | 5,900 | 4 | ..... | ..... | 2,630 | 2,900 | 9,500 |
| Plumbing and gasfitting | 6 | 24,400 | 39 | ..... | ..... | 16,000 | 28,500 | 55,300 |
| Printing and publishing | 5 | 41,600 | 53 | ..... | 11 | 29,580 | 34,700 | 73,600 |
| Tobacco, cigars and cigarettes | 13 | 15,350 | 19 | ..... | 3 | 8,100 | 22,830 | 43,850 |
| Upholstering | 4 | 8,000 | 9 | ..... | ..... | 4,850 | 12,200 | 21,200 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 3 | 800 | 3 | ..... | ..... | 800 | 1,200 | 3,500 |
| All other industries (*a*) | 46 | 2,030,030 | 2,542 | 185 | 453 | 1,433,303 | 2,304,806 | 5,637,327 |

*a* Embracing clothing, women's; combs; cordage and twine; cutlery and edge tools; drugs and chemicals; fancy articles; fertilizers; flouring- and grist-mill products; hardware, saddlery; instruments, professional and scientific; iron and steel; lamps and reflectors; leather, curried; leather, tanned; liquors, malt; lumber, sawed; marble and stone work; masonry, brick and stone; mineral and soda waters; musical instruments and materials (not specified); oilcloth, floor; patent medicines and compounds; paving materials; roofing and roofing materials; rubber and elastic goods; saddlery and harness; sash, doors, and blinds; saws; sewing machines and attachments; shipbuilding; spectacles and eyeglasses; stone- and earthen-ware; straw goods; tinware, copperware, and sheet-iron ware; umbrella and canes; and wood, turned and carved.

### CITY OF ELMIRA, N. Y.

[Statistics collected under the direction of E. B. PICKERING, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 263 | $2,698,762 | 2,283 | 324 | 121 | $1,024,161 | $3,132,115 | $4,877,300 |
| Blacksmithing (see also Wheelwrighting) | 14 | 20,400 | 19 | ..... | ..... | 7,470 | 6,317 | 24,895 |
| Boots and shoes, including custom work and repairing | 25 | 364,625 | 396 | 75 | 16 | 205,857 | 469,101 | 760,425 |
| Bread and other bakery products | 6 | 5,200 | 6 | 2 | 1 | 3,525 | 12,700 | 20,060 |
| Carpentering | 30 | 20,050 | 92 | ..... | 2 | 41,561 | 70,606 | 135,047 |
| Carriages and wagons (see also Wheelwrighting) | 6 | 162,300 | 59 | ..... | ..... | 29,060 | 40,800 | 86,200 |
| Clothing, men's | 8 | 135,000 | 82 | 127 | 3 | 63,070 | 170,212 | 260,250 |
| Cooperage | 5 | 5,800 | 11 | ..... | ..... | 4,197 | 4,925 | 11,900 |
| Flouring- and grist-mill products | 5 | 52,000 | 19 | ..... | ..... | 8,414 | 105,790 | 124,710 |
| Foundery and machine-shop products | 3 | 46,500 | 31 | ..... | 1 | 12,391 | 27,245 | 52,365 |
| Furniture | 4 | 98,000 | 68 | 2 | 3 | 37,140 | 63,200 | 167,000 |
| Leather, tanned | 4 | 205,000 | 69 | ..... | ..... | 25,900 | 450,852 | 540,600 |
| Liquors, malt | 3 | 189,922 | 18 | ..... | ..... | 7,664 | 38,959 | 69,506 |
| Lumber, planed | 6 | 170,000 | 39 | ..... | ..... | 13,312 | 170,000 | 207,900 |
| Marble and stone work | 9 | 81,150 | 52 | 2 | ..... | 21,393 | 52,613 | 95,998 |
| Masonry, brick and stone | 10 | 8,500 | 86 | ..... | ..... | 42,700 | 49,218 | 113,169 |
| Painting and paperhanging | 22 | 16,375 | 76 | ..... | 2 | 25,692 | 27,840 | 73,750 |
| Photographing | 6 | 17,800 | 3 | 2 | 2 | 2,318 | 3,903 | 13,739 |
| Plumbing and gasfitting | 4 | 32,000 | 23 | ..... | ..... | 13,155 | 42,000 | 75,000 |
| Printing and publishing | 6 | 140,000 | 120 | 5 | 41 | 60,100 | 38,662 | 138,908 |
| Pumps, not including steam pumps | 3 | 11,000 | 8 | ..... | 1 | 2,375 | 8,200 | 13,000 |
| Saddlery and harness | 7 | 21,600 | 31 | ..... | ..... | 15,201 | 21,078 | 44,320 |
| Tinware, copperware, and sheet-iron ware | 12 | 40,600 | 110 | 56 | 4 | 45,889 | 67,768 | 131,900 |
| Tobacco, cigars and cigarettes | 22 | 69,850 | 117 | 10 | 14 | 43,817 | 112,822 | 211,000 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 6 | 4,150 | 7 | ..... | 1 | 3,000 | 2,600 | 9,940 |
| All other industries (*a*) | 37 | 830,940 | 741 | 43 | 30 | 279,404 | 1,074,614 | 1,495,718 |

*a* Embracing agricultural implements; boxes, cigar; brick and tile; brooms and brushes; carpets, wood; confectionery; cutlery and edge tools; dentistry, mechanical; drain and sewer pipe; files; iron and steel; leather, curried; lime; looking-glass and picture frames; lumber, sawed; mattresses and spring beds; mineral and soda waters; mixed textiles; musical instruments, organs and materials; musical instruments, pianos and materials; roofing and roofing materials; sash, doors, and blinds; saws; show-cases; soap and candles; upholstering; vinegar; wirework; and woolen goods.

### CITY OF ERIE, PA.

[Statistics collected under the direction of JOSEPH R. STERRETT, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 167 | $4,730,503 | 3,284 | 207 | 276 | $1,518,085 | $4,879,319 | $7,683,356 |
| Blacksmithing | 8 | 6,800 | 14 | ..... | ..... | 7,471 | 6,700 | 21,440 |
| Boots and shoes, including custom work and repairing | 6 | 77,700 | 86 | 16 | 8 | 54,397 | 91,817 | 161,867 |
| Bread and other bakery products | 4 | 33,000 | 14 | ..... | 2 | 9,300 | 29,870 | 60,026 |
| Carpentering | 14 | 51,900 | 124 | ..... | 2 | 56,485 | 137,725 | 227,794 |
| Clothing, men's | 6 | 113,000 | 91 | 126 | ..... | 57,120 | 136,000 | 225,740 |
| Flouring- and grist-mill products | 4 | 201,000 | 42 | ..... | ..... | 25,050 | 688,050 | 809,800 |
| Foundery and machine-shop products | 14 | 1,258,453 | 1,182 | ..... | 60 | 515,682 | 1,410,872 | 2,291,529 |
| Furniture | 4 | 60,500 | 43 | ..... | 1 | 17,800 | 27,300 | 72,900 |
| Liquors, malt | 5 | 187,000 | 43 | ..... | ..... | 20,950 | 107,500 | 195,500 |
| Lumber, planed (see also Sash, doors, and blinds) | 3 | 300,000 | 66 | ..... | 4 | 25,659 | 117,200 | 185,000 |
| Malt | 3 | 158,000 | 47 | ..... | ..... | 14,829 | 199,631 | 255,588 |
| Painting and paperhanging | 5 | 3,400 | 32 | ..... | ..... | 10,916 | 10,800 | 27,265 |
| Plumbing and gasfitting | 4 | 10,800 | 20 | ..... | ..... | 8,373 | 13,335 | 25,966 |
| Printing and publishing | 10 | 156,800 | 94 | 17 | 51 | 59,520 | 76,700 | 178,350 |
| Pumps, not including steam pumps | 4 | 37,500 | 18 | ..... | ..... | 7,240 | 15,289 | 29,501 |
| Saddlery and harness | 4 | 30,000 | 14 | ..... | ..... | 6,860 | 23,500 | 37,500 |
| Sash, doors, and blinds (see also Lumber, planed) | 5 | 88,000 | 50 | ..... | 1 | 28,360 | 39,578 | 78,760 |
| Tinware, copperware, and sheet-iron ware | 7 | 26,000 | 23 | ..... | ..... | 16,361 | 18,900 | 46,300 |
| Tobacco, cigars and cigarettes | 10 | 28,100 | 24 | 2 | 6 | 10,874 | 14,476 | 44,895 |
| All other industries (*a*) | 47 | 1,902,550 | 1,252 | 46 | 141 | 569,888 | 1,714,076 | 2,712,635 |

*a* Embracing brass castings; brick and tile; carriage and wagon materials; carriages and sleds, children's; carriages and wagons; cars, railroad, street, and repairs; clothing, women's; coffee and spices, roasted and ground; confectionery; cooperage; electroplating; glue; iron and steel; iron forgings; leather, curried; leather, tanned; lime; lumber, sawed; marble and stone work; matches; mattresses and spring beds; musical instruments and materials (not specified); photographing; roofing and roofing materials; scales and balances; shipbuilding; show-cases; soap and candles; springs, steel, car, and carriage; stone- and earthenware; washing-machines and clothes-wringers; wheelwrighting; wirework; wooden ware; and wood, turned and carved.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF EVANSVILLE, IND.

[Statistics collected under the direction of CHARLES H. MCCARER, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 313 | $4,733,815 | 2,945 | 337 | 387 | $1,365,006 | $4,972,690 | $8,091,914 |
| Agricultural implements | 5 | 266,414 | 111 | ..... | 7 | 53,516 | 103,481 | 233,929 |
| Blacksmithing (see also Wheelwrighting) | 18 | 17,250 | 27 | ..... | ..... | 8,501 | 9,960 | 32,130 |
| Boots and shoes, including custom work and repairing | 55 | 26,050 | 72 | 11 | 2 | 37,314 | 61,331 | 137,260 |
| Bread and other bakery products | 16 | 30,300 | 26 | 1 | 6 | 10,107 | 58,056 | 86,731 |
| Brick and tile | 4 | 43,000 | 45 | ..... | 8 | 14,250 | 8,100 | 30,100 |
| Brooms and brushes | 3 | 7,000 | 21 | 2 | 5 | 7,670 | 18,900 | 37,000 |
| Carpentering | 5 | 6,850 | 20 | ..... | ..... | 8,803 | 10,382 | 25,438 |
| Carriages and wagons (see also Wheelwrighting) | 6 | 67,500 | 46 | ..... | 1 | 20,900 | 35,550 | 79,300 |
| Confectionery | 4 | 6,150 | 5 | 3 | 5 | 4,052 | 25,850 | 33,680 |
| Cooperage | 12 | 102,500 | 167 | ..... | 7 | 69,421 | 76,150 | 198,310 |
| Flouring- and grist-mill products | 12 | 337,800 | 91 | ..... | ..... | 48,342 | 1,167,400 | 1,348,215 |
| Foundery and machine-shop products | 12 | 823,253 | 330 | ..... | 8 | 166,440 | 349,418 | 734,458 |
| Furniture (see also Mattresses and spring beds) | 5 | 303,000 | 292 | 1 | 99 | 151,714 | 223,609 | 467,000 |
| Furniture, chairs | 4 | 119,200 | 117 | 24 | 42 | 46,120 | 38,052 | 113,496 |
| Leather, curried | 4 | 82,001 | 33 | ..... | ..... | 13,344 | 170,455 | 214,950 |
| Leather, tanned | 4 | 63,999 | 28 | ..... | ..... | 11,965 | 137,022 | 168,000 |
| Lumber, planed | 5 | 104,521 | 127 | ..... | 3 | 60,774 | 190,520 | 338,178 |
| Lumber, sawed | 10 | 580,350 | 376 | ..... | 25 | 134,048 | 633,050 | 958,405 |
| Marble and stone work | 7 | 35,827 | 55 | ..... | 4 | 27,317 | 35,803 | 82,573 |
| Mattresses and spring beds (see also Furniture) | 3 | 13,000 | 8 | 5 | ..... | 3,000 | 5,550 | 14,300 |
| Painting and paperhanging | 11 | 6,300 | 34 | ..... | ..... | 13,443 | 14,450 | 46,400 |
| Patent medicines and compounds | 3 | 11,500 | 3 | 1 | 1 | 1,700 | 11,500 | 25,000 |
| Printing and publishing | 6 | 125,500 | 127 | 5 | 21 | 75,290 | 32,901 | 146,735 |
| Saddlery and harness | 17 | 134,400 | 122 | ..... | 16 | 55,028 | 178,400 | 287,260 |
| Shipbuilding | 8 | 16,650 | 28 | ..... | ..... | 15,770 | 40,070 | 60,955 |
| Slaughtering and meat-packing, not including retail butchering | 4 | 199,000 | 75 | ..... | ..... | 11,000 | 324,623 | 346,278 |
| Stone- and earthen-ware | 3 | 13,300 | 14 | ..... | 1 | 5,800 | 2,850 | 14,900 |
| Tinware, copperware, and sheet-iron ware | 16 | 120,550 | 128 | ..... | 12 | 62,224 | 105,760 | 254,131 |
| Tobacco, cigars and cigarettes | 16 | 26,400 | 60 | ..... | 9 | 24,253 | 29,462 | 79,043 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 11 | 15,150 | 14 | ..... | 2 | 4,948 | 5,450 | 17,700 |
| All other industries (a) | 44 | 1,029,100 | 343 | 284 | 103 | 197,352 | 867,079 | 1,480,959 |

a Embracing bags, other than paper; baking and yeast powders; bookbinding and blank-book making; boxes, cigar; brass castings; clothing, men's; coffins, burial cases, and undertakers' goods; cotton goods; drain and sewer pipe; files; hats and caps; iron and steel; liquors, malt; liquors, vinous; lock- and gun-smithing; malt; mantles, slate, marble, and marbleized; mineral and soda waters; mixed textiles; models and patterns; musical instruments, organs and materials; paper; plumbing and gasfitting; pumps; safes, doors, and vaults, fire-proof; shirts; stencils and brands; tobacco, chewing, smoking, and snuff; trunks and valises; umbrellas and canes; vinegar; watch and clock repairing; wooden ware; and woolen goods.

### CITY OF FALL RIVER, MASS.

[Statistics collected under the direction of WILLIAM J. BURT, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 258 | $25,076,518 | 8,232 | 6,723 | 2,130 | $4,659,077 | $10,552,192 | $18,913,584 |
| Blacksmithing | 20 | 30,970 | 70 | ..... | 4 | 20,552 | 23,550 | 80,000 |
| Boots and shoes, including custom work and repairing | 20 | 3,950 | 23 | ..... | ..... | 8,733 | 6,730 | 20,928 |
| Bread and other bakery products | 10 | 10,500 | 24 | 4 | ..... | 11,874 | 13,500 | 33,000 |
| Carpentering | 15 | 15,050 | 188 | ..... | ..... | 54,861 | 178,250 | 254,750 |
| Carriages and wagons | 6 | 18,400 | 35 | ..... | ..... | 8,900 | 17,700 | 40,700 |
| Clothing, men's | 10 | 30,500 | 17 | 28 | ..... | 16,300 | 27,700 | 65,500 |
| Coffins, burial cases, and undertakers' goods | 5 | 20,000 | 10 | ..... | ..... | 6,000 | 30,000 | 50,000 |
| Cotton goods | 33 | 22,707,043 | 5,677 | 6,462 | 1,988 | 3,705,420 | 8,110,786 | 14,510,007 |
| Dentistry, mechanical | 5 | 8,500 | 9 | ..... | ..... | 4,500 | 9,000 | 24,000 |
| Foundery and machine-shop products | 17 | 284,255 | 334 | 38 | 3 | 132,403 | 166,897 | 303,707 |
| Liquors, malt | 3 | 121,000 | 58 | ..... | ..... | 27,670 | 139,850 | 234,184 |
| Lumber, planed | 3 | 10,100 | 17 | ..... | ..... | 5,160 | 2,200 | 11,500 |
| Masonry, brick and stone | 5 | 5,400 | 148 | ..... | ..... | 29,400 | 24,650 | 62,530 |
| Painting and paperhanging | 14 | 28,750 | 107 | ..... | 1 | 22,710 | 33,850 | 86,905 |
| Photographing | 6 | 7,000 | ..... | 9 | ..... | 2,700 | 4,000 | 12,000 |
| Plumbing and gasfitting | 4 | 13,300 | 54 | ..... | 2 | 16,580 | 67,300 | 118,100 |
| Printing and publishing | 7 | 66,400 | 57 | 7 | 2 | 28,457 | 39,000 | 90,800 |
| Saddlery and harness | 5 | 8,200 | 18 | ..... | ..... | 6,050 | 13,000 | 25,752 |
| Slaughtering and meat-packing, not including retail butchering | 4 | 100,000 | 53 | ..... | ..... | 21,500 | 360,050 | 425,135 |
| Tinware, copperware, and sheet-iron ware | 12 | 10,400 | 36 | ..... | ..... | 12,054 | 30,499 | 58,078 |
| Watch and clock repairing | 7 | 21,000 | 10 | ..... | ..... | 7,500 | 10,000 | 30,000 |
| All other industries (a) | 38 | 1,555,300 | 1,287 | 175 | 130 | 499,253 | 1,243,130 | 2,316,008 |

a Embracing belting and hose, leather; bookbinding and blank-book making; boxes, fancy and paper; brooms and brushes; cooperage; cordage and twine; cotton-ties; drugs and chemicals; dyeing and finishing textiles; electroplating; files; flouring- and grist-mill products; furniture; hosiery and knit goods; iron and steel; lithographing; lumber, sawed; marble and stone work; sash, doors, and blinds; shipbuilding; soap and candles; steam fittings and heating apparatus; tobacco, cigars and cigarettes; upholstering; wood, turned and carved; and woolen goods.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF FORT WAYNE, IND.

[Statistics collected under the direction of MARTIN A. NOLLE, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 114 | $2,352,101 | 2,426 | 164 | 145 | $1,020,793 | $4,007,055 | $5,816,924 |
| Blacksmithing (see also Wheelwrighting) | 6 | 8,750 | 10 | | | 5,540 | 3,850 | 15,300 |
| Boots and shoes, including custom work and repairing) | 11 | 5,400 | 29 | | 1 | 12,812 | 13,625 | 37,000 |
| Bread and other bakery products | 4 | 34,000 | 27 | 2 | | 11,232 | 83,906 | 109,385 |
| Carpentering | 3 | 13,500 | 72 | | | 24,600 | 43,250 | 83,000 |
| Carriages and wagons (see also Wheelwrighting) | 4 | 25,000 | 46 | | 1 | 18,000 | 27,000 | 56,000 |
| Cooperage | 3 | 10,900 | 12 | | 4 | 4,980 | 5,950 | 17,000 |
| Flouring- and grist-mill products | 5 | 105,000 | 33 | | | 17,440 | 473,150 | 532,265 |
| Foundery and machine-shop products | 5 | 785,000 | 900 | | 45 | 387,000 | 1,941,400 | 2,529,000 |
| Furniture | 5 | 71,000 | 35 | | 1 | 17,515 | 33,100 | 70,300 |
| Liquors, malt | 3 | 95,000 | 23 | | | 10,710 | 46,240 | 85,438 |
| Lumber, sawed | 5 | 295,000 | 282 | | 30 | 93,100 | 285,300 | 458,300 |
| Marble and stone work | 3 | 15,000 | 17 | | | 10,550 | 9,500 | 29,500 |
| Printing and publishing | 5 | 68,500 | 88 | 1 | 43 | 45,780 | 70,700 | 157,000 |
| Saddlery and harness | 11 | 20,200 | 38 | | | 16,725 | 53,400 | 90,500 |
| Tinware, copperware, and sheet-iron ware | 4 | 9,800 | 15 | | | 7,750 | 14,200 | 27,500 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 9 | 16,650 | 35 | | 1 | 17,700 | 14,750 | 44,700 |
| All other industries (a) | 28 | 764,401 | 764 | 161 | 19 | 319,359 | 888,634 | 1,473,636 |

a Embracing agricultural implements; bookbinding and blank-book making; brooms and brushes; carriage and wagon materials; clothing, men's; coffee and spices, roasted and ground; confectionery; files; handles, wooden; iron work, architectural and ornamental; leather, curried; leather, tanned; lumber, planed; masonry, brick and stone; oil, linseed; painting and paperhanging; patent medicines and compounds; plumbing and gasfitting; pumps; sash, doors, and blinds; shirts; trunks and valises; upholstering; and woolen goods.

### CITY OF GALVESTON, TEX.

[Statistics collected under the direction of EDWARD J. BYRNE, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 170 | $871,350 | 633 | 15 | 36 | $499,785 | $1,283,246 | $2,375,965 |
| Blacksmithing | 14 | 32,700 | 20 | | 2 | 14,975 | 18,880 | 52,525 |
| Boots and shoes, including custom work and repairing | 21 | 6,800 | 19 | | | 14,050 | 34,875 | 78,050 |
| Bread and other bakery products | 8 | 15,200 | 19 | | | 13,511 | 59,300 | 96,300 |
| Carpentering | 8 | 14,800 | 38 | | | 28,500 | 48,750 | 101,600 |
| Confectionery | 3 | 61,500 | 18 | | 3 | 15,300 | 86,000 | 146,600 |
| Cooperage | 8 | 18,300 | 42 | | | 35,850 | 81,000 | 147,000 |
| Flouring- and grist-mill products | 4 | 97,000 | 22 | | | 15,290 | 257,168 | 313,840 |
| Foundery and machine-shop products | 4 | 76,000 | 57 | | | 32,336 | 51,500 | 103,000 |
| Furniture | 11 | 7,450 | 8 | | 3 | 5,425 | 4,225 | 23,600 |
| Painting and paperhanging | 10 | 24,450 | 33 | | | 29,050 | 30,300 | 81,500 |
| Patent medicines and compounds | 3 | 9,000 | 6 | | | 5,250 | 16,500 | 35,500 |
| Photographing | 4 | 7,300 | 4 | 3 | | 5,100 | 2,950 | 20,200 |
| Plumbing and gasfitting | 3 | 21,500 | 18 | | 2 | 17,050 | 24,400 | 52,900 |
| Printing and publishing | 5 | 287,000 | 107 | 6 | 21 | 112,593 | 52,738 | 230,500 |
| Saddlery and harness | 5 | 19,900 | 13 | | | 9,525 | 24,600 | 42,850 |
| Shipbuilding | 4 | 1,300 | 1 | | | 1,430 | 4,000 | 6,000 |
| Tinware, copperware, and sheet-iron ware | 9 | 51,000 | 32 | | | 29,000 | 84,500 | 150,000 |
| Tobacco, cigars and cigarettes | 18 | 15,700 | 56 | | | 43,950 | 53,200 | 178,850 |
| All other industries (a) | 28 | 104,450 | 120 | 6 | 5 | 71,600 | 348,300 | 515,050 |

a Embracing bags, other than paper; boxes, fancy and paper; carriages and wagons; coffins, burial cases, and undertakers' goods; clothing, men's; drain and sewer pipe; hand-stamps; hats and caps, not including wool hats; looking-glass and picture frames; marble and stone work; mattresses and spring beds; mineral and soda waters; musical instruments, pianos and materials; perfumery and cosmetics; pickles, preserves, and sauces; safes, doors, and vaults, fire-proof; sash, doors, and blinds; shirts; show-cases; stencils and brands; and umbrellas and canes.

### CITY OF GRAND RAPIDS, MICH.

[Statistics collected under the direction of GEORGE W. GAGE, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 355 | $4,864,298 | 4,509 | 295 | 368 | $1,895,072 | $3,056,663 | $7,405,007 |
| Agricultural implements | 7 | 259,525 | 197 | 3 | 15 | 72,978 | 163,166 | 303,029 |
| Blacksmithing (see also Wheelwrighting) | 18 | 9,425 | 19 | | | 10,200 | 11,520 | 32,974 |
| Boots and shoes, including custom work and repairing | 18 | 28,310 | 45 | 3 | | 27,270 | 53,130 | 101,292 |
| Bread and other bakery products | 14 | 80,750 | 57 | 4 | 3 | 31,420 | 195,050 | 253,500 |
| Carpentering | 14 | 21,100 | 98 | 5 | | 46,385 | 89,863 | 162,492 |
| Carriages and wagons (see also Wheelwrighting) | 9 | 88,500 | 92 | | 1 | 41,790 | 75,930 | 138,822 |
| Clothing, men's | 9 | 118,920 | 106 | 89 | | 62,150 | 165,329 | 323,742 |
| Coffins, burial cases, and undertakers' goods | 3 | 71,300 | 86 | | 1 | 37,048 | 33,920 | 119,308 |
| Confectionery | 4 | 53,075 | 72 | 18 | 5 | 28,774 | 124,650 | 165,000 |
| Cooperage | 9 | 27,650 | 49 | | | 17,503 | 48,451 | 75,058 |
| Drugs and chemicals (see also Patent medicines and compounds) | 3 | 65,500 | 35 | 1 | 1 | 11,590 | 34,536 | 78,427 |
| Files | 3 | 3,200 | 18 | | | 8,900 | 10,700 | 22,000 |
| Flouring- and grist-mill products | 5 | 129,500 | 33 | | | 17,550 | 356,775 | 398,988 |
| Foundery and machine-shop products | 13 | 267,971 | 276 | | | 133,499 | 188,451 | 384,611 |
| Furniture | 11 | 1,313,156 | 1,702 | 6 | 99 | 647,537 | 823,086 | 1,331,172 |
| Liquors, malt | 7 | 278,000 | 65 | | | 29,883 | 128,553 | 229,526 |
| Looking-glass and picture frames | 4 | 10,600 | 9 | 5 | | 5,950 | 14,650 | 30,518 |
| Lumber, sawed | 8 | 1,014,685 | 252 | | | 70,090 | 457,259 | 755,476 |
| Marble and stone work | 4 | 8,500 | 11 | | | 4,644 | 9,300 | 20,800 |
| Masonry, brick and stone | 8 | 17,300 | 89 | | | 26,538 | 49,055 | 83,320 |
| Painting and paperhanging | 11 | 8,500 | 41 | | | 18,270 | 24,940 | 54,475 |
| Patent medicines and compounds (see also Drugs and chemicals) | 4 | 3,100 | 3 | | | 1,490 | 3,600 | 9,132 |
| Photographing | 10 | 13,850 | 11 | 6 | | 7,974 | 6,180 | 26,423 |
| Plumbing and gasfitting | 4 | 16,350 | 16 | | | 9,104 | 27,322 | 46,030 |
| Printing and publishing | 20 | 93,450 | 151 | 3 | 57 | 79,250 | 46,662 | 168,324 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF GRAND RAPIDS, MICH.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Saddlery and harness | 10 | $15,150 | 40 | | 1 | $16,628 | $36,100 | $62,156 |
| Sash, doors, and blinds | 6 | 66,500 | 96 | | 1 | 38,489 | 93,396 | 160,043 |
| Tinware, copperware, and sheet-iron ware | 10 | 26,600 | 53 | | | 28,274 | 48,775 | 93,740 |
| Tobacco, cigars and cigarettes | 18 | 39,800 | 63 | 5 | 8 | 26,445 | 74,655 | 124,463 |
| Upholstering materials | 3 | 13,500 | 7 | | 4 | 4,200 | 7,806 | 18,425 |
| Watch and clock repairing | 12 | 4,650 | 15 | | | 9,776 | 5,375 | 23,972 |
| Wirework | 3 | 1,100 | 1 | | | 700 | 1,900 | 4,124 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 13 | 8,400 | 26 | | 4 | 11,700 | 13,250 | 35,448 |
| All other industries (*a*) | 60 | 686,381 | 675 | 147 | 168 | 301,974 | 533,319 | 1,067,597 |

*a* Embracing awnings and tents; baking and yeast powders; baskets, rattan and willow ware; belting and hose, leather; bookbinding and blank-book making; boxes, cigar; boxes, wooden, packing; brick and tile; brooms and brushes; carriages and sleds, children's; carriage and wagon materials; corsets; cutlery and edge tools; electroplating; engraving and die-sinking; fertilizers; flavoring extracts; furs, dressed; gloves and mittens; hats and caps; housefurnishing goods; instruments, professional and scientific; iron work, architectural and ornamental; lime; lock- and gun-smithing; lumber, planed; mattresses and spring beds; mineral and soda waters; musical instruments, organs and materials; pumps; roofing and roofing materials; saws; sewing machines and attachments; shirts; soap and candles; sporting goods; steam fittings and heating apparatus; stencils and brands; stone- and earthen-ware; surgical appliances; toys and games; upholstering; wood, turned and carved; wooden ware; and woolen goods.

### CITY OF HARRISBURG, PA.

[Statistics collected under the direction of JOHN T. BOYLE, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 274 | $4,026,457 | 3,243 | 264 | 153 | $1,236,522 | $4,975,276 | $7,663,416 |
| Blacksmithing (see also Wheelwrighting) | 15 | 8,850 | 17 | | | 5,375 | 5,150 | 19,700 |
| Boots and shoes, including custom work and repairing | 30 | 50,775 | 62 | 21 | | 26,390 | 51,534 | 107,456 |
| Bread and other bakery products | 31 | 37,750 | 45 | 2 | 2 | 13,198 | 81,895 | 125,322 |
| Brick and tile | 8 | 136,000 | 125 | | 42 | 36,785 | 48,850 | 113,700 |
| Brooms and brushes | 3 | 4,000 | 9 | | 3 | 4,422 | 15,700 | 30,000 |
| Carpentering | 21 | 13,075 | 53 | | | 19,898 | 47,238 | 89,225 |
| Carpets, rag | 3 | 2,500 | 4 | | 1 | 1,514 | 2,300 | 5,550 |
| Carriages and wagons (see also Wheelwrighting) | 5 | 34,150 | 39 | | | 15,154 | 10,304 | 33,960 |
| Confectionery | 6 | 11,600 | 12 | 2 | 1 | 6,363 | 22,400 | 35,700 |
| Foundery and machine-shop products | 3 | 145,000 | 128 | 5 | | 49,100 | 87,880 | 174,000 |
| Furniture (see also Upholstering) | 4 | 900 | 2 | | | 300 | 800 | 4,000 |
| Iron and steel | 8 | 2,021,692 | 1,076 | | 51 | 445,507 | 1,896,916 | 2,839,500 |
| Liquors, malt | 3 | 80,000 | 18 | | | 8,370 | 47,050 | 85,500 |
| Looking-glass and picture frames | 3 | 2,700 | 1 | | | 150 | 1,600 | 3,300 |
| Lumber, planed | 5 | 205,000 | 59 | | 2 | 26,187 | 59,797 | 110,019 |
| Marble and stone work | 4 | 6,200 | 11 | | | 4,260 | 6,900 | 16,800 |
| Painting and paperhanging | 17 | 18,800 | 56 | 1 | 4 | 21,103 | 26,950 | 71,100 |
| Photographing | 3 | 14,500 | 14 | 3 | | 7,556 | 4,600 | 20,132 |
| Plumbing and gasfitting | 12 | 16,650 | 36 | | | 11,967 | 17,000 | 53,993 |
| Printing and publishing | 9 | 172,550 | 192 | 43 | 5 | 103,125 | 294,150 | 465,920 |
| Saddlery and harness | 5 | 5,050 | 6 | | | 2,800 | 8,150 | 14,700 |
| Tinware, copperware, and sheet-iron ware | 13 | 16,900 | 29 | | | 10,540 | 21,980 | 46,000 |
| Tobacco, cigars and cigarettes | 24 | 28,650 | 66 | 11 | 5 | 22,021 | 34,473 | 79,730 |
| Upholstering (see also Furniture) | 5 | 3,250 | 7 | 1 | | 1,230 | 2,600 | 6,600 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 5 | 3,250 | 9 | | | 2,861 | 1,650 | 7,000 |
| All other industries (*a*) | 29 | 986,665 | 1,167 | 175 | 37 | 390,346 | 2,177,409 | 3,104,509 |

*a* Embracing agricultural implements; bookbinding and blank-book making; boxes, cigar; cars, railroad, street, and repairs; cotton goods; engraving and die-sinking; flouring- and grist-mill products; furnishing goods, men's; glue; hats and caps; iron forgings; iron railing, wrought; leather, curried; leather, dressed skins; leather, tanned; lock- and gun-smithing; lumber, sawed; millstones; models and patterns; patent medicines and compounds; shipbuilding; soap and candles; stencils and brands; varnish; and wood, turned and carved.

### CITY OF HARTFORD, CONN.

[Statistics collected under the direction of GEORGE D. BATES, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 268 | $9,679,126 | 4,573 | 1,373 | 354 | $2,848,041 | $6,467,460 | $11,437,200 |
| Blacksmithing | 11 | 7,515 | 22 | | | 13,127 | 9,610 | 37,000 |
| Boots and shoes, including custom work and repairing | 4 | 142,300 | 91 | 30 | 5 | 29,345 | 270,770 | 369,100 |
| Bread and other bakery products | 12 | 34,500 | 53 | 3 | 8 | 31,911 | 147,294 | 214,012 |
| Brick and tile | 3 | 11,050 | 20 | | 3 | 10,200 | 10,230 | 27,480 |
| Brooms and brushes | 3 | 14,500 | 12 | 6 | | 7,000 | 15,450 | 36,985 |
| Carpentering | 12 | 51,450 | 227 | | | 87,500 | 186,500 | 311,800 |
| Carriages and wagons | 7 | 54,050 | 81 | | | 34,428 | 40,288 | 97,531 |
| Clothing, men's | 49 | 112,686 | 300 | 100 | 40 | 157,205 | 330,334 | 657,212 |
| Coffee and spices, roasted and ground | 3 | 65,000 | 14 | 8 | | 11,000 | 153,000 | 195,000 |
| Coffins, burial cases, and undertakers' goods | 4 | 89,200 | 44 | | | 25,900 | 25,100 | 93,000 |
| Dentistry, mechanical | 5 | 9,500 | 7 | | 1 | 4,500 | 8,300 | 24,250 |
| Flouring- and grist-mill products | 3 | 122,000 | 45 | | | 25,168 | 401,448 | 465,296 |
| Foundery and machine-shop products | 12 | 1,007,000 | 671 | | | 367,433 | 288,387 | 821,705 |
| Furniture | 4 | 41,200 | 49 | 1 | | 26,772 | 39,000 | 78,900 |
| Furs, dressed | 5 | 33,000 | 12 | 63 | | 13,386 | 37,474 | 66,782 |
| Liquors, malt | 4 | 170,000 | 32 | | | 15,436 | 87,117 | 146,344 |
| Looking-glass and picture frames | 4 | 26,500 | 16 | 1 | | 9,925 | 24,000 | 38,500 |
| Marble and stone work | 7 | 266,100 | 55 | | 1 | 39,500 | 24,787 | 85,942 |
| Masonry, brick and stone | 4 | 7,500 | 59 | | 2 | 24,200 | 34,300 | 67,700 |
| Painting and paperhanging | 7 | 10,300 | 52 | | | 29,860 | 30,200 | 77,000 |
| Photographing | 4 | 21,000 | 14 | 5 | | 7,290 | 8,800 | 27,458 |
| Plated and britannia ware | 3 | 63,500 | 93 | 10 | 2 | 33,591 | 150,500 | 237,175 |
| Printing and publishing | 12 | 929,700 | 269 | 78 | 16 | 196,294 | 173,422 | 513,600 |
| Roofing and roofing materials | 3 | 11,100 | 40 | | | 19,292 | 83,521 | 112,500 |
| Saddlery and harness | 7 | 47,575 | 117 | 35 | 8 | 70,456 | 202,980 | 306,589 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF HARTFORD, CONN.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Shirts | 3 | $7,250 | 4 | 50 | ..... | $11,050 | $16,854 | $37,520 |
| Tinware, copperware, and sheet-iron ware | 6 | 21,000 | 32 | ..... | ..... | 17,041 | 32,055 | 60,930 |
| Tobacco, cigars and cigarettes | 9 | 13,800 | 47 | 7 | 1 | 26,845 | 29,193 | 73,632 |
| All other industries (a) | 58 | 6,288,850 | 2,095 | 976 | 267 | 1,502,386 | 3,606,046 | 6,156,257 |

a Embracing agricultural implements; awnings and tents; belting and hose, leather; bookbinding and blank-book making; boot and shoe uppers; boxes, cigar; boxes, fancy and paper; boxes, wooden, packing; carriages and sleds, children's; confectionery; corsets; dyeing and cleaning; dyestuffs and extracts; electro-plating; engraving, steel; envelopes; files; fire-arms; gold and silver leaf and foil; hairwork; hardware; hardware, saddlery; iron forgings; lamps and reflectors; lithographing; liquors, distilled; lumber, planed; mattresses and spring beds; models and patterns; patent medicines and compounds; plumbing and gasfitting; pumps; sash, doors, and blinds; screws; sewing machines and attachments; soap and candles; steam fittings and heating apparatus; stereotyping and electrotyping; stone- and earthen-ware; silk and silk goods; trunks and valises; wirework; and wood, turned and carved.

### CITY OF HOBOKEN, N. J.

[Statistics collected under the direction of DANIEL VAN WINKLE, jr., Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 121 | $486,320 | 613 | 59 | 51 | $283,694 | $588,756 | $1,051,136 |
| Blacksmithing (see also Wheelwrighting) | 6 | 6,750 | 9 | ..... | ..... | 5,300 | 6,600 | 17,650 |
| Boots and shoes, including custom work and repairing | 11 | 4,830 | 6 | ..... | ..... | 2,875 | 7,875 | 16,450 |
| Bread and other bakery products | 17 | 46,300 | 33 | 7 | 5 | 18,525 | 88,710 | 128,050 |
| Carpentering | 8 | 6,200 | 27 | ..... | ..... | 13,176 | 24,976 | 49,151 |
| Clothing, men's | 8 | 8,000 | 23 | 6 | 1 | 8,673 | 13,200 | 30,100 |
| Foundery and machine-shop products | 3 | 123,000 | 129 | ..... | 4 | 49,255 | 88,807 | 141,056 |
| Painting and paperhanging | 5 | 19,800 | 40 | ..... | ..... | 22,098 | 22,300 | 57,782 |
| Plumbing and gasfitting | 3 | 6,500 | 21 | ..... | ..... | 8,322 | 12,000 | 25,300 |
| Sash, doors, and blinds | 3 | 8,200 | 29 | ..... | ..... | 21,100 | 31,500 | 61,000 |
| Silk and silk goods | 4 | 74,300 | 124 | 33 | 33 | 43,530 | 49,970 | 101,000 |
| Tobacco, cigars and cigarettes | 19 | 22,950 | 26 | 1 | 5 | 13,801 | 33,708 | 66,670 |
| Wheelwrighting (see also Blacksmithing) | 4 | 8,500 | 21 | ..... | ..... | 9,900 | 10,550 | 27,000 |
| All other industries (a) | 30 | 150,900 | 125 | 12 | 3 | 66,639 | 197,660 | 329,927 |

a Embracing boxes, wooden, packing; confectionery; cooperage; drugs and chemicals; dyeing and cleaning; dyeing and finishing textiles; furniture; iron railings, wrought; kindling wood; liquors, malt; looking-glass and picture frames; lumber, planed; marble and stone work; mineral and soda waters; mixed textiles; printing and publishing; saddlery and harness; shirts; soap and candles; tinware, copperware, and sheet-iron ware; varnish; vinegar; and wood, turned and carved.

### CITY OF HOLYOKE, MASS.

[Statistics collected under the direction of ALLEN HIGGINBOTTOM, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 123 | $8,913,903 | 4,433 | 3,861 | 717 | $2,743,142 | $7,739,573 | $13,667,327 |
| Blacksmithing | 4 | 5,900 | 19 | ..... | ..... | 7,633 | 4,700 | 17,500 |
| Boots and shoes, including custom work and repairing | 5 | 4,900 | 8 | ..... | 1 | 4,141 | 1,900 | 9,096 |
| Brick and tile | 3 | 26,000 | 104 | ..... | ..... | 22,600 | 22,375 | 49,204 |
| Carpentering | 8 | 7,755 | 93 | ..... | ..... | 28,501 | 75,433 | 115,510 |
| Carriages and wagons | 3 | 17,000 | 34 | ..... | ..... | 18,475 | 16,000 | 43,000 |
| Clothing, men's | 5 | 4,300 | 10 | 10 | ..... | 5,428 | 8,400 | 18,150 |
| Cotton goods | 5 | 2,810,000 | 852 | 1,481 | 429 | 717,752 | 1,419,149 | 3,085,851 |
| Foundery and machine-shop products | 11 | 282,500 | 499 | ..... | 2 | 206,124 | 218,820 | 521,592 |
| Painting and paperhanging | 8 | 12,975 | 41 | ..... | 5 | 14,887 | 15,500 | 37,400 |
| Paper | 17 | 3,476,979 | 988 | 1,500 | 13 | 793,984 | 2,709,075 | 4,610,947 |
| Printing and publishing | 5 | 20,300 | 34 | 6 | 1 | 14,170 | 7,181 | 30,628 |
| Tinware, copperware, and sheet-iron ware | 6 | 22,500 | 45 | ..... | ..... | 18,280 | 53,000 | 79,822 |
| Woolen goods | 4 | 805,794 | 448 | 199 | 127 | 220,382 | 423,953 | 809,851 |
| All other industries (a) | 39 | 1,327,000 | 1,258 | 665 | 139 | 670,835 | 2,764,082 | 4,235,680 |

a Embracing bags, paper; belting and hose, leather; brass castings; cutlery and edge tools; dyeing and finishing textiles; fertilizers; files; flouring- and grist-mill products; glue; lithographing; lumber, planed; lumber, sawed; marble and stone work; mattresses and spring beds; mixed textiles; patent medicines and compounds; plumbing and gasfitting; postal cards; rubber and elastic goods; saddlery and harness; sash, doors, and blinds; screws; shoddy; silk and silk goods; slaughtering and meat-packing; soap and candles; steam fittings and heating apparatus; tobacco, cigars and cigarettes; watch and clock repairing; wire; wirework; wood pulp; wood, turned and carved; and worsted goods.

### CITY OF INDIANAPOLIS, IND.

[Statistics collected under the direction of J. M. RIDENOUR, Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 688 | $10,049,500 | 8,671 | 830 | 499 | $3,917,114 | $19,198,102 | $27,453,089 |
| Agricultural implements | 3 | 41,000 | 55 | ..... | ..... | 11,400 | 31,200 | 55,500 |
| Baking and yeast powders (see also Drugs and chemicals) | 3 | 5,500 | 16 | 2 | ..... | 6,620 | 35,000 | 56,500 |
| Baskets, rattan and willow ware | 3 | 850 | 5 | ..... | ..... | 700 | 1,150 | 4,720 |
| Blacksmithing (see also Wheelwrighting) | 22 | 14,600 | 44 | ..... | 1 | 19,633 | 24,994 | 70,112 |
| Boots and shoes, including custom work and repairing | 79 | 24,495 | 114 | 4 | 1 | 47,398 | 65,804 | 176,973 |
| Boxes, wooden, packing | 3 | 37,300 | 52 | ..... | ..... | 20,020 | 43,200 | 118,200 |
| Bread and other bakery products | 25 | 95,900 | 142 | 27 | 6 | 75,821 | 234,110 | 423,071 |
| Brick and tile | 8 | 86,300 | 117 | ..... | 10 | 38,950 | 34,118 | 101,000 |
| Brooms and brushes | 5 | 13,900 | 38 | 8 | 17 | 10,892 | 27,004 | 55,350 |
| Carpentering | 22 | 60,575 | 235 | ..... | 29 | 89,225 | 221,484 | 384,460 |
| Carpets, rag | 7 | 6,550 | 5 | 7 | 2 | 4,347 | 12,350 | 21,850 |
| Carriages and wagons (see also Wheelwrighting) | 14 | 248,500 | 260 | ..... | 3 | 78,400 | 115,620 | 250,420 |
| Clothing, men's | 27 | 172,410 | 219 | 127 | 1 | 165,235 | 375,410 | 658,960 |
| Coffee and spices, roasted and ground | 4 | 63,000 | 24 | 4 | ..... | 10,180 | 197,450 | 230,100 |
| Coffins, burial cases, and undertakers' goods | 5 | 67,000 | 61 | ..... | ..... | 28,464 | 43,800 | 99,140 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF INDIANAPOLIS, IND.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Confectionery | 12 | $90,750 | 54 | 24 | 6 | $29,568 | $181,835 | $273,200 |
| Cooperage | 13 | 277,700 | 520 | ..... | 75 | 153,100 | 812,475 | 1,107,582 |
| Dentistry, mechanical | 16 | 10,780 | 9 | 6 | 1 | 5,212 | 8,670 | 38,921 |
| Drugs and chemicals (see also Baking and yeast powders) | 6 | 62,700 | 35 | 26 | ..... | 22,450 | 56,000 | 113,000 |
| Dyeing and cleaning | 6 | 4,850 | 16 | 24 | ..... | 12,350 | 9,900 | 32,900 |
| Dyeing and finishing textiles | 5 | 4,400 | 15 | 24 | ..... | 12,100 | 9,850 | 32,000 |
| Electroplating | 3 | 1,400 | 3 | ..... | ..... | 1,218 | 1,150 | 4,550 |
| Fertilizers | 5 | 103,000 | 94 | ..... | ..... | 41,424 | 714,000 | 920,000 |
| Flouring- and grist-mill products | 12 | 462,000 | 110 | ..... | ..... | 56,654 | 1,511,885 | 1,655,517 |
| Foundery and machine-shop products (see also Iron work, architectural and ornamental). | 15 | 1,188,000 | 1,275 | 4 | 34 | 534,090 | 742,000 | 1,736,000 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 17 | 357,900 | 488 | 7 | 57 | 197,083 | 582,212 | 917,600 |
| Hardware | 4 | 3,205 | 3 | ..... | ..... | 1,500 | 3,575 | 8,500 |
| Hats and caps, not including wool hats | 3 | 2,725 | 5 | 3 | ..... | 3,500 | 7,800 | 15,420 |
| Iron work, architectural and ornamental (see also Foundery and machine-shop products). | 3 | 103,000 | 126 | ..... | ..... | 41,600 | 79,191 | 136,502 |
| Liquors, malt | 3 | 400,000 | 148 | ..... | ..... | 66,036 | 280,558 | 508,740 |
| Looking-glass and picture frames | 8 | 36,050 | 37 | 1 | 6 | 21,830 | 51,800 | 90,500 |
| Lumber, sawed | 6 | 255,500 | 116 | ..... | 10 | 44,400 | 348,600 | 497,200 |
| Marble and stone work | 11 | 46,050 | 91 | ..... | 5 | 47,700 | 112,985 | 237,265 |
| Masonry, brick and stone | 4 | 22,000 | 104 | ..... | 1 | 67,625 | 108,300 | 200,000 |
| Mattresses and spring beds (see also Furniture) | 4 | 10,700 | 25 | 1 | 1 | 11,300 | 26,440 | 53,900 |
| Millinery and lace goods | 6 | 37,000 | ..... | 69 | ..... | 12,100 | 78,000 | 132,000 |
| Painting and paperhanging | 16 | 38,800 | 111 | 39 | 1 | 70,929 | 179,350 | 301,050 |
| Photographing | 19 | 20,000 | 20 | 8 | 1 | 10,185 | 11,650 | 45,800 |
| Plumbing and gasfitting | 9 | 19,400 | 52 | ..... | ..... | 22,635 | 38,900 | 76,300 |
| Printing and publishing | 24 | 446,320 | 541 | 75 | 21 | 322,302 | 301,652 | 811,377 |
| Pumps, not including steam pumps | 4 | 20,650 | 44 | ..... | 1 | 17,289 | 35,000 | 71,500 |
| Roofing and roofing materials | 4 | 13,200 | 13 | ..... | ..... | 5,288 | 41,500 | 71,500 |
| Saddlery and harness | 19 | 42,500 | 85 | ..... | 3 | 39,509 | 104,600 | 193,300 |
| Sash, doors, and blinds (see also Wood, turned and carved) | 8 | 306,500 | 178 | 1 | 24 | 87,945 | 261,000 | 442,000 |
| Saws | 3 | 112,000 | 64 | ..... | ..... | 56,050 | 161,000 | 291,000 |
| Shirts | 4 | 12,300 | 11 | 45 | 6 | 21,260 | 24,800 | 59,600 |
| Slaughtering and meat-packing, not including retail butchering | 7 | 1,618,000 | 892 | ..... | ..... | 345,236 | 7,890,208 | 9,014,422 |
| Soap and candles | 3 | 12,500 | 21 | ..... | ..... | 6,600 | 33,000 | 47,500 |
| Stencils and brands | 3 | 1,800 | 10 | ..... | 2 | 5,400 | 5,200 | 18,000 |
| Tinware, copperware, and sheet-iron ware | 28 | 62,760 | 117 | 2 | 13 | 50,562 | 124,305 | 240,461 |
| Tobacco, cigars and cigarettes | 43 | 52,025 | 189 | 9 | 34 | 83,776 | 121,482 | 298,950 |
| Trunks and valises | 6 | 20,600 | 47 | ..... | 1 | 18,012 | 26,600 | 60,500 |
| Upholstering (see also Furniture) | 6 | 13,425 | 24 | 2 | 1 | 12,800 | 46,000 | 72,500 |
| Watch and clock repairing | 12 | 11,850 | 14 | 1 | 3 | 10,192 | 5,770 | 30,400 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 24 | 33,365 | 64 | ..... | 3 | 21,769 | 29,815 | 77,570 |
| Window blinds and shades | 3 | 22,000 | 28 | 1 | ..... | 10,900 | 32,000 | 59,000 |
| Wood, turned and carved (see also Sash, doors, and blinds) | 3 | 15,000 | 44 | ..... | 1 | 20,127 | 43,155 | 93,500 |
| Wooden ware | 3 | 124,000 | 107 | 32 | 37 | 55,250 | 59,000 | 158,000 |
| All other industries (*a*) | 45 | 2,612,825 | 1,334 | 247 | 81 | 632,933 | 2,431,535 | 3,501,107 |

*a* Embracing awnings and tents; belting and hose, leather; boxes, paper; carriage and wagon materials; cheese and butter (factory); clothing, women's; cotton goods; engraving, wood; fruits and vegetables, canned and preserved; furniture, chairs; glue; grease and tallow; hairwork; hosiery and knit goods; iron and steel; liquors, distilled; lock- and gun-smithing; mineral and soda waters; oil, lard; oil, linseed; paper; patent medicines and compounds; regalia and society bannors and emblems; starch; surgical apparatus; telegraph and telephone apparatus; varnish; and woolen goods.

### JERSEY CITY, N. J.

[Statistics collected under the direction of DANIEL VAN WINKLE, Chief Special Agent. See Note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 584 | $11,899,915 | 7,962 | 2,426 | 750 | $4,622,655 | $49,738,985 | $60,473,905 |
| Blacksmithing (see also Wheelwrighting) | 40 | 32,500 | 75 | ..... | 3 | 38,013 | 29,285 | 108,420 |
| Boots and shoes, including custom work and repairing | 39 | 29,415 | 30 | 3 | 2 | 16,451 | 34,138 | 70,200 |
| Brass castings | 4 | 180,600 | 111 | ..... | 4 | 47,729 | 89,781 | 157,886 |
| Bread and other bakery products | 46 | 75,150 | 109 | 13 | 3 | 61,238 | 322,104 | 459,888 |
| Carpentering | 42 | 41,800 | 189 | 4 | 5 | 94,420 | 170,382 | 330,521 |
| Carriages and wagons (see also Wheelwrighting) | 6 | 22,600 | 41 | ..... | 2 | 22,100 | 28,000 | 69,000 |
| Clothing, men's | 22 | 59,000 | 91 | 12 | 4 | 51,723 | 179,425 | 294,000 |
| Confectionery | 6 | 24,500 | 12 | 7 | 16 | 11,592 | 41,340 | 70,790 |
| Cooperage | 6 | 167,700 | 281 | ..... | 11 | 103,748 | 377,546 | 630,529 |
| Dentistry, mechanical | 4 | 9,500 | 7 | ..... | 2 | 4,825 | 10,500 | 24,850 |
| Drugs and chemicals | 8 | 560,000 | 243 | 2 | 4 | 124,045 | 1,266,202 | 1,517,214 |
| Foundery and machine-shop products | 23 | 768,300 | 604 | 12 | 5 | 303,847 | 510,514 | 1,041,471 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 3 | 3,600 | 17 | ..... | ..... | 4,700 | 6,700 | 19,300 |
| Iron and steel | 3 | 850,000 | 403 | ..... | 12 | 210,000 | 771,340 | 1,464,500 |
| Iron railing, wrought | 3 | 2,200 | 4 | ..... | 1 | 1,910 | 1,975 | 5,900 |
| Kindling wood | 4 | 28,400 | 29 | ..... | 3 | 11,250 | 18,600 | 36,500 |
| Liquors, malt | 5 | 356,500 | 101 | ..... | ..... | 45,399 | 235,874 | 416,886 |
| Lock- and gun-smithing | 4 | 550 | 1 | ..... | ..... | 225 | 1,450 | 4,200 |
| Marble and stone work | 12 | 35,850 | 87 | ..... | 3 | 38,150 | 48,000 | 120,200 |
| Masonry, brick and stone | 5 | 23,400 | 110 | ..... | 1 | 50,500 | 36,900 | 112,750 |
| Mattresses and spring beds (see also Furniture) | 5 | 25,000 | 41 | 5 | 4 | 12,878 | 46,476 | 75,000 |
| Painting and paperhanging | 30 | 40,350 | 151 | ..... | 1 | 69,890 | 60,400 | 165,970 |
| Photographing | 14 | 39,800 | 37 | 10 | 2 | 20,870 | 25,750 | 75,950 |
| Plumbing and gasfitting | 24 | 46,650 | 65 | ..... | 10 | 32,565 | 79,283 | 146,762 |
| Printing and publishing | 5 | 66,200 | 85 | ..... | 8 | 42,337 | 28,466 | 100,174 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### JERSEY CITY, N. J.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Saddlery and harness | 9 | $5,150 | 4 | ..... | ..... | $2,100 | $5,550 | $13,400 |
| Sash, doors, and blinds (see also Wood, turned and carved) | 6 | 28,000 | 32 | ..... | 1 | 15,024 | 52,508 | 85,372 |
| Shipbuilding | 25 | 203,500 | 360 | ..... | ..... | 237,542 | 217,712 | 541,766 |
| Shirts | 4 | 8,600 | 4 | 30 | ..... | 5,500 | 26,400 | 38,225 |
| Slaughtering and meat-packing, not including retail butchering | 20 | 1,272,200 | 423 | ..... | 10 | 303,800 | 17,404,689 | 18,551,783 |
| Sugar and molasses, refined | 3 | 2,100,000 | 680 | ..... | 5 | 473,316 | 20,759,961 | 22,799,014 |
| Tinware, copperware, and sheet-iron ware | 24 | 62,400 | 79 | ..... | 4 | 37,910 | 63,500 | 133,814 |
| Tobacco, cigars and cigarettes | 40 | 80,125 | 127 | 1 | 7 | 56,567 | 83,454 | 185,703 |
| Upholstering (see also Furniture) | 8 | 4,450 | 11 | ..... | 3 | 5,237 | 11,476 | 23,150 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 17 | 15,700 | 40 | ..... | 3 | 20,650 | 19,650 | 60,100 |
| Wood, turned and carved (see also Sash, doors, and blinds) | 3 | 13,500 | 34 | ..... | ..... | 14,500 | 27,700 | 52,000 |
| All other industries (a) | 62 | 4,556,725 | 3,235 | 2,327 | 611 | 2,030,164 | 6,645,954 | 10,461,117 |

*a* Embracing awnings and tents; baskets, rattan and willow ware; billiard tables and materials; boxes, wooden, packing; bridges; coffins, burial cases, and undertakers' goods; coppersmithing; corsets; crucibles; dyeing and cleaning; explosives and fireworks; fancy articles; flouring- and grist-mill products; hardware; hosiery and knit goods; ink; iron bolts, nuts, washers, and rivets; iron forgings; iron pipe, wrought; iron doors and shutters; ivory and bone work; lamps and reflectors; lard, refined; leather, curried; leather, tanned; looking-glass and picture frames; mineral and soda waters; models and patterns; oil, castor; paints; paper; patent medicines and compounds; pencils, lead; pumps; rubber and elastic goods; silk and silk goods; soap and candles; sporting goods; steam fittings and heating apparatus; stone- and earthen-ware; tobacco, chewing, smoking, and snuff; trunks and valises; umbrellas and canes; watch and clock repairing; wheelbarrows; window blinds and shades; wirework; and zinc.

### KANSAS CITY, MO.

[Statistics collected under the direction of E. J. NICKERSON, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 224 | $2,147,305 | 2,127 | 233 | 188 | $1,420,713 | $3,723,916 | $6,382,631 |
| Blacksmithing (see also Wheelwrighting) | 17 | 13,850 | 47 | ..... | 1 | 29,800 | 18,600 | 73,200 |
| Boots and shoes, including custom work and repairing | 18 | 7,575 | 42 | ..... | 2 | 24,600 | 21,225 | 63,281 |
| Bread and other bakery products | 8 | 82,700 | 76 | 20 | 5 | 56,350 | 284,600 | 366,300 |
| Brick and tile | 15 | 75,000 | 315 | ..... | 87 | 163,020 | 51,392 | 369,900 |
| Brooms and brushes | 3 | 1,700 | 12 | ..... | 2 | 5,300 | 5,725 | 17,000 |
| Carpentering | 26 | 45,150 | 279 | ..... | ..... | 202,300 | 447,050 | 775,500 |
| Carriages and wagons (see also Wheelwrighting) | 5 | 29,000 | 44 | ..... | ..... | 25,800 | 41,900 | 105,000 |
| Clothing, men's | 5 | 41,344 | 71 | 4 | ..... | 48,334 | 96,120 | 165,436 |
| Confectionery | 5 | 6,200 | 10 | 4 | 4 | 8,250 | 14,800 | 27,000 |
| Flouring- and grist-mill products | 4 | 71,500 | 56 | ..... | ..... | 27,300 | 581,400 | 683,450 |
| Foundery and machine-shop products | 8 | 221,500 | 207 | ..... | 8 | 129,770 | 243,500 | 471,000 |
| Furniture | 7 | 2,825 | 13 | ..... | ..... | 8,050 | 14,200 | 30,000 |
| Lumber, planed | 4 | 46,000 | 71 | ..... | ..... | 43,800 | 92,000 | 206,000 |
| Marble and stone work | 4 | 16,200 | 29 | ..... | 2 | 15,300 | 26,100 | 54,000 |
| Painting and paperhanging | 5 | 4,100 | 28 | ..... | ..... | 18,020 | 22,570 | 55,500 |
| Paints | 3 | 120,000 | 41 | ..... | ..... | 20,000 | 180,000 | 255,000 |
| Photographing | 3 | 6,750 | 9 | 2 | ..... | 6,400 | 4,350 | 18,600 |
| Printing and publishing | 4 | 255,000 | 159 | 49 | 12 | 152,800 | 130,600 | 432,000 |
| Saddlery and harness | 8 | 23,400 | 35 | 1 | ..... | 19,156 | 46,580 | 85,500 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 437,500 | 253 | ..... | 35 | 166,500 | 739,071 | 965,000 |
| Tinware, copperware, and sheet-iron ware | 4 | 11,400 | 18 | ..... | ..... | 8,550 | 20,450 | 37,000 |
| Tobacco, cigars and cigarettes | 13 | 70,200 | 75 | ..... | 9 | 50,860 | 109,050 | 210,600 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 4 | 6,500 | 12 | ..... | ..... | 5,800 | 4,400 | 14,100 |
| All other industries (a) | 48 | 551,911 | 225 | 153 | 21 | 183,753 | 529,433 | 902,314 |

*a* Embracing awnings and tents; bags, other than paper; baking and yeast powders; bookbinding and blank-book making; boxes, wooden, packing; carpets, rag; cement; cheese and butter (factory); clothing, women's; drain and sewer pipe; engraving and die-sinking; furniture, chairs; hand-stamps; hats and caps; iron work, architectural and ornamental; liquors, malt; looking-glass and picture frames; mattresses and spring beds; mineral and soda waters; models and patterns; patent medicines and compounds; refrigerators; roofing and roofing materials; shipbuilding; shirts; show-cases; soap and candles; tools; trunks and valises; upholstering; vinegar; watch and clock repairing; and wire.

### CITY OF LANCASTER, PA.

[Statistics collected under the direction of WILLIAM H. LEBKICHER, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 318 | $3,792,740 | 2,741 | 1,044 | 467 | $1,177,249 | $2,942,312 | $5,404,937 |
| Blacksmithing (see also Wheelwrighting) | 14 | 8,925 | 8 | ..... | 3 | 3,826 | 5,303 | 21,708 |
| Boots and shoes, including custom work and repairing | 13 | 23,400 | 30 | 2 | ..... | 12,977 | 17,105 | 40,033 |
| Boxes, cigar | 5 | 18,450 | 9 | 16 | 6 | 7,184 | 19,681 | 32,193 |
| Bread and other bakery products | 24 | 31,150 | 24 | 2 | 10 | 10,928 | 61,763 | 98,234 |
| Brick and tile | 8 | 53,500 | 93 | ..... | 22 | 26,922 | 14,454 | 53,659 |
| Brooms and brushes | 3 | 7,000 | 9 | 1 | 1 | 4,360 | 5,000 | 15,400 |
| Carpentering | 11 | 7,975 | 57 | ..... | ..... | 24,966 | 47,423 | 86,633 |
| Carriages and wagons (see also Wheelwrighting) | 12 | 151,600 | 226 | ..... | 13 | 79,101 | 123,025 | 242,760 |
| Carriage and wagon materials | 5 | 72,500 | 81 | ..... | 4 | 30,160 | 66,900 | 125,000 |
| Clothing, men's | 5 | 121,265 | 124 | 44 | ..... | 44,200 | 133,000 | 214,875 |
| Coffins, burial cases, and undertakers' goods | 4 | 5,550 | 4 | ..... | 1 | 1,698 | 5,200 | 10,200 |
| Confectionery | 7 | 79,100 | 26 | 16 | 4 | 14,803 | 36,900 | 67,160 |
| Cotton goods | 5 | 1,382,000 | 484 | 737 | 240 | 298,734 | 857,505 | 1,654,132 |
| Foundery and machine-shop products | 10 | 184,650 | 168 | ..... | 3 | 67,126 | 104,319 | 228,623 |
| Furniture | 7 | 67,500 | 39 | ..... | 8 | 19,123 | 28,994 | 68,877 |
| Hand-knit goods | 4 | 15,500 | 14 | 7 | 5 | 6,948 | 19,102 | 29,300 |
| Leather, curried | 6 | 51,400 | 29 | ..... | ..... | 11,430 | 146,189 | 177,485 |
| Leather, tanned | 7 | 66,400 | 42 | ..... | ..... | 15,349 | 144,035 | 178,123 |
| Liquors, malt | 8 | 186,000 | 45 | ..... | ..... | 13,927 | 84,365 | 139,275 |
| Marble and stone work | 4 | 47,500 | 15 | ..... | 4 | 7,777 | 18,049 | 34,932 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF LANCASTER, PENN.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Masonry, brick and stone | 3 | $225 | 9 | | | $3,700 | $4,100 | $10,550 |
| Painting and paperhanging | 9 | 2,800 | 33 | | | 13,520 | 14,697 | 35,174 |
| Photographing | 4 | 8,700 | 6 | 4 | | 3,625 | 3,100 | 11,071 |
| Plumbing and gasfitting | 5 | 5,800 | 6 | | | 3,440 | 13,700 | 23,945 |
| Printing and publishing | 6 | 177,600 | 171 | 17 | 21 | 66,918 | 51,517 | 157,770 |
| Saddlery and harness | 7 | 33,280 | 35 | | | 13,536 | 18,614 | 40,069 |
| Sash, doors, and blinds | 4 | 69,000 | 77 | | | 28,210 | 59,800 | 108,700 |
| Stone- and earthen-ware | 3 | 8,100 | 8 | | 1 | 2,383 | 1,128 | 5,600 |
| Tinware, copperware, and sheet-iron ware | 15 | 88,700 | 61 | | 1 | 28,642 | 43,708 | 90,359 |
| Tobacco, cigars and cigarettes | 50 | 128,720 | 147 | 50 | 18 | 53,835 | 63,312 | 230,435 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 3 | 1,100 | | | 1 | 156 | 800 | 2,400 |
| All other industries (a) | 42 | 687,350 | 661 | 148 | 106 | 257,736 | 729,434 | 1,163,662 |

a Embracing agricultural implements; bags, paper; bookbinding and blank-book making; boxes, fancy and paper; boxes, wooden, packing; carpets, rag; combs; cooperage; cordage and twine; cork cutting; cutlery and edge tools; dyeing and finishing textiles; files; glue; hardware; hardware, saddlery; hats and caps; iron and steel; lock- and gun-smithing; looking-glass and picture frames; lumber, sawed; mineral and soda waters; musical instruments, organs and materials; shirts; slaughtering and meat-packing; soap and candles; tobacco, chewing, smoking, and snuff; upholstering; watch and clock repairing; watches; wood, turned and carved; and wooden ware.

### CITY OF LAWRENCE, MASS.

[Statistics collected under the direction of ROBERT A. HARMON, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 229 | $18,698,977 | 7,819 | 7,908 | 992 | $5,544,513 | $13,862,142 | $25,058,246 |
| Blacksmithing | 11 | 25,725 | 28 | | | 15,051 | 10,637 | 40,298 |
| Boots and shoes, including custom work and repairing | 21 | 4,860 | 112 | | | 8,977 | 15,433 | 34,179 |
| Brass castings | 3 | 4,600 | 10 | | | 4,913 | 6,150 | 16,400 |
| Bread and other bakery products | 8 | 46,600 | 57 | 1 | | 28,951 | 124,747 | 174,820 |
| Carpentering | 19 | 29,650 | 163 | | | 76,738 | 152,105 | 276,407 |
| Carriages and wagons | 6 | 13,050 | 42 | | | 20,521 | 12,661 | 43,495 |
| Cotton goods (see also Mixed textiles) | 7 | 5,350,400 | 1,264 | 3,235 | 246 | 1,310,358 | 2,915,195 | 5,059,904 |
| Dyeing and finishing textiles | 3 | 1,645,000 | 1,069 | 140 | 102 | 489,408 | 993,441 | 2,593,000 |
| Flouring- and grist-mill products | 3 | 258,000 | 28 | | | 14,960 | 479,375 | 510,132 |
| Foundery and machine-shop products | 21 | 296,362 | 268 | 24 | 12 | 137,296 | 282,929 | 473,244 |
| Marble and stone work | 7 | 21,200 | 24 | | | 10,478 | 9,341 | 27,448 |
| Masonry, brick and stone | 5 | 14,750 | 136 | | | 40,114 | 82,733 | 131,497 |
| Mineral and soda waters | 3 | 9,000 | 22 | | | 11,158 | 11,418 | 31,090 |
| Mixed textiles (see also Cotton goods; Woolen goods) | 3 | 2,020,500 | 1,171 | 1,073 | 122 | 796,785 | 1,907,652 | 3,442,798 |
| Painting and paperhanging | 18 | 8,125 | 54 | | | 20,278 | 13,048 | 46,967 |
| Paper | 3 | 410,000 | 313 | 157 | 1 | 176,114 | 610,545 | 972,050 |
| Photographing | 6 | 7,800 | 5 | 2 | | 2,724 | 4,606 | 18,460 |
| Plumbing and gasfitting | 3 | 6,300 | 13 | | 1 | 6,836 | 21,975 | 34,181 |
| Printing and publishing | 4 | 35,000 | 32 | | 9 | 20,500 | 12,450 | 45,540 |
| Saddlery and harness | 5 | 7,675 | 11 | | | 6,047 | 8,806 | 19,412 |
| Sash, doors, and blinds | 3 | 11,245 | 37 | | | 19,625 | 61,813 | 99,416 |
| Soap and candles | 4 | 54,300 | 25 | | | 11,075 | 81,890 | 113,420 |
| Tinware, copperware, and sheet-iron ware | 9 | 26,550 | 37 | | | 21,036 | 42,146 | 89,400 |
| Tobacco, cigars and cigarettes | 6 | 4,200 | 9 | 2 | | 5,985 | 7,719 | 19,187 |
| Upholstering | 4 | 4,900 | 10 | | | 6,300 | 18,500 | 32,900 |
| Woolen goods (see also Mixed textiles; Worsted goods) | 3 | 3,050,000 | 1,497 | 1,168 | 132 | 896,854 | 2,189,989 | 3,823,378 |
| Worsted goods (see also Woolen goods) | 5 | 4,211,385 | 852 | 2,091 | 367 | 1,149,434 | 3,101,068 | 5,676,428 |
| All other industries (a) | 36 | 521,800 | 530 | 15 | | 235,997 | 733,770 | 1,221,795 |

a Embracing awnings and tents; baking and yeast powders; belting and hose, leather; bookbinding and blank-book making; brooms and brushes; carriage and wagon materials; coffee and spices, roasted and ground; combs; confectionery; cooperage; drugs and chemicals; files; furniture; leather board; liquors, malt; looking-glass and picture frames; lumber, planed; models and patterns; patent medicines and compounds; paving materials; pumps; sewing machines and attachments; shirts; slaughtering and meat-packing; stone- and earthen-ware; and wood, turned and carved.

### CITY OF LOUISVILLE, KY.

[Statistics collected under the direction of C. K. CARON, Chief Special Agent. See Note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 1,108 | $21,767,013 | 13,480 | 2,829 | 1,130 | $5,835,545 | $21,207,110 | $35,423,203 |
| Agricultural implements | 6 | 1,915,100 | 678 | 10 | 10 | 261,661 | 640,600 | 1,220,700 |
| Baskets, rattan and willow ware | 7 | 2,800 | 6 | | 1 | 1,916 | 1,755 | 7,820 |
| Blacksmithing (see also Wheelwrighting) | 49 | 45,110 | 80 | | | 38,528 | 36,875 | 129,315 |
| Bookbinding and blank-book making | 3 | 49,400 | 32 | 22 | | 20,140 | 53,150 | 95,800 |
| Boots and shoes, including custom work and repairing | 115 | 284,000 | 465 | 127 | 25 | 218,019 | 393,225 | 774,262 |
| Boot and shoe uppers | 5 | 14,050 | 23 | 11 | | 18,857 | 69,600 | 102,980 |
| Boxes, wooden, packing | 4 | 58,672 | 56 | | 3 | 27,400 | 55,400 | 107,000 |
| Brass castings | 6 | 69,600 | 52 | | 9 | 20,020 | 80,020 | 114,276 |
| Bread and other bakery products | 69 | 192,000 | 193 | 21 | 6 | 69,431 | 377,311 | 592,925 |
| Brick and tile | 16 | 127,350 | 299 | | 16 | 68,140 | 45,680 | 151,175 |
| Brooms and brushes | 8 | 15,000 | 58 | 8 | 2 | 24,810 | 35,600 | 75,980 |
| Carpentering | 44 | 168,900 | 369 | | 5 | 163,897 | 385,650 | 718,600 |
| Carriages and wagons (see also Wheelwrighting) | 30 | 338,250 | 376 | 2 | 14 | 156,422 | 390,540 | 717,575 |
| Clothing, men's | 35 | 701,800 | 782 | 763 | 4 | 300,511 | 724,536 | 1,308,718 |
| Clothing, women's | 3 | 45,000 | 2 | 220 | 25 | 53,300 | 275,600 | 388,900 |
| Coffee and spices, roasted and ground | 3 | 39,500 | 21 | | 8 | 20,500 | 159,000 | 209,200 |
| Coffins, burial cases, and undertakers' goods | 3 | 110,300 | 68 | 3 | | 29,100 | 41,700 | 120,800 |
| Confectionery | 17 | 170,900 | 90 | 17 | 5 | 38,814 | 151,749 | 263,430 |
| Cooperage | 22 | 272,200 | 537 | | 7 | 254,931 | 368,660 | 762,800 |
| Cutlery and edge tools (see also Hardware) | 5 | 54,600 | 73 | | 1 | 31,979 | 28,600 | 75,350 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF LOUISVILLE, KY.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Dentistry, mechanical | 10 | $32,500 | 8 | | | $6,075 | $14,700 | $49,500 |
| Drugs and chemicals (see also Patent medicines and compounds) | 4 | 23,000 | 13 | | | 5,400 | 22,300 | 46,000 |
| Dyeing and cleaning | 3 | 11,500 | 4 | 3 | | 2,300 | 1,700 | 9,170 |
| Flouring- and grist-mill products | 8 | 260,000 | 94 | | | 35,350 | 837,165 | 953,850 |
| Foundery and machine-shop products (see also Iron work, architectural and ornamental). | 32 | 2,044,750 | 1,533 | | 35 | 612,155 | 1,312,881 | 2,343,030 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 18 | 421,600 | 543 | 4 | 32 | 220,000 | 359,705 | 797,400 |
| Furniture, chairs | 7 | 130,900 | 184 | 10 | 40 | 85,676 | 117,845 | 244,670 |
| Glass | 3 | 295,000 | 132 | 1 | 36 | 32,917 | 37,079 | 123,075 |
| Hairwork | 6 | 8,400 | | 8 | | 2,431 | 10,265 | 25,600 |
| Hardware (see also Cutlery and edge tools) | 3 | 10,500 | 14 | | | 6,850 | 6,500 | 21,800 |
| Ink | 3 | 9,500 | 9 | 2 | | 3,908 | 5,600 | 11,800 |
| Instruments, professional and scientific | 3 | 11,500 | 6 | | | 3,820 | 1,800 | 11,000 |
| Iron and steel | 2 | 392,000 | 468 | | 2 | 149,187 | 305,784 | 514,623 |
| Iron work, architectural and ornamental (see also Foundery and machine-shop products). | 4 | 33,500 | 31 | | | 12,004 | 19,940 | 48,493 |
| Jewelry | 7 | 25,099 | 31 | 2 | 1 | 14,794 | 28,384 | 53,703 |
| Leather, curried | 5 | 94,000 | 43 | | | 11,825 | 228,090 | 275,400 |
| Leather, tanned | 13 | 1,610,000 | 374 | 1 | 10 | 160,653 | 1,261,931 | 1,855,590 |
| Liquors, distilled | 15 | 1,049,000 | 218 | | 1 | 89,855 | 953,900 | 1,382,500 |
| Liquors, malt | 20 | 712,000 | 275 | 1 | 2 | 134,291 | 575,533 | 959,221 |
| Lithographing (see also Printing and publishing) | 4 | 26,200 | 43 | 12 | 10 | 22,324 | 22,526 | 59,270 |
| Lock- and gun-smithing | 3 | 2,100 | 10 | | | 4,458 | 11,500 | 19,400 |
| Looking-glass and picture frames | 4 | 3,162 | 6 | | | 2,130 | 4,510 | 12,040 |
| Lumber, planed (see also Wood, turned and carved) | 9 | 268,768 | 235 | | 2 | 106,475 | 336,997 | 611,204 |
| Lumber, sawed | 3 | 300,000 | 70 | | 7 | 25,582 | 126,375 | 212,500 |
| Marble and stone work | 17 | 140,375 | 167 | | | 80,714 | 133,846 | 319,500 |
| Masonry, brick and stone | 4 | 50,650 | 78 | | 7 | 35,674 | 53,300 | 113,150 |
| Mattresses and spring beds (see also Furniture) | 10 | 15,450 | 35 | 6 | | 15,573 | 40,280 | 75,800 |
| Millinery and lace goods | 7 | 61,000 | 3 | 79 | 5 | 20,240 | 96,600 | 149,900 |
| Mineral and soda waters | 7 | 19,900 | 15 | | 4 | 7,872 | 10,100 | 30,593 |
| Mixed textiles (see also Woolen goods) | 8 | 410,000 | 79 | 154 | 112 | 100,862 | 446,570 | 654,320 |
| Musical instruments, pianos and materials | 5 | 40,700 | 26 | | | 12,833 | 13,800 | 42,200 |
| Painting and paperhanging | 23 | 26,850 | 111 | | 5 | 43,248 | 37,550 | 116,727 |
| Patent medicines and compounds (see also Drugs and chemicals) | 9 | 119,500 | 33 | 10 | 5 | 14,186 | 166,000 | 352,800 |
| Photographing | 11 | 27,900 | 32 | 4 | 1 | 18,306 | 27,650 | 68,685 |
| Plumbing and gasfitting | 17 | 35,650 | 81 | | 3 | 34,560 | 54,421 | 123,975 |
| Printing and publishing (see also Lithographing) | 36 | 1,333,500 | 608 | 104 | 65 | 416,551 | 433,164 | 1,188,067 |
| Pumps, not including steam pumps | 5 | 22,250 | 24 | | 2 | 11,160 | 12,010 | 53,789 |
| Roofing and roofing materials | 8 | 16,300 | 26 | | 2 | 11,687 | 32,700 | 58,350 |
| Saddlery and harness | 35 | 396,150 | 398 | 19 | 23 | 159,571 | 520,525 | 882,542 |
| Shirts | 8 | 64,300 | 9 | 100 | | 19,594 | 30,774 | 65,315 |
| Show-cases | 3 | 2,100 | 6 | | 2 | 1,050 | 2,650 | 6,900 |
| Slaughtering and meat-packing, not including retail butchering | 23 | 2,144,500 | 358 | | 8 | 141,092 | 3,438,459 | 4,287,158 |
| Stone- and earthen-ware | 4 | 10,900 | 23 | | 4 | 8,900 | 4,950 | 18,400 |
| Tinware, copperware, and sheet-iron ware | 45 | 178,900 | 151 | | 5 | 73,548 | 228,395 | 410,030 |
| Tobacco, chewing, smoking and snuff (see also Tobacco, cigars and cigarettes). | 9 | 460,000 | 742 | 436 | 203 | 188,517 | 1,162,891 | 2,312,802 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 54 | 248,237 | 336 | 67 | 111 | 141,148 | 245,863 | 684,842 |
| Trunks and valises | 7 | 59,800 | 98 | | 17 | 44,101 | 72,300 | 164,100 |
| Upholstering (see also Furniture) | 4 | 13,100 | 13 | 3 | | 5,000 | 22,900 | 38,200 |
| Vinegar | 3 | 42,500 | 15 | | | 5,210 | 64,805 | 89,000 |
| Watch and clock repairing | 9 | 5,200 | 5 | | | 3,300 | 1,885 | 15,050 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 10 | 26,750 | 35 | | | 17,534 | 19,250 | 64,500 |
| Wood, turned and carved (see also Lumber, planed) | 6 | 93,000 | 62 | | 36 | 36,299 | 50,756 | 114,767 |
| Woolen goods (see also Mixed textiles) | 4 | 425,000 | 92 | 154 | 114 | 102,212 | 451,970 | 669,079 |
| All other industries (*a*) | 76 | 2,826,140 | 1,155 | 445 | 86 | 495,267 | 2,412,485 | 3,686,539 |

*a* Embracing artificial limbs; awnings and tents; axle-grease; bagging, flax, hemp, and jute; baking and yeast powders; bells; belting and hose, leather; bluing; boxes, cigar; boxes, fancy and paper; bridges; buttons; carriage and wagon materials; carriages and sleds, children's; cars, railroad, street, and repairs; cement; coppersmithing; cordage and twine; cork cutting; cotton goods; drain and sewer pipe; dyeing and finishing textiles; electrical apparatus and supplies; electroplating; files; glass, cut, stained, and ornamented; grease and tallow; handles, wooden; hats and caps; iron bolts, nuts, washers, and rivets; iron forgings; labels and tags; lapidary work; lightning rods; malt; models and patterns; musical instruments, organs and materials; nets and seines; oil, linseed; oleomargarine; paints; paper; pickles, preserves, and sauces; refrigerators; sash, doors, and blinds; saws; scales and balances; shipbuilding; soap and candles; sporting goods; stencils and brands; stereotyping and electrotyping; toys and games; umbrellas and canes; and wirework.

### CITY OF LOWELL, MASS.

[Statistics collected under the direction of FREDERICK HOLTON, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 283 | $20,465,192 | 9,218 | 9,503 | 1,318 | $5,996,591 | $16,315,062 | $33,935,777 |
| Belting and hose, leather | 3 | 49,500 | 21 | | | 12,368 | 116,944 | 144,340 |
| Blacksmithing (see also Wheelwrighting) | 17 | 20,600 | 38 | | | 17,628 | 21,400 | 56,200 |
| Boots and shoes, including custom work and repairing | 10 | 10,750 | 34 | 5 | | 15,110 | 29,609 | 55,448 |
| Boxes, wooden, packing | 3 | 72,000 | 55 | | | 22,900 | 88,430 | 128,800 |
| Bread and other bakery products | 4 | 53,500 | 35 | 3 | 4 | 21,530 | 147,600 | 196,065 |
| Carpentering | 17 | 159,500 | 281 | | 1 | 119,280 | 423,309 | 627,450 |
| Carriages and wagons (see also Wheelwrighting) | 4 | 56,000 | 33 | | | 16,655 | 24,040 | 56,611 |
| Clothing, men's | 5 | 35,500 | 14 | 45 | | 16,695 | 37,225 | 73,050 |
| Confectionery | 5 | 19,300 | 9 | 10 | | 7,987 | 41,760 | 66,976 |
| Cotton goods | 11 | 11,279,011 | 3,430 | 7,846 | 839 | 2,095,036 | 8,064,722 | 19,510,955 |
| Dyeing and finishing textiles | 4 | 3,000,000 | 777 | 120 | 70 | 413,733 | 1,063,324 | 1,993,751 |
| Flouring- and grist-mill products | 4 | 69,000 | 13 | | | 6,701 | 137,866 | 156,765 |
| Foundery and machine-shop products | 37 | 1,216,860 | 1,745 | 19 | 47 | 848,930 | 1,080,046 | 2,378,799 |
| Furniture | 4 | 24,000 | 38 | | | 15,886 | 23,205 | 51,235 |
| Leather, tanned | 3 | 50,000 | 44 | | | 19,423 | 241,659 | 288,452 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF LOWELL, MASS.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Marble and stone work | 9 | $32,650 | 77 | | | $35,813 | $35,463 | $99,860 |
| Masonry, brick and stone | 10 | 54,000 | 217 | | | 86,600 | 133,467 | 276,595 |
| Painting and paperhanging | 8 | 24,800 | 43 | | | 24,130 | 40,305 | 77,900 |
| Patent medicines and compounds | 3 | 278,000 | 144 | 61 | 5 | 116,200 | 261,300 | 550,000 |
| Photographing | 8 | 9,900 | 9 | 6 | | 5,295 | 4,675 | 20,697 |
| Printing and publishing | 6 | 90,000 | 122 | 12 | 42 | 64,905 | 43,014 | 153,432 |
| Saddlery and harness | 7 | 23,500 | 20 | 1 | | 9,293 | 15,175 | 34,693 |
| Sash, doors, and blinds (see also Wood, turned and carved) | 5 | 112,000 | 97 | | 3 | 42,336 | 76,089 | 143,141 |
| Screws | 3 | 18,500 | 19 | | | 8,250 | 11,550 | 26,600 |
| Soap and candles | 5 | 120,000 | 40 | | | 18,066 | 71,682 | 140,875 |
| Tinware, copperware, and sheet-iron ware | 8 | 68,600 | 55 | | | 26,171 | 55,225 | 101,480 |
| Tobacco, cigars and cigarettes | 7 | 6,900 | 15 | | | 6,316 | 7,913 | 21,941 |
| Watch and clock repairing | 3 | 1,600 | 1 | | | 450 | 1,050 | 3,750 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 5 | 4,850 | 8 | | | 3,800 | 5,175 | 12,105 |
| Wood, turned and carved (see also Sash, doors, and blinds) | 3 | 86,000 | 87 | | 12 | 31,640 | 39,860 | 87,420 |
| Woolen goods (see also Worsted goods) | 7 | 1,975,509 | 840 | 705 | 164 | 470,835 | 1,895,781 | 3,326,945 |
| Worsted goods (see also Woolen goods) | 7 | 634,862 | 240 | 486 | 99 | 191,727 | 1,005,625 | 1,367,320 |
| All other industries (*a*) | 48 | 808,000 | 617 | 184 | 32 | 304,982 | 1,050,514 | 1,706,126 |

*a* Embracings awnings and tents; ammunition; bookbinding and blank-book making; boxes, fancy and paper; brass castings; clothing, women's; coffins, burial cases, and undertakers' goods; coppersmithing; cutlery and edge tools; drain and sewer pipe; drugs and chemicals; dyeing and cleaning; felt goods; files; hosiery and knit goods; housefurnishing goods; iron bolts, nuts, washers, and rivets; iron pipe, wrought; iron work, architectural and ornamental; leather, curried; lumber, sawed; mattresses and spring beds; mineral and soda waters; mixed textiles; paper; paving materials; perfumery and cosmetics; plumbing and gasfitting; refrigerators, roofing and roofing materials; scales and balances; shipbuilding; shirts; stencils and brands; trunks and valises; upholstering; and wirework.

### CITY OF LYNN, MASS.

[Statistics collected under the direction of C. M. MERRITT, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 343 | $5,894,575 | 8,894 | 3,489 | 37 | $5,833,849 | $17,433,455 | $26,828,023 |
| Blacking | 7 | 10,200 | 12 | | | 7,480 | 28,350 | 48,808 |
| Blacksmithing (see also Wheelwrighting) | 12 | 8,100 | 26 | | | 15,220 | 10,425 | 36,200 |
| Boot and shoe cut stock | 35 | 605,400 | 284 | 68 | 1 | 204,040 | 3,198,200 | 3,754,500 |
| Boot and shoe findings | 12 | 65,500 | 85 | 49 | 10 | 59,600 | 105,400 | 209,700 |
| Boots and shoes, including custom work and repairing | 125 | 3,595,800 | 6,915 | 3,274 | 13 | 4,685.017 | 9,847,971 | 16,970,432 |
| Boxes, fancy and paper | 4 | 22,000 | 35 | 78 | | 45,750 | 48,000 | 123,500 |
| Bread and other bakery products | 6 | 39,100 | 53 | 2 | 1 | 26,162 | 70,150 | 124,000 |
| Brick and tile | 3 | 19,000 | 39 | | | 9,160 | 11,550 | 26,000 |
| Carpentering | 15 | 36,600 | 142 | | | 79,500 | 213,900 | 375,500 |
| Carriages and wagons (see also Wheelwrighting) | 6 | 35,000 | 51 | | | 31,430 | 53,400 | 103,500 |
| Foundery and machine-shop products | 9 | 76,000 | 97 | | | 51,400 | 53,200 | 144,850 |
| Lasts | 5 | 20,000 | 25 | | | 17,750 | 8,400 | 44,500 |
| Leather, curried | 19 | 474,650 | 421 | 5 | 2 | 230,310 | 1,905,077 | 2,283,672 |
| Leather, tanned | 18 | 436,650 | 318 | | 4 | 170,908 | 1,375,073 | 1,669,087 |
| Marble and stone work | 4 | 6,200 | 19 | | | 8,405 | 9,524 | 23,789 |
| Needles and pins | 3 | 28,000 | 31 | 1 | | 21,000 | 41,800 | 72,500 |
| Painting and paperhanging | 7 | 8,300 | 32 | | | 17,659 | 19,605 | 46,329 |
| Plumbing and gasfitting | 4 | 23,800 | 65 | | | 20,360 | 47,400 | 85,000 |
| Saddlery and harness | 3 | 8,000 | 12 | | | 5,600 | 8,700 | 21,000 |
| Shipbuilding | 3 | 925 | 3 | | | 1,200 | 560 | 1,993 |
| Tinware, copperware, and sheet-iron ware | 4 | 10,500 | 16 | | | 9,400 | 16,500 | 37,200 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 3 | 700 | 4 | | | 2,100 | 1,670 | 5,500 |
| Wood, turned and carved | 4 | 30,000 | 36 | 4 | | 18,600 | 18,200 | 44,400 |
| All other industries (*a*) | 32 | 334,150 | 173 | 8 | 6 | 95,798 | 340,400 | 567,063 |

*a* Embracing bookbinding and blank-book making; boxes, wooden, packing; carriage and wagon materials; confectionery; cutlery and edge tools; engraving and die-sinking; fertilizers; flouring- and grist-mill products; furniture; glue; grindstones; iron nails and spikes, cut and wrought; iron railing, wrought; kindling wood; lumber, sawed; masonry, brick and stone; mineral and soda waters; patent medicines and compounds; sash, doors, and blinds; slaughtering and meat-packing; soap and candles; tobacco, cigars and cigarettes; and upholstering materials.

### CITY OF MANCHESTER, N. H.

[Statistics collected under the direction of CHARLES A. LUCE, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 121 | $15,149,153 | 4,632 | 5,748 | 458 | $3,370,404 | $7,901,066 | $14,136,305 |
| Blacksmithing | 4 | 3,300 | 18 | | | 8,550 | 4,200 | 21,680 |
| Bread and other bakery products | 7 | 5,550 | 20 | 1 | | 8,591 | 85,250 | 109,550 |
| Carpentering | 15 | 92,500 | 105 | | | 46,212 | 210,400 | 374,030 |
| Carriages and wagons | 3 | 44,000 | 47 | | | 23,600 | 28,500 | 63,000 |
| Cotton goods | 5 | 8,808,584 | 2,450 | 4,569 | 229 | 2,019,531 | 4,123,141 | 7,604,568 |
| Flouring- and grist-mill products | 4 | 27,000 | 16 | | | 7,518 | 156,750 | 172,812 |
| Foundery and machine-shop products | 12 | 354,000 | 500 | 19 | 9 | 194,492 | 353,029 | 717,851 |
| Leather, curried | 3 | 42,750 | 26 | | | 10,200 | 68,900 | 96,600 |
| Leather, tanned | 3 | 43,750 | 13 | | | 6,600 | 49,842 | 67,300 |
| Marble and stone work | 4 | 10,000 | 36 | | | 17,600 | 11,900 | 37,000 |
| Painting and paperhanging | 7 | 42,500 | 63 | 18 | | 42,425 | 41,953 | 112,413 |
| Photographing | 5 | 7,000 | 4 | 5 | | 3,880 | 2,309 | 14,550 |
| Plumbing and gasfitting | 3 | 24,000 | 27 | | | 20,160 | 47,380 | 84,118 |
| Saddlery and harness | 3 | 3,950 | 7 | | | 3,200 | 4,800 | 10,700 |
| Sash, doors, and blinds | 3 | 69,000 | 70 | | 3 | 27,600 | 58,000 | 97,000 |
| Tinware, copperware, and sheet-iron ware | 5 | 11,300 | 15 | 1 | | 5,250 | 9,100 | 20,000 |
| Tobacco, cigars and cigarettes | 3 | 8,500 | 14 | 3 | | 7,946 | 8,750 | 23,810 |
| All other industries (*a*) | 32 | 5,550,469 | 1,187 | 1,132 | 217 | 917,049 | 2,636,871 | 4,509,323 |

*a* Embracing belting and hose, leather; bookbinding and blank-book making; boots and shoes, including custom work and repairing; brass castings; brooms and brushes; carriage and wagon materials; confectionery; cooperage; dyeing and finishing textiles; emery wheels; files; furniture; hosiery and knit goods; liquors, malt; lumber, planed; lumber, sawed; masonry, brick and stone; paper; sewing machines and attachments; shoddy; soap and candles; stone- and earthen-ware; upholstering; wood, turned and carved; woolen goods; and worsted goods.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF MEMPHIS, TENN.

[Statistics collected under the direction of WILLIAM A. HILL, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 138 | $2,313,975 | 2,130 | 69 | 69 | $845,672 | $2,419,341 | $4,413,422 |
| Boots and shoes, including custom work and repairing | 3 | 5,000 | 12 | ..... | ..... | 4,800 | 3,376 | 10,600 |
| Bread and other bakery products | 7 | 16,800 | 33 | ..... | 1 | 10,050 | 37,200 | 68,000 |
| Carpentering | 5 | 12,750 | 29 | ..... | ..... | 17,300 | 29,700 | 64,500 |
| Carriages and wagons (see also Wheelwrighting) | 6 | 178,400 | 158 | 2 | 1 | 51,250 | 55,250 | 176,500 |
| Clothing, men's | 8 | 32,100 | 85 | 39 | ..... | 63,000 | 65,000 | 175,500 |
| Confectionery | 5 | 32,500 | 53 | 3 | 2 | 18,050 | 110,500 | 160,000 |
| Foundery and machine-shop products | 9 | 140,800 | 189 | 2 | 9 | 83,114 | 91,274 | 252,400 |
| Lock- and gun-smithing | 5 | 4,600 | 9 | ..... | 1 | 4,150 | 3,300 | 11,200 |
| Lumber, sawed | 5 | 196,000 | 166 | ..... | 2 | 22,500 | 212,400 | 300,660 |
| Marble and stone work | 6 | 22,200 | 26 | ..... | ..... | 9,100 | 12,150 | 38,900 |
| Oil, cottonseed and cake | 5 | 535,000 | 415 | 2 | 18 | 120,000 | 550,000 | 835,000 |
| Painting and paperhanging | 3 | 13,500 | 26 | ..... | ..... | 5,653 | 7,300 | 20,500 |
| Plumbing and gasfitting | 6 | 17,400 | 58 | ..... | 6 | 19,500 | 30,400 | 73,000 |
| Printing and publishing | 4 | 92,000 | 101 | 6 | 5 | 67,246 | 52,939 | 165,714 |
| Saddlery and harness | 4 | 17,950 | 39 | ..... | ..... | 18,400 | 35,450 | 75,020 |
| Tinware, copperware, and sheet-iron ware | 10 | 104,500 | 88 | 10 | ..... | 42,899 | 99,500 | 203,000 |
| Upholstering | 4 | 55,000 | 22 | 3 | ..... | 11,445 | 7,308 | 34,000 |
| Wheelwrighting (see also Carriages and wagons) | 5 | 1,400 | 16 | ..... | ..... | 3,500 | 2,200 | 7,700 |
| All other industries (*a*) | 38 | 836,075 | 605 | 2 | 24 | 272,515 | 1,014,094 | 1,741,228 |

*a* Embracing agricultural implements; blacksmithing; bookbinding and blank-book making; brick and tile; brooms and brushes; cars, railroad, street, and repairs; clothing, women's; corsets; cotton compressing; cotton goods; cotton-ties; flouring- and grist-mill products; furnishing goods, men's; liquors, malt; looking-glass and picture frames; lumber, planed; masonry, brick and stone; mineral and soda waters; musical instruments and materials (not specified); photographing; sash, doors, and blinds; scales and balances; sewing machines and attachments; shipbuilding; slaughtering and meat-packing; soap and candles; stencils and brands; stone- and earthen-ware; tobacco, cigars and cigarettes; and trunks and valises.

### CITY OF MILWAUKEE, WIS.

[Statistics collected under the direction of A. A. SOPER, Chief Special Agent. See Note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 844 | $18,766,914 | 16,015 | 3,922 | 949 | $6,946,105 | $28,975,872 | $43,473,812 |
| Baskets, rattan and willow ware | 4 | 90,600 | 108 | 15 | 161 | 46,660 | 38,825 | 114,300 |
| Blacksmithing (see also Wheelwrighting) | 34 | 54,850 | 103 | ..... | ..... | 52,264 | 31,410 | 122,540 |
| Bookbinding and blank-book making | 7 | 21,700 | 56 | 47 | 18 | 31,505 | 26,681 | 78,713 |
| Boots and shoes, including custom work and repairing | 59 | 296,275 | 462 | 55 | 9 | 162,263 | 380,074 | 665,183 |
| Brass castings | 6 | 108,300 | 140 | 2 | 2 | 51,112 | 76,436 | 167,114 |
| Bread and other bakery products | 36 | 61,350 | 102 | 16 | 29 | 37,254 | 255,449 | 358,866 |
| Brick and tile | 5 | 328,500 | 346 | ..... | 43 | 89,720 | 77,276 | 225,808 |
| Brooms and brushes | 4 | 13,000 | 50 | 5 | ..... | 15,240 | 16,720 | 47,620 |
| Carpentering | 47 | 149,780 | 745 | ..... | ..... | 311,581 | 543,315 | 986,685 |
| Carpets, rag | 5 | 5,100 | 19 | 25 | ..... | 4,000 | 12,550 | 22,350 |
| Carriages and wagons (see also Wheelwrighting) | 11 | 97,000 | 142 | ..... | 2 | 62,265 | 76,500 | 184,000 |
| Clothing, men's | 52 | 1,895,128 | 1,902 | 2,350 | 50 | 912,657 | 2,243,365 | 3,763,987 |
| Clothing, women's | 4 | 64,000 | 34 | 163 | ..... | 29,000 | 109,000 | 147,100 |
| Coffee and spices, roasted and ground | 9 | 257,621 | 125 | 19 | 15 | 89,550 | 693,042 | 931,640 |
| Confectionery | 4 | 144,054 | 110 | 30 | 20 | 43,542 | 378,370 | 474,922 |
| Cooperage | 39 | 142,250 | 526 | ..... | 35 | 234,115 | 337,880 | 630,445 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 3 | 41,500 | 20 | ..... | ..... | 10,692 | 22,870 | 44,392 |
| Cordage and twine | 3 | 5,000 | 9 | ..... | ..... | 3,200 | 10,000 | 16,600 |
| Dentistry, mechanical | 5 | 8,000 | 10 | 1 | 2 | 4,500 | 10,500 | 30,000 |
| Drugs and chemicals | 6 | 40,872 | 15 | 12 | ..... | 9,386 | 55,179 | 85,393 |
| Flouring- and grist-mill products | 11 | 1,066,000 | 265 | ..... | ..... | 136,266 | 3,795,289 | 4,204,708 |
| Foundery and machine-shop products | 30 | 1,286,445 | 1,437 | ..... | 30 | 673,392 | 1,173,907 | 2,252,784 |
| Furnishing goods, men's | 3 | 7,000 | 7 | 9 | 1 | 1,890 | 17,000 | 28,850 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 16 | 329,800 | 497 | 14 | 15 | 212,501 | 223,301 | 568,268 |
| Furs, dressed | 3 | 61,000 | 14 | 38 | 5 | 25,000 | 89,500 | 136,000 |
| Hairwork | 3 | 8,500 | ..... | 11 | ..... | 2,800 | 6,050 | 13,200 |
| Hand-knit goods | 5 | 26,000 | 2 | 538 | 52 | 14,500 | 45,500 | 83,000 |
| Hardware | 5 | 11,700 | 19 | ..... | 10 | 8,600 | 14,900 | 32,160 |
| Hats and caps, not including wool hats | 3 | 26,000 | 8 | 14 | ..... | 7,500 | 17,928 | 34,000 |
| Jewelry | 4 | 15,000 | 18 | ..... | ..... | 8,316 | 31,000 | 47,000 |
| Leather, curried | 17 | 800,425 | 375 | ..... | ..... | 160,441 | 1,874,595 | 2,219,978 |
| Leather, dressed skins | 5 | 71,500 | 46 | ..... | ..... | 20,900 | 67,925 | 104,581 |
| Leather, tanned | 17 | 1,008,525 | 407 | ..... | ..... | 173,861 | 1,612,400 | 2,101,195 |
| Lithographing (see also Printing and publishing) | 4 | 69,125 | 116 | 2 | 13 | 57,751 | 79,640 | 166,860 |
| Liquors, distilled | 2 | 142,000 | 20 | ..... | ..... | 9,180 | 95,425 | 145,650 |
| Liquors, malt | 13 | 4,732,900 | 1,040 | ..... | ..... | 525,573 | 2,259,345 | 4,034,319 |
| Looking-glass and picture frames | 4 | 12,975 | 10 | ..... | ..... | 7,222 | 19,900 | 35,470 |
| Lumber, planed (see also Sash, doors, and blinds) | 3 | 70,000 | 115 | 4 | 11 | 35,000 | 50,000 | 117,000 |
| Marble and stone work | 11 | 95,800 | 167 | ..... | 2 | 73,256 | 106,450 | 220,396 |
| Masonry, brick and stone | 4 | 8,500 | 27 | ..... | 2 | 12,000 | 14,000 | 34,750 |
| Mattresses and spring beds (see also Furniture) | 4 | 3,800 | 8 | 5 | 2 | 2,550 | 12,000 | 17,500 |
| Mineral and soda waters | 6 | 34,200 | 44 | 5 | 5 | 14,208 | 31,450 | 62,950 |
| Painting and paperhanging | 31 | 53,950 | 204 | ..... | 2 | 68,105 | 95,607 | 206,546 |
| Plumbing and gasfitting | 8 | 47,600 | 95 | ..... | 1 | 43,606 | 71,700 | 138,400 |
| Printing and publishing (see also Lithographing) | 24 | 434,700 | 518 | 48 | 48 | 268,270 | 200,486 | 675,087 |
| Pumps, not including steam pumps | 4 | 4,075 | 9 | ..... | ..... | 3,150 | 4,022 | 11,500 |
| Saddlery and harness | 29 | 73,300 | 107 | ..... | 38 | 44,451 | 112,620 | 199,525 |
| Sash, doors, and blinds (see also Lumber, planed) | 7 | 261,000 | 512 | ..... | 18 | 139,100 | 303,000 | 557,000 |
| Shipbuilding | 8 | 136,500 | 227 | ..... | ..... | 110,413 | 133,963 | 301,705 |
| Shirts | 3 | 2,100 | 4 | 17 | ..... | 4,990 | 5,790 | 17,050 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF MILWAUKEE, WIS.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Slaughtering and meat-packing, not including retail butchering | 7 | $789,000 | 928 | ..... | 25 | $187,596 | $5,529,618 | $6,099,486 |
| Soap and candles | 5 | 120,000 | 50 | 4 | 11 | 24,620 | 204,100 | 280,000 |
| Stone- and earthen-ware | 8 | 69,700 | 67 | ..... | ..... | 17,511 | 21,755 | 66,600 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing) | 29 | 95,950 | 150 | ..... | 4 | 56,687 | 106,994 | 215,544 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 3 | 331,000 | 200 | 6 | 20 | 78,500 | 786,645 | 978,281 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 56 | 238,375 | 733 | 4 | 77 | 301,934 | 344,939 | 835,506 |
| Trunks and valises | 4 | 183,000 | 218 | ..... | 45 | 76,720 | 115,800 | 244,600 |
| Upholstering (see also Furniture) | 6 | 11,900 | 46 | ..... | ..... | 22,800 | 97,500 | 146,500 |
| Vinegar | 5 | 62,000 | 32 | ..... | ..... | 18,415 | 42,000 | 149,000 |
| Watch and clock repairing | 4 | 4,100 | 8 | ..... | 1 | 3,780 | 4,800 | 12,675 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 13 | 47,500 | 67 | ..... | ..... | 27,870 | 29,800 | 80,950 |
| Wirework | 5 | 4,750 | 8 | ..... | ..... | 3,140 | 3,185 | 10,885 |
| All other industries (*a*) | 69 | 2,084,830 | 2,160 | 468 | 125 | 1,059,440 | 3,728,001 | 6,437,945 |

*a* Embracing agricultural implements; artificial feathers and flowers; artificial limbs; bags, paper; baking and yeast powders; boot and shoe uppers; boxes, cigar; boxes, fancy and paper; boxes, wooden, packing; bridges; carriages and sleds, children's; carriage and wagon materials; drain and sewer pipe; dyeing and cleaning; electroplating; engraving and die-sinking; engraving, wood; fertilizers; files; food preparations; furniture, chairs; galvanizing; gloves and mittens; ink; iron and steel; lightning rods; lumber, sawed; mixed textiles; models and patterns; musical instruments, organs and materials; musical instruments, pianos and materials; oil, linseed; paints; patent medicines and compounds; pickles, preserves, and sauces; refrigerators; roofing and roofing materials; safes, doors, and vaults, fire-proof; scales and balances; show-cases; starch; steam fittings and heating apparatus; stencils and brands; stereotyping and electrotyping; straw goods; tools; toys and games; type founding; wood preserving; wood, turned and carved; and woolen goods.

### CITY OF MINNEAPOLIS, MINN.

[Statistics collected under the direction of CHARLES W. JOHNSON, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 401 | $9,002,650 | 4,702 | 457 | 185 | $2,582,253 | $24,274,623 | $29,973,476 |
| Blacksmithing (see also Wheelwrighting) | 20 | 30,250 | 68 | ..... | ..... | 39,695 | 43,313 | 132,200 |
| Boots and shoes, including custom work and repairing | 34 | 153,050 | 100 | 4 | ..... | 63,500 | 123,280 | 240,265 |
| Boxes, fancy and paper | 3 | 1,600 | 3 | 4 | 5 | 2,085 | 1,900 | 6,800 |
| Bread and other bakery products | 7 | 32,300 | 44 | 10 | 1 | 19,250 | 139,960 | 185,355 |
| Brick and tile | 6 | 21,000 | 108 | ..... | ..... | 37,350 | 11,200 | 65,600 |
| Carpentering | 13 | 36,700 | 164 | ..... | ..... | 88,500 | 188,800 | 343,000 |
| Carriages and wagons (see also Wheelwrighting) | 13 | 40,100 | 102 | ..... | ..... | 56,930 | 78,300 | 174,700 |
| Clothing, men's | 25 | 105,675 | 190 | 40 | 5 | 118,150 | 197,750 | 386,700 |
| Cooperage | 11 | 68,000 | 282 | ..... | 35 | 148,914 | 235,514 | 447,152 |
| Flouring- and grist-mill products | 29 | 3,820,500 | 721 | ..... | ..... | 555,069 | 19,011,239 | 20,502,303 |
| Foundery and machine-shop products | 15 | 474,700 | 380 | ..... | ..... | 200,500 | 451,640 | 807,783 |
| Furniture (see also Mattresses and spring beds) | 14 | 126,300 | 190 | 2 | 1 | 88,450 | 125,000 | 273,000 |
| Furs, dressed | 4 | 7,700 | 3 | 16 | ..... | 3,960 | 15,200 | 25,800 |
| Liquors, malt | 3 | 180,000 | 58 | 1 | ..... | 25,083 | 106,870 | 190,678 |
| Lock- and gun-smithing | 4 | 2,200 | 7 | ..... | ..... | 3,950 | 2,200 | 10,700 |
| Lumber, planed (see also Sash, doors, and blinds) | 6 | 66,500 | 81 | ..... | ..... | 32,742 | 49,950 | 131,577 |
| Lumber, sawed | 16 | 2,405,000 | 877 | 13 | 30 | 374,500 | 1,649,430 | 2,740,848 |
| Marble and stone work | 5 | 16,300 | 40 | ..... | ..... | 17,050 | 22,300 | 53,600 |
| Mattresses and spring beds (see also Furniture) | 3 | 9,000 | 17 | 3 | ..... | 7,000 | 17,500 | 37,000 |
| Mineral and soda waters | 5 | 10,600 | 14 | ..... | ..... | 5,400 | 12,300 | 23,200 |
| Photographing | 6 | 25,500 | 12 | 4 | ..... | 7,880 | 5,100 | 23,376 |
| Plumbing and gasfitting | 3 | 26,500 | 35 | ..... | ..... | 17,100 | 49,300 | 79,000 |
| Printing and publishing | 14 | 142,000 | 196 | 10 | 13 | 123,900 | 104,000 | 321,500 |
| Pumps, not including steam pumps | 3 | 5,500 | 17 | ..... | ..... | 7,500 | 12,000 | 24,500 |
| Saddlery and harness | 14 | 36,950 | 71 | ..... | ..... | 33,560 | 55,100 | 118,400 |
| Sash, doors, and blinds (see also Lumber, planed) | 5 | 201,000 | 246 | ..... | 35 | 112,746 | 374,000 | 601,193 |
| Slaughtering and meat-packing, not including retail butchering | 4 | 39,000 | 37 | ..... | 1 | 14,300 | 197,990 | 270,000 |
| Tinware, copperware, and sheet-iron ware | 21 | 37,200 | 88 | ..... | ..... | 42,870 | 87,175 | 174,300 |
| Tobacco, cigars and cigarettes | 5 | 12,650 | 28 | ..... | ..... | 16,350 | 19,400 | 52,700 |
| Watch and clock repairing | 14 | 7,475 | 22 | ..... | 1 | 11,300 | 7,480 | 30,400 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 9 | 8,600 | 20 | ..... | ..... | 14,541 | 12,761 | 36,377 |
| All other industries (*a*) | 58 | 846,800 | 472 | 350 | 58 | 291,528 | 866,671 | 1,463,467 |

*a* Embracing agricultural implements; awnings and tents; bags, other than paper; bookbinding and blank-book making; boxes, wooden, packing; brass castings; brooms and brushes; carpets, rag; coffee and spices, roasted and ground; confectionery; corsets; cotton goods; cutlery and edge tools; drain and sewer pipe; dyeing and cleaning; electroplating; files; flavoring extracts; furnishing goods, men's; glass, cut, stained, and ornamented; gloves and mittens; hosiery and knit goods; iron work, architectural and ornamental; leather, dressed skins; looking-glass and picture frames; masonry, brick and stone; models and patterns; musical instruments, organs and materials; oil, linseed; oil, lubricating; painting and paperhanging; paper; pickles, preserves, and sauces; saws; shirts; show-cases; soap and candles; steam fittings and heating apparatus; stencils and brands; tools; trunks and valises; washing-machines and clothes-wringers; wirework; wood, turned and carved; and woolen goods.

### CITY OF MOBILE, ALA.

[Statistics collected under the direction of ERWIN LEDYARD, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 91 | $525,708 | 622 | 37 | 45 | $261,648 | $830,961 | $1,335,570 |
| Blacksmithing | 7 | 900 | 9 | ..... | ..... | 4,176 | 1,830 | 8,000 |
| Boots and shoes, including custom work and repairing | 6 | 3,300 | 10 | 2 | ..... | 6,400 | 6,700 | 17,500 |
| Bread and other bakery products | 9 | 25,200 | 25 | 4 | 2 | 9,558 | 42,470 | 75,000 |
| Carpentering | 9 | 11,600 | 117 | ..... | ..... | 37,080 | 73,500 | 127,750 |
| Carriages and wagons | 4 | 10,400 | 26 | ..... | ..... | 12,600 | 19,500 | 43,100 |
| Flouring- and grist-mill products | 6 | 28,000 | 49 | ..... | ..... | 18,000 | 329,500 | 387,500 |
| Foundery and machine-shop products | 5 | 59,808 | 73 | ..... | 5 | 28,550 | 19,547 | 59,900 |
| Furniture | 3 | 3,700 | 8 | 1 | 1 | 2,400 | 7,750 | 13,850 |
| Lumber, sawed | 3 | 147,000 | 105 | ..... | ..... | 39,500 | 111,000 | 185,000 |
| Painting and paperhanging | 3 | 5,500 | 14 | ..... | ..... | 4,700 | 4,500 | 13,500 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF MOBILE, ALA.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Printing and publishing | 5 | $37,000 | 27 | ..... | ..... | $17,740 | $27,941 | $58,375 |
| Saddlery and harness | 3 | 10,600 | 7 | ..... | 1 | 3,750 | 6,200 | 13,140 |
| Tinware, copperware, and sheet-iron ware | 7 | 12,950 | 28 | ..... | ..... | 10,600 | 28,400 | 52,750 |
| Tobacco, cigars and cigarettes | 5 | 8,300 | 19 | ..... | 2 | 9,816 | 7,000 | 19,000 |
| All other industries (a) | 16 | 161,450 | 105 | 30 | 34 | 56,773 | 145,123 | 261,414 |

a Embracing bookbinding and blank-book making; brooms and brushes; confectionery; cotton goods; lock- and gun-smithing; lumber, planed; marble and stone work; plumbing and gasfitting; sash, doors, and blinds; scales and balances; shipbuilding; and wheelwrighting.

### CITY OF NASHVILLE, TENN.

[Statistics collected under the direction of FRANC M. PAUL, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 268 | $3,892,380 | 3,815 | 538 | 438 | $1,312,765 | $5,312,527 | $8,597,278 |
| Blacksmithing | 22 | 7,625 | 38 | ..... | 2 | 13,995 | 19,126 | 51,038 |
| Bookbinding and blank-book making | 4 | 49,000 | 20 | 21 | 3 | 12,650 | 41,125 | 74,200 |
| Boots and shoes, including custom work and repairing | 27 | 17,225 | 71 | 1 | 4 | 28,633 | 37,685 | 95,159 |
| Bread and other bakery products | 9 | 90,700 | 77 | 6 | 7 | 32,040 | 165,674 | 250,967 |
| Brick and tile | 4 | 57,000 | 164 | ..... | 51 | 38,920 | 27,060 | 80,938 |
| Carpentering | 17 | 56,450 | 213 | ..... | ..... | 92,142 | 162,190 | 302,205 |
| Carriages and wagons | 9 | 385,500 | 515 | ..... | ..... | 68,550 | 404,460 | 780,331 |
| Clothing, men's | 4 | 15,500 | 20 | 203 | 10 | 22,600 | 57,200 | 97,875 |
| Coffins, burial cases, and undertakers' goods | 4 | 6,850 | 10 | ..... | ..... | 4,750 | 14,250 | 38,550 |
| Confectionery | 3 | 24,000 | 14 | 73 | 10 | 11,500 | 113,000 | 146,225 |
| Cooperage | 6 | 6,300 | 53 | ..... | ..... | 19,105 | 24,140 | 63,650 |
| Flouring- and grist-mill products | 6 | 385,000 | 96 | ..... | ..... | 51,172 | 1,315,721 | 1,542,516 |
| Foundery and machine-shop products | 13 | 143,300 | 206 | ..... | 7 | 69,755 | 288,786 | 487,467 |
| Furniture | 7 | 189,000 | 278 | 7 | 105 | 105,178 | 244,445 | 489,625 |
| Leather, curried | 3 | 36,000 | 18 | ..... | ..... | 7,300 | 169,362 | 187,010 |
| Leather, tanned | 4 | 59,000 | 31 | ..... | 3 | 18,000 | 121,735 | 174,791 |
| Lock- and gun-smithing | 5 | 3,400 | 2 | ..... | 1 | 1,025 | 3,000 | 7,925 |
| Looking-glass and picture frames | 4 | 11,500 | 25 | ..... | 4 | 8,164 | 15,375 | 31,675 |
| Lumber, sawed | 7 | 330,000 | 458 | ..... | 44 | 114,600 | 248,836 | 520,125 |
| Marble and stone work | 5 | 25,500 | 92 | ..... | ..... | 32,240 | 36,425 | 114,446 |
| Painting and paperhanging | 7 | 11,000 | 40 | ..... | ..... | 20,615 | 25,275 | 66,468 |
| Patent medicines and compounds | 7 | 61,500 | 31 | ..... | 3 | 11,769 | 27,750 | 80,300 |
| Plumbing and gasfitting | 6 | 20,000 | 52 | ..... | 1 | 20,725 | 64,358 | 101,950 |
| Printing and publishing | 17 | 495,400 | 222 | 32 | 40 | 163,314 | 144,437 | 436,981 |
| Saddlery and harness | 11 | 32,600 | 131 | 1 | 10 | 42,075 | 133,450 | 235,430 |
| Tinware, copperware, and sheet-iron ware | 12 | 118,150 | 148 | ..... | 2 | 47,003 | 101,870 | 254,698 |
| Tobacco, cigars and cigarettes | 3 | 2,200 | 11 | ..... | 2 | 4,110 | 3,800 | 14,310 |
| Watch and clock repairing | 8 | 7,300 | 13 | ..... | ..... | 12,125 | 10,095 | 31,030 |
| All other industries (a) | 34 | 1,245,380 | 766 | 194 | 120 | 237,810 | 1,291,957 | 1,839,403 |

a Embracing bags, paper; baskets, rattan and willow ware; boxes, wooden, packing; brooms and brushes; coffee and spices, roasted and ground; corsets; cotton goods; electroplating; furniture, chairs; instruments, professional and scientific; liquors, distilled; liquors, malt; masonry, brick and stone; mattresses and spring beds; mineral and soda waters; oil, cottonseed and cake; pumps; sash, doors, and blinds; show-cases; slaughtering and meat-packing; stencils and brands; trunks and valises; wooden ware; and woolen goods.

### CITY OF NEWARK, N. J.

[Statistics collected under the direction of P. T. QUINN, Chief Special Agent. See Note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 1,319 | $25,679,885 | 22,151 | 5,246 | 2,649 | $13,171,339 | $44,604,335 | $69,252,765 |
| Blacksmithing (see also Wheelwrighting) | 45 | 19,425 | 70 | ..... | 3 | 36,030 | 30,637 | 109,258 |
| Boot and shoe uppers | 4 | 18,100 | 11 | 6 | 2 | 10,072 | 30,940 | 51,000 |
| Boots and shoes, including custom work and repairing | 44 | 452,760 | 793 | 233 | 72 | 562,331 | 1,148,583 | 1,949,872 |
| Boxes, fancy and paper | 9 | 96,800 | 82 | 333 | 57 | 114,838 | 120,350 | 357,450 |
| Brass castings | 11 | 135,000 | 197 | 4 | 6 | 94,630 | 100,468 | 273,110 |
| Bread and other bakery products | 83 | 181,460 | 249 | 9 | 16 | 139,415 | 677,948 | 999,211 |
| Brooms and brushes | 9 | 29,375 | 39 | 20 | 10 | 29,158 | 40,817 | 89,192 |
| Buttons | 17 | 188,100 | 376 | 199 | 158 | 258,510 | 224,500 | 613,380 |
| Carpentering | 62 | 222,550 | 1,072 | ..... | 23 | 554,510 | 653,618 | 1,300,874 |
| Carpets, rag | 8 | 2,185 | 5 | ..... | ..... | 1,772 | 2,620 | 7,709 |
| Carriage and wagon materials | 4 | 123,475 | 95 | ..... | ..... | 53,969 | 93,461 | 202,506 |
| Carriages and wagons (see also Wheelwrighting) | 16 | 264,450 | 243 | 1 | 6 | 142,603 | 186,450 | 422,817 |
| Celluloid and celluloid goods | 5 | 1,209,000 | 452 | 174 | 109 | 242,408 | 388,202 | 1,251,540 |
| Cement | 4 | 215,300 | 76 | ..... | ..... | 34,045 | 79,650 | 140,700 |
| Clothing, men's | 42 | 469,144 | 463 | 559 | 27 | 448,898 | 1,155,044 | 2,077,351 |
| Clothing, women's | 4 | 21,500 | 10 | 23 | ..... | 10,325 | 34,800 | 59,300 |
| Coffee and spices, roasted and ground | 3 | 50,000 | 19 | ..... | ..... | 11,280 | 49,350 | 77,784 |
| Coffins, burial cases, and undertakers' goods | 3 | 95,000 | 33 | ..... | 6 | 20,880 | 35,000 | 93,500 |
| Confectionery | 13 | 87,100 | 129 | 14 | 6 | 62,277 | 367,905 | 521,350 |
| Cooperage | 3 | 1,600 | 7 | ..... | ..... | 3,115 | 5,950 | 11,415 |
| Corsets | 8 | 103,800 | 53 | 340 | 61 | 113,698 | 213,080 | 368,133 |
| Cotton goods | 3 | 1,314,000 | 305 | 894 | 155 | 433,955 | 545,462 | 1,598,397 |
| Cutlery and edge tools (see also Hardware) | 22 | 274,211 | 433 | 1 | 78 | 243,132 | 195,172 | 548,705 |
| Dentistry, mechanical | 23 | 51,500 | 7 | 2 | 7 | 6,285 | 22,834 | 96,484 |
| Drugs and chemicals | 15 | 1,590,150 | 417 | 25 | 22 | 202,406 | 766,982 | 1,280,329 |
| Engraving and die-sinking | 11 | 70,300 | 62 | 7 | 8 | 43,555 | 15,582 | 89,954 |
| Fancy articles | 12 | 178,000 | 337 | 31 | 162 | 247,351 | 158,915 | 542,499 |
| Files | 6 | 50,900 | 139 | 8 | 29 | 74,150 | 72,250 | 169,145 |
| Flouring- and grist-mill products | 4 | 55,000 | 20 | ..... | ..... | 9,201 | 186,400 | 225,118 |
| Foundery and machine-shop products | 52 | 1,460,350 | 1,269 | 4 | 60 | 683,364 | 910,772 | 1,957,177 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF NEWARK, N. J.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Furniture (see also Mattresses and spring beds; Upholstering) | 10 | $153,450 | 128 | 3 | 15 | $69,520 | $93,770 | $218,603 |
| Furs, dressed | 3 | 23,200 | 13 | 9 | 5 | 10,285 | 42,315 | 78,495 |
| Glass, cut, stained, and ornamented | 4 | 33,000 | 29 | ..... | 4 | 16,890 | 36,912 | 61,693 |
| Gold and silver, reduced and refined | 4 | 60,000 | 20 | ..... | 1 | 9,350 | 368,386 | 424,500 |
| Hardware (see also Cutlery and edge tools) | 28 | 292,350 | 279 | 22 | 41 | 130,863 | 376,743 | 672,736 |
| Hardware, saddlery | 35 | 750,200 | 788 | 133 | 150 | 410,836 | 756,541 | 1,524,608 |
| Hat and cap materials | 4 | 19,500 | 41 | 7 | 1 | 24,300 | 15,300 | 57,530 |
| Hats and caps, not including wool hats | 33 | 721,300 | 1,637 | 572 | 104 | 909,315 | 1,269,130 | 2,595,578 |
| Ink | 3 | 12,700 | 13 | 1 | 4 | 5,500 | 16,500 | 29,000 |
| Iron and steel | 3 | 600,000 | 281 | ..... | ..... | 126,144 | 471,946 | 771,078 |
| Jewelry | 65 | 2,517,899 | 1,726 | 259 | 178 | 1,087,446 | 1,931,054 | 4,002,677 |
| Kindling wood | 13 | 11,450 | 41 | ..... | 10 | 17,766 | 28,620 | 62,723 |
| Lamps and reflectors | 3 | 42,500 | 29 | 1 | 20 | 19,550 | 11,860 | 48,600 |
| Lapidary work | 6 | 5,400 | 25 | ..... | 4 | 9,900 | 8,200 | 29,506 |
| Leather, curried | 32 | 1,863,183 | 1,207 | 25 | 77 | 729,112 | 6,744,728 | 8,300,722 |
| Leather, tanned | 27 | 1,652,350 | 1,142 | 3 | 66 | 680,973 | 4,952,176 | 6,345,856 |
| Liquors, malt | 19 | 1,612,800 | 689 | ..... | ..... | 305,993 | 1,592,798 | 2,812,300 |
| Looking-glass and picture frames | 7 | 17,530 | 18 | ..... | 8 | 11,156 | 26,750 | 47,050 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 3 | 24,000 | 60 | ..... | 16 | 27,850 | 57,330 | 104,785 |
| Marble and stone work | 14 | 122,135 | 216 | ..... | 34 | 177,359 | 108,710 | 364,775 |
| Masonry, brick and stone | 8 | 56,000 | 58 | ..... | 11 | 30,811 | 59,000 | 108,546 |
| Mattresses and spring beds (see also Furniture) | 3 | 2,550 | 5 | 2 | 1 | 3,074 | 10,500 | 17,900 |
| Mineral and soda waters | 8 | 35,200 | 46 | ..... | 6 | 22,669 | 53,970 | 93,147 |
| Models and patterns | 5 | 5,250 | 9 | ..... | ..... | 4,351 | 2,624 | 12,077 |
| Painting and paperhanging | 28 | 20,875 | 87 | ..... | 10 | 48,648 | 65,975 | 156,159 |
| Photographing | 11 | 14,650 | 22 | 1 | 4 | 13,289 | 10,004 | 41,252 |
| Plumbing and gasfitting | 43 | 200,050 | 179 | ..... | 18 | 104,975 | 185,420 | 382,356 |
| Printing and publishing | 23 | 273,950 | 262 | 25 | 27 | 169,463 | 156,200 | 422,505 |
| Saddlery and harness | 38 | 494,625 | 628 | 69 | 25 | 274,753 | 674,430 | 1,180,404 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 12 | 231,375 | 283 | 30 | 19 | 136,825 | 191,089 | 386,996 |
| Sewing machines and attachments | 6 | 203,300 | 1,009 | ..... | ..... | 430,054 | 602,100 | 1,062,150 |
| Shirts | 11 | 171,900 | 60 | 513 | 21 | 164,549 | 264,094 | 507,806 |
| Silk and silk goods | 3 | 328,500 | 95 | 158 | 61 | 105,140 | 280,390 | 468,250 |
| Slaughtering and meat-packing, not including retail butchering | 7 | 232,000 | 88 | ..... | ..... | 53,822 | 1,368,288 | 1,527,660 |
| Soap and candles | 3 | 20,300 | 7 | ..... | 1 | 2,450 | 8,866 | 14,095 |
| Springs, steel, car, and carriage | 3 | 66,393 | 87 | ..... | 1 | 44,050 | 125,250 | 191,100 |
| Stationery goods | 6 | 42,000 | 44 | 4 | 14 | 20,748 | 17,040 | 58,200 |
| Stone- and earthen-ware | 6 | 38,700 | 42 | 1 | 3 | 24,138 | 10,694 | 53,750 |
| Tinware, copperware, and sheet-iron ware | 8 | 210,700 | 256 | 37 | 72 | 118,916 | 359,584 | 515,913 |
| Tobacco, cigars and cigarettes | 61 | 153,745 | 176 | 46 | 33 | 102,892 | 331,672 | 550,372 |
| Trunks and valises | 13 | 786,800 | 1,106 | 90 | 167 | 549,322 | 1,059,855 | 2,013,923 |
| Umbrellas and canes | 3 | 650 | 2 | ..... | 1 | 1,248 | 1,179 | 6,400 |
| Upholstering (see also Furniture) | 4 | 3,300 | 6 | 1 | 3 | 2,850 | 4,355 | 9,680 |
| Upholstering materials | 3 | 62,500 | 45 | 76 | 15 | 39,600 | 75,000 | 126,000 |
| Varnish | 16 | 390,000 | 78 | ..... | 3 | 52,262 | 521,007 | 792,774 |
| Watch and clock repairing | 12 | 14,500 | 15 | ..... | 1 | 10,800 | 14,500 | 52,830 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 23 | 43,550 | 46 | ..... | 7 | 25,791 | 28,135 | 75,060 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 10 | 20,050 | 27 | ..... | 7 | 16,090 | 30,716 | 52,860 |
| All other industries (*a*) | 72 | 1,944,990 | 1,538 | 271 | 207 | 910,780 | 10,670,327 | 12,239,934 |

*a* Embracing agricultural implements; awnings and tents; belting and hose, leather; bookbinding; boot and shoe findings; brick and tile; carriages and sleds, children's; clocks; cordage and twine; cork cutting; dyeing and cleaning; electric lights; electroplating; felt goods; fertilizers; food preparations; gas machines and meters; hammocks; handles, wooden; hosiery and knit goods; instruments, professional and scientific; iron railing, wrought; ivory and bone work; lasts; lime; lock- and gun-smithing; lumber, sawed; mixed textiles; mucilage and paste; musical instruments, pianos and materials; oil, lubricating; oilcloth, enameled; oilcloth, floor; paints; pickles, preserves, and sauces; refrigerators; roofing and roofing materials; rubber and elastic goods; sand and emery paper and cloth; saws; shipbuilding; silversmithing; silverware; smelting and refining; sporting goods; sugar and molasses, refined; surgical appliances; toys and games; watch and clock materials; wirework; and wooden ware.

### CITY OF NEW BEDFORD, MASS.

[Statistics collected under direction of C. W. CHAPMAN, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 330 | $7,681,062 | 3,915 | 1,538 | 359 | $2,058,751 | $5,907,874 | $9,835,955 |
| Blacksmithing (see also Wheelwrighting) | 22 | 25,150 | 60 | ..... | ..... | 22,596 | 23,200 | 64,425 |
| Boots and shoes, including custom work and repairing | 12 | 135,550 | 201 | 63 | ..... | 99,834 | 252,900 | 386,825 |
| Bread and other bakery products | 6 | 73,300 | 85 | 1 | ..... | 31,713 | 210,433 | 265,755 |
| Carpentering | 40 | 53,950 | 225 | ..... | ..... | 82,935 | 160,228 | 277,976 |
| Carriages and wagons (see also Wheelwrighting) | 5 | 92,000 | 111 | ..... | ..... | 53,466 | 72,396 | 148,290 |
| Clothing, men's | 3 | 8,000 | 3 | 23 | ..... | 3,202 | 20,300 | 30,150 |
| Confectionery | 3 | 9,000 | 8 | 10 | ..... | 5,700 | 22,640 | 34,140 |
| Cooperage | 13 | 71,600 | 79 | ..... | ..... | 27,200 | 67,150 | 111,880 |
| Foundery and machine-shop products | 7 | 252,370 | 205 | 13 | ..... | 93,237 | 100,927 | 262,774 |
| Furniture (see also Upholstering) | 5 | 9,300 | 17 | ..... | ..... | 7,060 | 4,100 | 12,710 |
| Leather, curried | 4 | 46,800 | 60 | 1 | ..... | 21,982 | 194,634 | 234,630 |
| Leather, tanned | 3 | 42,200 | 36 | ..... | ..... | 13,881 | 73,388 | 90,772 |
| Lumber, planed (see also Sash, doors, and blinds) | 4 | 12,600 | 19 | ..... | ..... | 8,328 | 8,548 | 21,500 |
| Marble and stone work | 8 | 10,350 | 39 | ..... | ..... | 18,723 | 10,791 | 35,695 |
| Masonry, brick and stone | 17 | 7,850 | 77 | ..... | ..... | 33,416 | 23,850 | 69,551 |
| Painting and paperhanging | 22 | 28,300 | 112 | ..... | ..... | 33,226 | 48,500 | 113,545 |
| Photographing | 10 | 110,200 | 143 | 91 | ..... | 57,000 | 60,550 | 144,900 |
| Plumbing and gasfitting | 4 | 4,200 | 10 | ..... | ..... | 4,694 | 9,100 | 16,250 |
| Printing and publishing | 6 | 37,000 | 66 | 3 | 10 | 44,580 | 47,620 | 112,600 |
| Pumps, not including steam pumps | 3 | 3,700 | 6 | ..... | ..... | 1,475 | 1,500 | 4,645 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF NEW BEDFORD, MASS.—Continued.

| Manufacturing and mechanical industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Saddlery and harness | 7 | $12,900 | 22 | ..... | 1 | $10,240 | $21,500 | $37,030 |
| Sash, doors, and blinds (see also Lumber, planed) | 3 | 36,000 | 41 | ..... | ..... | 19,200 | 29,200 | 64,600 |
| Shipbuilding | 23 | 40,575 | 115 | ..... | ..... | 69,366 | 113,589 | 195,944 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 18,000 | 10 | ..... | ..... | 2,600 | 205,450 | 232,970 |
| Soap and candles | 10 | 900,000 | 93 | 11 | ..... | 49,276 | 1,094,373 | 1,288,981 |
| Tinware, copperware, and sheet-iron ware | 11 | 36,100 | 58 | ..... | ..... | 23,815 | 45,500 | 88,250 |
| Tobacco, cigars and cigarettes | 6 | 11,500 | 15 | 2 | ..... | 7,150 | 16,750 | 28,620 |
| Upholstering (see also Furniture) | 3 | 3,500 | 14 | 7 | ..... | 7,000 | 5,800 | 16,000 |
| Watch and clock repairing | 4 | 5,900 | 10 | 1 | ..... | 4,900 | 1,025 | 7,570 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 10 | 6,000 | 18 | ..... | ..... | 6,875 | 6,670 | 19,835 |
| All other industries (a) | 53 | 5,583,187 | 1,957 | 1,312 | 348 | 1,194,081 | 2,955,202 | 5,416,296 |

a Embracing blacking; bookbinding and blank-book making; boxes, fancy and paper; boxes, wooden, packing; brass and copper, rolled; brass castings; brick and tile; brooms and brushes; cleansing and polishing preparations; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; cordage and twine; cotton goods; drugs and chemicals; electroplating; files; flouring- and grist-mill products; furnishing goods, men's; glass; glass, cut, stained, and ornamented; hairwork; hats and caps; ink; instruments, professional and scientific; iron and steel; jewelry; kindling wood; lock-and gun-smithing; looking-glass and picture frames; mattresses and spring beds; mineral and soda waters; models and patterns; oil, lubricating; paints; paving materials; roofing and roofing materials; shirts; sporting goods; steam fittings and heating apparatus; and wirework.

### CITY OF NEW HAVEN, CONN.

[Statistics collected under the direction of T. ATTWATER BARNES, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 587 | $9,703,737 | 9,998 | 4,780 | 378 | $5,761,374 | $14,482,163 | $24,040,225 |
| Blacksmithing | 28 | 17,300 | 52 | ..... | 3 | 28,872 | 24,950 | 82,250 |
| Bookbinding and blank-book making | 5 | 67,500 | 82 | 16 | 3 | 40,399 | 61,713 | 134,875 |
| Boots and shoes, including custom work and repairing | 10 | 26,600 | 79 | 34 | 3 | 51,038 | 70,277 | 157,460 |
| Boxes, fancy and paper | 3 | 31,000 | 47 | 280 | 3 | 64,000 | 115,687 | 223,814 |
| Brass castings | 6 | 104,000 | 168 | 8 | ..... | 85,800 | 121,060 | 275,000 |
| Bread and other bakery products | 30 | 108,250 | 102 | 28 | 14 | 83,996 | 343,190 | 475,892 |
| Brooms and brushes | 3 | 6,500 | 10 | 2 | ..... | 4,300 | 11,000 | 20,800 |
| Carpentering | 47 | 144,034 | 287 | ..... | 1 | 143,257 | 300,957 | 494,734 |
| Carriage and wagon materials | 17 | 399,199 | 234 | 3 | ..... | 125,236 | 150,972 | 360,675 |
| Carriages and wagons | 26 | 910,400 | 956 | 11 | 6 | 553,892 | 810,529 | 1,699,154 |
| Clothing, men's | 44 | 463,966 | 400 | 350 | ..... | 291,375 | 583,698 | 1,122,080 |
| Clothing, women's | 10 | 2,500 | 25 | 15 | ..... | 6,900 | 42,240 | 54,960 |
| Coffee and spices, roasted and ground | 4 | 55,000 | 22 | 4 | 2 | 15,100 | 127,000 | 161,000 |
| Confectionery | 10 | 32,650 | 37 | 22 | 8 | 19,257 | 97,353 | 169,450 |
| Corsets | 9 | 500,600 | 193 | 2,614 | 17 | 448,500 | 1,300,459 | 2,100,459 |
| Cutlery and edge tools (see also Hardware; Tools) | 3 | 25,800 | 40 | ..... | ..... | 25,000 | 6,400 | 43,600 |
| Drain and sewer pipe | 3 | 47,003 | 22 | ..... | ..... | 8,500 | 13,000 | 26,500 |
| Foundery and machine-shop products (see also Steam fittings and heating apparatus). | 20 | 292,750 | 376 | ..... | 12 | 203,350 | 364,091 | 637,894 |
| Furniture (see also Upholstering) | 9 | 143,600 | 142 | 4 | 2 | 64,164 | 95,915 | 193,102 |
| Hardware (see also Cutlery and edge tools; Tools) | 11 | 978,500 | 1,851 | 48 | 39 | 945,815 | 753,716 | 1,954,260 |
| Marble and stone work | 10 | 34,100 | 68 | ..... | ..... | 27,058 | 24,925 | 67,494 |
| Masonry, brick and stone | 18 | 70,400 | 227 | ..... | ..... | 107,466 | 162,607 | 305,585 |
| Matches | 3 | 118,000 | 62 | 78 | ..... | 42,195 | 268,219 | 355,876 |
| Models and patterns | 5 | 3,750 | 21 | ..... | ..... | 13,515 | 5,010 | 28,200 |
| Painting and paperhanging | 27 | 32,100 | 131 | ..... | 3 | 63,207 | 69,074 | 175,775 |
| Paper | 3 | 135,500 | 39 | 12 | 2 | 15,500 | 81,560 | 173,400 |
| Patent medicines and compounds | 4 | 80,800 | 15 | 4 | ..... | 7,320 | 82,650 | 120,800 |
| Photographing | 14 | 15,000 | 15 | 4 | 2 | 9,500 | 15,000 | 52,000 |
| Plumbing and gasfitting | 18 | 83,500 | 115 | ..... | 5 | 58,459 | 99,100 | 193,125 |
| Printing and publishing | 12 | 234,000 | 156 | 5 | 3 | 118,382 | 58,225 | 247,000 |
| Saddlery and harness | 15 | 23,700 | 47 | ..... | ..... | 20,883 | 32,486 | 73,520 |
| Sash, doors, and blinds | 3 | 226,000 | 131 | ..... | ..... | 68,025 | 152,167 | 241,401 |
| Shipbuilding | 8 | 39,350 | 70 | ..... | ..... | 34,431 | 50,570 | 102,226 |
| Slaughtering and meat-packing, not including retail butchering | 6 | 222,000 | 360 | ..... | 5 | 180,609 | 3,734,851 | 4,160,780 |
| Soap and candles | 5 | 19,000 | 15 | 1 | ..... | 5,498 | 51,100 | 65,095 |
| Springs, steel, car, and carriage | 4 | 173,000 | 114 | ..... | ..... | 65,500 | 116,360 | 255,600 |
| Steam fittings and heating apparatus (see also Foundery and machine-shop products). | 3 | 92,500 | 39 | ..... | ..... | 19,374 | 65,153 | 109,328 |
| Tinware, copperware, and sheet-iron ware | 8 | 36,075 | 30 | ..... | ..... | 15,161 | 22,626 | 45,300 |
| Tobacco, cigars and cigarettes | 23 | 92,550 | 101 | 17 | 6 | 60,361 | 90,752 | 214,561 |
| Tools (see also Cutlery and edge tools; Hardware) | 3 | 238,000 | 127 | ..... | 2 | 74,538 | 81,500 | 248,035 |
| Upholstering (see also Furniture) | 3 | 6,200 | 9 | 4 | ..... | 5,300 | 6,600 | 14,300 |
| All other industries (a) | 94 | 3,371,000 | 2,921 | 1,266 | 237 | 1,545,712 | 3,868,421 | 6,393,165 |

a Embracing agricultural implements; ammunition; artificial limbs; awnings and tents; bags, paper; baking and yeast powders; baskets, rattan and willow ware; blacking; boots and shoes, rubber; boxes, cigar; boxes, wooden, packing; brick and tile; bridges; buttons; carpets, rag; carriages and sleds, children's; clock cases and materials; clocks; coffins, burial cases, and undertakers' goods; cooperage; drugs and chemicals; dyeing and cleaning; engraving and die-sinking; files; fire-arms; flavoring extracts; food preparations; hand-stamps; hats and caps; iron and steel; iron bolts, nuts, washers, and rivets; iron forgings; iron railing, wrought; iron work, architectural and ornamental; ivory and bone work; jewelry and instrument cases; kaolin and ground earths; lamps and reflectors; leather, curried; lime; lithographing; liquors, distilled; lock- and gun-smithing; lumber, sawed; mattresses and spring beds; millinery and lace goods; mixed textiles; musical instruments, organs and materials; musical instruments, pianos and materials; oleomargarine; paints; photographic apparatus; pumps; rubber and elastic goods; saws; screws; shirts; silk and silk goods; sporting goods; starch; stereotyping and electrotyping; stone- and earthen-ware; toys and games; varnish; vinegar; wheelwrighting; window blinds and shades; wire; wirework; and wood, turned and carved.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF NEW ORLEANS, LA.

[Statistics collected under the direction of E. A. DESLONDE, Chief Special Agent. See note on page 379.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 915 | $8,565,303 | 7,666 | 1,286 | 552 | $3,717,557 | $10,771,892 | $18,808,000 |
| Blacksmithing (see also Wheelwrighting) | 64 | 31,020 | 147 | 1 | 8 | 71,965 | 53,975 | 185,673 |
| Bookbinding and blank-book making | 6 | 11,000 | 16 | ..... | 3 | 10,211 | 5,520 | 24,309 |
| Boot and shoe findings | 9 | 57,200 | 40 | 2 | 6 | 20,270 | 98,932 | 171,080 |
| Boots and shoes, including custom work and repairing | 64 | 43,200 | 269 | ..... | 6 | 116,809 | 174,745 | 307,531 |
| Boxes, fancy and paper | 4 | 14,000 | 41 | 12 | 46 | 29,483 | 59,400 | 125,028 |
| Boxes, wooden, packing | 4 | 15,200 | 15 | 12 | 6 | 7,572 | 10,220 | 25,200 |
| Bread and other bakery products | 99 | 109,020 | 317 | 8 | 17 | 120,766 | 540,450 | 981,169 |
| Brooms and brushes | 6 | 11,750 | 63 | ..... | 3 | 22,614 | 80,381 | 134,619 |
| Carpentering | 22 | 58,600 | 262 | ..... | 4 | 138,595 | 226,400 | 439,850 |
| Carriages and wagons (see also Wheelwrighting) | 8 | 38,700 | 92 | ..... | 6 | 51,196 | 46,500 | 135,600 |
| Clothing, men's | 33 | 190,300 | 276 | 628 | 30 | 175,971 | 743,407 | 1,078,569 |
| Clothing, women's | 6 | 83,000 | 2 | 273 | ..... | 43,875 | 113,353 | 189,278 |
| Coffee and spices, roasted and ground | 3 | 1,300 | 3 | ..... | 1 | 1,524 | 9,510 | 11,876 |
| Coffins, burial cases, and undertakers' goods | 7 | 2,900 | 9 | ..... | ..... | 2,911 | 4,122 | 13,866 |
| Confectionery | 21 | 132,800 | 86 | 11 | 17 | 33,754 | 274,571 | 303,010 |
| Cooperage | 53 | 53,650 | 256 | ..... | ..... | 109,839 | 105,704 | 270,018 |
| Cordials and sirups | 4 | 48,000 | 30 | ..... | ..... | 11,966 | 43,060 | 82,000 |
| Cotton compressing | 19 | 2,135,000 | 560 | ..... | ..... | 399,780 | 105,788 | 747,500 |
| Dentistry, mechanical | 3 | 9,200 | 6 | ..... | 3 | 5,350 | 8,250 | 20,150 |
| Drugs and chemicals | 7 | 16,700 | 13 | ..... | ..... | 4,190 | 8,850 | 22,750 |
| Dyeing and cleaning | 12 | 6,925 | 13 | 3 | 1 | 5,080 | 3,890 | 22,850 |
| Flouring- and grist-mill products | 4 | 69,600 | 31 | ..... | ..... | 13,823 | 248,480 | 317,000 |
| Food preparations (see page 39) | 4 | 16,000 | 12 | 1 | 3 | 5,328 | 19,600 | 47,880 |
| Foundery and machine-shop products (see also Iron work, architectural and ornamental). | 20 | 738,375 | 748 | ..... | 9 | 405,745 | 596,800 | 1,228,300 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 33 | 32,976 | 62 | 1 | 6 | 30,281 | 35,429 | 104,593 |
| Galvanizing | 3 | 700 | 1 | ..... | ..... | 360 | 700 | 3,050 |
| Hairwork | 6 | 6,100 | 6 | 6 | ..... | 3,592 | 6,900 | 17,000 |
| Instruments, professional and scientific | 3 | 1,600 | 3 | ..... | ..... | 1,260 | 1,700 | 5,460 |
| Iron work, architectural and ornamental (see also Foundery and machine-shop products). | 3 | 1,800 | 10 | ..... | ..... | 3,477 | 4,200 | 14,500 |
| Liquors, malt | 8 | 157,613 | 113 | ..... | ..... | 54,992 | 295,353 | 457,744 |
| Lithographing (see also Printing and publishing) | 3 | 2,000 | 8 | ..... | ..... | 4,500 | 3,250 | 13,500 |
| Lock- and gun-smithing | 12 | 2,600 | 11 | ..... | ..... | 2,700 | 1,980 | 11,670 |
| Looking-glass and picture frames | 5 | 7,050 | 6 | ..... | 1 | 2,892 | 8,575 | 16,550 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 7 | 78,500 | 98 | ..... | 4 | 44,873 | 102,610 | 207,280 |
| Lumber, sawed | 6 | 152,200 | 53 | ..... | ..... | 17,505 | 180,985 | 234,340 |
| Marble and stone work | 11 | 62,550 | 65 | ..... | ..... | 32,575 | 61,208 | 134,400 |
| Masonry, brick and stone | 16 | 17,500 | 85 | ..... | 15 | 36,500 | 30,700 | 90,100 |
| Mattresses and spring beds (see also Furniture) | 3 | 3,450 | 8 | 1 | ..... | 2,712 | 25,500 | 39,200 |
| Mineral and soda waters | 7 | 29,100 | 37 | ..... | ..... | 18,312 | 24,350 | 75,900 |
| Oil, cottonseed and cake | 7 | 785,500 | 836 | 15 | 65 | 275,165 | 1,630,150 | 2,751,150 |
| Painting and paperhanging | 12 | 10,425 | 98 | ..... | ..... | 30,412 | 33,860 | 80,000 |
| Photographing | 12 | 39,100 | 37 | 6 | 2 | 27,300 | 19,399 | 79,765 |
| Plumbing and gasfitting | 9 | 16,300 | 31 | ..... | ..... | 17,441 | 40,500 | 71,600 |
| Printing and publishing (see also Lithographing) | 25 | 303,050 | 503 | 4 | 17 | 407,946 | 220,600 | 704,036 |
| Rice cleaning and polishing | 6 | 225,000 | 162 | ..... | ..... | 56,040 | 1,328,387 | 1,573,281 |
| Saddlery and harness | 23 | 169,500 | 144 | 1 | 15 | 74,674 | 204,750 | 370,505 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 4 | 285,000 | 159 | ..... | ..... | 81,800 | 246,000 | 492,000 |
| Shipbuilding | 17 | 145,200 | 194 | ..... | ..... | 99,300 | 101,965 | 263,050 |
| Soap and candles | 12 | 118,450 | 45 | ..... | 6 | 19,790 | 89,990 | 142,405 |
| Sugar and molasses, refined | 4 | 385,000 | 190 | ..... | ..... | 50,000 | 1,340,000 | 1,483,000 |
| Surgical appliances | 3 | 1,550 | 5 | ..... | ..... | 2,070 | 1,675 | 6,060 |
| Tinware, copperware, and sheet-iron ware | 34 | 94,300 | 110 | ..... | 3 | 51,271 | 105,800 | 199,550 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 8 | 348,000 | 127 | 6 | 88 | 70,540 | 242,100 | 424,085 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 47 | 175,674 | 680 | 187 | 87 | 179,999 | 152,156 | 506,612 |
| Upholstering (see also Furniture) | 12 | 8,325 | 15 | ..... | ..... | 3,335 | 9,575 | 20,040 |
| Upholstering materials | 3 | 30,000 | 21 | 41 | 2 | 19,530 | 100,000 | 153,008 |
| Watch and clock repairing | 13 | 11,660 | 23 | ..... | ..... | 14,795 | 8,346 | 32,370 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 10 | 13,900 | 25 | ..... | 1 | 7,708 | 7,825 | 25,112 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 3 | 5,400 | 11 | ..... | ..... | 6,225 | 21,542 | 30,404 |
| All other industries (a) | 43 | 044,250 | 377 | 67 | 71 | 156,822 | 426,954 | 855,300 |

*a* Embracing bags, other than paper; baskets, rattan and willow ware; brick and tile; brass castings; cars, railroad, street, and repairs; cordage and twine; cork cutting; cotton goods; cutlery and edge tools; fertilizers; flags and banners; fruits and vegetables, canned and preserved; gold and silver, reduced and refined; hammocks; hardware; ice, artificial; japanning; leather, curried; leather, tanned; liquors, distilled; mirrors; patent medicines and compounds; perfumery and cosmetics; plated and britannia ware; pumps; stencils and brands; stone- and earthen-ware; trunks and valises; umbrellas and canes; and vinegar.

### CITY OF NEWPORT, KY.

[Statistics collected under the direction of JOHN H. BODLEY, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 94 | $1,700,715 | 1,008 | 35 | 105 | $711,019 | $2,526,936 | $3,900,995 |
| Boots and shoes, including custom work and repairing | 8 | 20,300 | 29 | 8 | 6 | 15,330 | 19,800 | 43,875 |
| Bread and other bakery products | 14 | 17,500 | 19 | ..... | 4 | 7,611 | 8,925 | 19,600 |
| Carpentering | 11 | 45,300 | 46 | ..... | 4 | 16,335 | 47,236 | 103,836 |
| Carriages and wagons (see also Wheelwrighting) | 8 | 31,000 | 25 | ..... | ..... | 11,120 | 18,500 | 45,600 |
| Foundery and machine-shop products | 3 | 117,500 | 280 | ..... | 3 | 89,011 | 309,707 | 471,349 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF NEWPORT, KY.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Iron and steel | 3 | $640,000 | 760 | ..... | ..... | $305,500 | $1,359,990 | $2,033,950 |
| Marble and stone work | 3 | 5,500 | 16 | ..... | ..... | 7,500 | 5,000 | 17,000 |
| Tinware, copperware, and sheet-iron ware | 4 | 5,500 | 12 | ..... | 1 | 3,700 | 3,500 | 9,400 |
| Tobacco, cigars and cigarettes | 23 | 16,800 | 51 | ..... | 13 | 17,000 | 22,360 | 49,000 |
| Wheelwrighting (see also Carriages and wagons) | 4 | 2,800 | 11 | ..... | ..... | 3,503 | 2,200 | 7,550 |
| All other industries (*a*) | 18 | 799,015 | 359 | 27 | 74 | 233,809 | 729,718 | 1,196,435 |

*a* Embracing agricultural implements; awnings and tents; boxes, cigar; brick and tile; clothing, men's; confectionery; flouring- and grist-mill products; gold and silver leaf and foil; liquors, malt; lumber, planed; lumber, sawed; mineral and soda waters; printing and publishing; saddlery and harness; watch cases; and wheelbarrows.

### CITY OF NEW YORK, N. Y.

[Statistics collected under the direction of CHARLES E. HILL, Chief Special Agent. See Note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 11,339 | $181,206,356 | 146,179 | 71,795 | 9,378 | $97,030,021 | $288,441,691 | $472,926,437 |
| Artificial feathers and flowers (see also Millinery and lace goods) | 141 | 1,090,100 | 453 | 2,941 | 104 | 934,768 | 2,241,302 | 4,298,084 |
| Artificial limbs (see also Surgical appliances) | 7 | 23,500 | 17 | ..... | ..... | 11,137 | 6,056 | 44,020 |
| Awnings and tents | 23 | 108,600 | 120 | 77 | 7 | 74,212 | 314,808 | 457,035 |
| Bags, other than paper | 7 | 655,500 | 259 | 406 | 82 | 317,850 | 2,919,600 | 3,584,300 |
| Bags, paper | 10 | 69,700 | 123 | 95 | ..... | 74,709 | 154,600 | 299,847 |
| Baskets, rattan and willow ware | 21 | 82,080 | 69 | 29 | 8 | 35,715 | 77,822 | 171,030 |
| Belting and hose, leather | 11 | 399,209 | 234 | 18 | 5 | 150,694 | 1,362,800 | 1,699,729 |
| Billiard tables and materials | 7 | 315,469 | 100 | ..... | 2 | 63,174 | 278,443 | 430,330 |
| Blacking | 4 | 110,500 | 86 | ..... | ..... | 56,500 | 171,000 | 432,660 |
| Blacksmithing (see also Wheelwrighting) | 205 | 282,463 | 548 | ..... | 31 | 367,959 | 284,517 | 937,144 |
| Bookbinding and blank-book making | 114 | 2,340,650 | 1,837 | 2,059 | 172 | 1,553,704 | 2,290,627 | 4,927,886 |
| Boot and shoe findings | 7 | 22,350 | 27 | 8 | 14 | 18,687 | 34,692 | 81,100 |
| Boot and shoe uppers | 18 | 45,934 | 48 | 33 | 2 | 33,468 | 97,952 | 180,702 |
| Boots and shoes, including custom work and repairing | 899 | 1,898,669 | 4,326 | 1,078 | 183 | 2,474,050 | 3,621,822 | 7,663,000 |
| Boxes, cigar | 20 | 340,800 | 441 | 225 | 144 | 301,042 | 433,218 | 1,035,549 |
| Boxes, fancy and paper | 55 | 672,075 | 615 | 1,655 | 85 | 671,620 | 1,044,409 | 2,173,565 |
| Boxes, wooden, packing | 33 | 358,500 | 491 | ..... | 24 | 306,682 | 715,790 | 1,242,844 |
| Brass castings | 64 | 885,171 | 1,074 | 62 | 194 | 576,971 | 884,737 | 1,826,845 |
| Bread and other bakery products | 782 | 2,032,036 | 2,443 | 283 | 111 | 1,275,723 | 6,045,762 | 9,415,424 |
| Brooms and brushes | 45 | 729,750 | 506 | 146 | 42 | 281,924 | 981,918 | 1,573,561 |
| Buttons | 9 | 155,000 | 93 | 693 | 66 | 178,618 | 167,336 | 491,027 |
| Carpentering | 460 | 1,745,782 | 3,438 | ..... | 61 | 2,242,060 | 3,454,265 | 7,096,315 |
| Carriages and sleds, children's | 9 | 127,000 | 267 | 7 | 4 | 127,260 | 216,840 | 434,569 |
| Carriages and wagons (see also Wheelwrighting) | 139 | 1,133,900 | 1,517 | ..... | 85 | 965,719 | 1,041,825 | 2,613,361 |
| Cars, railroad, street, and repairs | 13 | 316,748 | 339 | ..... | 9 | 200,776 | 269,532 | 547,037 |
| Chocolate | 4 | 55,500 | 39 | 44 | ..... | 26,203 | 157,403 | 257,153 |
| Cloth finishing | 8 | 13,600 | 42 | ..... | 2 | 17,188 | 20,656 | 91,129 |
| Clothing, men's | 736 | 22,390,893 | 30,444 | 16,972 | 231 | 14,012,805 | 40,209,340 | 60,794,697 |
| Clothing, women's | 230 | 4,805,665 | 1,569 | 10,750 | 47 | 3,836,715 | 11,745,305 | 18,930,553 |
| Coffee and spices, roasted and ground | 30 | 1,439,650 | 363 | 64 | 13 | 267,670 | 4,766,520 | 5,974,458 |
| Coffins, burial cases, and undertakers' goods | 45 | 530,500 | 273 | 136 | 9 | 218,175 | 525,503 | 1,098,103 |
| Combs | 3 | 2,300 | 10 | ..... | 1 | 7,008 | 4,125 | 13,719 |
| Confectionery | 187 | 1,521,758 | 1,003 | 629 | 115 | 542,775 | 3,057,099 | 4,592,622 |
| Cooperage | 44 | 257,800 | 450 | ..... | 5 | 243,922 | 501,288 | 895,571 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 25 | 435,702 | 308 | ..... | 1 | 260,184 | 591,313 | 925,289 |
| Cork cutting | 11 | 53,600 | 31 | 19 | 4 | 20,710 | 55,666 | 121,148 |
| Corsets | 21 | 179,900 | 61 | 950 | 104 | 193,493 | 383,061 | 685,273 |
| Cotton goods (see also Hosiery and knit goods; Mixed textiles) | 5 | 522,500 | 120 | 79 | 36 | 96,704 | 367,188 | 532,542 |
| Cutlery and edge tools (see also Hardware) | 21 | 41,900 | 66 | ..... | 2 | 43,791 | 17,113 | 93,760 |
| Drugs and chemicals (see also Patent medicines and compounds) | 27 | 2,027,923 | 383 | 198 | 7 | 305,969 | 2,630,415 | 3,694,178 |
| Dyeing and cleaning | 27 | 30,825 | 44 | 20 | ..... | 28,845 | 18,820 | 82,750 |
| Dyeing and finishing textiles | 23 | 475,500 | 373 | 54 | 20 | 247,445 | 194,544 | 690,236 |
| Electroplating | 58 | 170,050 | 385 | 44 | 27 | 213,405 | 153,812 | 572,718 |
| Enameling | 8 | 16,700 | 14 | 9 | ..... | 8,820 | 9,174 | 38,083 |
| Engravers' materials | 7 | 48,200 | 56 | 3 | ..... | 32,320 | 21,964 | 70,500 |
| Engraving and die-sinking | 98 | 143,780 | 252 | 4 | 47 | 143,792 | 89,636 | 448,486 |
| Engraving, steel | 21 | 531,300 | 455 | 189 | 60 | 1,154,510 | 384,214 | 1,798,550 |
| Engraving, wood | 58 | 16,178 | 133 | 4 | 5 | 102,986 | 13,709 | 218,305 |
| Fancy articles | 48 | 433,700 | 593 | 328 | 52 | 362,589 | 392,849 | 1,001,205 |
| Fertilizers | 8 | 502,000 | 193 | ..... | 5 | 88,463 | 172,122 | 314,961 |
| Flags and banners | 4 | 32,000 | 5 | 31 | ..... | 14,800 | 25,500 | 60,000 |
| Flavoring extracts | 5 | 19,500 | 14 | 5 | 1 | 8,625 | 38,648 | 63,362 |
| Flouring- and grist-mill products | 15 | 1,870,625 | 418 | ..... | ..... | 289,741 | 5,183,154 | 6,229,926 |
| Food preparations (see page 39) | 10 | 237,000 | 85 | 26 | 3 | 66,263 | 338,857 | 476,901 |
| Foundery and machine-shop products (see also Steam fittings and heating apparatus.) | 287 | 10,635,508 | 9,352 | 31 | 370 | 5,373,142 | 6,223,805 | 14,710,835 |
| Fruits and vegetables, canned and preserved | 4 | 200,000 | 69 | 178 | ..... | 56,200 | 335,000 | 450,000 |
| Furnishing goods, men's | 49 | 1,377,200 | 348 | 1,829 | 39 | 719,897 | 2,435,352 | 4,038,380 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 299 | 4,353,683 | 5,531 | 192 | 215 | 3,361,306 | 4,204,602 | 9,605,779 |
| Furs, dressed | 60 | 1,950,875 | 820 | 1,588 | 22 | 868,615 | 2,943,357 | 4,474,018 |
| Galvanizing | 8 | 273,000 | 229 | ..... | 12 | 122,620 | 351,800 | 850,770 |
| Gas and lamp fixtures | 14 | 2,105,000 | 1,369 | 28 | 98 | 793,678 | 905,565 | 2,549,628 |
| Glass, cut, stained, and ornamented | 98 | 557,980 | 813 | 86 | 127 | 432,500 | 845,654 | 1,747,501 |
| Gloves and mittens (see also Hosiery and knit goods) | 5 | 492,000 | 31 | 127 | ..... | 63,600 | 569,950 | 916,500 |
| Gold and silver leaf and foil | 20 | 144,500 | 240 | 102 | 8 | 177,690 | 320,810 | 554,172 |
| Gold and silver, reduced and refined | 8 | 143,000 | 78 | ..... | ..... | 52,852 | 2,525,795 | 2,614,877 |
| Grease and tallow | 11 | 461,334 | 278 | 3 | 6 | 160,074 | 6,242,761 | 6,871,175 |
| Hairwork | 43 | 132,575 | 67 | 236 | 11 | 111,512 | 236,646 | 510,309 |
| Hand-knit goods | 6 | 3,100 | 2 | 42 | ..... | 7,162 | 8,917 | 19,722 |
| Hand-stamps | 13 | 33,200 | 48 | ..... | 1 | 25,478 | 23,330 | 99,560 |
| Hardware (see also Cutlery and edge tools) | 67 | 568,590 | 923 | 18 | 77 | 543,979 | 615,199 | 1,479,492 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

CITY OF NEW YORK, N. Y.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Hat and cap materials | 38 | $387,228 | 408 | 274 | 15 | $275,214 | $651,092 | $1,157,826 |
| Hats and caps, not including wool hats | 111 | 1,033,575 | 1,283 | 1,302 | 46 | 1,120,846 | 2,097,760 | 4,008,503 |
| Hosiery and knit goods (see also Cotton goods; Gloves and mittens) | 8 | 310,000 | 81 | 367 | 53 | 174,340 | 376,760 | 664,214 |
| Housefurnishing goods | 5 | 11,250 | 21 | ..... | 11 | 11,108 | 9,994 | 27,243 |
| Ink | 3 | 59,000 | 24 | 10 | 7 | 13,030 | 136,000 | 181,500 |
| Instruments, professional and scientific | 44 | 304,750 | 235 | 4 | 8 | 143,446 | 97,430 | 389,307 |
| Iron bolts, nuts, washers, and rivets | 9 | 115,050 | 122 | 6 | 2 | 60,849 | 144,720 | 249,222 |
| Iron pipe, wrought | 7 | 329,500 | 142 | ..... | 12 | 56,519 | 468,071 | 626,065 |
| Iron railing, wrought | 29 | 104,450 | 180 | ..... | 5 | 119,352 | 146,015 | 358,170 |
| Ivory and bone work | 8 | 166,972 | 171 | 59 | 14 | 91,040 | 191,774 | 333,919 |
| Japanning | 9 | 8,750 | 22 | ..... | 15 | 13,876 | 4,283 | 30,100 |
| Jewelry | 240 | 2,531,838 | 1,962 | 213 | 106 | 1,365,611 | 2,533,916 | 5,002,198 |
| Kindling wood | 41 | 475,850 | 442 | 8 | 88 | 217,042 | 727,958 | 1,213,088 |
| Lamps and reflectors | 20 | 267,000 | 296 | 3 | 9 | 171,499 | 243,739 | 602,567 |
| Lapidary work | 26 | 99,250 | 90 | 11 | 16 | 80,226 | 128,682 | 313,230 |
| Lard, refined | 11 | 786,360 | 492 | ..... | 10 | 254,883 | 14,317,826 | 14,758,718 |
| Lasts | 3 | 7,500 | 19 | 2 | ..... | 9,219 | 3,600 | 28,510 |
| Lead, bar, pipe, sheet, and shot | 7 | 848,575 | 95 | 3 | 1 | 53,145 | 1,189,492 | 1,619,217 |
| Leather, curried | 14 | 234,110 | 78 | ..... | ..... | 50,393 | 336,532 | 447,310 |
| Leather goods | 45 | 481,100 | 781 | 129 | 37 | 425,280 | 951,573 | 1,762,278 |
| Leather, tanned | 9 | 1,065,500 | 375 | 23 | 17 | 171,418 | 909,219 | 1,161,177 |
| Liquors, malt | 79 | 13,491,000 | 4,245 | ..... | ..... | 2,115,067 | 10,717,421 | 19,137,882 |
| Lithographing (see also Printing and publishing) | 48 | 1,227,550 | 968 | 54 | 117 | 667,762 | 602,960 | 1,738,452 |
| Lock- and gun-smithing | 70 | 66,625 | 96 | 2 | 23 | 63,143 | 67,547 | 214,110 |
| Looking-glass and picture frames | 81 | 680,350 | 923 | 7 | 64 | 485,935 | 1,177,467 | 2,071,565 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 43 | 883,197 | 736 | ..... | 26 | 425,983 | 1,152,860 | 2,220,919 |
| Malt | 15 | 3,150,000 | 399 | ..... | ..... | 223,678 | 2,034,413 | 3,350,731 |
| Marble and stone work | 146 | 2,257,388 | 2,850 | ..... | 99 | 2,080,563 | 2,193,983 | 5,771,069 |
| Masonry, brick, and stone | 90 | 668,650 | 1,161 | ..... | 26 | 708,777 | 1,133,852 | 2,334,659 |
| Mattresses and spring beds (see also Furniture) | 21 | 327,750 | 206 | 83 | 9 | 150,215 | 671,066 | 1,023,494 |
| Millinery and lace goods (see also Artificial feathers and flowers) | 88 | 1,251,180 | 673 | 2,665 | 128 | 990,480 | 3,237,908 | 5,153,080 |
| Mineral and soda waters | 27 | 483,948 | 384 | ..... | 41 | 242,582 | 302,387 | 784,573 |
| Mixed textiles (see also Cotton goods; Silk and silk goods) | 74 | 1,787,350 | 1,372 | 2,834 | 495 | 1,285,640 | 2,336,577 | 4,825,424 |
| Models and patterns | 21 | 24,300 | 64 | ..... | 3 | 44,621 | 18,169 | 100,760 |
| Musical instruments, organs and materials | 34 | 346,525 | 216 | 8 | 20 | 146,893 | 114,581 | 371,421 |
| Musical instruments, pianos and materials | 48 | 4,462,370 | 3,213 | ..... | 32 | 2,821,687 | 2,972,765 | 6,913,691 |
| Oil, lubricating | 4 | 36,800 | 17 | ..... | ..... | 7,300 | 58,600 | 78,750 |
| Oleomargarine | 4 | 610,500 | 248 | ..... | ..... | 113,676 | 4,322,695 | 5,215,393 |
| Painting and paperhanging | 293 | 841,914 | 1,794 | 19 | 30 | 1,099,719 | 1,186,478 | 3,058,487 |
| Paints | 26 | 1,581,600 | 439 | 22 | 24 | 250,865 | 2,144,321 | 2,932,049 |
| Paperhangings | 11 | 1,965,000 | 825 | 84 | 420 | 415,120 | 2,054,104 | 3,499,143 |
| Patent medicines and compounds (see also Drugs and chemicals) | 44 | 828,500 | 176 | 193 | 22 | 146,773 | 570,332 | 1,302,313 |
| Pens, gold | 8 | 227,550 | 121 | 5 | 16 | 116,279 | 142,360 | 365,782 |
| Perfumery and cosmetics | 16 | 377,050 | 135 | 162 | 4 | 92,237 | 625,900 | 1,094,700 |
| Photographing | 110 | 441,100 | 583 | 162 | 23 | 363,158 | 343,177 | 1,140,427 |
| Pickles, preserves, and sauces | 13 | 204,700 | 102 | 65 | 30 | 47,660 | 272,250 | 527,856 |
| Pipes, tobacco | 10 | 85,700 | 152 | 13 | 11 | 87,258 | 102,788 | 202,188 |
| Plumbing and gasfitting | 401 | 967,858 | 1,889 | 1 | 118 | 1,128,260 | 1,369,728 | 3,900,414 |
| Pocket-books | 33 | 282,650 | 489 | 76 | 54 | 284,173 | 530,373 | 1,026,852 |
| Printing and publishing (see also Lithographing) | 412 | 14,774,929 | 8,015 | 979 | 584 | 5,876,868 | 7,359,559 | 21,696,954 |
| Printing materials | 5 | 64,000 | 43 | ..... | 5 | 28,850 | 79,100 | 151,000 |
| Pumps, not including steam pumps | 14 | 54,650 | 51 | ..... | ..... | 35,323 | 70,896 | 151,994 |
| Refrigerators | 18 | 206,528 | 236 | 1 | 8 | 110,067 | 270,224 | 503,869 |
| Regalia and society banners and emblems | 12 | 161,200 | 56 | 16 | 3 | 30,471 | 59,701 | 142,303 |
| Roofing and roofing materials | 88 | 260,730 | 499 | ..... | 16 | 294,540 | 483,561 | 993,110 |
| Rubber and elastic goods | 14 | 425,200 | 242 | 149 | 14 | 189,425 | 495,338 | 859,262 |
| Saddlery and harness | 174 | 400,272 | 520 | 13 | 30 | 314,444 | 405,032 | 1,037,768 |
| Safes, doors, and vaults, fire-proof | 5 | 304,000 | 302 | ..... | 15 | 169,598 | 248,410 | 518,516 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 29 | 241,600 | 461 | ..... | 9 | 258,017 | 481,458 | 867,995 |
| Scales and balances | 6 | 167,500 | 81 | ..... | 1 | 55,304 | 66,186 | 168,234 |
| Sewing machines and attachments | 6 | 61,500 | 180 | 3 | 13 | 110,900 | 71,950 | 269,160 |
| Shipbuilding | 70 | 1,409,100 | 941 | ..... | ..... | 778,728 | 915,110 | 2,071,005 |
| Shirts | 64 | 1,647,700 | 574 | 2,814 | 13 | 1,195,581 | 3,574,215 | 5,608,915 |
| Show-cases | 14 | 45,500 | 94 | ..... | 1 | 55,123 | 76,300 | 168,980 |
| Silk and silk goods (see also Mixed textiles) | 126 | 3,431,450 | 1,975 | 4,531 | 1,435 | 2,079,535 | 3,857,330 | 7,800,250 |
| Silverware | 16 | 1,049,600 | 682 | 28 | 95 | 556,903 | 688,492 | 1,527,600 |
| Slaughtering and meat-packing, not including retail butchering | 58 | 1,801,000 | 876 | ..... | 19 | 575,521 | 27,763,577 | 29,297,527 |
| Soap and candles | 30 | 2,931,325 | 496 | 85 | 53 | 275,804 | 2,790,545 | 3,697,964 |
| Spectacles and eyeglasses | 23 | 49,450 | 83 | ..... | 7 | 46,662 | 32,493 | 120,868 |
| Sporting goods | 14 | 613,000 | 120 | 257 | 17 | 127,643 | 199,582 | 486,417 |
| Stamped ware (see also Tinware, copperware, and sheet-iron ware) | 8 | 49,140 | 44 | ..... | 33 | 28,180 | 41,941 | 97,280 |
| Stationery goods | 73 | 1,500,925 | 925 | 664 | 92 | 676,547 | 1,840,317 | 3,179,734 |
| Steam fittings and heating apparatus (see also Foundery and machine-shop products). | 16 | 712,500 | 481 | ..... | 5 | 305,198 | 848,268 | 1,295,250 |
| Stone- and earthen-ware | 8 | 183,000 | 189 | 11 | 6 | 90,828 | 70,020 | 209,600 |
| Sugar and molasses, refined | 5 | 2,730,000 | 554 | ..... | ..... | 255,783 | 10,677,746 | 11,330,883 |
| Surgical appliances (see also Artificial limbs) | 11 | 40,600 | 16 | 12 | 1 | 9,668 | 11,243 | 60,448 |
| Telegraph and telephone apparatus | 21 | 290,508 | 379 | 31 | 6 | 263,444 | 305,566 | 753,439 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing; Stamped ware). | 177 | 993,720 | 1,419 | 22 | 164 | 748,208 | 1,611,389 | 3,063,501 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 17 | 1,015,540 | 826 | 750 | 46 | 645,237 | 2,687,097 | 4,320,972 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 761 | 5,858,448 | 9,423 | 4,575 | 478 | 6,066,455 | 8,805,147 | 18,347,108 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF NEW YORK, N. Y.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Toys and games | 15 | $143,550 | 218 | 195 | 57 | $83,689 | $96,783 | $257,113 |
| Trunks and valises | 34 | 226,050 | 270 | 18 | 22 | 171,716 | 360,581 | 666,766 |
| Type founding | 20 | 779,500 | 413 | 106 | 54 | 326,856 | 224,850 | 793,257 |
| Umbrellas and canes | 61 | 989,550 | 540 | 786 | 19 | 520,739 | 2,424,070 | 3,456,144 |
| Upholstering (see also Furniture) | 91 | 592,037 | 452 | 232 | 38 | 294,840 | 1,255,276 | 1,952,289 |
| Vault lights and ventilators | 10 | 128,450 | 89 | ..... | ..... | 50,285 | 75,140 | 210,216 |
| Vinegar | 5 | 121,500 | 32 | ..... | 2 | 17,116 | 143,500 | 205,050 |
| Watch and clock repairing | 55 | 163,255 | 149 | 3 | 2 | 89,990 | 207,515 | 361,641 |
| Whalebone and rattan | 6 | 71,950 | 47 | 7 | ..... | 24,997 | 223,016 | 277,000 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 175 | 210,680 | 430 | ..... | 19 | 251,290 | 263,093 | 756,406 |
| Window blinds and shades | 11 | 146,350 | 109 | 11 | 4 | 81,664 | 101,850 | 282,000 |
| Wirework | 38 | 478,100 | 561 | 42 | 100 | 373,666 | 540,618 | 1,250,306 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 94 | 507,520 | 784 | 3 | 38 | 441,547 | 673,614 | 1,351,789 |
| All other industries (*a*) | 53 | 5,701,150 | 1,581 | 1,809 | 266 | 1,479,670 | 5,693,964 | 8,908,184 |

*a* Embracing axle-grease; babbitt metal and solder; baking and yeast powders; bluing; bridges; brick and tile; bronze castings; calcium lights; carpets, other than rag; cigar molds; cleansing and polishing preparations; cordage and twine; electrical apparatus; felt goods; files; gas machines and meters; iron and steel; iron forgings; iron work, architectural and ornamental; jewelry and instrument cases; labels and tags; matches; mirrors; musical instruments and materials (not specified); needles and pins; oil, lard; saws; shoddy; soda-water apparatus; springs, steel, car, and carriage; stereotyping and electrotyping; straw goods; taxidermy; tinfoil; wooden ware; and worsted goods.

### CITY OF NORFOLK, VA.

[Statistics collected under the direction of D. P. MORRIS, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 105 | $570,276 | 668 | 61 | 23 | $317,528 | $861,026 | $1,455,987 |
| Agricultural implements | 3 | 71,000 | 19 | ..... | ..... | 8,250 | 31,260 | 49,500 |
| Blacksmithing | 8 | 2,550 | 23 | ..... | ..... | 8,350 | 9,200 | 23,800 |
| Boots and shoes, including custom work and repairing | 4 | 2,500 | 7 | ..... | ..... | 3,069 | 6,450 | 12,750 |
| Bread and other bakery products | 9 | 39,200 | 66 | 15 | 7 | 25,921 | 144,000 | 200,700 |
| Carpentering | 6 | 15,300 | 57 | ..... | 1 | 25,900 | 32,100 | 74,500 |
| Carriages and wagons | 4 | 81,200 | 68 | ..... | 5 | 27,500 | 75,500 | 123,800 |
| Clothing, men's | 9 | 22,800 | 40 | 39 | ..... | 37,305 | 39,200 | 109,800 |
| Cooperage | 3 | 906 | 6 | ..... | ..... | 2,443 | 1,950 | 6,500 |
| Flouring- and grist-mill products | 5 | 96,500 | 24 | ..... | ..... | 8,762 | 287,060 | 336,737 |
| Foundery and machine-shop products | 4 | 73,000 | 83 | ..... | 2 | 35,800 | 33,236 | 82,850 |
| Plumbing and gasfitting | 3 | 3,700 | 18 | ..... | 1 | 8,700 | 9,000 | 25,200 |
| Printing and publishing | 5 | 55,600 | 73 | ..... | ..... | 41,000 | 27,300 | 94,400 |
| Shipbuilding | 3 | 26,600 | 18 | ..... | ..... | 12,100 | 15,300 | 34,309 |
| Tinware, copperware, and sheet-iron ware | 9 | 31,000 | 71 | ..... | 3 | 33,600 | 54,173 | 108,400 |
| Tobacco, cigars and cigarettes | 7 | 5,500 | 24 | ..... | 1 | 9,850 | 9,294 | 25,000 |
| Watch and clock repairing | 3 | 10,000 | 14 | ..... | ..... | 9,052 | 4,100 | 18,000 |
| All other industries (*a*) | 20 | 32,920 | 57 | 7 | 3 | 19,926 | 81,063 | 138,750 |

*a* Embracing coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; confectionery; iron railing, wrought; kindling wood; leather, tanned; lumber, planed; marble and stone work; masonry, brick and stone; painting and paperhanging; pumps; saddlery and harness; shirts; stationery goods; and wheelwrighting.

### CITY OF OAKLAND, CAL.

[Statistics collected under the direction of JAMES R. HARDENBERG, Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 72 | $1,371,457 | 1,369 | 13 | 5 | $759,917 | $2,012,695 | $3,181,066 |
| Boots and shoes, including custom work and repairing | 4 | 37,000 | 19 | 2 | ..... | 8,257 | 9,760 | 23,802 |
| Bread and other bakery products | 6 | 19,400 | 22 | 1 | ..... | 14,700 | 54,900 | 88,000 |
| Carriages and wagons | 4 | 20,872 | 31 | 1 | ..... | 20,800 | 29,500 | 75,800 |
| Flouring- and grist-mill products | 3 | 240,000 | 44 | ..... | ..... | 24,974 | 710,000 | 800,510 |
| Foundery and machine-shop products | 4 | 21,500 | 22 | ..... | ..... | 11,440 | 15,200 | 36,500 |
| Liquors, malt | 3 | 105,000 | 67 | ..... | ..... | 28,235 | 102,327 | 183,500 |
| Lumber, planed | 3 | 160,535 | 108 | ..... | ..... | 77,538 | 72,000 | 178,000 |
| Marble and stone work | 3 | 4,500 | 12 | ..... | ..... | 7,550 | 7,400 | 18,970 |
| Plumbing and gasfitting | 5 | 67,900 | 41 | ..... | 2 | 23,810 | 44,780 | 79,000 |
| Saddlery and harness | 6 | 17,050 | 19 | ..... | ..... | 9,638 | 15,560 | 37,688 |
| Shipbuilding | 3 | 120,300 | 166 | ..... | ..... | 187,911 | 482,268 | 686,296 |
| Tobacco, cigars and cigarettes | 6 | 7,800 | 17 | ..... | 1 | 4,350 | 11,650 | 26,000 |
| All other industries (*a*) | 22 | 550,500 | 801 | 9 | 2 | 340,214 | 457,350 | 947,000 |

*a* Embracing bags, other than paper; blacksmithing; boxes, wooden, packing; brooms and brushes; carpentering; confectionery; furniture; hats and caps; ice, artificial; iron railing, wrought; leather, tanned; painting and paperhanging; stone- and earthen-ware; terra-cotta ware; tinware, copperware, and sheet-iron ware; upholstering; and upholstering materials.

### CITY OF OMAHA, NEBR.

[Statistics collected under the direction of PHILIP ANDRES, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 154 | $1,835,800 | 1,466 | 64 | 158 | $726,918 | $2,527,476 | $4,280,866 |
| Blacksmithing (see also Wheelwrighting) | 7 | 14,550 | 11 | ..... | ..... | 6,240 | 6,225 | 20,575 |
| Boots and shoes, including custom work and repairing | 9 | 22,650 | 29 | ..... | ..... | 15,930 | 12,550 | 38,760 |
| Bread and other bakery products | 5 | 24,800 | 36 | 3 | 4 | 17,050 | 61,300 | 103,400 |
| Brick and tile | 8 | 35,100 | 76 | ..... | 45 | 42,960 | 30,730 | 101,771 |
| Carpentering | 10 | 12,500 | 77 | ..... | ..... | 26,900 | 57,780 | 109,760 |
| Clothing, men's | 4 | 26,400 | 28 | ..... | 1 | 21,918 | 26,950 | 55,268 |
| Cooperage | 5 | 23,000 | 41 | ..... | ..... | 25,500 | 48,387 | 78,600 |
| Foundery and machine-shop products | 4 | 43,000 | 77 | ..... | ..... | 39,543 | 26,748 | 80,000 |
| Furniture | 3 | 8,650 | 5 | 2 | ..... | 2,700 | 10,350 | 17,800 |
| Jewelry | 3 | 49,000 | 25 | ..... | 2 | 14,500 | 105,000 | 210,000 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF OMAHA, NEBR.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Liquors, malt | 4 | $285,000 | 93 | | | $37,595 | $133,117 | $259,460 |
| Marble and stone work | 3 | 4,400 | 7 | | | 2,100 | 3,800 | 11,100 |
| Masonry, brick and stone | 6 | 25,500 | 140 | | 12 | 40,200 | 65,036 | 129,000 |
| Painting and paperhanging | 7 | 30,750 | 64 | | 5 | 29,515 | 34,239 | 88,000 |
| Printing and publishing | 9 | 145,750 | 127 | 22 | 51 | 112,380 | 112,300 | 284,461 |
| Saddlery and harness | 3 | 68,950 | 21 | | 1 | 11,713 | 33,900 | 50,400 |
| Slaughtering and meat-packing, not including retail butchering | 5 | 249,200 | 147 | | 1 | 49,420 | 790,256 | 991,790 |
| Tinware, copperware, and sheet-iron ware | 7 | 32,000 | 51 | | | 22,150 | 49,300 | 94,000 |
| Tobacco, cigars and cigarettes | 8 | 35,450 | 43 | 2 | 14 | 28,267 | 51,200 | 113,194 |
| Wheelwrighting (see also Blacksmithing) | 4 | 5,700 | 7 | | | 4,772 | 3,830 | 14,572 |
| All other industries (a) | 40 | 693,450 | 361 | 35 | 22 | 175,565 | 864,478 | 1,428,955 |

a Embracing billiard tables and materials; boxes, wooden, packing; brass castings; brooms and brushes; carpets, rag; carriages and wagons; clothing, women's; coffee and spices, roasted and ground; drugs and chemicals; dyeing and cleaning; fertilizers; flouring- and grist-mill products; furs, dressed; iron and steel; liquors, distilled; looking-glass and picture frames; lumber, sawed; mineral and soda waters; oil, linseed; paints; patent medicines and compounds; photographing; plumbing and gasfitting; rubber and elastic goods; safes, doors, and vaults, fire-proof; shirts; show-cases; upholstering; vinegar; watch and clock repairing; and wirework.

### CITY OF OSWEGO, N. Y.

[Statistics collected under the direction of ADELBERT E. BUELL, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 179 | $2,611,238 | 1,754 | 272 | 106 | $756,435 | $3,646,845 | $5,619,944 |
| Blacksmithing (see also Wheelwrighting) | 11 | 3,120 | 10 | | | 2,782 | 4,275 | 14,850 |
| Boots and shoes, including custom work and repairing | 16 | 13,750 | 25 | | | 9,576 | 21,556 | 45,983 |
| Bread and other bakery products | 7 | 42,200 | 23 | 4 | | 10,021 | 49,651 | 74,746 |
| Carpentering | 11 | 21,100 | 61 | | 1 | 21,960 | 26,323 | 55,575 |
| Cooperage | 12 | 24,250 | 47 | | 6 | 12,637 | 44,595 | 66,010 |
| Flouring- and grist-mill products | 5 | 465,000 | 74 | | | 37,102 | 1,136,974 | 1,591,759 |
| Foundery and machine-shop products | 5 | 416,818 | 363 | | 2 | 153,904 | 258,311 | 552,780 |
| Furniture | 4 | 19,500 | 19 | 1 | | 8,902 | 17,100 | 37,000 |
| Liquors, malt | 3 | 68,000 | 12 | | 1 | 6,146 | 30,970 | 55,125 |
| Lumber, planed | 4 | 160,500 | 111 | | | 47,300 | 163,605 | 238,932 |
| Marble and stone work | 4 | 11,500 | 7 | | | 1,875 | 3,585 | 11,399 |
| Painting and paperhanging | 6 | 20,300 | 38 | | 2 | 13,264 | 20,000 | 42,350 |
| Photographing | 3 | 10,150 | 5 | 1 | | 1,732 | 3,290 | 7,357 |
| Plumbing and gasfitting | 3 | 12,000 | 17 | | | 10,100 | 33,240 | 55,054 |
| Printing and publishing | 3 | 110,000 | 70 | | 14 | 27,956 | 15,401 | 66,580 |
| Saddlery and harness | 4 | 4,800 | 8 | | | 2,950 | 6,600 | 12,200 |
| Shipbuilding | 7 | 27,500 | 58 | | | 23,072 | 22,030 | 50,563 |
| Tinware, copperware, and sheet-iron ware | 15 | 19,300 | 34 | | | 15,394 | 27,700 | 63,950 |
| Wheelwrighting (see also Blacksmithing) | 5 | 8,600 | 13 | | | 5,405 | 14,900 | 14,900 |
| All other industries (a) | 51 | 1,152,850 | 759 | 266 | 80 | 344,357 | 1,756,239 | 2,562,331 |

a Embracing baking and yeast powders; baskets, rattan and willow ware; boxes, cigar; boxes, fancy and paper; carriages and wagons; cement; coffins, burial cases, and undertakers' goods; confectionery; cutlery and edge tools; drain and sewer pipe; drugs and chemicals; dyeing and cleaning; gloves and mittens; hats and caps; hosiery and knit goods; instruments, professional and scientific; iron railing, wrought; leather, curried; leather, tanned; lime; lock- and gun-smithing; looking-glass and picture frames; lumber, sawed; malt; mineral and soda waters; mixed textiles; patent medicines and compounds; pumps; sash, doors, and blinds; shirts; soap and candles; sporting goods; starch; tobacco, cigars and cigarettes; upholstering; watch and clock repairing; window blinds and shades; and wood, turned and carved.

### CITY OF PATERSON, N. J.

[Statistics collected under the direction of HENRY VAN GIESON, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 346 | $12,412,942 | 10,270 | 6,576 | 2,953 | $6,992,487 | $14,623,833 | $26,503,950 |
| Belting and hose, leather | 4 | 36,500 | 27 | | | 12,434 | 57,196 | 82,345 |
| Blacksmithing (see also Wheelwrighting) | 19 | 14,250 | 33 | | | 15,479 | 14,010 | 46,390 |
| Boots and shoes, including custom work and repairing | 12 | 7,900 | 34 | 2 | 1 | 10,881 | 12,957 | 29,360 |
| Brass castings | 3 | 152,000 | 234 | | | 112,250 | 14,500 | 183,500 |
| Bread and other bakery products | 31 | 71,390 | 40 | | | 14,620 | 74,439 | 134,510 |
| Card cutting and designing | 4 | 4,800 | 27 | | 4 | 9,550 | 4,690 | 18,350 |
| Carpentering | 22 | 100,100 | 237 | 2 | 1 | 116,408 | 308,125 | 490,982 |
| Carriages and wagons (see also Wheelwrighting) | 4 | 40,000 | 43 | | | 21,340 | 11,700 | 48,718 |
| Cotton goods (see also Mixed textiles) | 3 | 548,877 | 324 | 344 | 209 | 284,011 | 423,226 | 1,097,020 |
| Dentistry, mechanical | 3 | 2,000 | 3 | | | 1,700 | 1,500 | 5,583 |
| Dyeing and finishing textiles | 10 | 511,000 | 557 | 38 | 44 | 312,265 | 412,140 | 918,583 |
| Foundery and machine-shop products | 27 | 1,671,500 | 2,597 | 86 | 124 | 1,055,822 | 1,605,274 | 3,029,989 |
| Liquors, malt | 6 | 592,000 | 138 | | | 59,611 | 311,265 | 546,510 |
| Looking-glass and picture frames | 3 | 3,000 | 6 | | | 1,890 | 9,950 | 14,300 |
| Marble and stone work | 5 | 20,500 | 28 | | | 11,767 | 11,615 | 40,675 |
| Mixed textiles (see also Cotton goods; Silk and silk goods) | 6 | 799,500 | 402 | 431 | 211 | 318,050 | 631,600 | 1,164,050 |
| Painting and paperhanging | 13 | 9,650 | 42 | | 2 | 22,738 | 26,490 | 60,930 |
| Photographing | 3 | 11,500 | 6 | 3 | 3 | 5,300 | 4,500 | 15,000 |
| Plumbing and gasfitting | 7 | 20,100 | 37 | | | 19,232 | 35,300 | 70,815 |
| Printing and publishing | 4 | 61,500 | 45 | 26 | 10 | 33,891 | 29,517 | 92,522 |
| Saddlery and harness | 4 | 10,800 | 15 | | | 9,100 | 20,000 | 38,551 |
| Silk and silk goods (see also Mixed textiles) | 82 | 5,660,525 | 3,543 | 4,169 | 2,697 | 3,335,045 | 8,099,161 | 14,164,465 |
| Tinware, copperware, and sheet-iron ware | 13 | 49,100 | 91 | | | 37,049 | 60,873 | 125,080 |
| Tobacco, cigars and cigarettes | 14 | 16,400 | 37 | | 3 | 14,210 | 30,030 | 62,130 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 3 | 4,400 | 5 | | | 2,050 | 2,450 | 5,280 |
| Wood, turned and carved | 5 | 42,300 | 79 | | 10 | 29,898 | 23,150 | 62,850 |
| All other industries (a) | 36 | 1,950,750 | 1,640 | 1,475 | 234 | 1,130,896 | 2,298,175 | 3,954,262 |

a Embracing bagging, flax, hemp, and jute; boxes, fancy and paper; brick and tile; carriage and wagon materials; clothing, men's; felt goods; files; flouring- and grist-mill products; furniture; glue; handles, wooden; iron and steel; iron bolts, nuts, washers, and rivets; lumber, planed; models and patterns; paints; paper; printing materials; shirts; shoddy; soap and candles; stationery goods; thread, linen; tobacco, chewing, smoking, and snuff; toys and games; wire; and worsted goods.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF PEORIA, ILL.

[Statistics collected under the direction of HENRY C. BESTOR, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 296 | $4,160,707 | 3,619 | 313 | 135 | $1,507,666 | $9,553,476 | $14,228,134 |
| Agricultural implements | 5 | 250,000 | 241 | ..... | 4 | 87,500 | 217,000 | 438,000 |
| Baking and yeast powders | 3 | 9,200 | 9 | 7 | ..... | 5,675 | 27,150 | 43,500 |
| Blacksmithing (see also Wheelwrighting) | 15 | 11,950 | 34 | ..... | ..... | 13,986 | 15,490 | 44,370 |
| Boots and shoes, including custom work and repairing | 26 | 8,025 | 29 | ..... | ..... | 11,007 | 16,750 | 45,225 |
| Carpentering | 22 | 97,400 | 265 | ..... | ..... | 96,827 | 265,400 | 429,550 |
| Carpets, rag | 3 | 1,700 | 5 | 1 | ..... | 2,555 | 4,100 | 9,450 |
| Carriages and wagons (see also Wheelwrighting) | 6 | 66,000 | 52 | ..... | 10 | 26,200 | 62,000 | 110,232 |
| Coffins, burial cases, and undertakers' goods | 5 | 18,500 | 4 | ..... | ..... | 1,550 | 11,000 | 23,725 |
| Clothing, men's | 15 | 160,750 | 97 | 179 | ..... | 64,045 | 422,853 | 603,865 |
| Cooperage | 15 | 43,300 | 216 | ..... | 4 | 96,460 | 193,391 | 330,650 |
| Flouring- and grist-mill products | 3 | 80,000 | 20 | ..... | ..... | 16,500 | 263,250 | 309,500 |
| Foundery and machine-shop products | 7 | 142,100 | 210 | ..... | ..... | 97,932 | 124,100 | 268,750 |
| Furniture (see Upholstering) | 6 | 41,700 | 47 | ..... | ..... | 25,596 | 41,735 | 90,625 |
| Furs, dressed | 3 | 4,400 | 7 | 14 | ..... | 4,600 | 8,300 | 16,750 |
| Hairwork | 3 | 800 | ..... | 4 | ..... | 500 | 1,800 | 4,000 |
| Liquors, distilled | 14 | 1,679,000 | 1,076 | ..... | ..... | 480,000 | 5,735,000 | 8,196,000 |
| Liquors, malt | 3 | 153,000 | 44 | ..... | ..... | 16,695 | 81,528 | 127,667 |
| Lock- and gun-smithing | 5 | 3,700 | 12 | ..... | ..... | 3,752 | 3,429 | 12,300 |
| Lumber, planed | 4 | 109,000 | 74 | ..... | 3 | 36,615 | 56,000 | 120,500 |
| Marble and stone work | 8 | 17,300 | 32 | ..... | ..... | 16,650 | 25,500 | 57,650 |
| Mineral and soda waters | 3 | 23,500 | 12 | ..... | 2 | 3,046 | 6,400 | 15,300 |
| Painting and paperhanging | 17 | 11,840 | 50 | ..... | 1 | 15,970 | 24,950 | 58,400 |
| Plumbing and gasfitting | 6 | 62,500 | 74 | 1 | 10 | 34,448 | 103,500 | 176,000 |
| Printing and publishing | 12 | 100,750 | 121 | 21 | 37 | 82,009 | 52,575 | 186,215 |
| Saddlery and harness | 6 | 22,470 | 37 | ..... | ..... | 16,715 | 47,612 | 94,518 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 205,000 | 174 | ..... | 19 | 15,900 | 713,881 | 756,033 |
| Tinware, copperware, and sheet-iron ware | 16 | 81,775 | 62 | ..... | 1 | 31,506 | 89,800 | 150,650 |
| Tobacco, cigars and cigarettes | 10 | 24,525 | 53 | ..... | 21 | 30,509 | 43,092 | 95,430 |
| Upholstering (see also Furniture) | 3 | 1,200 | 4 | ..... | ..... | 1,790 | 1,800 | 6,300 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 5 | 3,400 | 12 | ..... | ..... | 5,272 | 7,200 | 15,700 |
| All other industries (*a*) | 44 | 725,922 | 537 | 86 | 23 | 165,736 | 889,890 | 1,391,279 |

*a* Embracing awnings and tents; baskets, rattan and willow ware; bookbinding and blank-book making; boxes, cigar; boxes, fancy and paper; bread and other bakery products; brick and tile; brooms and brushes; buttons; coffee and spices, roasted and ground; confectionery; cordage and twine; corsets; drugs and chemicals; electroplating; engraving and die-sinking; files; glucose; grease and tallow; hats and caps; housefurnishing goods; iron work, architectural and ornamental; lime; looking-glass and picture frames; lumber, sawed; pumps; roofing and roofing materials; safes, doors, and vaults, fire-proof; saws; shipbuilding; shirts; show-cases; soap and candles; starch; stone- and earthen-ware; trunks and valises; and wire.

### CITY OF PETERSBURG, VA.

[Statistics collected under the direction of S. S. NORTHINGTON, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 115 | $1,755,415 | 2,200 | 1,245 | 742 | $602,749 | $3,200,116 | $4,643,015 |
| Agricultural implements | 3 | 31,000 | 68 | ..... | ..... | 21,430 | 22,490 | 50,565 |
| Blacksmithing (see also Wheelwrighting) | 7 | 3,080 | 9 | ..... | ..... | 2,400 | 2,625 | 9,000 |
| Boots and shoes, including custom work and repairing | 15 | 680 | 23 | ..... | ..... | 4,860 | 5,104 | 15,116 |
| Bread and other bakery products | 8 | 6,750 | 32 | 2 | 1 | 7,462 | 40,600 | 57,900 |
| Carpentering | 7 | 5,975 | 63 | ..... | ..... | 17,850 | 27,600 | 52,700 |
| Clothing, men's | 5 | 6,130 | 16 | 9 | ..... | 8,186 | 18,380 | 36,280 |
| Cotton goods | 5 | 855,100 | 201 | 368 | 107 | 111,052 | 458,890 | 747,812 |
| Flouring- and grist-mill products | 4 | 107,500 | 28 | ..... | ..... | 8,400 | 181,360 | 210,545 |
| Painting and paperhanging | 3 | 1,050 | 8 | ..... | ..... | 2,075 | 3,000 | 5,023 |
| Photographing | 3 | 1,300 | ..... | ..... | ..... | ..... | 1,400 | 4,200 |
| Printing and publishing | 3 | 12,000 | 20 | ..... | 2 | 15,252 | 14,800 | 37,000 |
| Tinware, copperware, and sheet-iron ware | 4 | 6,200 | 20 | ..... | ..... | 6,600 | 16,100 | 33,600 |
| Tobacco, chewing, smoking, and snuff | 14 | 658,500 | 1,516 | 864 | 502 | 347,345 | 2,395,196 | 3,194,245 |
| Watch and clock repairing | 3 | 800 | 2 | ..... | ..... | 250 | 1,000 | 3,325 |
| Wheelwrighting (see also Blacksmithing) | 5 | 2,225 | 11 | ..... | ..... | 2,595 | 2,720 | 8,400 |
| All other industries (*a*) | 26 | 57,125 | 183 | 2 | 10 | 46,992 | 98,851 | 176,404 |

*a* Embracing brick and tile; brooms and brushes; carriages and wagons; coffins, burial cases, and undertakers' goods; cooperage; foundery and machine-shop products; lock- and gun-smithing; lumber, planed; marble and stone work; masonry, brick and stone; patent medicines and compounds; plumbing and gasfitting; saddlery and harness; sash, doors, and blinds; slaughtering and meat-packing; soap and candles; tobacco, cigars and cigarettes; upholstering; and upholstering materials.

### CITY OF PHILADELPHIA, PA.

[Statistics collected under the direction of WILLIAM ABBOTT, Chief Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 8,567 | $187,148,357 | 113,075 | 56,818 | 15,624 | $64,265,966 | $199,155,477 | $324,342,935 |
| Agricultural implements | 8 | 454,000 | 336 | ..... | 8 | 179,547 | 392,875 | 739,808 |
| Artificial feathers and flowers (see also Millinery and lace goods) | 6 | 81,500 | 34 | 264 | 84 | 65,330 | 91,070 | 229,500 |
| Artificial limbs (see also Surgical appliances) | 5 | 10,300 | 16 | ..... | ..... | 5,324 | 2,000 | 11,700 |
| Awnings and tents | 14 | 42,900 | 79 | 50 | 11 | 25,964 | 85,989 | 143,984 |
| Bags, other than paper | 5 | 198,000 | 42 | 110 | ..... | 40,215 | 478,820 | 551,000 |
| Bags, paper | 11 | 305,200 | 96 | 261 | 6 | 94,543 | 510,327 | 712,128 |
| Baking and yeast powders (see also Drugs and chemicals) | 3 | 9,000 | 7 | 6 | 1 | 3,548 | 26,000 | 48,500 |
| Baskets, rattan and willow ware | 11 | 26,900 | 16 | ..... | 26 | 7,154 | 20,291 | 33,011 |
| Belting and hose, leather | 8 | 279,750 | 74 | ..... | 6 | 41,165 | 361,871 | 467,545 |
| Billiard tables and materials | 3 | 25,000 | 16 | ..... | ..... | 16,300 | 26,300 | 49,700 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF PHILADELPHIA, PA.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Blacking | 4 | $175,000 | 42 | 97 | 5 | $44,488 | $220,061 | $479,460 |
| Blacksmithing (see also Wheelwrighting) | 258 | 397,780 | 611 | ..... | 23 | 299,259 | 347,786 | 926,533 |
| Bluing | 4 | 59,200 | 17 | 19 | 1 | 12,500 | 25,438 | 75,300 |
| Bone-, ivory-, and lamp-black | 3 | 418,000 | 76 | 2 | 16 | 28,900 | 213,500 | 282,000 |
| Bookbinding and blank-book making | 51 | 853,250 | 812 | 795 | 138 | 557,419 | 709,317 | 1,631,070 |
| Boot and shoe findings | 15 | 95,450 | 53 | 57 | 2 | 40,821 | 100,230 | 174,420 |
| Boot and shoe uppers | 4 | 7,800 | 6 | 14 | 3 | 5,370 | 13,893 | 23,175 |
| Boots and shoes, including custom work and repairing | 581 | 2,970,190 | 4,931 | 2,337 | 267 | 2,788,409 | 4,819,017 | 9,034,496 |
| Boxes, cigar | 12 | 59,150 | 51 | 25 | 13 | 28,145 | 70,480 | 145,612 |
| Boxes, fancy and paper | 33 | 417,000 | 208 | 1,172 | 55 | 263,216 | 376,762 | 838,688 |
| Boxes, wooden, packing | 46 | 329,870 | 369 | 11 | 47 | 169,990 | 443,531 | 722,767 |
| Brass castings (see also Bronze castings) | 38 | 782,001 | 541 | 19 | 65 | 246,812 | 832,830 | 1,369,151 |
| Bread and other bakery products | 849 | 2,633,908 | 2,014 | 221 | 113 | 918,660 | 3,613,201 | 5,735,533 |
| Brick and tile (see also Terra-cotta ware) | 78 | 2,342,453 | 2,646 | ..... | 311 | 836,108 | 444,591 | 1,698,530 |
| Bronze castings (see also Brass castings) | 4 | 110,150 | 41 | ..... | 1 | 21,583 | 394,589 | 501,412 |
| Brooms and brushes | 60 | 447,884 | 455 | 56 | 199 | 190,105 | 416,276 | 702,179 |
| Buttons | 16 | 156,400 | 317 | 166 | 112 | 164,113 | 141,339 | 377,482 |
| Card cutting and designing | 5 | 8,993 | 15 | 12 | 6 | 8,665 | 10,920 | 33,320 |
| Carpentering | 326 | 1,556,630 | 2,695 | ..... | 6 | 1,338,545 | 3,014,618 | 5,131,862 |
| Carpets, other than rag (see also Woolen goods) | 170 | 7,194,483 | 5,686 | 2,378 | 759 | 3,020,331 | 8,964,581 | 14,263,510 |
| Carpets, rag | 58 | 61,375 | 146 | 1 | 12 | 47,254 | 97,419 | 196,000 |
| Carriage and wagon materials | 4 | 75,600 | 48 | ..... | ..... | 20,200 | 65,200 | 101,000 |
| Carriages and sleds, children's | 8 | 44,800 | 80 | 2 | 1 | 37,751 | 99,651 | 171,742 |
| Carriages and wagons (see also Wheelwrighting) | 110 | 1,921,300 | 1,562 | ..... | 16 | 767,834 | 823,643 | 2,057,110 |
| Cars, railroad, street, and repairs | 19 | 1,397,792 | 1,192 | 2 | 3 | 567,852 | 2,321,956 | 3,174,145 |
| Cleansing and polishing preparations | 4 | 176,300 | 31 | 3 | 7 | 16,100 | 37,175 | 110,000 |
| Cloth finishing | 5 | 107,000 | 64 | 11 | 17 | 32,702 | 36,236 | 92,000 |
| Clothing, men's | 426 | 8,726,276 | 6,716 | 10,849 | 81 | 4,085,239 | 11,853,139 | 18,500,748 |
| Clothing, women's | 49 | 792,950 | 308 | 2,300 | 48 | 479,436 | 1,503,610 | 2,406,410 |
| Coffee and spices, roasted and ground | 16 | 509,500 | 121 | 64 | 4 | 75,753 | 1,068,586 | 1,294,980 |
| Coffins, burial cases, and undertakers' goods | 33 | 191,300 | 119 | 12 | 2 | 70,147 | 131,720 | 309,000 |
| Combs | 4 | 46,500 | 62 | 2 | 3 | 31,906 | 39,200 | 81,420 |
| Confectionery | 173 | 1,236,390 | 742 | 412 | 163 | 355,339 | 1,834,108 | 2,653,074 |
| Cooperage | 72 | 424,650 | 642 | ..... | 17 | 258,270 | 586,245 | 997,601 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 8 | 145,500 | 87 | 2 | 1 | 47,104 | 139,749 | 238,923 |
| Cordage and twine | 10 | 925,500 | 301 | 178 | 158 | 220,033 | 1,090,500 | 1,541,748 |
| Cork cutting | 7 | 45,050 | 33 | 12 | 19 | 19,264 | 26,810 | 59,800 |
| Corsets | 10 | 62,800 | 20 | 171 | 2 | 44,018 | 129,061 | 205,505 |
| Cotton goods (see also Hosiery and knit goods; Mixed textiles) | 145 | 8,332,550 | 3,784 | 5,099 | 1,910 | 3,073,791 | 8,422,633 | 14,268,396 |
| Crucibles | 5 | 170,250 | 50 | ..... | ..... | 26,060 | 144,271 | 212,189 |
| Cutlery and edge tools (see also Hardware; Tools) | 33 | 1,120,292 | 784 | 6 | 68 | 349,917 | 305,873 | 942,522 |
| Dentists' materials | 4 | 715,000 | 255 | 60 | 11 | 156,175 | 159,000 | 564,000 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 54 | 10,185,164 | 1,856 | 337 | 44 | 1,063,056 | 7,481,307 | 11,804,793 |
| Dyeing and cleaning | 11 | 32,050 | 48 | 1 | 2 | 10,747 | 23,540 | 49,600 |
| Dyeing and finishing textiles | 57 | 2,359,846 | 1,462 | 188 | 202 | 789,709 | 1,773,696 | 4,316,405 |
| Electrical apparatus and supplies (see also Telegraph and telephone apparatus). | 3 | 15,000 | 16 | ..... | 1 | 7,472 | 7,149 | 20,770 |
| Electroplating | 20 | 83,463 | 71 | 4 | 11 | 34,102 | 32,175 | 100,594 |
| Engravers' materials | 3 | 5,300 | 7 | ..... | 1 | 6,920 | 3,700 | 11,764 |
| Engraving and die-sinking | 14 | 41,150 | 52 | 1 | 4 | 28,288 | 18,421 | 74,540 |
| Engraving, steel | 5 | 49,550 | 41 | 10 | 18 | 30,630 | 24,695 | 89,433 |
| Engraving, wood | 20 | 17,725 | 72 | 3 | 2 | 46,088 | 12,965 | 95,550 |
| Fancy articles | 18 | 153,600 | 127 | 39 | 13 | 76,155 | 129,512 | 254,500 |
| Fertilizers | 13 | 610,400 | 250 | ..... | 1 | 114,101 | 668,281 | 977,750 |
| Files (see also Saws) | 12 | 229,450 | 266 | 4 | 69 | 115,275 | 145,628 | 318,513 |
| Fire-arms | 3 | 65,000 | 53 | ..... | 3 | 25,500 | 18,500 | 64,560 |
| Flouring- and grist-mill products | 17 | 237,800 | 82 | ..... | ..... | 37,947 | 1,693,531 | 1,954,715 |
| Food preparations (see page 39) | 10 | 376,500 | 100 | 83 | 10 | 61,127 | 226,722 | 371,003 |
| Foundery and machine-shop products (see also Steam fittings and heating apparatus). | 226 | 12,231,058 | 9,305 | 68 | 563 | 4,635,977 | 6,179,841 | 13,455,238 |
| Fruits and vegetables, canned and preserved | 7 | 252,000 | 72 | 138 | 32 | 59,442 | 454,000 | 553,700 |
| Furnishing goods, men's | 21 | 123,740 | 61 | 331 | 36 | 87,540 | 317,736 | 498,597 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 195 | 3,149,073 | 2,821 | 60 | 108 | 1,337,419 | 2,461,654 | 4,839,853 |
| Furniture, chairs | 23 | 96,850 | 257 | 12 | 45 | 132,058 | 164,163 | 389,194 |
| Furs, dressed | 15 | 235,000 | 50 | 151 | 5 | 58,900 | 290,800 | 493,700 |
| Galvanizing | 5 | 330,000 | 210 | ..... | 5 | 103,632 | 678,320 | 912,875 |
| Gas and lamp fixtures | 5 | 251,500 | 283 | 43 | 11 | 133,759 | 93,085 | 355,228 |
| Gas machines and meters | 9 | 468,500 | 354 | 7 | 15 | 151,658 | 223,498 | 464,804 |
| Glass | 10 | 1,202,419 | 1,358 | 128 | 751 | 655,023 | 696,393 | 1,621,659 |
| Glass, cut, stained, and ornamented | 13 | 55,100 | 102 | 12 | 10 | 49,545 | 47,333 | 134,062 |
| Glue | 3 | 1,657,500 | 438 | 75 | 47 | 157,000 | 1,190,700 | 1,626,000 |
| Gold and silver leaf and foil | 7 | 224,000 | 156 | 157 | 10 | 134,800 | 339,750 | 510,344 |
| Grease and tallow | 11 | 268,975 | 68 | ..... | 1 | 39,379 | 933,943 | 1,120,108 |
| Hairwork | 18 | 84,100 | 23 | 57 | 6 | 20,677 | 40,260 | 89,737 |
| Hand-knit goods | 6 | 82,100 | 16 | 566 | 315 | 82,700 | 107,335 | 215,000 |
| Hardware (see also Cutlery and edge tools; Tools) | 39 | 575,700 | 496 | 9 | 73 | 246,017 | 423,770 | 853,588 |
| Hat and cap materials | 6 | 30,600 | 21 | 2 | 5 | 11,430 | 79,600 | 132,100 |
| Hats and caps, not including wool hats | 63 | 792,253 | 1,237 | 549 | 50 | 702,889 | 1,058,691 | 2,300,780 |
| Hosiery and knit goods (see also Cotton goods; Woolen goods) | 95 | 3,402,690 | 2,103 | 4,935 | 1,268 | 2,009,528 | 4,530,480 | 8,173,415 |
| Ink | 11 | 395,800 | 79 | 4 | 11 | 60,508 | 168,175 | 358,050 |
| Instruments, professional and scientific | 26 | 347,086 | 224 | 7 | 14 | 137,798 | 87,307 | 349,120 |
| Iron and steel | 16 | 2,999,245 | 1,897 | ..... | 171 | 1,045,570 | 2,580,512 | 4,257,179 |
| Iron bolts, nuts, washers, and rivets | 10 | 876,500 | 801 | 60 | 218 | 307,581 | 767,388 | 1,395,000 |
| Iron forgings | 10 | 323,800 | 325 | ..... | 20 | 128,422 | 323,893 | 561,487 |
| Iron nails and spikes, cut and wrought | 4 | 21,350 | 11 | 1 | 5 | 5,383 | 17,735 | 30,518 |
| Iron pipe, wrought | 3 | 615,000 | 574 | 1 | 12 | 92,000 | 319,000 | 510,000 |
| Iron railing, wrought | 15 | 100,250 | 108 | ..... | 1 | 35,845 | 99,648 | 180,032 |
| Ivory and bone work | 10 | 208,750 | 251 | 29 | 63 | 111,638 | 151,499 | 353,010 |
| Japanning | 5 | 13,100 | 33 | 8 | 4 | 8,765 | 8,298 | 26,625 |
| Jewelry | 29 | 426,901 | 378 | 24 | 27 | 210,369 | 410,166 | 789,886 |
| Jewelry and instrument cases | 3 | 25,000 | 37 | 13 | ..... | 11,300 | 13,600 | 35,000 |
| Kindling wood | 27 | 93,550 | 103 | ..... | 14 | 34,162 | 102,698 | 177,620 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF PHILADELPHIA, PA.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Lamps and reflectors | 11 | $123,550 | 86 | 12 | 6 | $47,958 | $51,326 | $137,036 |
| Lasts | 6 | 37,400 | 29 | 8 | 16 | 18,295 | 10,800 | 44,234 |
| Lead, bar, pipe, sheet, and shot | 3 | 305,000 | 29 | ..... | 2 | 23,076 | 620,500 | 758,000 |
| Leather, curried | 22 | 251,706 | 123 | 1 | 2 | 72,950 | 761,037 | 907,552 |
| Leather, dressed skins | 54 | 2,584,747 | 2,068 | 102 | 88 | 1,158,148 | 4,895,342 | 6,741,796 |
| Leather, tanned | 6 | 440,105 | 47 | ..... | ..... | 28,717 | 231,725 | 308,970 |
| Liquors, malt | 96 | 7,258,350 | 1,311 | ..... | 1 | 720,069 | 3,409,205 | 5,897,811 |
| Lithographing (see also Printing and publishing) | 23 | 647,550 | 472 | 64 | 59 | 259,978 | 255,692 | 743,331 |
| Lock- and gun-smithing | 29 | 57,400 | 48 | ..... | 4 | 23,922 | 27,330 | 81,573 |
| Looking-glass and picture frames | 55 | 700,143 | 663 | 18 | 67 | 312,889 | 558,094 | 1,180,400 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 5 | 209,000 | 112 | ..... | 5 | 47,366 | 184,371 | 292,634 |
| Lumber, sawed | 9 | 383,300 | 151 | ..... | ..... | 89,386 | 444,635 | 610,464 |
| Malt | 18 | 2,075,000 | 225 | ..... | ..... | 79,902 | 1,441,230 | 1,879,460 |
| Mantels, slate, marble, and marbleized | 8 | 61,800 | 124 | ..... | 2 | 47,812 | 86,851 | 174,136 |
| Marble and stone work | 110 | 1,764,488 | 1,418 | ..... | 2 | 683,818 | 1,026,589 | 2,104,721 |
| Masonry, brick and stone | 78 | 256,100 | 556 | ..... | 1 | 246,727 | 328,641 | 735,838 |
| Matches | 3 | 106,300 | 18 | 32 | 11 | 14,393 | 69,455 | 184,000 |
| Mattresses and spring beds (see also Furniture) | 25 | 121,250 | 112 | 46 | 13 | 46,463 | 250,090 | 353,399 |
| Millinery and lace goods (see also Artificial feathers and flowers) | 40 | 593,300 | 85 | 1,139 | 54 | 205,942 | 1,063,779 | 1,518,578 |
| Mineral and soda waters | 13 | 107,000 | 155 | ..... | 1 | 61,338 | 135,570 | 242,615 |
| Mixed textiles (see also Cotton goods; Silk and silk goods; Woolen goods). | 87 | 8,391,651 | 4,009 | 5,394 | 1,212 | 3,120,014 | 8,759,101 | 14,998,779 |
| Models and patterns | 23 | 58,525 | 94 | 10 | 4 | 52,132 | 27,151 | 117,639 |
| Musical instruments and materials (not specified) | 6 | 16,200 | 21 | 2 | ..... | 13,222 | 7,180 | 29,500 |
| Musical instruments, organs and materials | 8 | 37,000 | 40 | ..... | 5 | 14,254 | 8,340 | 32,164 |
| Musical instruments, pianos and materials | 5 | 169,500 | 153 | ..... | 1 | 87,044 | 81,145 | 217,924 |
| Oil, lubricating | 3 | 43,000 | 40 | ..... | ..... | 16,480 | 267,311 | 330,870 |
| Painting and paperhanging | 349 | 727,227 | 1,986 | 3 | 30 | 792,067 | 784,484 | 2,097,052 |
| Paints (see also Varnish) | 21 | 1,776,742 | 375 | 24 | 2 | 219,450 | 1,546,326 | 2,068,505 |
| Paperhangings | 4 | 820,000 | 263 | 1 | 137 | 161,120 | 384,252 | 708,979 |
| Paper | 7 | 960,000 | 343 | 100 | ..... | 201,850 | 871,000 | 1,411,830 |
| Patent medicines and compounds (see also Drugs and chemicals) | 35 | 1,648,800 | 141 | 112 | 2 | 130,995 | 366,934 | 1,159,198 |
| Perfumery and cosmetics | 8 | 132,867 | 34 | 53 | 3 | 32,515 | 148,488 | 229,305 |
| Photographing | 47 | 267,450 | 169 | 85 | 10 | 109,203 | 86,381 | 317,120 |
| Photographing materials | 3 | 41,000 | 11 | 27 | 2 | 13,510 | 50,400 | 81,000 |
| Pickles, preserves, and sauces | 6 | 21,900 | 23 | 3 | 1 | 7,312 | 55,662 | 86,280 |
| Pipes, tobacco | 5 | 70,600 | 219 | 13 | 42 | 89,505 | 66,800 | 209,500 |
| Plated and britannia ware (see also Silverware) | 9 | 136,200 | 140 | 30 | 10 | 52,474 | 76,542 | 149,805 |
| Plumbing and gasfitting | 241 | 719,744 | 954 | ..... | 28 | 402,186 | 758,213 | 1,510,645 |
| Pocket-books | 5 | 250,000 | 271 | 209 | 48 | 120,000 | 219,500 | 412,000 |
| Printing and publishing (see also Lithographing) | 181 | 5,728,911 | 3,707 | 470 | 909 | 2,141,415 | 2,849,913 | 6,834,964 |
| Printing materials | 5 | 45,200 | 38 | ..... | 5 | 22,470 | 18,298 | 52,366 |
| Pumps, not including steam pumps | 3 | 27,500 | 10 | ..... | ..... | 3,890 | 20,955 | 36,984 |
| Refrigerators | 6 | 75,992 | 39 | ..... | 1 | 20,595 | 68,180 | 107,963 |
| Regalia and society banners and emblems | 11 | 78,890 | 46 | 123 | 6 | 34,273 | 75,085 | 139,834 |
| Roofing and roofing materials | 105 | 365,755 | 439 | 3 | 4 | 185,748 | 283,982 | 620,167 |
| Saddlery and harness | 116 | 333,964 | 434 | 7 | 13 | 178,725 | 369,038 | 729,299 |
| Safes, doors, and vaults, fire-proof | 4 | 117,000 | 110 | ..... | ..... | 67,500 | 81,015 | 195,930 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 25 | 819,771 | 543 | ..... | 8 | 265,263 | 426,866 | 802,109 |
| Saws | 3 | 1,402,500 | 1,051 | 6 | 134 | 587,750 | 506,780 | 1,517,000 |
| Scales and balances | 7 | 123,000 | 151 | ..... | 9 | 77,511 | 56,350 | 195,500 |
| Sewing machines and attachments | 6 | 1,170,300 | 434 | 8 | 51 | 223,500 | 221,650 | 618,977 |
| Shipbuilding | 51 | 3,321,731 | 1,706 | ..... | ..... | 1,273,322 | 1,529,504 | 3,267,981 |
| Shirts | 49 | 708,294 | 171 | 2,169 | 52 | 531,994 | 1,028,104 | 1,796,311 |
| Shoddy (see also Mixed textiles) | 8 | 125,500 | 56 | 33 | 2 | 28,997 | 400,977 | 481,895 |
| Show-cases | 7 | 19,950 | 30 | ..... | 3 | 15,416 | 22,540 | 53,515 |
| Silk and silk goods (see also Mixed textiles) | 47 | 1,313,900 | 953 | 1,708 | 259 | 620,620 | 1,615,485 | 3,102,340 |
| Silverware (see also Plated and britannia ware) | 6 | 102,000 | 68 | 3 | 4 | 44,131 | 75,283 | 169,384 |
| Slaughtering and meat-packing, not including retail butchering | 19 | 1,965,625 | 359 | ..... | ..... | 165,353 | 7,042,781 | 7,869,114 |
| Soap and candles | 32 | 1,410,202 | 345 | 60 | 27 | 266,085 | 1,412,038 | 2,033,403 |
| Sporting goods | 3 | 26,000 | 30 | 11 | 1 | 19,560 | 20,000 | 55,000 |
| Springs, steel, car, and carriage | 7 | 297,500 | 158 | ..... | 4 | 77,662 | 437,770 | 611,900 |
| Stationery goods | 8 | 52,500 | 41 | 15 | 24 | 18,557 | 205,660 | 263,912 |
| Steam fittings and heating apparatus (see also Foundery and machine-shop products). | 12 | 215,000 | 239 | ..... | 11 | 104,006 | 220,342 | 451,380 |
| Stencils and brands | 10 | 66,100 | 42 | 2 | 6 | 19,592 | 36,432 | 85,683 |
| Stereotyping and electrotyping (see also Type founding) | 5 | 226,000 | 172 | 17 | 2 | 104,982 | 51,050 | 223,500 |
| Stone- and earthen-ware | 7 | 237,500 | 195 | 20 | 20 | 76,700 | 40,410 | 187,900 |
| Straw goods | 6 | 46,200 | 46 | 187 | 6 | 46,000 | 105,704 | 222,218 |
| Sugar and molasses, refined | 11 | 6,072,000 | 1,073 | ..... | 5 | 474,017 | 21,943,943 | 24,294,929 |
| Surgical appliances (see also Artificial limbs) | 6 | 120,500 | 63 | 44 | 4 | 43,314 | 69,821 | 149,273 |
| Telegraph and telephone apparatus (see also Electrical apparatus and supplies). | 3 | 37,000 | 33 | ..... | 3 | 9,643 | 21,344 | 37,840 |
| Terra-cotta ware (see also Brick and tile) | 4 | 71,000 | 55 | ..... | ..... | 16,150 | 18,150 | 57,000 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing) | 272 | 1,334,322 | 1,480 | 48 | 118 | 698,297 | 1,305,687 | 2,669,969 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 4 | 274,000 | 79 | 54 | 15 | 40,400 | 288,351 | 500,570 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 473 | 1,208,465 | 1,742 | 253 | 143 | 802,546 | 1,085,525 | 2,017,725 |
| Tools (see also Cutlery and edge tools; Hardware) | 6 | 1,541,282 | 661 | ..... | ..... | 279,214 | 216,458 | 695,160 |
| Toys and games | 8 | 79,100 | 99 | 77 | 149 | 50,278 | 51,525 | 138,886 |
| Trunks and valises | 21 | 113,100 | 139 | ..... | 3 | 62,485 | 160,022 | 280,742 |
| Type founding (see also Stereotyping and electrotyping) | 4 | 810,000 | 279 | 2 | 25 | 146,694 | 89,400 | 417,132 |
| Umbrellas and canes | 28 | 1,368,900 | 616 | 996 | 165 | 478,847 | 1,777,364 | 2,894,874 |
| Upholstering (see also Furniture) | 71 | 189,000 | 218 | 60 | 18 | 114,563 | 292,950 | 554,230 |
| Upholstering materials | 3 | 95,000 | 15 | 49 | ..... | 24,100 | 71,000 | 122,000 |
| Varnish (see also Paints) | 5 | 228,000 | 53 | ..... | 7 | 29,140 | 159,275 | 307,910 |
| Vinegar | 8 | 50,285 | 26 | 1 | 3 | 19,280 | 81,644 | 120,900 |
| Washing-machines and clothes-wringers | 3 | 2,500 | 5 | ..... | ..... | 1,700 | 850 | 4,050 |
| Watch and clock repairing | 14 | 46,065 | 16 | 1 | 2 | 9,184 | 9,995 | 30,772 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

CITY OF PHILADELPHIA, PA.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Watch cases | 9 | $530,175 | 363 | 54 | 10 | $208,722 | $492,480 | $908,180 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 87 | 140,275 | 188 | ..... | 6 | 86,568 | 86,932 | 252,907 |
| Whips | 5 | 23,500 | 23 | ..... | 6 | 8,250 | 13,200 | 44,000 |
| Window blinds and shades | 23 | 95,950 | 104 | 17 | 16 | 40,133 | 133,767 | 230,610 |
| Wire | 3 | 60,500 | 24 | 12 | ..... | 13,300 | 77,810 | 100,950 |
| Wirework | 14 | 97,250 | 109 | 1 | 51 | 58,816 | 142,441 | 268,382 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds.) | 31 | 170,950 | 302 | 17 | 48 | 113,383 | 108,743 | 280,052 |
| Wooden ware | 8 | 196,000 | 86 | ..... | ..... | 35,950 | 49,560 | 112,315 |
| Woolen goods (see also Carpets, other than rag; Mixed textiles; Worsted goods). | 80 | 11,752,900 | 5,316 | 4,543 | 1,385 | 3,506,951 | 14,211,518 | 21,349,810 |
| Worsted goods (see also Woolen goods) | 24 | 4,459,039 | 1,477 | 2,071 | 780 | 1,295,168 | 6,000,940 | 8,327,282 |
| All other industries (*a*) | 55 | 4,974,144 | 1,506 | 804 | 107 | 858,368 | 4,796,307 | 7,080,504 |

*a* Embracing cardboard; carpets, wood; cheese and butter (factory); clothing, horse; coal-tar; collars and cuffs, paper; dentistry, mechanical; foundery supplies; gloves and mittens; gold and silver, reduced and refined; grindstones; hand-stamps; housefurnishing goods; iron work, architectural and ornamental; lard, refined; lightning rods; liquors, distilled; millstones; mucilage and paste; oil, lard; oil, linseed; oilcloth, floor; oleomargarine; paving materials; pens, steel; registers, car-fare; rubber and elastic goods; sand and emery paper and cloth; sewing-machine cases; soda-water apparatus; spectacles and eyeglasses; stamped ware; taxidermy; tinfoil; wood pulp; and zinc.

BOSTON, *December* 3, 1882.

DEAR SIR: One of the most respectable journals of the country has recently offered objections to the manufacturing statistics of the Tenth Census, based upon a comparison of the average annual product (gross), per hand employed, in Philadelphia with the corresponding product of other cities, especially Jersey City, Brooklyn, Chicago, and New York.

The journal referred to, after stating that Philadelphia shows an average annual product of but $1,752, proceeds to say:

"New York is credited with an annual average product of $2,056 per hand employed; Chicago with $3,106; Brooklyn with $3,751; and Jersey City with $5,574! See how these figures fail when put to the test!

"If the cities last mentioned were engaged, in large proportion, in manufactures of the precious metals, jewelry, watches, costly laces, silks, velvets, and the like, the figures might be capable of explanation. But there is no such proportion; nothing of the kind."

I need not say to you, as a statistician, that comparisons like the above are absolutely inconclusive; but the fact that a journal of candor and intelligence can make such a statement shows the desirableness of some public explanation, to anticipate other unreflecting criticisms upon the census statistics of manufactures.

The writer of the paragraph quoted assumes that it is in manufactures of silks and jewelry and articles of that nature that the proportion of materials to products ranges highest. The fact is quite otherwise. Mr. Wyckoff's report shows that the value of the materials consumed in the silk manufactures of the country is only a trifle above one-half the value of the products. The returns of the jewelry manufacture in New York show the value of the materials to be almost exactly fifty per cent. of the value of the product.

On the other hand, there are industries of gigantic dimensions in which the value of the materials used reaches 80, 90, and even 94 per cent. of the value of the product! And it is the prosecution of these industries, in three of the cities named, which accounts for the seemingly disproportionate returns thence made of the value of manufactured products.

Take the case of Jersey City, which caps the climax of incredibility, in the opinion of the writer of the article just quoted.

The tables already published give the following figures for this city:

| Industries. | Value of materials. | Value of products. |
|---|---|---|
| Meat-packing | $17,404,689 | $18,551,783 |
| Sugar- and molasses-refining | 20,759,961 | 22,799,614 |
| All other | 11,155,449 | 18,229,744 |
| Total | 49,320,099 | 59,581,141 |

Examine this table, and you will see that in this city nearly seventy per cent. of the reported product consists of the value of packed meats and of refined sugar and molasses, the cost of the raw materials being 92 per cent.

*Deduct the value of materials of manufacture, as should be done in the case of every city prior to comparisons of this kind, and we have an average annual product per hand employed of but* $960. Which, be it observed, INCLUDES, BESIDE THE COST OF LABOR, RENTS, FREIGHTS, INSURANCE, PROFITS ON CAPITAL INVESTED, INTEREST ON MONEY BORROWED, AND THE PROFITS OF THE MANUFACTURER.

Take the case of the next city named, Brooklyn: Of the total reported product of that city, more than one-third is furnished by a single interest—the sugar-refining industry—of which Brooklyn is the chief seat in this country. Of the $59,711,168 worth of refined sugar and molasses, the cost of the raw sugars and molasses was $56,423,868. The manufacture of silks and velvets is, we see, not needed to explain a very large gross product per hand employed. The sugar business does it adequately. Deduct the value of materials used in the manufactures of Brooklyn and the average annual product sinks to $991.

Again, Chicago is named as a city whose manufacturing products are reported at such enormous figures as to prove incontestably that the census is wrong.

Of the productions of this city, over one-third in value, viz, $85,324,371, is furnished by the meat-packing industry, the stock-yards and slaughter-houses of Chicago being without a parallel in the world. Of this enormous aggregate, seven-eighths is made up of the value of cattle and hogs slaughtered.

Deduct the value of the materials consumed in the manufactures of Chicago, and we have an average annual product of but $861, which is certainly within reason.

In the same way, deducting the value of materials, we find New York, with an average annual product of but $794, that city standing fourteenth on our list of the twenty largest cities (according to population).

In preparing this letter, I have drawn off the following table, which may be found to contain other matter of interest.

The first column shows THE RANK of the city named upon the list of twenty cities, in the respect of the aggregate number of persons employed in manufacturing establishments; the second, in the respect of the aggregate amount of wages paid in manufactures; *the third, in the respect of the aggregate gross product of all branches of manufactures; the fourth, in the respect of the average annual product per hand employed, after deduction of the value of materials.*

| Cities. | HANDS EMPLOYED AND WAGES. | | PRODUCT. | |
|---|---|---|---|---|
| | Number of hands. | Amount of wages. | Aggregate gross product. | Average net product. |
| New York, N. Y | 1 | 1 | 1 | 14 |
| Philadelphia, Pa | 2 | 2 | 2 | 18 |
| Chicago, Ill | 3 | 3 | 3 | 7 |
| Brooklyn, N. Y | 7 | 5 | 4 | 2 |
| Boston, Mass | 4 | 4 | 5 | 11 |
| Saint Louis, Mo | 8 | 8 | 6 | 4 |
| Cincinnati, Ohio | 6 | 6 | 7 | 16 |
| Baltimore, Md | 5 | 9 | 8 | 20 |
| Pittsburgh, Pa | 9 | 7 | 9 | 5 |
| San Francisco, Cal | 11 | 10 | 10 | 1 |
| Newark, N. J | 10 | 11 | 11 | 12 |
| Jersey City, N. J | 18 | 18 | 12 | 3 |
| Cleveland, Ohio | 12 | 13 | 13 | 15 |
| Buffalo, N. Y | 15 | 14 | 14 | 9 |
| Providence, R. I | 13 | 12 | 15 | 8 |
| Milwaukee, Wis | 14 | 15 | 16 | 19 |
| Louisville, Ky | 16 | 17 | 17 | 13 |
| Detroit, Mich | 17 | 16 | 18 | 17 |
| New Orleans, La | 19 | 20 | 19 | 10 |
| Washington, D. C | 20 | 19 | 20 | 6 |

Now, a most striking feature of this table is the tendency on the part of *the greatest manufacturing cities*, as a class, *to show a smaller average annual product per hand employed* (column 4) than the less important manufacturing cities as a class.

The reason is perfectly evident. Where manufacturing capital is accumulated in vast amounts, where production is carried on upon the largest scale, with the most approved appliances and with most direct access to the greatest markets, there is found, other things equal, the power of producing at the lowest cost.

Let us see how this is borne out by the foregoing table.

First, take individual instances. New York, which is first in gross aggregate production, as it is also first in the number of hands employed and aggregate amount of wages paid, falls to fourteenth in respect to average annual product per hand employed. Philadelphia, which is second in the three respects first indicated, falls to eighteenth. Chicago, which ranks third in each of the three respects first indicated, falls to seventh in the last respect, moving in the same direction, though not so far as either New York or Philadelphia, probably because of the higher rate of interest and the greater risk to capital in a newer city. Boston, which is fifth in aggregate gross product, becomes eleventh in average annual product per hand employed; Baltimore falls from eighth to twentieth; Cincinnati, from seventh to sixteenth, etc.

On the other hand, San Francisco, the single large city of its coast, with markets all its own, is only tenth in aggregate gross product, but becomes first in what we may call individual product, *i. e.*, average annual product per hand employed; Washington, which can hardly be called a manufacturing city, doing little more than to supply its own market, rises from twentieth (column 3) to sixth (column 4); New Orleans, with manufactures aggregating only about eighteen millions, rises from nineteenth to tenth; Jersey City, whose manufactures, exclusive of meat-packing and sugar-refining, scarcely exceed eighteen millions, rises from twelfth to third, etc.

There are some apparent exceptions to this rule, such as Brooklyn, Saint Louis, Pittsburgh, and Providence, which, while large and prosperous manufacturing cities, move, though but slightly, in the direction of a higher relative rank in column 4 than in column 3; yet, if we name the cities which change more than one point in either direction, it will at once appear that the great weight of manufacturing power is on the side of those which stand relatively higher in respect to aggregate gross production than on the side of those which reverse the relation.

(1) Those cities which stand higher in column 3 than in column 4, by more than one point, are New York, Philadelphia, Chicago, Boston, Cincinnati, Baltimore, Cleveland, and Milwaukee.

(2) Those cities which stand higher in column 4 than in column 3, by more than one point, are Brooklyn, Saint Louis, Pittsburgh, San Francisco, Jersey City, Buffalo, Providence, Louisville, New Orleans, and Washington.

The aggregate manufacturing production of the first class of cities is considerably more than twice that of the second.

Were we to limit our enumeration to those cities which change more than two points, we should lose from the former list only Cleveland, while we should lose from the latter list the two cities which constitute by far its most important members, Brooklyn and Saint Louis. The former class would then show an aggregate manufacturing product of nearly four times the latter.

The subject might be pursued at great length, but the above will suffice to indicate the class of criticism which must be applied to tables like those of the Manufacturing Statistics of Cities before they can be rejected on internal evidence.

Truly yours,

FRANCIS A. WALKER.

Hon. CHARLES W. SEATON,
*Superintendent of Census.*

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF PITTSBURGH, PA.

[Statistics collected under the direction of A. B. MILLS, Chief Special Agent. See note on page 379.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 1,112 | $52,645,010 | 32,011 | 1,681 | 3,238 | $17,168,989 | $42,109,777 | $75,915,033 |
| Agricultural implements | 4 | 600,000 | 292 | ..... | 7 | 132,769 | 239,710 | 555,150 |
| Baking and yeast powders (see also Drugs and chemicals) | 3 | 18,000 | 8 | 7 | 1 | 7,776 | 27,747 | 57,100 |
| Blacksmithing (see also Wheelwrighting) | 45 | 40,075 | 88 | ..... | 3 | 47,278 | 39,354 | 136,963 |
| Bookbinding and blank-book making | 3 | 9,000 | 17 | 14 | 1 | 10,195 | 5,350 | 19,545 |
| Boot and shoe uppers | 3 | 13,500 | 9 | 8 | ..... | 12,100 | 21,600 | 40,500 |
| Boots and shoes, including custom work and repairing | 25 | 494,320 | 498 | 22 | ..... | 128,376 | 382,826 | 611,378 |
| Boxes, fancy and paper | 4 | 13,000 | 10 | 26 | ..... | 12,145 | 13,040 | 31,805 |
| Brass castings | 12 | 175,500 | 84 | ..... | ..... | 37,420 | 91,440 | 175,125 |
| Bread and other bakery products | 62 | 384,320 | 168 | 81 | 19 | 103,594 | 411,174 | 695,996 |
| Brick and tile | 19 | 322,900 | 291 | ..... | 46 | 122,604 | 127,084 | 385,477 |
| Bridges | 3 | 590,000 | 692 | ..... | 3 | 339,164 | 648,836 | 1,214,932 |
| Brooms and brushes | 6 | 77,300 | 102 | 4 | 14 | 39,570 | 111,909 | 200,450 |
| Carpentering | 32 | 60,389 | 150 | ..... | ..... | 76,195 | 156,024 | 287,981 |
| Carpets, rag | 6 | 2,424 | 10 | 5 | 1 | 4,355 | 5,773 | 13,245 |
| Carriages and wagons (see also Wheelwrighting) | 16 | 241,300 | 182 | ..... | 1 | 102,550 | 146,140 | 340,413 |
| Cars, railroad, street, and repairs | 4 | 102,500 | 67 | ..... | ..... | 37,400 | 74,500 | 134,025 |
| Clothing, men's | 92 | 750,000 | 775 | 475 | ..... | 314,325 | 1,105,200 | 1,708,560 |
| Clothing, women's | 16 | 29,000 | 25 | 147 | ..... | 16,500 | 80,000 | 130,000 |
| Coffee and spices, roasted and ground | 9 | 330,000 | 34 | 57 | 1 | 35,380 | 1,168,390 | 1,276,420 |
| Coffins, burial cases, and undertakers' goods | 4 | 53,500 | 9 | 5 | ..... | 8,720 | 34,400 | 63,600 |
| Coke | 10 | 262,650 | 154 | ..... | 2 | 54,284 | 114,352 | 208,535 |
| Confectionery | 7 | 85,200 | 57 | 43 | 13 | 59,550 | 147,965 | 259,775 |
| Cooperage | 17 | 494,735 | 414 | ..... | 77 | 154,596 | 868,555 | 1,152,892 |
| Cutlery and edge tools (see also Hardware) | 3 | 355,000 | 326 | ..... | ..... | 175,184 | 259,793 | 499,000 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 5 | 251,448 | 53 | ..... | ..... | 28,010 | 62,240 | 158,046 |
| Dyeing and cleaning | 4 | 11,500 | 4 | 9 | ..... | 4,550 | 2,550 | 13,375 |
| Flouring- and grist-mill products | 3 | 213,500 | 47 | ..... | ..... | 21,942 | 581,701 | 691,127 |
| Foundery and machine-shop products | 66 | 4,102,133 | 2,603 | ..... | 33 | 1,390,224 | 2,664,749 | 5,530,309 |
| Furniture (see also Upholstering) | 15 | 440,950 | 329 | 12 | 11 | 164,616 | 269,848 | 543,838 |
| Furniture, chairs | 3 | 2,900 | 9 | 2 | 2 | 4,664 | 5,700 | 13,650 |
| Glass | 46 | 5,268,000 | 4,185 | 138 | 1,473 | 2,501,431 | 1,997,303 | 5,231,071 |
| Grease and tallow | 3 | 17,000 | 11 | ..... | ..... | 5,050 | 196,201 | 222,091 |
| Hardware (see also Cutlery and edge tools) | 6 | 576,566 | 495 | 11 | 90 | 203,969 | 413,164 | 741,704 |
| Iron and steel | 39 | 25,190,000 | 14,559 | 10 | 1,063 | 8,072,110 | 19,298,063 | 35,490,634 |
| Iron bolts, nuts, washers, and rivets | 4 | 380,000 | 358 | ..... | 52 | 148,709 | 571,943 | 867,760 |
| Iron forgings | 5 | 130,500 | 84 | ..... | 13 | 52,410 | 86,410 | 194,387 |
| Iron pipe, wrought | 3 | 869,150 | 585 | ..... | 60 | 196,582 | 1,187,025 | 1,558,250 |
| Leather, curried | 3 | 92,500 | 25 | ..... | ..... | 13,500 | 217,010 | 282,406 |
| Leather, tanned | 3 | 92,500 | 30 | ..... | 1 | 17,000 | 145,850 | 200,000 |
| Liquors, malt | 23 | 1,275,108 | 284 | ..... | 4 | 136,483 | 655,373 | 1,150,787 |
| Looking-glass and picture frames | 4 | 76,000 | 16 | 1 | 6 | 12,400 | 33,500 | 62,330 |
| Lumber, planed (see also Wood, turned and carved) | 18 | 561,647 | 281 | ..... | 9 | 154,643 | 615,325 | 1,054,395 |
| Lumber, sawed | 6 | 270,000 | 96 | ..... | 9 | 26,945 | 259,900 | 383,420 |
| Marble and stone work | 11 | 84,200 | 70 | ..... | ..... | 36,021 | 32,096 | 86,760 |
| Masonry, brick and stone | 16 | 21,825 | 107 | ..... | 6 | 53,577 | 64,430 | 156,586 |
| Models and patterns | 4 | 8,200 | 13 | ..... | ..... | 6,389 | 3,050 | 16,080 |
| Oil, lard | 4 | 65,000 | 11 | ..... | 1 | 6,280 | 118,464 | 141,831 |
| Oil, lubricating | 6 | 42,500 | 42 | 2 | ..... | 25,113 | 241,100 | 311,500 |
| Painting and paperhanging | 27 | 92,930 | 128 | ..... | 3 | 66,438 | 72,461 | 188,730 |
| Paints | 3 | 237,000 | 80 | ..... | ..... | 33,232 | 281,706 | 360,390 |
| Patent medicines and compounds (see also Drugs and chemicals) | 5 | 346,000 | 76 | 59 | 3 | 47,283 | 322,508 | 740,164 |
| Photographing | 5 | 21,050 | 13 | 4 | ..... | 10,809 | 3,093 | 33,075 |
| Plumbing and gasfitting | 26 | 124,686 | 106 | ..... | 1 | 49,864 | 97,837 | 197,755 |
| Printing and publishing | 42 | 1,567,600 | 654 | 48 | 34 | 465,041 | 465,977 | 1,422,481 |
| Roofing and roofing materials | 6 | 48,300 | 50 | ..... | ..... | 22,860 | 46,500 | 93,012 |
| Saddlery and harness | 19 | 96,690 | 94 | 46 | 3 | 54,832 | 98,946 | 191,475 |
| Safes, doors, and vaults, fire-proof | 3 | 59,000 | 49 | ..... | 1 | 26,350 | 25,000 | 63,575 |
| Shipbuilding | 15 | 93,000 | 210 | ..... | ..... | 102,080 | 144,393 | 295,283 |
| Show-cases | 3 | 35,000 | 29 | ..... | 4 | 20,200 | 72,000 | 115,500 |
| Slaughtering and meat-packing, not including retail butchering | 9 | 693,000 | 91 | ..... | 19 | 41,379 | 1,302,167 | 1,451,816 |
| Soap and candles | 4 | 111,056 | 23 | ..... | ..... | 14,212 | 83,825 | 121,248 |
| Stencils and brands | 3 | 8,100 | 12 | ..... | 1 | 6,797 | 1,725 | 14,740 |
| Stone- and earthen-ware | 4 | 85,500 | 69 | 20 | 3 | 49,450 | 67,744 | 187,181 |
| Tinware, copperware, and sheet-iron ware | 53 | 337,000 | 183 | 64 | 51 | 121,775 | 312,956 | 561,100 |
| Tobacco, cigars and cigarettes | 50 | 85,910 | 211 | 15 | 19 | 83,814 | 97,690 | 274,692 |
| Upholstering (see also Furniture) | 6 | 43,250 | 33 | 36 | 1 | 30,150 | 64,608 | 139,708 |
| Watch and clock repairing | 7 | 47,900 | 15 | ..... | 2 | 10,190 | 7,650 | 27,050 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 26 | 22,300 | 55 | ..... | 2 | 26,045 | 24,412 | 82,088 |
| Wirework | 3 | 7,300 | 10 | ..... | 4 | 6,099 | 12,900 | 27,200 |
| Wood, turned and carved (see also Lumber, planed) | 6 | 21,800 | 26 | ..... | 1 | 16,143 | 20,279 | 50,048 |
| All other industries (a) | 82 | 2,903,898 | 945 | 310 | 64 | 558,229 | 2,549,294 | 4,024,232 |

a Embracing artificial limbs; awnings and tents; axle-grease; bags, paper; bellows; bells; boxes, cigar; boxes, wooden, packing; brass and copper, rolled; bronze castings; coppersmithing; cordage and twine; cork cutting; crucibles; dentistry, mechanical; electroplating; engraving, steel; files; fire-arms; fruits and vegetables, canned and preserved; furs, dressed; galvanizing; glass, cut, stained, and ornamented; gold and silver leaf and foil; hairwork; hardware, saddlery; hats and caps; hosiery and knit goods; ink; iron nails and spikes, cut and wrought; iron railing, wrought; iron work, architectural and ornamental; jewelry; kaolin and ground earths; lamps and reflectors; lead, bar, pipe, sheet, and shot; liquors, distilled; lithographing; lock- and gun-smithing; malt; mantels, slate, marble, and marbleized; mineral and soda waters; pickles, preserves, and sauces; plated and britannia ware; regalia and society banners and emblems; saws; springs, steel, car, and carriage; steam fittings and heating apparatus; tobacco, chewing, smoking, and snuff; trunks and valises; umbrellas and canes; upholstering materials; varnish; washing-machines and clothes-wringers; whips; and wooden ware.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF PORTLAND, ME.

[Statistics collected under the direction of MARSHAL N. RICH, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 302 | $4,243,225 | 4,341 | 1,550 | 736 | $1,541,997 | $6,813,962 | $9,832,931 |
| Blacksmithing (see also Wheelwrighting) | 3 | 1,350 | 8 | | | 4,318 | 2,800 | 11,700 |
| Bookbinding and blank-book making | 5 | 42,700 | 37 | 24 | | 22,500 | 51,000 | 88,500 |
| Boots and shoes, including custom work and repairing | 7 | 166,000 | 260 | 152 | 5 | 141,070 | 405,100 | 629,000 |
| Bread and other bakery products | 10 | 67,900 | 73 | 3 | 4 | 35,030 | 118,836 | 179,254 |
| Brooms and brushes | 3 | 45,000 | 86 | 2 | 13 | 26,000 | 174,000 | 235,000 |
| Carpentering | 11 | 21,200 | 72 | | | 25,850 | 29,900 | 67,350 |
| Carriages and wagons (see also Wheelwrighting) | 7 | 69,500 | 88 | | | 49,550 | 53,443 | 136,500 |
| Coffee and spices, roasted and ground | 5 | 30,500 | 19 | 9 | | 16,065 | 150,500 | 195,000 |
| Coffins, burial cases, and undertakers' goods | 5 | 12,000 | 11 | | | 7,835 | 12,252 | 32,078 |
| Clothing, men's | 6 | 146,800 | 27 | 84 | | 38,900 | 225,500 | 348,500 |
| Confectionery | 8 | 49,200 | 36 | 36 | | 13,750 | 50,700 | 83,000 |
| Cooperage | 13 | 36,700 | 81 | | | 34,738 | 63,400 | 117,600 |
| Drugs and chemicals | 3 | 83,000 | 27 | 2 | | 9,600 | 37,250 | 62,500 |
| Flouring- and grist-mill products | 5 | 37,000 | 15 | | | 5,800 | 124,750 | 133,700 |
| Foundery and machine-shop products (see also Steam fittings and heating apparatus). | 8 | 527,000 | 415 | | 6 | 192,867 | 322,121 | 600,400 |
| Fruits and vegetables, canned and preserved | 3 | 700,000 | 1,575 | 940 | 600 | 144,000 | 618,900 | 1,050,000 |
| Furniture | 11 | 75,800 | 112 | 7 | 3 | 49,800 | 110,450 | 213,800 |
| Hats and caps, not including wool hats | 3 | 18,500 | 11 | 13 | | 8,850 | 28,150 | 48,300 |
| Looking-glass and picture frames | 3 | 4,500 | 7 | | 1 | 3,500 | 8,000 | 13,800 |
| Lumber, planed | 4 | 85,000 | 47 | | 12 | 27,180 | 236,600 | 291,056 |
| Marble and stone work | 4 | 6,500 | 20 | | | 7,500 | 7,387 | 18,000 |
| Masonry, brick and stone | 3 | 3,800 | 20 | | | 9,500 | 5,200 | 18,500 |
| Painting and paperhanging | 7 | 7,500 | 33 | | | 12,450 | 8,350 | 26,845 |
| Photographing | 6 | 18,200 | 19 | 8 | 1 | 9,300 | 7,500 | 20,300 |
| Plumbing and gasfitting | 6 | 16,000 | 36 | | | 14,650 | 40,496 | 67,600 |
| Printing and publishing | 15 | 155,900 | 102 | 28 | 4 | 107,184 | 80,278 | 227,189 |
| Saddlery and harness | 8 | 13,700 | 32 | | 1 | 13,750 | 26,650 | 56,500 |
| Shipbuilding | 26 | 112,400 | 157 | | | 76,467 | 145,804 | 242,818 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 150,000 | 67 | | | 28,000 | 595,000 | 667,000 |
| Steam fittings and heating apparatus (see also Foundery and machine-shop products). | 3 | 4,000 | 13 | | | 3,900 | 12,500 | 22,000 |
| Tinware, copperware, and sheet-iron ware | 9 | 64,700 | 49 | | | 22,700 | 48,700 | 111,200 |
| Tobacco, cigars and cigarettes | 4 | 6,900 | 21 | 7 | 1 | 8,862 | 14,500 | 29,000 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 6 | 3,850 | 13 | | 1 | 6,420 | 3,100 | 12,600 |
| All other industries (*a*) | 79 | 1,460,125 | 1,102 | 235 | 86 | 364,015 | 2,095,745 | 3,767,281 |

*a* Embracing agricultural implements; awnings and tents; babbitt metal and solder; belting and hose, leather; boot and shoe cut stock; boxes, fancy and paper; boxes, wooden, packing; brass castings; carriage and wagon materials; cutlery and edge tools; drain and sewer pipe; dyeing and finishing textiles; electroplating; emery wheels; engraving and die-sinking; engraving, wood; fertilizers; files; flavoring extracts; food preparations; furnishing goods, men's; glass, cut, stained, and ornamented; grindstones; hairwork; hones and whetstones; instruments, professional and scientific; iron and steel; iron forgings; iron work, architectural and ornamental; ivory and bone work; lamps and reflectors; lasts; leather, dressed skins; leather, tanned; lock- and gun-smithing; matches; mineral and soda waters; models and patterns; musical instruments, organs and materials; oil, lubricating; paints; patent medicines and compounds; pickles, preserves, and sauces; plated and britannia ware; refrigerators; regalia and society banners and emblems; roofing and roofing materials; sash, doors, and blinds; show-cases; soap and candles; stationery goods; stone- and earthen-ware; straw goods; sugar and molasses, beet; sugar and molasses, refined; tools; trunks and valises; varnish; window blinds and shades; wood, turned and carved; and wool hats.

### CITY OF POUGHKEEPSIE, N. Y.

[Statistics collected under the direction of SAMUEL J. FARNUM, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 140 | $3,728,700 | 1,766 | 493 | 223 | $761,711 | $2,781,289 | $4,392,900 |
| Blacksmithing (see also Wheelwrighting) | 5 | 11,600 | 8 | | | 2,575 | 2,400 | 10,100 |
| Boots and shoes, including custom work and repairing | 6 | 511,400 | 148 | 80 | 76 | 44,953 | 133,815 | 202,596 |
| Bread and other bakery products | 6 | 49,000 | 27 | 1 | 15 | 10,100 | 64,100 | 98,100 |
| Carpentering | 9 | 45,100 | 81 | | 1 | 29,300 | 53,600 | 107,000 |
| Carriages and wagons (see also Wheelwrighting) | 7 | 66,900 | 93 | | | 37,467 | 58,955 | 122,409 |
| Clothing, men's | 5 | 60,500 | 77 | 10 | 2 | 28,400 | 78,000 | 176,500 |
| Confectionery | 3 | 52,000 | 17 | 27 | 14 | 6,850 | 32,200 | 56,000 |
| Cooperage | 4 | 64,000 | 118 | | | 53,500 | 100,000 | 200,000 |
| Furniture | 4 | 20,700 | 25 | 2 | 1 | 6,752 | 8,450 | 20,000 |
| Iron and steel | 3 | 913,000 | 162 | | | 66,016 | 565,554 | 740,543 |
| Jewelry | 4 | 41,500 | 13 | | 10 | 5,600 | 3,550 | 12,850 |
| Liquors, malt | 6 | 76,000 | 33 | | | 15,001 | 75,960 | 135,301 |
| Marble and stone work | 3 | 10,000 | 15 | | 1 | 7,685 | 8,500 | 33,150 |
| Masonry, brick and stone | 3 | 6,500 | 34 | | | 10,800 | 14,000 | 30,500 |
| Painting and paperhanging | 3 | 2,900 | 14 | | | 2,000 | 2,600 | 7,000 |
| Photographing | 3 | 8,500 | 7 | 2 | | 4,300 | 2,100 | 11,500 |
| Plumbing and gasfitting | 3 | 6,800 | 12 | | | 4,200 | 3,750 | 11,850 |
| Printing and publishing | 6 | 94,500 | 98 | | 6 | 42,773 | 16,346 | 82,420 |
| Saddlery and harness | 5 | 9,500 | 14 | | | 5,062 | 6,570 | 17,415 |
| Sash, doors, and blinds | 3 | 46,000 | 48 | | 8 | 6,641 | 28,800 | 57,550 |
| Soap and candles | 3 | 38,000 | 9 | | | 2,036 | 27,322 | 42,073 |
| Tinware, copperware, and sheet-iron ware | 6 | 19,800 | 42 | | | 14,338 | 16,535 | 42,600 |
| Tobacco, cigars and cigarettes | 7 | 20,700 | 33 | | 5 | 12,198 | 12,000 | 36,375 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 4 | 7,000 | 10 | | | 2,516 | 6,200 | 14,230 |
| All other industries (*a*) | 29 | 1,538,300 | 628 | 371 | 84 | 333,558 | 1,459,382 | 2,118,238 |

*a* Embracing agricultural implements; bags, paper; carpets, other than rag; carpets, rag; cutlery and edge tools; dyestuffs and extracts; flouring- and grist-mill products; foundery and machine-shop products; furniture, chairs; glass; hardware; hones and whetstones; leather, curried; leather, tanned; mattresses and spring beds; mineral and soda waters; musical instruments, pianos and materials; shipbuilding; shirts; silk and silk goods; slaughtering and meat-packing; stone- and earthen-ware; watch and clock repairing; and wood, turned and carved.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF PROVIDENCE, R. I.

[Statistics collected under the direction of J. ALBERT MONROE, Chief Special Agent. See note on page 379.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 1,205 | $27,177,006 | 16,050 | 5,125 | 1,716 | $9,464,110 | $22,794,227 | $42,597,512 |
| Blacksmithing | 62 | 70,425 | 104 | | 1 | 54,428 | 54,423 | 170,463 |
| Bookbinding and blank-book making | 5 | 50,300 | 41 | 25 | 1 | 26,835 | 28,100 | 83,000 |
| Boots and shoes, including custom work and repairing | 81 | 27,290 | 38 | 6 | 1 | 18,463 | 38,321 | 103,298 |
| Boxes, wooden, packing | 4 | 19,300 | 36 | | | 14,434 | 36,396 | 64,000 |
| Brass castings | 9 | 103,900 | 60 | | | 32,269 | 115,600 | 172,921 |
| Bread and other bakery products | 19 | 115,700 | 124 | 24 | | 62,577 | 305,022 | 445,586 |
| Brooms and brushes | 6 | 12,700 | 14 | 1 | 2 | 7,245 | 14,085 | 28,225 |
| Carpentering | 81 | 254,750 | 638 | | 2 | 341,125 | 692,060 | 1,250,104 |
| Carriages and wagons | 47 | 149,505 | 164 | | 1 | 85,371 | 114,910 | 271,659 |
| Clothing, men's | 42 | 833,877 | 417 | 535 | 35 | 393,939 | 1,090,506 | 1,869,819 |
| Clothing, women's | 7 | 21,400 | 6 | 59 | | 18,555 | 94,825 | 137,880 |
| Coffee and spices, roasted and ground | 5 | 42,000 | 19 | | | 10,676 | 121,536 | 156,194 |
| Coffins, burial cases, and undertakers' goods | 10 | 40,000 | 32 | 2 | | 18,958 | 45,923 | 91,293 |
| Confectionery | 5 | 14,800 | 13 | 9 | 4 | 10,501 | 30,188 | 68,550 |
| Cooperage | 3 | 20,732 | 27 | | 2 | 14,884 | 27,150 | 60,500 |
| Cotton goods | 17 | 2,453,854 | 609 | 1,129 | 274 | 487,393 | 1,323,024 | 2,250,273 |
| Cutlery and edge tools (see also Hardware) | 4 | 25,550 | 45 | | | 15,889 | 16,660 | 45,360 |
| Dentistry, mechanical | 20 | 20,025 | 9 | 3 | | 8,046 | 9,892 | 52,750 |
| Drugs and chemicals (see also Patent medicines and compounds) | 5 | 52,500 | 22 | | | 10,924 | 78,800 | 103,000 |
| Dyeing and cleaning | 3 | 6,000 | 6 | 8 | | 6,708 | 1,788 | 15,250 |
| Dyeing and finishing textiles | 7 | 2,925,000 | 853 | 148 | 130 | 412,608 | 834,807 | 2,273,254 |
| Dyestuffs and extracts | 4 | 144,000 | 40 | | | 19,195 | 162,500 | 221,705 |
| Electroplating | 10 | 65,600 | 58 | 1 | 2 | 36,162 | 136,372 | 208,164 |
| Enameling | 9 | 123,000 | 93 | 45 | 9 | 44,816 | 59,263 | 126,175 |
| Engraving and die-sinking | 24 | 17,900 | 52 | 5 | 10 | 34,941 | 6,423 | 76,704 |
| Engraving, wood | 6 | 1,750 | 2 | | | 2,146 | 2,660 | 13,130 |
| Fancy articles | 4 | 21,500 | 25 | 6 | 2 | 11,367 | 35,084 | 70,382 |
| Files | 7 | 437,600 | 321 | 9 | 25 | 129,944 | 140,095 | 460,050 |
| Flouring- and grist-mill products | 4 | 217,600 | 36 | | | 21,106 | 392,875 | 458,836 |
| Foundery and machine-shop products | 55 | 3,563,975 | 3,237 | 77 | 42 | 1,552,842 | 1,912,589 | 4,522,179 |
| Furniture (see also Mattresses and spring beds) | 15 | 218,750 | 310 | 7 | 2 | 162,150 | 415,584 | 686,705 |
| Gas and lamp fixtures | 3 | 91,000 | 46 | 9 | 6 | 26,500 | 34,600 | 86,600 |
| Gold and silver, reduced and refined | 6 | 138,000 | 25 | | | 18,627 | 1,366,471 | 1,421,160 |
| Hairwork | 7 | 21,050 | | 18 | 2 | 5,300 | 18,930 | 34,945 |
| Hardware (see also Cutlery and edge tools) | 5 | 109,300 | 142 | | 1 | 63,743 | 37,484 | 154,543 |
| Ivory and bone work | 4 | 36,000 | 60 | 6 | 2 | 35,230 | 17,375 | 72,607 |
| Jewelry | 142 | 2,755,070 | 2,411 | 675 | 178 | 1,614,836 | 2,495,824 | 5,444,092 |
| Lapidary work | 7 | 22,000 | 39 | 2 | 2 | 16,682 | 11,200 | 42,333 |
| Leather goods | 3 | 45,600 | 38 | | 3 | 19,420 | 63,950 | 96,815 |
| Liquors, malt | 3 | 160,000 | 88 | | | 38,785 | 233,052 | 392,163 |
| Lock- and gun-smithing | 5 | 4,050 | 5 | | | 3,702 | 2,762 | 10,515 |
| Looking-glass and picture frames | 7 | 30,200 | 17 | 1 | 2 | 10,103 | 31,860 | 57,745 |
| Lumber, planed (see also Wood, turned and carved) | 6 | 84,000 | 63 | | | 28,309 | 23,910 | 69,912 |
| Marble and stone work | 23 | 320,800 | 276 | | 5 | 130,823 | 82,740 | 299,826 |
| Masonry, brick and stone | 29 | 60,300 | 221 | 1 | | 94,064 | 129,296 | 280,696 |
| Mattresses and spring beds (see also Furniture) | 4 | 29,700 | 21 | 6 | | 9,356 | 80,260 | 113,656 |
| Mineral and soda waters | 3 | 20,500 | 14 | | | 6,149 | 15,240 | 41,075 |
| Models and patterns | 3 | 5,000 | 7 | | 1 | 4,389 | 1,480 | 12,432 |
| Painting and paperhanging | 65 | 69,365 | 279 | | 6 | 133,185 | 111,178 | 343,205 |
| Patent medicines and compounds (see also Drugs and chemicals) | 22 | 373,500 | 92 | 21 | 6 | 63,209 | 285,864 | 700,442 |
| Photographing | 19 | 40,750 | 30 | 28 | 1 | 26,156 | 15,101 | 80,110 |
| Plumbing and gasfitting | 21 | 30,550 | 76 | | | 42,641 | 87,796 | 181,216 |
| Printing and publishing | 17 | 222,050 | 289 | 11 | 60 | 219,429 | 173,200 | 536,598 |
| Pumps, not including steam pumps | 3 | 11,000 | 6 | | | 2,663 | 7,962 | 15,000 |
| Saddlery and harness | 26 | 45,700 | 75 | 2 | 2 | 36,024 | 46,274 | 112,477 |
| Shipbuilding | 8 | 152,500 | 83 | | | 51,077 | 57,883 | 133,331 |
| Shoddy | 3 | 33,000 | 35 | 26 | 4 | 14,290 | 131,154 | 179,795 |
| Slaughtering and meat-packing, not including retail butchering | 6 | 273,600 | 85 | | 4 | 44,362 | 1,318,116 | 1,458,740 |
| Soap and candles | 6 | 8,900 | 10 | | | 2,598 | 22,925 | 37,250 |
| Stationery goods | 4 | 24,300 | 21 | 6 | | 16,898 | 23,910 | 56,425 |
| Stencils and brands | 3 | 9,000 | 7 | | 2 | 2,665 | 8,730 | 18,580 |
| Straw goods | 3 | 2,300 | 5 | 11 | | 5,553 | 547 | 10,160 |
| Tinware, copperware, and sheet-iron ware | 40 | 121,500 | 197 | 2 | 3 | 106,811 | 196,292 | 407,382 |
| Tobacco, cigars and cigarettes | 32 | 24,350 | 52 | 53 | | 28,774 | 56,261 | 105,844 |
| Trunks and valises | 3 | 21,200 | 11 | | 1 | 6,958 | 14,805 | 35,530 |
| Umbrellas and canes | 3 | 1,700 | 2 | 1 | | 660 | 1,050 | 5,850 |
| Wood, turned and carved (see also Lumber, planed) | 4 | 12,500 | 10 | | | 5,413 | 12,500 | 23,000 |
| Woolen goods (see also Worsted goods) | 5 | 1,929,700 | 815 | 568 | 381 | 641,391 | 1,973,001 | 3,602,947 |
| Worsted goods (see also Woolen goods) | 4 | 1,250,000 | 851 | 912 | 203 | 661,588 | 2,062,630 | 3,537,000 |
| All other industries (*a*) | 68 | 6,506,388 | 2,045 | 667 | 296 | 1,159,250 | 3,203,693 | 5,804,716 |

*a* Embracing agricultural implements; belting and hose, leather; boots and shoes, rubber; boxes, cigar; boxes, fancy and paper; bridges; buttons; collars and cuffs, paper; corsets; cotton-ties; drain and sewer pipe; fire-arms; foundery supplies; furniture, chairs; furs, dressed; glass, cut, stained, and ornamented; hand-stamps; hats and caps; hooks and eyes; iron and steel; iron forgings; iron pipe, wrought; lead, bar, pipe, sheet, and shot; leather, dressed skins; lime; lithographing; musical instruments, organs and materials; oil, cottonseed and cake; paints; paving materials; pickles, preserves, and sauces; plated and britannia ware; rubber and elastic goods; safes, doors, and vaults, fire-proof; sash, doors, and blinds; saws; screws; sewing machines and attachments; shirts; silk and silk goods; silverware; sporting goods; starch; stone- and earthen-ware; taxidermy; toys and games; upholstering; watch cases; window blinds and shades; wire, and wirework.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF QUINCY, ILL.

[Statistics collected under the direction of A. L. LANGDON, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 318 | $4,078,200 | 2,866 | 151 | 309 | $1,271,995 | $5,089,880 | $8,103,277 |
| Agricultural implements | 5 | 100,000 | 137 | ..... | ..... | 52,326 | 66,019 | 174,000 |
| Blacksmithing (see also Wheelwrighting) | 10 | 3,150 | 16 | ..... | ..... | 4,274 | 4,975 | 13,050 |
| Boots and shoes, including custom work and repairing | 18 | 5,075 | 25 | ..... | 2 | 8,063 | 8,435 | 23,130 |
| Boxes, wooden, packing | 3 | 16,500 | 28 | 8 | ..... | 10,000 | 15,550 | 26,240 |
| Bread and other bakery products | 19 | 56,850 | 93 | 17 | ..... | 33,875 | 134,505 | 189,785 |
| Brick and tile | 10 | 25,400 | 68 | ..... | 2 | 15,180 | 7,660 | 29,250 |
| Carpentering | 15 | 20,550 | 69 | ..... | 1 | 20,550 | 42,325 | 95,175 |
| Carriages and wagons (see also Wheelwrighting) | 5 | 277,000 | 193 | ..... | 20 | 86,355 | 150,639 | 351,800 |
| Clothing, men's | 12 | 30,500 | 58 | 1 | 1 | 28,250 | 45,000 | 93,500 |
| Cooperage | 39 | 23,200 | 139 | ..... | 2 | 32,725 | 60,460 | 128,975 |
| Drugs and chemicals | 8 | 33,000 | 29 | 2 | 2 | 12,690 | 18,700 | 49,500 |
| Flouring- and grist-mill products | 9 | 289,000 | 99 | ..... | ..... | 60,725 | 1,555,921 | 1,723,365 |
| Foundery and machine-shop products | 11 | 869,900 | 425 | ..... | 15 | 213,319 | 800,826 | 954,484 |
| Furniture | 7 | 199,300 | 197 | 10 | 12 | 87,750 | 59,500 | 194,700 |
| Lime | 5 | 51,500 | 93 | ..... | ..... | 35,505 | 70,832 | 140,675 |
| Liquors, malt | 7 | 406,650 | 88 | ..... | ..... | 39,970 | 171,871 | 306,980 |
| Looking-glass and picture frames | 3 | 4,300 | 5 | ..... | 1 | 1,470 | 5,500 | 11,000 |
| Lumber, planed | 4 | 62,000 | 126 | ..... | 4 | 99,000 | 60,000 | 187,000 |
| Marble and stone work | 4 | 9,700 | 61 | ..... | ..... | 16,000 | 24,200 | 42,200 |
| Painting and paperhanging | 8 | 5,950 | 49 | ..... | ..... | 14,040 | 11,690 | 31,584 |
| Photographing | 5 | 13,500 | 10 | 3 | ..... | 4,796 | 4,335 | 17,950 |
| Printing and publishing | 4 | 54,000 | 80 | 4 | 17 | 56,820 | 67,500 | 135,900 |
| Saddlery and harness | 12 | 49,650 | 63 | ..... | ..... | 24,211 | 53,776 | 95,300 |
| Slaughtering and meat-packing, not including retail butchering | 4 | 180,000 | 100 | ..... | 1 | 18,500 | 836,000 | 967,650 |
| Tinware, copperware, and sheet-iron ware | 16 | 32,750 | 42 | ..... | 4 | 15,674 | 36,550 | 78,300 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 4 | 740,250 | 161 | 75 | 178 | 151,075 | 822,335 | 1,176,070 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 25 | 34,625 | 85 | ..... | 10 | 31,839 | 38,602 | 102,200 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 9 | 9,600 | 26 | ..... | 1 | 10,250 | 10,100 | 26,550 |
| All other industries (a) | 37 | 414,300 | 301 | 31 | 36 | 145,763 | 397,074 | 737,464 |

a Embracing awnings and tents; bone-, ivory-, and lamp-black; bookbinding and blank-book making; brass castings; brooms and brushes; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; dyeing and cleaning; files; hairwork; hats and caps; lead, bar, pipe, sheet, and shot; lumber, sawed; mattresses and spring beds; mineral and soda waters; musical instruments, organs and materials; paper; saws; shirts; show-cases; soap and candles; steam fittings and heating apparatus; stencils and brands; stone- and earthen-ware; trunks and valises; vinegar; windmills; and wooden ware.

### CITY OF READING, PA.

[Statistics collected under the direction of JOHN B. SNYDER, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 330 | $7,498,256 | 5,413 | 724 | 558 | $2,240,290 | $8,396,910 | $13,251,095 |
| Agricultural implements | 3 | 2,450 | 7 | ..... | ..... | 1,992 | 2,100 | 5,500 |
| Baskets, rattan and willow ware | 3 | 400 | 6 | ..... | ..... | 1,100 | 1,750 | 4,450 |
| Blacksmithing | 8 | 7,450 | 21 | ..... | ..... | 6,800 | 6,165 | 20,184 |
| Boots and shoes, including custom work and repairing | 18 | 90,025 | 96 | 25 | 4 | 32,865 | 66,840 | 113,947 |
| Boxes, cigar | 3 | 10,750 | 8 | 8 | ..... | 5,100 | 25,450 | 44,800 |
| Boxes, fancy and paper | 4 | 3,800 | 6 | 10 | ..... | 3,160 | 4,750 | 10,800 |
| Bread and other bakery products | 28 | 41,300 | 73 | 1 | 13 | 25,725 | 71,950 | 139,480 |
| Brick and tile | 10 | 197,600 | 138 | ..... | 43 | 38,617 | 81,408 | 169,424 |
| Brooms and brushes | 9 | 8,128 | 23 | 1 | 5 | 7,375 | 16,600 | 38,900 |
| Carpentering | 14 | 77,850 | 106 | ..... | 2 | 34,187 | 66,442 | 131,954 |
| Carpets, rag | 7 | 4,300 | 34 | 3 | 3 | 10,470 | 12,100 | 31,543 |
| Carriages and wagons | 4 | 22,300 | 50 | ..... | 2 | 15,000 | 20,000 | 47,100 |
| Clothing, men's | 9 | 150,100 | 92 | 106 | ..... | 42,805 | 113,763 | 176,600 |
| Coffins, burial cases, and undertakers' goods | 4 | 17,900 | 9 | ..... | ..... | 3,650 | 9,050 | 19,300 |
| Confectionery | 8 | 20,100 | 16 | 8 | 3 | 7,600 | 28,400 | 49,600 |
| Foundery and machine-shop products | 16 | 608,265 | 758 | 1 | 28 | 284,372 | 519,619 | 967,200 |
| Furniture | 6 | 80,500 | 79 | ..... | ..... | 27,700 | 54,235 | 140,230 |
| Hardware | 4 | 422,363 | 520 | 12 | 78 | 182,562 | 188,241 | 579,789 |
| Iron and steel | 8 | 2,315,000 | 1,378 | ..... | 49 | 622,237 | 2,989,949 | 4,074,447 |
| Leather, curried | 5 | 42,867 | 27 | 1 | ..... | 10,743 | 109,095 | 135,825 |
| Leather, tanned | 5 | 95,233 | 47 | 3 | 2 | 18,082 | 152,224 | 184,205 |
| Liquors, malt | 6 | 576,000 | 79 | ..... | ..... | 43,280 | 214,041 | 389,200 |
| Marble and stone work | 5 | 79,500 | 31 | ..... | 1 | 11,750 | 44,400 | 84,600 |
| Painting and paperhanging | 11 | 22,100 | 64 | ..... | 1 | 17,075 | 22,665 | 50,284 |
| Photographing | 4 | 5,800 | 12 | 4 | ..... | 6,935 | 4,675 | 17,500 |
| Printing and publishing | 9 | 221,400 | 165 | 5 | 27 | 62,444 | 65,145 | 167,400 |
| Saddlery and harness | 8 | 15,000 | 20 | ..... | ..... | 6,970 | 12,100 | 25,250 |
| Shirts | 3 | 5,400 | 4 | 17 | ..... | 5,180 | 12,700 | 23,800 |
| Tinware, copperware, and sheet-iron ware | 18 | 67,725 | 54 | 1 | ..... | 20,930 | 34,590 | 64,695 |
| Tobacco, cigars and cigarettes | 29 | 76,000 | 63 | 111 | 15 | 33,200 | 74,378 | 154,316 |
| Wool hats | 9 | 511,000 | 386 | 174 | 63 | 205,314 | 693,996 | 1,142,334 |
| All other industries (a) | 52 | 1,639,650 | 1,032 | 233 | 219 | 444,980 | 2,678,089 | 4,046,438 |

a Embracing bags, paper; bookbinding and blank-book making; boot and shoe uppers; coffee and spices, roasted and ground; cooperage; coppersmithing; cordage and twine; cotton goods; dentistry, mechanical; engraving and die-sinking; fertilizers; files; flouring- and grist-mill products; furniture, chairs; hairwork; iron bolts, nuts, washers, and rivets; iron forgings; iron nails and spikes, cut and wrought; iron pipe, wrought; liquors, distilled; lock- and gun-smithing; looking-glass and picture frames; mantels, slate, marble, and marbleized; mineral and soda waters; mixed textiles; models and patterns; musical instruments, organs and materials; paints; paper; shoddy; soap and candles; spectacles and eyeglasses; stone- and earthen-ware; toys and games; umbrellas and canes; upholstering; watch and clock repairing; wood, turned and carved; and woolen goods.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF RICHMOND, VA.

[Statistics collected under the direction of JAMES A. CABELL, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 598 | $6,884,386 | 9,218 | 2,872 | 1,057 | $3,000,456 | $12,141,512 | $20,790,106 |
| Agricultural implements | 5 | 210,530 | 246 | ..... | 2 | 82,904 | 114,972 | 326,988 |
| Blacksmithing (see also Wheelwrighting) | 8 | 1,925 | 15 | ..... | ..... | 2,410 | 2,430 | 8,170 |
| Boots and shoes, including custom work and repairing | 78 | 30,900 | 224 | 13 | 3 | 38,046 | 104,060 | 208,681 |
| Boxes, cigar | 3 | 6,100 | 15 | 9 | 5 | 5,700 | 21,500 | 35,600 |
| Boxes, fancy and paper | 3 | 18,000 | 52 | 87 | 102 | 48,596 | 26,210 | 107,410 |
| Boxes, wooden, packing | 8 | 97,600 | 121 | ..... | 12 | 51,671 | 114,482 | 206,011 |
| Bread and other bakery products | 20 | 59,000 | 74 | 14 | 1 | 30,311 | 148,540 | 232,060 |
| Brick and tile | 4 | 21,500 | 64 | ..... | 19 | 17,900 | 9,125 | 36,460 |
| Carpentering | 34 | 41,000 | 158 | ..... | 2 | 58,055 | 136,410 | 272,000 |
| Carriages and wagons (see also Wheelwrighting) | 9 | 63,000 | 101 | ..... | 2 | 31,750 | 56,900 | 140,000 |
| Clothing, men's | 24 | 155,367 | 163 | 405 | 2 | 80,308 | 169,511 | 359,022 |
| Coffee and spices, roasted and ground | 5 | 46,000 | 36 | 1 | 1 | 13,000 | 143,000 | 241,000 |
| Confectionery | 13 | 69,700 | 68 | 7 | 6 | 23,687 | 98,624 | 151,450 |
| Cooperage | 15 | 33,700 | 238 | ..... | 9 | 36,765 | 89,722 | 155,282 |
| Drugs and chemicals (see also Patent medicines and compounds) | 7 | 142,500 | 247 | ..... | 3 | 39,200 | 160,250 | 247,790 |
| Dyeing and cleaning | 5 | 5,150 | 12 | 7 | 1 | 4,800 | 10,400 | 23,600 |
| Fertilizers | 5 | 298,000 | 172 | 3 | ..... | 28,960 | 326,450 | 476,066 |
| Flouring- and grist-mill products | 5 | 1,226,500 | 191 | ..... | ..... | 79,565 | 2,147,762 | 2,443,432 |
| Foundery and machine-shop products | 13 | 523,500 | 1,044 | ..... | 61 | 287,993 | 541,898 | 1,056,351 |
| Furniture | 20 | 108,650 | 124 | 10 | 13 | 55,605 | 96,570 | 232,010 |
| Hairwork | 4 | 7,500 | 5 | 36 | ..... | 8,200 | 16,900 | 33,000 |
| Iron and steel | 3 | 702,000 | 1,004 | ..... | 50 | 336,311 | 1,173,801 | 1,973,916 |
| Lock- and gun-smithing | 4 | 4,400 | 11 | ..... | ..... | 4,200 | 5,650 | 16,700 |
| Looking-glass and picture frames | 7 | 8,950 | 28 | ..... | 9 | 10,400 | 21,850 | 50,500 |
| Marble and stone work | 7 | 20,400 | 56 | ..... | ..... | 24,200 | 28,600 | 71,100 |
| Oil, lubricating | 3 | 12,000 | 7 | ..... | 1 | 990 | 11,300 | 20,500 |
| Painting and paperhanging | 9 | 14,200 | 36 | ..... | ..... | 12,250 | 19,500 | 47,650 |
| Patent medicines and compounds (see also Drugs and chemicals) | 8 | 37,000 | 32 | 1 | ..... | 10,150 | 25,900 | 52,900 |
| Photographing | 9 | 21,000 | 36 | 1 | 2 | 17,444 | 9,900 | 49,900 |
| Plumbing and gasfitting | 5 | 22,000 | 28 | ..... | 7 | 15,230 | 40,500 | 79,500 |
| Printing and publishing | 17 | 177,300 | 241 | 4 | 24 | 131,495 | 112,834 | 328,325 |
| Saddlery and harness | 12 | 38,160 | 74 | ..... | 9 | 37,644 | 71,020 | 141,400 |
| Sash, doors, and blinds | 6 | 73,500 | 100 | ..... | ..... | 39,092 | 201,513 | 311,184 |
| Shipbuilding | 4 | 3,500 | 23 | ..... | ..... | 9,300 | 8,900 | 23,500 |
| Soap and candles | 3 | 26,000 | 17 | 1 | ..... | 7,100 | 19,400 | 38,000 |
| Tinware, copperware, and sheet-iron ware | 26 | 88,050 | 143 | ..... | 3 | 55,800 | 135,700 | 265,500 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 39 | 1,333,100 | 2,838 | 1,704 | 1,179 | 895,657 | 3,109,076 | 6,580,984 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 26 | 140,430 | 261 | 19 | 78 | 76,770 | 152,980 | 343,702 |
| Tobacco stemming | 27 | 435,184 | 369 | 470 | 202 | 81,215 | 767,973 | 1,074,005 |
| Watch and clock repairing | 10 | 15,700 | 16 | ..... | 3 | 10,361 | 7,030 | 28,300 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 24 | 27,450 | 77 | ..... | 1 | 17,976 | 25,210 | 60,000 |
| All other industries (*a*) | 55 | 509,000 | 456 | 80 | 145 | 187,385 | 1,657,159 | 2,257,023 |

*a* Embracing bagging, flax, hemp, and jute; bags, other than paper; bags, paper; baskets, rattan and willow ware; bookbinding and blank-book making; boot and shoe uppers; brass castings; brooms and brushes; coppersmithing; engraving, wood; food preparations; furs, dressed; grease and tallow; instruments, professional and scientific; iron bolts, nuts, washers, and rivets; iron forgings; iron work, architectural and ornamental; kindling wood; leather, tanned; liquors, vinous; lithographing; lumber, planed; mineral and soda waters; musical instruments, organs and materials; masonry, brick and tile; nets and seines; paints; paper; pumps; regalia and society banners and emblems; saws; slaughtering and meat-packing; stencils and brands; stone- and earthen-ware; trunks and valises; type founding; umbrellas and canes; upholstering; and wirework.

### CITY OF ROCHESTER, N. Y.

[Statistics collected under the direction of JAMES S. GRAHAM, Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 735 | $13,161,870 | 9,292 | 4,052 | 1,263 | $5,217,713 | $16,446,815 | $26,478,266 |
| Agricultural implements | 3 | 23,000 | 26 | ..... | ..... | 13,744 | 13,372 | 49,055 |
| Baking and yeast powders | 3 | 30,500 | 6 | ..... | 4 | 3,034 | 128,550 | 153,000 |
| Baskets, rattan and willow ware | 3 | 250 | 1 | ..... | ..... | 300 | 1,050 | 2,475 |
| Blacksmithing (see also Wheelwrighting) | 32 | 20,350 | 48 | ..... | ..... | 22,853 | 23,509 | 78,476 |
| Boots and shoes, including custom work and repairing | 51 | 1,180,940 | 1,341 | 879 | 152 | 849,941 | 2,235,634 | 3,636,985 |
| Boxes, cigar | 3 | 14,600 | 21 | 3 | 3 | 7,170 | 16,800 | 28,000 |
| Boxes, fancy and paper | 3 | 12,000 | 15 | 34 | 24 | 13,495 | 32,700 | 53,043 |
| Brass castings | 3 | 12,800 | 5 | ..... | ..... | 2,634 | 9,000 | 17,000 |
| Bread and other bakery products | 38 | 136,300 | 88 | 9 | 4 | 38,399 | 210,841 | 331,583 |
| Brick and tile | 4 | 306,000 | 213 | ..... | 15 | 61,207 | 37,825 | 172,000 |
| Brooms and brushes | 3 | 1,450 | 7 | ..... | 2 | 2,800 | 12,575 | 17,000 |
| Carpentering | 61 | 194,075 | 597 | 1 | 5 | 254,691 | 620,354 | 1,099,000 |
| Carriages and wagons (see also Wheelwrighting) | 9 | 564,000 | 401 | 3 | 12 | 159,427 | 232,370 | 461,069 |
| Clothing, men's | 16 | 1,976,200 | 598 | 1,885 | 255 | 795,900 | 3,037,000 | 4,342,000 |
| Clothing, women's | 4 | 74,000 | 7 | 218 | 2 | 66,080 | 173,000 | 293,000 |
| Coffee and spices, roasted and ground | 3 | 19,000 | 14 | 1 | 1 | 5,072 | 87,000 | 119,000 |
| Confectionery | 10 | 29,850 | 25 | 8 | 3 | 11,831 | 27,050 | 60,410 |
| Cooperage | 21 | 70,850 | 134 | ..... | ..... | 44,922 | 92,340 | 171,170 |
| Cutlery and edge tools (see also Hardware) | 9 | 208,800 | 164 | ..... | 7 | 53,105 | 110,485 | 200,700 |
| Dentistry, mechanical | 4 | 5,500 | 2 | ..... | ..... | 1,000 | 3,500 | 10,200 |
| Engraving, wood | 4 | 3,500 | 8 | ..... | ..... | 3,835 | 1,150 | 11,100 |
| Files | 3 | 45,300 | 43 | ..... | 2 | 20,300 | 20,100 | 65,250 |
| Flouring- and grist-mill products | 16 | 568,500 | 118 | ..... | ..... | 69,350 | 2,330,700 | 2,556,815 |
| Foundery and machine-shop products (see also Steam fittings and heating apparatus). | 32 | 988,500 | 764 | ..... | 73 | 378,826 | 606,635 | 1,282,120 |
| Furniture (see also Upholstering) | 13 | 219,000 | 498 | 5 | 83 | 220,470 | 269,650 | 647,960 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF ROCHESTER, N. Y.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Furniture, chairs | 3 | $200,000 | 285 | 10 | 31 | $94,375 | $110,000 | $265,000 |
| Hardware (see also Cutlery and edge tools) | 3 | 43,500 | 36 | | | 12,300 | 28,700 | 52,000 |
| Hats and caps, not including wool hats | 4 | 5,000 | 7 | 2 | 1 | 3,700 | 7,000 | 14,300 |
| Lasts | 3 | 12,000 | 17 | | | 9,700 | 6,900 | 25,000 |
| Leather, tanned | 4 | 116,000 | 72 | | 1 | 28,139 | 188,829 | 265,677 |
| Liquors, malt | 13 | 1,083,071 | 348 | | 1 | 156,313 | 790,508 | 1,411,392 |
| Lock- and gun-smithing | 3 | 2,900 | 2 | | | 564 | 3,368 | 7,200 |
| Looking-glass and picture frames | 7 | 78,500 | 124 | 6 | 29 | 59,704 | 94,300 | 207,000 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 4 | 35,000 | 26 | | | 11,090 | 5,550 | 24,622 |
| Lumber, sawed | 4 | 220,000 | 77 | | 10 | 27,500 | 100,500 | 164,000 |
| Marble and stone work | 9 | 264,300 | 235 | | 1 | 91,452 | 90,308 | 247,323 |
| Masonry, brick and stone | 12 | 12,050 | 89 | | | 27,700 | 54,100 | 104,930 |
| Mineral and soda waters | 3 | 24,000 | 17 | | 1 | 6,100 | 24,900 | 45,000 |
| Models and patterns | 3 | 1,900 | 5 | | | 3,345 | 820 | 6,725 |
| Painting and paperhanging | 31 | 18,575 | 84 | | 3 | 37,147 | 35,371 | 99,311 |
| Patent medicines and compounds | 4 | 351,300 | 103 | 9 | 15 | 70,000 | 407,600 | 597,800 |
| Perfumery and cosmetics | 3 | 79,000 | 22 | 54 | 1 | 23,747 | 80,000 | 155,000 |
| Photographing | 15 | 52,600 | 33 | 17 | 7 | 26,452 | 23,790 | 79,900 |
| Plumbing and gasfitting | 12 | 36,600 | 63 | | 2 | 26,890 | 58,750 | 120,200 |
| Printing and publishing | 13 | 474,838 | 344 | 41 | 93 | 236,180 | 307,825 | 660,888 |
| Saddlery and harness | 17 | 74,460 | 108 | 3 | | 45,732 | 85,100 | 167,400 |
| Safes, doors, and vaults, fire-proof | 3 | 202,400 | 88 | | 5 | 41,300 | 110,800 | 204,000 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 9 | 60,700 | 69 | | 5 | 27,972 | 50,750 | 114,900 |
| Shipbuilding | 4 | 105,000 | 88 | | | 35,668 | 85,000 | 147,100 |
| Shirts | 5 | 17,500 | 4 | 30 | 1 | 9,106 | 11,350 | 28,300 |
| Soap and candles | 6 | 55,000 | 14 | | 6 | 6,560 | 82,188 | 103,527 |
| Steam fittings and heating apparatus (see also Foundery and machine-shop products). | 3 | 76,500 | 37 | | | 17,010 | 81,700 | 136,500 |
| Stone- and earthen-ware | 3 | 14,500 | 14 | | 1 | 6,900 | 4,000 | 15,500 |
| Tinware, copperware, and sheet-iron ware | 27 | 212,200 | 180 | 71 | 14 | 89,134 | 165,770 | 328,800 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 4 | 541,000 | 207 | 248 | 110 | 155,600 | 963,478 | 1,200,747 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 29 | 41,975 | 66 | 2 | 11 | 30,484 | 60,943 | 136,723 |
| Upholstering (see also Furniture) | 6 | 13,000 | 25 | | | 11,281 | 37,300 | 73,070 |
| Watch and clock repairing | 4 | 4,500 | 3 | | 1 | 1,475 | 1,700 | 6,800 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 12 | 4,900 | 11 | | | 3,350 | 4,375 | 13,600 |
| Whips | 3 | 110,500 | 40 | 45 | 10 | 35,103 | 72,632 | 163,983 |
| Wirework | 3 | 12,000 | 11 | | 2 | 6,528 | 15,300 | 28,930 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 11 | 103,200 | 129 | 20 | 22 | 69,851 | 92,330 | 245,309 |
| All other industries (*a*) | 82 | 1,687,136 | 1,056 | 448 | 232 | 562,355 | 1,769,781 | 2,954,729 |

*a* Embracing artificial limbs; awnings and tents; bags, paper; belting and hose, leather; blacking; bluing; bookbinding and blank-book making; boot and shoe cut stock; boot and shoe findings; boot and shoe uppers; boxes, wooden, packing; bridges; carpets, rag; carriages and sleds, children's; coffins, burial cases, and undertakers' goods; coppersmithing; cordage and twine; corsets; cotton goods; dentists' materials; drain and sewer pipe; explosives and fireworks; fancy articles; fruits and vegetables, canned and preserved; glass; gloves and mittens; hairwork; hand-stamps; hosiery and knit goods; ink; instruments, professional and scientific; iron forgings; iron railing, wrought; iron work, architectural and ornamental; ivory and bone work; jewelry; lamps and reflectors; liquors, vinous; lithographing; malt; mattresses and spring beds; millinery and lace goods; mixed textiles; musical instruments, pianos and materials; needles and pins; oil, lubricating; paper; pickles, preserves, and sauces; pumps; roofing and roofing materials; saws; scales and balances; show-cases; silk and silk goods; silverware; spectacles and eyeglasses; sporting goods; stencils and brands; stereotyping and electrotyping; tools; trunks and valises; and vinegar.

### CITY OF SACRAMENTO, CAL.

[Statistics collected under the direction of JAMES R. HARDENBERG, Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 100 | $1,072,400 | 868 | 10 | 46 | $547,692 | $2,011,889 | $4,093,934 |
| Agricultural implements | 3 | 14,000 | 6 | | | 3,840 | 18,050 | 31,125 |
| Blacksmithing (see also Wheelwrighting) | 8 | 23,600 | 27 | 1 | 2 | 19,990 | 14,700 | 43,300 |
| Boots and shoes, including custom work and repairing | 12 | 7,000 | 16 | | | 12,860 | 14,531 | 36,041 |
| Bread and other bakery products | 9 | 50,400 | 28 | | 2 | 19,881 | 81,241 | 127,338 |
| Carriages and wagons (see also Wheelwrighting) | 4 | 69,000 | 42 | | | 24,477 | 26,600 | 74,445 |
| Coffee and spices, roasted and ground | 5 | 17,650 | 7 | | | 3,300 | 32,300 | 43,660 |
| Confectionery | 5 | 34,050 | 16 | | | 15,028 | 65,315 | 112,200 |
| Cooperage | 3 | 35,000 | 25 | | 15 | 16,000 | 25,000 | 59,500 |
| Foundery and machine-shop products | 5 | 120,000 | 65 | | 4 | 41,600 | 50,600 | 114,700 |
| Furniture (see also Upholstering) | 7 | 76,000 | 83 | | 4 | 40,441 | 97,000 | 158,600 |
| Liquors, malt | 6 | 105,000 | 51 | | | 23,975 | 92,310 | 165,600 |
| Lock- and gun-smithing | 3 | 3,200 | 5 | | 1 | 3,400 | 1,900 | 8,500 |
| Marble and stone work | 9 | 45,700 | 38 | | | 27,368 | 27,900 | 77,700 |
| Plumbing and gasfitting | 5 | 8,200 | 17 | | 1 | 12,350 | 21,580 | 39,850 |
| Saddlery and harness | 11 | 50,200 | 57 | | | 37,144 | 78,725 | 138,324 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 65,000 | 19 | | | 8,800 | 120,550 | 138,500 |
| Tinware, copperware, and sheet-iron ware | 7 | 12,100 | 19 | | 2 | 17,300 | 21,500 | 52,400 |
| Tobacco, cigars and cigarettes | 8 | 14,600 | 25 | | 2 | 9,232 | 68,680 | 102,100 |
| Upholstering (see also Furniture) | 3 | 9,600 | 9 | | | 6,480 | 9,400 | 20,750 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 4 | 4,500 | 11 | | | 9,588 | 3,600 | 18,500 |
| All other industries (*a*) | 40 | 907,600 | 302 | 9 | 13 | 194,698 | 2,040,407 | 2,527,801 |

*a* Embracing awnings and tents; baskets, rattan and willow ware; boxes, wooden, packing; brass castings; brick and tile; brooms and brushes; carpentering; carriage and wagon materials; clothing, men's; coffins, burial cases, and undertakers' goods; electrical apparatus and supplies; flavoring extracts; flouring- and grist-mill products; gloves and mittens; glue; grease and tallow; leather, dressed skins; leather, tanned; liquors, distilled; lumber, planed; malt; mineral and soda waters; patent medicines and compounds; pickles, preserves, and sauces; printing and publishing; roofing and roofing materials; sash, doors, and blinds; shirts; soap and candles; stone- and earthen-ware; umbrellas and canes; watch and clock repairing; wood, turned and carved; and woolen goods.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF SAINT JOSEPH, MO.

[Statistics collected under the direction of WILLIS M. SHERWOOD, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 238 | $1,423,650 | 2,040 | 94 | 124 | $896,762 | $3,210,080 | $5,143,585 |
| Blacksmithing | 19 | 18,650 | 29 | | 2 | 14,145 | 18,710 | 51,000 |
| Boots and shoes, including custom work and repairing | 15 | 55,100 | 65 | 10 | | 40,686 | 88,030 | 156,400 |
| Brick and tile | 10 | 31,860 | 208 | | 57 | 71,235 | 41,050 | 146,055 |
| Carpentering | 30 | 31,450 | 316 | | | 141,856 | 229,264 | 453,050 |
| Carriages and wagons | 9 | 22,800 | 52 | | 3 | 26,716 | 25,500 | 67,850 |
| Clothing, men's | 14 | 17,350 | 39 | 14 | | 19,350 | 46,000 | 88,150 |
| Cooperage | 8 | 12,150 | 49 | | 4 | 20,312 | 28,300 | 57,200 |
| Drugs and chemicals | 3 | 22,850 | 9 | 5 | 2 | 5,190 | 11,625 | 46,500 |
| Flouring- and grist-mill products | 4 | 108,000 | 38 | | | 14,400 | 292,924 | 338,056 |
| Furniture | 4 | 75,350 | 106 | | 3 | 49,300 | 23,100 | 96,750 |
| Liquors, malt | 5 | 200,000 | 44 | | | 21,492 | 92,582 | 105,325 |
| Lock- and gun-smithing | 3 | 4,400 | 4 | | | 2,180 | 4,200 | 9,200 |
| Marble and stone work | 4 | 63,000 | 77 | | 1 | 35,600 | 35,500 | 87,500 |
| Masonry, brick and stone | 5 | 10,750 | 71 | | | 32,390 | 44,200 | 93,500 |
| Painting and paperhanging | 14 | 10,150 | 51 | | | 18,887 | 20,750 | 55,900 |
| Photographing | 5 | 4,700 | 7 | 2 | | 4,408 | 6,550 | 21,000 |
| Printing and publishing | 8 | 129,500 | 112 | | 11 | 85,040 | 69,708 | 194,250 |
| Saddlery and harness | 8 | 81,400 | 84 | | 5 | 52,096 | 164,485 | 275,800 |
| Slaughtering and meat-packing, not including retail butchering | 5 | 134,500 | 190 | | 14 | 37,290 | 1,224,208 | 1,430,843 |
| Tinware, copperware, and sheet-iron ware | 10 | 37,700 | 63 | | | 30,925 | 83,200 | 130,700 |
| Tobacco, cigars and cigarettes | 12 | 20,050 | 53 | 5 | 5 | 27,397 | 60,291 | 118,340 |
| All other industries (a) | 43 | 326,040 | 373 | 58 | 17 | 146,367 | 599,903 | 1,041,316 |

a Embracing baking and yeast powders; bluing; bookbinding and blank-book making; boxes, wooden, packing; bread and other bakery products; bridges; brooms and brushes; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; confectionery; coppersmithing; electroplating; foundery and machine-shop products; fruits and vegetables, canned and preserved; grease and tallow; hosiery and knit goods; looking-glass and picture frames; lumber, planed; mattresses and spring beds; mineral and soda waters; patent medicines and compounds; plumbing and gasfitting; pumps; roofing and roofing materials; shirts; show-cases; stone- and earthen-ware; trunks and valises; upholstering; vinegar; wheelwrighting; whips; and woolen goods.

### CITY OF SAINT LOUIS, MO.

[Statistics collected under the direction of DAVID B. GOULD, Chief Special Agent. See Note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 2,924 | $50,832,885 | 33,980 | 4,761 | 3,084 | $17,743,532 | $75,379,867 | $114,333,375 |
| Agricultural implements | 7 | 434,000 | 443 | | 5 | 190,179 | 478,140 | 850,430 |
| Artificial feathers and flowers | 3 | 36,000 | 9 | 50 | 15 | 25,450 | 66,000 | 147,250 |
| Awnings and tents | 9 | 127,200 | 47 | 165 | 5 | 54,850 | 240,185 | 388,940 |
| Bagging, flax, hemp, and jute | 3 | 370,000 | 149 | 161 | 76 | 150,216 | 545,900 | 867,395 |
| Bags, paper | 4 | 88,250 | 12 | 30 | 42 | 29,700 | 174,800 | 231,500 |
| Baking and yeast powders (see also Drugs and chemicals) | 8 | 111,700 | 48 | 26 | 10 | 39,714 | 182,900 | 323,500 |
| Baskets, rattan and willow ware | 7 | 9,015 | 13 | | | 6,140 | 3,960 | 18,020 |
| Blacksmithing (see also Wheelwrighting) | 163 | 224,745 | 343 | | 6 | 188,954 | 201,598 | 616,900 |
| Bookbinding and blank-book making | 10 | 132,500 | 148 | 56 | 7 | 80,700 | 105,600 | 257,087 |
| Boot and shoe uppers | 3 | 12,000 | 13 | | | 7,052 | 17,400 | 20,200 |
| Boots and shoes, including custom work and repairing | 184 | 679,630 | 658 | 217 | 197 | 425,664 | 874,812 | 1,634,594 |
| Boxes, cigar | 6 | 57,550 | 51 | 22 | 11 | 34,100 | 47,700 | 105,600 |
| Boxes, fancy and paper | 6 | 21,500 | 27 | 44 | 19 | 23,300 | 45,800 | 91,200 |
| Boxes, wooden, packing | 11 | 40,600 | 80 | | 2 | 33,601 | 75,430 | 140,400 |
| Brass castings | 14 | 186,100 | 140 | | 8 | 70,087 | 395,275 | 570,450 |
| Bread and other bakery products | 195 | 719,070 | 614 | 57 | 68 | 312,913 | 1,672,843 | 2,575,350 |
| Brick and tile | 45 | 727,250 | 787 | | 153 | 307,581 | 197,588 | 701,632 |
| Brooms and brushes | 25 | 95,175 | 117 | 2 | 110 | 83,349 | 149,770 | 281,280 |
| Carpentering | 185 | 361,840 | 1,108 | | 9 | 667,900 | 1,585,094 | 3,005,411 |
| Carpets, rag | 3 | 350 | 2 | | | 450 | 900 | 5,100 |
| Carriage and wagon materials | 3 | 126,000 | 189 | | 3 | 91,638 | 134,440 | 264,600 |
| Carriages and wagons (see also Wheelwrighting) | 39 | 740,050 | 1,012 | 8 | 51 | 447,831 | 811,805 | 1,614,236 |
| Cars, railroad, street, and repairs | 7 | 314,200 | 601 | | | 293,384 | 732,460 | 1,100,800 |
| Clothing, men's | 100 | 1,351,335 | 1,191 | 1,652 | 12 | 779,908 | 1,895,342 | 3,425,167 |
| Clothing, women's | 13 | 140,800 | 75 | 451 | 30 | 119,775 | 238,700 | 483,000 |
| Coffee and spices, roasted and ground | 6 | 230,000 | 90 | 2 | 4 | 41,840 | 391,500 | 568,000 |
| Coffins, burial cases, and undertakers' goods | 5 | 30,500 | 23 | 4 | | 12,530 | 109,200 | 157,306 |
| Confectionery | 31 | 307,560 | 207 | 185 | 21 | 159,649 | 774,790 | 1,158,185 |
| Cooperage | 78 | 493,205 | 860 | | 83 | 377,056 | 798,262 | 1,431,405 |
| Coppersmithing (see also Tinware, copperware, and sheet-iron ware) | 3 | 3,500 | 9 | | 1 | 6,200 | 12,000 | 24,000 |
| Cordage and twine | 14 | 12,875 | 37 | | 40 | 16,423 | 33,250 | 67,664 |
| Corsets | 3 | 720 | 2 | 3 | | 1,450 | 2,410 | 6,460 |
| Cotton goods | 3 | 825,500 | 106 | 171 | 163 | 86,325 | 335,381 | 459,295 |
| Cutlery and edge tools (see also Hardware) | 4 | 4,000 | 20 | | | 9,596 | 8,450 | 24,400 |
| Dentistry, mechanical | 8 | 6,700 | 5 | 3 | 1 | 4,184 | 6,400 | 32,400 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 15 | 696,000 | 216 | 57 | 28 | 123,940 | 665,365 | 1,166,743 |
| Dyeing and cleaning | 5 | 16,450 | 17 | 6 | 1 | 6,950 | 2,650 | 23,900 |
| Dyeing and finishing textiles | 3 | 16,000 | 14 | 5 | 4 | 7,500 | 5,500 | 22,200 |
| Electroplating | 8 | 17,600 | 20 | 1 | 2 | 12,725 | 9,420 | 43,200 |
| Engraving and die-sinking | 7 | 9,675 | 14 | | 1 | 7,165 | 10,750 | 30,000 |
| Engraving, steel | 10 | 72,100 | 47 | 2 | 3 | 25,050 | 62,500 | 120,900 |
| Engraving, wood | 3 | 12,200 | 22 | | 2 | 11,350 | 1,370 | 21,070 |
| Files | 6 | 38,900 | 35 | | | 17,142 | 7,870 | 34,300 |
| Flouring- and grist-mill products | 24 | 2,067,500 | 668 | | | 488,879 | 12,031,334 | 13,783,178 |
| Food preparations (see page 39) | 4 | 17,100 | 13 | | | 4,800 | 11,375 | 30,840 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

CITY OF SAINT LOUIS, MO.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Foundery and machine-shop products (see also Iron work, architectural and ornamental). | 62 | $3, 605, 713 | 3, 433 | ..... | 33 | $1, 854, 046 | $2, 700, 844 | $5, 952, 770 |
| Fruits and vegetables, canned and preserved | 3 | 31, 500 | 38 | 8 | 1 | 11, 614 | 54, 902 | 123, 250 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 54 | 920, 702 | 1, 044 | 11 | 68 | 511, 915 | 1, 082, 825 | 1, 979, 683 |
| Glass | 5 | 280, 000 | 395 | ..... | 220 | 261, 098 | 238, 946 | 597, 277 |
| Glass, cut, stained, and ornamented | 3 | 11, 000 | 16 | ..... | ..... | 9, 450 | 7, 100 | 27, 600 |
| Gloves and mittens | 3 | 13, 000 | 29 | 35 | 4 | 18, 000 | 19, 000 | 46, 000 |
| Glue | 5 | 34, 350 | 24 | ..... | 4 | 13, 220 | 41, 575 | 73, 800 |
| Grease and tallow | 6 | 42, 250 | 20 | ..... | ..... | 9, 150 | 66, 220 | 107, 300 |
| Hairwork | 8 | 17, 600 | 6 | 23 | ..... | 7, 375 | 19, 350 | 40, 700 |
| Hardware (see also Cutlery and edge tools) | 10 | 210, 150 | 111 | ..... | 1 | 51, 321 | 102, 256 | 188, 802 |
| Hats and caps, not including wool hats | 9 | 60, 400 | 49 | 82 | 4 | 42, 865 | 77, 740 | 177, 531 |
| Ink | 3 | 9, 600 | 8 | ..... | ..... | 3, 568 | 7, 200 | 16, 234 |
| Instruments, professional and scientific | 4 | 54, 660 | 22 | ..... | ..... | 12, 700 | 35, 725 | 81, 450 |
| Iron and steel | 10 | 5, 960, 600 | 2, 158 | ..... | 110 | 616, 575 | 2, 823, 058 | 3, 950, 530 |
| Iron bolts, nuts, washers, and rivets | 4 | 235, 000 | 123 | ..... | 14 | 60, 498 | 301, 957 | 493, 560 |
| Iron railing, wrought | 6 | 23, 400 | 34 | ..... | 5 | 20, 760 | 25, 360 | 63, 400 |
| Iron work, architectural and ornamental (see also Foundery and machine-shop products). | 4 | 34, 000 | 44 | ..... | ..... | 17, 850 | 31, 860 | 67, 610 |
| Jewelry | 8 | 52, 000 | 55 | ..... | 7 | 37, 600 | 98, 000 | 189, 500 |
| Labels and tags | 3 | 10, 300 | 12 | ..... | ..... | 7, 868 | 10, 910 | 25, 500 |
| Lamps and reflectors | 7 | 201, 600 | 139 | ..... | 20 | 74, 139 | 376, 540 | 519, 300 |
| Leather, curried | 7 | 59, 250 | 40 | ..... | ..... | 16, 595 | 240, 797 | 282, 417 |
| Leather, tanned | 17 | 123, 450 | 82 | 3 | 7 | 39, 191 | 299, 926 | 399, 963 |
| Lightning rods | 3 | 54, 000 | 16 | ..... | ..... | 7, 250 | 14, 491 | 39, 292 |
| Lime | 4 | 64, 500 | 33 | ..... | ..... | 13, 800 | 32, 925 | 63, 200 |
| Liquors, malt | 23 | 4, 184, 600 | 1, 230 | ..... | 105 | 634, 988 | 2, 565, 074 | 4, 535, 630 |
| Liquors, vinous | 3 | 380, 000 | 30 | ..... | ..... | 18, 830 | 52, 000 | 131, 000 |
| Lithographing (see also Printing and publishing) | 5 | 71, 500 | 94 | 6 | 17 | 51, 265 | 83, 344 | 214, 989 |
| Lock- and gun-smithing | 17 | 5, 325 | 18 | ..... | ..... | 8, 514 | 4, 970 | 24, 714 |
| Looking-glass and picture frames | 19 | 323, 900 | 129 | 1 | 22 | 80, 251 | 102, 825 | 268, 682 |
| Lumber, planed (see also Sash, doors, and blinds; Wood, turned and carved). | 9 | 272, 350 | 335 | 2 | 22 | 152, 669 | 502, 742 | 756, 936 |
| Lumber, sawed | 3 | 620, 000 | 119 | ..... | ..... | 72, 086 | 251, 600 | 412, 000 |
| Marble and stone work | 56 | 237, 825 | 473 | ..... | 18 | 237, 207 | 245, 707 | 707, 721 |
| Mattresses and spring beds (see also Furniture) | 8 | 21, 750 | 50 | 10 | 10 | 24, 934 | 75, 436 | 135, 360 |
| Masonry, brick and stone | 68 | 82, 375 | 386 | ..... | ..... | 206, 389 | 216, 321 | 575, 700 |
| Mineral and soda waters | 11 | 112, 100 | 97 | 5 | 27 | 45, 846 | 58, 090 | 193, 000 |
| Models and patterns | 3 | 11, 700 | 10 | ..... | ..... | 6, 400 | 1, 420 | 16, 400 |
| Musical instruments and materials (not specified) | 8 | 60, 000 | 10 | 1 | 1 | 5, 350 | 8, 775 | 28, 250 |
| Musical instruments, organs and materials | 3 | 10, 600 | 9 | ..... | ..... | 6, 000 | 5, 200 | 16, 600 |
| Musical instruments, pianos and materials | 7 | 21, 350 | 19 | ..... | ..... | 10, 398 | 8, 000 | 27, 200 |
| Oil, lard | 3 | 96, 000 | 25 | ..... | ..... | 13, 050 | 505, 750 | 539, 000 |
| Paints (see also Varnish) | 13 | 1, 088, 350 | 522 | 10 | 4 | 250, 532 | 2, 006, 480 | 2, 570, 860 |
| Painting and paperhanging | 119 | 369, 945 | 863 | 15 | 18 | 393, 032 | 540, 654 | 1, 255, 552 |
| Patent medicines and compounds (see also Drugs and chemicals) | 24 | 1, 383, 200 | 196 | 87 | 13 | 134, 696 | 482, 235 | 1, 145, 090 |
| Photographing | 25 | 86, 050 | 59 | 18 | 6 | 43, 130 | 48, 950 | 170, 094 |
| Pickles, preserves, and sauces | 8 | 48, 200 | 58 | 25 | 25 | 41, 999 | 134, 200 | 211, 200 |
| Plumbing and gasfitting | 61 | 115, 775 | 239 | ..... | 7 | 126, 099 | 214, 958 | 404, 683 |
| Printing and publishing (see also Lithographing) | 101 | 2, 480, 060 | 1, 978 | 175 | 117 | 1, 239, 209 | 1, 249, 094 | 3, 008, 287 |
| Pumps, not including steam pumps | 9 | 529, 850 | 100 | ..... | 2 | 65, 900 | 701, 570 | 926, 750 |
| Refrigerators | 3 | 28, 700 | 86 | ..... | 15 | 42, 950 | 183, 300 | 309, 500 |
| Roofing and roofing materials | 5 | 58, 700 | 75 | ..... | ..... | 48, 000 | 81, 900 | 177, 800 |
| Saddlery and harness | 92 | 1, 370, 350 | 1, 143 | 4 | 72 | 533, 442 | 1, 382, 074 | 2, 304, 858 |
| Sash, doors, and blinds (see also Lumber, planed; Wood, turned and carved). | 12 | 586, 195 | 661 | ..... | 43 | 275, 321 | 669, 871 | 1, 191, 670 |
| Shipbuilding | 7 | 243, 000 | 279 | ..... | ..... | 187, 380 | 265, 592 | 500, 712 |
| Shirts | 17 | 122, 100 | 52 | 274 | ..... | 84, 416 | 127, 100 | 278, 700 |
| Show-cases | 4 | 23, 000 | 74 | 4 | 1 | 28, 499 | 11, 750 | 89, 100 |
| Slaughtering and meat-packing, not including retail butchering | 32 | 1, 243, 000 | 564 | ..... | 20 | 269, 763 | 7, 085, 909 | 8, 424, 064 |
| Soap and candles | 15 | 718, 927 | 253 | 2 | 2 | 95, 564 | 1, 262, 701 | 1, 607, 541 |
| Stencils and brands | 6 | 4, 750 | 11 | ..... | 2 | 5, 925 | 5, 505 | 21, 425 |
| Stone- and earthen-ware | 5 | 34, 500 | 31 | ..... | 10 | 16, 090 | 19, 985 | 46, 430 |
| Tinware, copperware, and sheet-iron ware (see also Coppersmithing) | 120 | 418, 325 | 508 | 18 | 62 | 227, 546 | 553, 208 | 1, 095, 955 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 21 | 1, 146, 200 | 763 | 146 | 325 | 402, 959 | 3, 950, 956 | 4, 813, 769 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 201 | 272, 925 | 576 | 6 | 72 | 265, 967 | 312, 725 | 888, 993 |
| Trunks and valises | 14 | 105, 500 | 156 | ..... | 8 | 73, 125 | 205, 775 | 340, 560 |
| Umbrellas and canes | 4 | 1, 400 | 3 | ..... | ..... | 1, 020 | 1, 150 | 4, 370 |
| Upholstering (see also Furniture) | 18 | 209, 025 | 48 | 4 | 6 | 20, 850 | 62, 100 | 148, 727 |
| Varnish (see also Paints) | 3 | 26, 500 | 10 | ..... | ..... | 8, 962 | 35, 000 | 54, 600 |
| Vinegar | 14 | 249, 650 | 115 | 12 | 4 | 69, 520 | 290, 000 | 572, 400 |
| Watch and clock repairing | 17 | 36, 250 | 19 | ..... | 1 | 9, 367 | 13, 175 | 39, 740 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 52 | 51, 950 | 110 | ..... | 3 | 47, 598 | 42, 632 | 140, 121 |
| Whips | 4 | 1, 200 | 12 | ..... | ..... | 4, 639 | 8, 960 | 17, 414 |
| Wirework | 8 | 153, 700 | 134 | 4 | 38 | 60, 890 | 112, 620 | 371, 600 |
| Wood, turned and carved (see also Lumber, planed; Sash, doors, and blinds). | 18 | 28, 725 | 42 | ..... | 2 | 19, 183 | 19, 945 | 84, 207 |
| All other industries (*a*) | 85 | 6, 300, 388 | 2, 944 | 381 | 288 | 1, 471, 217 | 13, 722, 533 | 17, 276, 752 |

*a* Embracing artificial limbs; babbitt metal and solder; bags, other than paper; belting and hose, leather; billiard tables and materials; bluing; bone-, ivory-, and lamp-black; bridges; carriages and sleds, children's; cordials and sirups; cork cutting; dentists' materials; explosives and fireworks; fertilizers; flavoring extracts; furniture, chairs; furs, dressed; gold and silver, reduced and refined; hosiery and knit goods; ice, artificial; iron forgings; jewelry and instrument cases; lard, refined; lead, bar, pipe, sheet, and shot; liquors, distilled; malt; mantels, slate, marble, and marbleized; oil, castor; oil, cottonseed and cake; oil, lubricating; oil, neat's-foot; paving materials; perfumery and cosmetics; photographic apparatus; plated and britannia ware; regalia and society banners and emblems; safes, doors, and vaults, fire-proof; saws; silk and silk goods; silversmithing; sporting goods; stamped ware; stationery goods; steam fittings and heating apparatus; stereotyping and electrotyping; sugar and molasses, refined; surgical appliances; tar and turpentine; telegraph and telephone apparatus; terra-cotta ware; toys and games; type founding; upholstering materials; washing-machines and clothes-wringers; watch cases; window blinds and shades; wire; and wooden ware.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF SAINT PAUL, MINN.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 593 | $3,738,791 | 3,930 | 1,092 | 208 | $2,254,340 | $5,719,067 | $10,280,363 |
| Awnings and tents | 3 | 11,750 | 8 | 19 | 4 | 7,760 | 96,000 | 129,900 |
| Blacksmithing (see also Wheelwrighting) | 18 | 7,500 | 31 | ..... | ..... | 15,427 | 16,450 | 53,700 |
| Bookbinding and blank-book making | 4 | 43,500 | 32 | 17 | 8 | 25,541 | 17,769 | 68,941 |
| Boots and shoes, including custom work and repairing | 41 | 275,150 | 286 | 18 | 21 | 158,162 | 421,198 | 716,733 |
| Boxes, cigar | 3 | 4,500 | 6 | 3 | ..... | 2,602 | 4,750 | 9,500 |
| Bread and other bakery products | 20 | 64,200 | 52 | 1 | 4 | 28,095 | 171,990 | 246,800 |
| Brick and tile | 5 | 13,000 | 74 | ..... | 2 | 15,322 | 8,027 | 32,200 |
| Brooms and brushes | 4 | 6,500 | 12 | 1 | ..... | 7,100 | 13,000 | 29,600 |
| Carpentering | 58 | 127,475 | 622 | ..... | ..... | 268,516 | 568,865 | 900,642 |
| Carpets, rag | 3 | 210 | ..... | ..... | 1 | 150 | 800 | 1,850 |
| Carriages and wagons (see also Wheelwrighting) | 6 | 103,000 | 105 | ..... | ..... | 57,760 | 82,500 | 200,000 |
| Clothing, men's | 22 | 264,500 | 154 | 485 | 3 | 210,490 | 553,050 | 974,200 |
| Clothing, women's | 9 | 31,200 | 1 | 80 | ..... | 24,100 | 93,350 | 147,900 |
| Coffee and spices, roasted and ground | 4 | 106,500 | 11 | 6 | 9 | 11,350 | 107,750 | 153,500 |
| Confectionery | 9 | 63,000 | 41 | 5 | 1 | 23,010 | 108,450 | 156,950 |
| Cooperage | 4 | 2,400 | 10 | ..... | ..... | 5,080 | 2,100 | 11,300 |
| Dentistry, mechanical | 14 | 14,050 | 7 | ..... | 1 | 3,670 | 7,260 | 40,530 |
| Drugs and chemicals (see also Patent medicines and compounds) | 5 | 13,050 | 9 | ..... | ..... | 3,800 | 16,500 | 35,300 |
| Dyeing and cleaning | 3 | 1,650 | 1 | 1 | ..... | 550 | 750 | 3,650 |
| Flouring- and grist-mill products | 7 | 143,500 | 40 | ..... | ..... | 17,464 | 461,048 | 549,927 |
| Foundery and machine-shop products | 9 | 104,650 | 213 | ..... | ..... | 119,750 | 239,700 | 416,500 |
| Furniture (see also Upholstering) | 13 | 75,050 | 54 | ..... | ..... | 30,096 | 60,775 | 132,150 |
| Furs, dressed | 5 | 120,600 | 27 | 50 | 2 | 36,810 | 163,550 | 344,000 |
| Housefurnishing goods | 5 | 108,000 | 44 | 25 | 1 | 35,740 | 321,467 | 510,270 |
| Liquors, malt | 11 | 371,500 | 95 | 4 | 2 | 38,960 | 167,542 | 298,972 |
| Lithographing (see also Printing and publishing) | 3 | 14,000 | 14 | 1 | 1 | 9,785 | 19,657 | 37,525 |
| Lock- and gun-smithing | 4 | 4,400 | 7 | ..... | ..... | 3,750 | 3,850 | 13,500 |
| Looking-glass and picture frames | 3 | 11,750 | 3 | ..... | ..... | 1,400 | 13,000 | 19,200 |
| Lumber, planed | 4 | 48,000 | 44 | ..... | ..... | 24,150 | 80,000 | 128,500 |
| Malt | 4 | 30,500 | 18 | ..... | ..... | 9,485 | 49,300 | 74,000 |
| Marble and stone work | 12 | 37,500 | 67 | ..... | ..... | 39,100 | 32,555 | 90,975 |
| Masonry, brick and stone | 58 | 126,420 | 780 | ..... | ..... | 271,687 | 274,150 | 642,668 |
| Millinery and lace goods | 3 | 13,500 | ..... | 34 | ..... | 9,500 | 33,000 | 60,500 |
| Mineral and soda waters | 3 | 7,000 | 12 | ..... | ..... | 4,436 | 7,500 | 22,000 |
| Painting and paperhanging | 24 | 20,050 | 84 | ..... | ..... | 37,620 | 67,210 | 147,500 |
| Patent medicines and compounds (see also Drugs and chemicals) | 5 | 14,900 | 6 | 5 | 2 | 3,038 | 6,000 | 24,000 |
| Photographing | 9 | 14,625 | 13 | 2 | ..... | 6,150 | 4,040 | 28,200 |
| Plumbing and gasfitting | 9 | 83,350 | 47 | ..... | ..... | 23,831 | 67,800 | 115,850 |
| Printing and publishing (see also Lithographing) | 19 | 502,000 | 261 | 13 | 82 | 222,384 | 146,959 | 527,764 |
| Saddlery and harness | 11 | 31,193 | 54 | ..... | 2 | 28,783 | 83,760 | 147,191 |
| Shirts | 4 | 4,700 | 4 | 32 | ..... | 10,800 | 4,700 | 22,500 |
| Slaughtering and meat-packing, not including retail butchering | 5 | 165,000 | 31 | ..... | 2 | 17,100 | 371,050 | 429,747 |
| Tinware, copperware, and sheet-iron ware | 20 | 30,350 | 62 | ..... | 4 | 36,820 | 91,464 | 165,593 |
| Tobacco, cigars and cigarettes | 27 | 79,212 | 116 | 2 | 32 | 84,778 | 147,000 | 388,674 |
| Upholstering (see also Furniture) | 4 | 2,150 | 5 | ..... | ..... | 1,600 | 3,350 | 9,500 |
| Watch and clock repairing | 14 | 13,000 | 22 | ..... | ..... | 13,970 | 5,150 | 30,700 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 15 | 43,750 | 47 | ..... | ..... | 23,610 | 28,000 | 71,400 |
| All other industries (*a*) | 48 | 414,400 | 298 | 288 | 24 | 223,258 | 473,131 | 867,461 |

*a* Embracing agricultural implements; baking and yeast powders; boot and shoe uppers; boxes, fancy and paper; brass castings; buttons; coffins, burial cases, and undertakers' goods; corsets; cutlery and edge tools; drain and sewer pipe; engraving and die-sinking; engraving, wood; explosives and fireworks; furnishing goods, men's; hairwork; hats and caps; instruments, professional and scientific; iron work, architectural and ornamental; ivory and bone work; kindling wood; liquors, distilled; lumber, sawed; models and patterns; musical instruments and materials (not specified); musical instruments, organs and materials; pumps; regalia and society banners and emblems; safes, doors, and vaults, fire-proof; sash, doors, and blinds; scales and balances; show-cases; soap and candles; steam fittings and heating apparatus; stereotyping and electrotyping; trunks and valises; type founding; vinegar; wirework; and wood, turned and carved.

### CITY OF SALEM, MASS.

[Statistics collected under the direction of ELMER VALENTINE, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 241 | $3,978,850 | 2,632 | 1,369 | 240 | $1,401,592 | $7,264,447 | $9,926,564 |
| Blacksmithing | 13 | 10,300 | 24 | ..... | ..... | 12,442 | 10,300 | 36,510 |
| Boot and shoe findings | 5 | 16,250 | 35 | 49 | ..... | 21,960 | 70,000 | 107,300 |
| Boots and shoes, including custom work and repairing | 9 | 93,000 | 379 | 305 | 12 | 221,989 | 427,016 | 789,650 |
| Bread and other bakery products | 7 | 12,300 | 20 | ..... | ..... | 10,774 | 26,131 | 42,625 |
| Carpentering | 24 | 20,150 | 86 | ..... | ..... | 46,279 | 66,347 | 135,655 |
| Coffins, burial cases, and undertakers' goods | 3 | 6,000 | 8 | ..... | ..... | 4,880 | 2,200 | 9,320 |
| Foundery and machine-shop products | 10 | 47,500 | 56 | ..... | ..... | 27,230 | 50,379 | 101,943 |
| Furniture | 4 | 7,700 | 20 | ..... | ..... | 7,304 | 9,830 | 18,600 |
| Leather, curried | 36 | 703,050 | 546 | 1 | ..... | 282,111 | 3,059,359 | 3,589,511 |
| Leather, tanned | 20 | 452,500 | 347 | ..... | ..... | 175,149 | 1,926,956 | 2,336,634 |
| Looking-glass and picture frames | 3 | 6,500 | 3 | 1 | ..... | 1,900 | 4,500 | 10,300 |
| Marble and stone work | 5 | 19,000 | 28 | ..... | ..... | 11,208 | 9,600 | 29,453 |
| Masonry, brick and stone | 5 | 12,300 | 44 | ..... | ..... | 20,850 | 17,320 | 42,790 |
| Painting and paperhanging | 21 | 12,100 | 58 | ..... | ..... | 24,138 | 25,059 | 71,390 |
| Plumbing and gasfitting | 4 | 7,500 | 15 | ..... | ..... | 7,600 | 8,700 | 22,100 |
| Printing and publishing | 4 | 20,000 | 29 | 8 | 1 | 12,864 | 16,740 | 40,661 |
| Saddlery and harness | 8 | 11,500 | 16 | ..... | ..... | 7,194 | 11,025 | 25,002 |
| Shipbuilding | 5 | 9,500 | 15 | ..... | ..... | 7,140 | 4,685 | 13,640 |
| Tinware, copperware, and sheet-iron ware | 5 | 68,500 | 45 | 7 | ..... | 24,254 | 15,700 | 51,954 |
| Tobacco, cigars and cigarettes | 5 | 21,500 | 15 | 21 | ..... | 10,404 | 15,500 | 31,500 |
| All other industries (*a*) | 36 | 2,412,700 | 843 | 917 | 227 | 463,022 | 1,487,100 | 2,420,026 |

*a* Embracing artificial limbs; bagging, flax, hemp, and jute; bookbinding and blank-book making; boxes, wooden, packing; brass castings; brick and tile; carriages and wagons; cars, railroad, street, and repairs; clothing, men's; confectionery; cooperage; cordage and twine; cotton goods; dentistry, mechanical; drugs and chemicals; files; flouring- and grist-mill products; lasts; liquors, malt; lumber, planed; musical instruments, organs and materials; oil, lubricating; oilcloth, floor; paints; patent medicines and compounds; sash, doors, and blinds; wheelwrighting; and window blinds and shades.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF SALT LAKE CITY, UTAH.

[Statistics collected under the direction of A. A. LEONARD, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 166 | $860,415 | 696 | 114 | 118 | $425,537 | $812,736 | $1,610,133 |
| Awnings and tents | 3 | 900 | 6 | 4 | ..... | 3,437 | 7,000 | 13,800 |
| Blacksmithing | 12 | 7,200 | 22 | ..... | ..... | 12,971 | 7,994 | 35,164 |
| Boots and shoes, including custom work and repairing | 19 | 74,885 | 124 | 29 | 36 | 60,484 | 107,380 | 206,601 |
| Bread and other bakery products | 9 | 28,200 | 17 | 6 | 4 | 11,912 | 63,120 | 96,672 |
| Brick and tile | 6 | 53,325 | 28 | ..... | 26 | 7,967 | 5,111 | 24,612 |
| Carpentering | 4 | 10,650 | 14 | ..... | ..... | 8,910 | 14,300 | 29,800 |
| Carriages and wagons | 5 | 11,400 | 25 | ..... | 1 | 14,980 | 13,515 | 36,600 |
| Confectionery | 3 | 7,000 | 3 | 1 | ..... | 1,475 | 16,860 | 26,180 |
| Dentistry, mechanical | 6 | 8,100 | 4 | 2 | ..... | 2,250 | 2,850 | 18,950 |
| Flouring- and grist-mill products | 4 | 52,000 | 10 | ..... | ..... | 4,650 | 107,830 | 125,875 |
| Foundery and machine-shop products | 7 | 87,000 | 64 | 9 | 2 | 42,171 | 44,510 | 117,770 |
| Furniture | 4 | 25,350 | 22 | 4 | 4 | 13,250 | 18,325 | 49,387 |
| Jewelry | 3 | 2,600 | 7 | ..... | ..... | 6,783 | 9,150 | 19,362 |
| Lime | 3 | 36,000 | 16 | ..... | 2 | 7,150 | 3,040 | 16,770 |
| Liquors, malt | 3 | 100,500 | 32 | ..... | 1 | 16,125 | 60,125 | 108,020 |
| Marble and stone work | 3 | 4,400 | 5 | ..... | ..... | 3,868 | 3,300 | 9,400 |
| Masonry, brick and stone | 3 | 120 | 2 | ..... | ..... | 250 | 200 | 1,535 |
| Painting and paperhanging | 3 | 5,500 | 17 | ..... | 5 | 11,600 | 5,600 | 24,740 |
| Photographing | 5 | 6,600 | 8 | 4 | 2 | 5,603 | 3,170 | 16,300 |
| Printing and publishing | 6 | 154,600 | 114 | 11 | 17 | 91,861 | 64,054 | 202,625 |
| Saddlery and harness | 11 | 23,300 | 30 | ..... | 4 | 14,230 | 42,195 | 66,067 |
| Tinware, copperware, and sheet-iron ware | 3 | 32,000 | 24 | ..... | 5 | 21,200 | 47,400 | 85,070 |
| All other industries (*a*) | 41 | 128,725 | 102 | 44 | 9 | 62,350 | 165,707 | 278,833 |

*a* Embracing baking and yeast powders; baskets, rattan and willow ware; bluing; bookbinding and blank-book making; brass castings; clothing, men's; cordage and twine; iron railings, wrought; kaolin and ground earths; lasts; leather, curried; leather, dressed skins; leather, tanned; lock- and gun-smithing; mattresses and spring beds; mineral and soda waters; plumbing and gasfitting; sash, doors, and blinds; saws; soap and candles; stencils and brands; stone- and earthen-ware; tobacco, cigars and cigarettes; trunks and valises; upholstering; watch and clock repairing; wood, turned and carved; wooden ware; and woolen goods.

### CITY OF SAN ANTONIO, TEX.

[Statistics collected under the direction of MAX NEUENDORFF, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 71 | $310,050 | 300 | 13 | 48 | $137,781 | $328,476 | $642,412 |
| Blacksmithing | 10 | 15,450 | 29 | 3 | 10 | 10,850 | 9,440 | 28,750 |
| Boots and shoes, including custom work and repairing | 7 | 8,600 | 20 | ..... | ..... | 5,750 | 7,800 | 31,300 |
| Carpentering | 3 | 3,500 | 23 | ..... | ..... | 10,200 | 16,000 | 33,300 |
| Carriages and wagons | 3 | 12,000 | 12 | ..... | 3 | 6,064 | 7,000 | 20,980 |
| Flouring- and grist-mill products | 3 | 40,000 | 19 | ..... | ..... | 10,100 | 162,600 | 205,000 |
| Mineral and soda waters | 4 | 7,600 | 2 | 3 | ..... | 1,860 | 1,850 | 6,400 |
| Painting and paperhanging | 4 | 4,200 | 24 | ..... | ..... | 6,875 | 3,900 | 14,000 |
| Printing and publishing | 4 | 27,700 | 46 | 2 | 26 | 29,520 | 16,500 | 71,000 |
| Saddlery and harness | 6 | 30,300 | 26 | ..... | 4 | 11,650 | 19,800 | 44,700 |
| Tinware, copperware, and sheet-iron ware | 3 | 4,400 | 10 | ..... | 1 | 2,100 | 3,500 | 7,250 |
| All other industries (*a*) | 24 | 150,300 | 89 | 5 | 4 | 42,812 | 80,086 | 179,732 |

*a* Embracing brick and tile; cement; confectionery; cooperage; foundery and machine-shop products; ice, artificial; jewelry; leather, curried; leather, tanned; lime; liquors, malt; lumber, sawed; soap and candles; stone- and earthen-ware; tobacco, cigars and cigarettes; and wheelwrighting.

### CITY OF SAN FRANCISCO, CAL.

[Statistics collected under the direction of HENRY G. LANGLEY, Chief Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 2,971 | $35,368,139 | 23,662 | 3,588 | 1,192 | $14,928,534 | $47,078,072 | $77,824,299 |
| Artificial feathers and flowers (see also Millinery and lace goods) | 4 | 2,550 | 2 | 1 | ..... | 962 | 2,700 | 5,850 |
| Awnings and tents | 4 | 26,100 | 5 | 7 | 3 | 6,675 | 15,850 | 29,602 |
| Bags, other than paper | 3 | 275,000 | 55 | 50 | 14 | 51,300 | 1,410,000 | 1,565,000 |
| Baking and yeast powders (see also Drugs and chemicals) | 4 | 48,000 | 24 | 3 | ..... | 16,575 | 97,490 | 142,345 |
| Baskets, rattan and willow ware | 8 | 8,575 | 20 | 5 | 3 | 6,560 | 4,165 | 19,400 |
| Belting and hose, leather | 4 | 85,000 | 31 | ..... | ..... | 18,565 | 73,100 | 117,780 |
| Billiard tables and materials | 5 | 102,000 | 39 | ..... | ..... | 24,632 | 45,618 | 98,360 |
| Blacking | 3 | 3,500 | 3 | ..... | ..... | 1,809 | 2,250 | 7,400 |
| Blacksmithing (see also Wheelwrighting) | 106 | 59,973 | 155 | ..... | 7 | 104,653 | 102,410 | 364,880 |
| Bookbinding and blank-book making | 13 | 108,300 | 118 | 55 | 32 | 110,766 | 172,890 | 382,440 |
| Boot and shoe findings | 4 | 10,700 | 11 | 1 | ..... | 8,080 | 30,800 | 44,750 |
| Boot and shoe uppers | 5 | 6,700 | 9 | 1 | ..... | 5,536 | 15,030 | 31,980 |
| Boots and shoes, including custom work and repairing | 310 | 1,090,772 | 2,464 | 184 | 96 | 1,199,730 | 2,187,811 | 4,141,547 |
| Boxes, cigar | 6 | 130,635 | 149 | 35 | 10 | 72,940 | 75,165 | 206,200 |
| Boxes, fancy and paper | 4 | 24,500 | 18 | 42 | 9 | 20,165 | 20,450 | 50,550 |
| Boxes, wooden, packing | 7 | 154,750 | 232 | 30 | 30 | 108,400 | 216,300 | 460,500 |
| Brass castings | 8 | 142,200 | 184 | 2 | 6 | 117,940 | 232,570 | 374,350 |
| Bread and other bakery products | 119 | 428,860 | 431 | 14 | 45 | 315,082 | 1,403,001 | 2,070,884 |
| Brick and tile | 3 | 8,800 | 79 | ..... | ..... | 22,050 | 12,025 | 46,700 |
| Bridges | 8 | 99,000 | 344 | ..... | ..... | 172,970 | 374,000 | 694,000 |
| Brooms and brushes | 15 | 70,800 | 96 | ..... | 3 | 37,049 | 69,600 | 132,200 |
| Carpentering | 181 | 431,690 | 1,190 | 1 | 1 | 907,331 | 1,690,833 | 3,121,851 |
| Carriages and wagons (see also Wheelwrighting) | 52 | 338,071 | 373 | ..... | 1 | 230,849 | 284,814 | 714,098 |
| Clothing, men's | 110 | 1,126,164 | 1,087 | 610 | 18 | 908,559 | 2,204,148 | 3,782,963 |
| Clothing, women's | 27 | 424,250 | 31 | 632 | 7 | 220,688 | 659,152 | 1,150,207 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

CITY OF SAN FRANCISCO, CAL.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Coffee and spices, roasted and ground | 20 | $445,450 | 160 | 6 | 10 | $99,132 | $1,057,628 | $1,336,718 |
| Coffins, burial cases, and undertakers' goods | 13 | 72,150 | 46 | | | 33,753 | 54,125 | 142,000 |
| Confectionery | 29 | 166,150 | 88 | 29 | 14 | 54,622 | 345,826 | 507,026 |
| Cooperage | 28 | 424,350 | 254 | | 5 | 181,811 | 304,620 | 605,704 |
| Cordage and twine | 3 | 500,700 | 145 | | 18 | 57,215 | 402,115 | 545,230 |
| Cordials and sirups | 9 | 72,200 | 44 | | | 28,610 | 134,590 | 208,000 |
| Corsets | 4 | 4,300 | | 9 | 1 | 3,000 | 3,550 | 12,200 |
| Cutlery and edge tools (see also Tools) | 11 | 104,500 | 54 | | 1 | 39,623 | 37,150 | 119,939 |
| Dentistry, mechanical | 28 | 10,480 | 15 | | | 7,320 | 9,010 | 39,525 |
| Drugs and chemicals (see also Baking and yeast powders; Patent medicines and compounds). | 27 | 357,925 | 118 | 2 | 3 | 76,809 | 273,801 | 571,691 |
| Dyeing and cleaning | 9 | 27,225 | 21 | 9 | 1 | 16,331 | 14,269 | 46,406 |
| Electroplating | 10 | 21,500 | 11 | 3 | 1 | 6,542 | 13,523 | 34,375 |
| Engraving and die-sinking | 13 | 4,320 | 5 | | | 3,288 | 2,430 | 20,340 |
| Engraving, wood | 8 | 995 | 2 | | | 425 | 3,340 | 17,100 |
| Fertilizers | 3 | 145,000 | 35 | | | 21,588 | 66,000 | 106,100 |
| Flags and banners | 3 | 16,000 | 5 | 11 | 2 | 7,000 | 13,200 | 35,600 |
| Flavoring extracts | 6 | 17,500 | 13 | 6 | 1 | 7,164 | 36,100 | 54,500 |
| Flouring- and grist-mill products | 9 | 635,600 | 142 | | | 103,992 | 1,991,609 | 2,275,360 |
| Food preparations (see page 39) | 7 | 53,400 | 35 | 1 | 4 | 22,348 | 80,892 | 164,625 |
| Foundery and machine-shop products | 58 | 2,391,739 | 1,888 | | 33 | 1,243,234 | 2,017,267 | 3,889,503 |
| Fruits and vegetables, canned and preserved | 6 | 926,000 | 226 | 340 | 80 | 207,000 | 609,000 | 978,000 |
| Furnishing goods, men's | 12 | 362,350 | 121 | 189 | | 126,265 | 509,540 | 744,245 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 41 | 918,975 | 556 | 20 | 12 | 352,583 | 683,895 | 1,280,210 |
| Furniture, chairs | 3 | 2,300 | 10 | | | 5,820 | 3,750 | 13,300 |
| Furs, dressed | 6 | 102,250 | 17 | 101 | | 31,429 | 158,600 | 224,400 |
| Glass, cut, stained, and ornamented | 5 | 77,450 | 36 | | | 22,100 | 66,900 | 103,000 |
| Gloves and mittens | 6 | 74,500 | 49 | 187 | | 49,700 | 101,805 | 191,520 |
| Glue | 3 | 21,200 | 23 | | 2 | 11,800 | 21,940 | 49,800 |
| Hairwork | 11 | 14,550 | 10 | 19 | | 12,107 | 16,000 | 46,284 |
| Hand-stamps | 5 | 13,000 | 16 | | | 14,830 | 13,532 | 51,430 |
| Hats and caps, not including wool hats | 16 | 35,925 | 20 | 39 | | 29,032 | 38,717 | 83,678 |
| High explosives | 6 | 934,000 | 172 | | | 76,786 | 680,416 | 1,565,868 |
| Ink | 3 | 61,000 | 15 | | | 9,450 | 59,000 | 97,500 |
| Instruments, professional and scientific | 8 | 18,050 | 17 | | 1 | 9,948 | 17,088 | 44,712 |
| Iron forgings | 4 | 42,000 | 40 | | 1 | 27,702 | 47,081 | 91,310 |
| Jewelry | 12 | 283,500 | 128 | | 11 | 100,597 | 159,753 | 315,115 |
| Lapidary work | 7 | 4,425 | 9 | 1 | 3 | 11,035 | 16,670 | 39,120 |
| Leather, curried | 41 | 225,700 | 111 | | 2 | 72,250 | 941,120 | 1,102,475 |
| Leather, tanned | 47 | 1,161,800 | 261 | | 7 | 166,754 | 1,530,298 | 2,014,345 |
| Liquors, distilled | 5 | 199,000 | 36 | | 1 | 20,250 | 170,075 | 258,200 |
| Liquors, malt | 38 | 1,666,520 | 813 | | | 404,830 | 1,507,284 | 2,722,270 |
| Liquors, vinous (see also Liquors, distilled) | 6 | 120,000 | 49 | | | 16,236 | 51,445 | 83,521 |
| Lithographing (see also Printing and publishing) | 7 | 122,000 | 84 | | 9 | 63,391 | 77,200 | 193,712 |
| Lock- and gun-smithing | 30 | 24,750 | 20 | | | 13,234 | 14,540 | 57,163 |
| Looking-glass and picture frames | 21 | 229,600 | 78 | 2 | 11 | 58,406 | 135,975 | 281,900 |
| Marble and stone work | 32 | 229,150 | 219 | | | 155,767 | 223,554 | 469,040 |
| Masonry, brick, and stone | 24 | 75,650 | 191 | | 1 | 135,827 | 182,633 | 301,784 |
| Matches | 3 | 30,600 | 53 | | 5 | 21,500 | 156,800 | 198,000 |
| Mattresses and spring beds (see also Furniture) | 8 | 123,200 | 59 | 2 | 2 | 35,142 | 94,215 | 159,737 |
| Millinery and lace goods (see also Artificial feathers and flowers) | 19 | 137,600 | 13 | 198 | 2 | 78,932 | 305,900 | 450,300 |
| Mineral and soda waters | 8 | 40,300 | 27 | | 1 | 18,365 | 31,160 | 80,175 |
| Models and patterns | 7 | 8,900 | 15 | | 1 | 9,532 | 8,856 | 23,000 |
| Musical instruments and materials (not specified) | 4 | 2,550 | 7 | | | 3,660 | 1,150 | 8,400 |
| Musical instruments, pianos and materials | 5 | 49,500 | 27 | | | 18,425 | 41,250 | 87,700 |
| Paints | 3 | 318,000 | 89 | 1 | | 40,720 | 298,552 | 402,070 |
| Painting and paperhanging | 117 | 87,485 | 409 | 1 | 16 | 260,907 | 197,839 | 639,503 |
| Patent medicines and compounds (see also Drugs and chemicals) | 15 | 52,800 | 45 | 6 | | 16,732 | 71,820 | 156,000 |
| Perfumery and cosmetics | 3 | 13,000 | 11 | 11 | 16 | 12,400 | 27,300 | 61,900 |
| Photographing | 33 | 127,950 | 105 | 27 | 3 | 100,900 | 80,833 | 298,960 |
| Pickles, preserves, and sauces | 3 | 5,000 | 3 | | 2 | 1,324 | 6,475 | 13,200 |
| Plumbing and gasfitting | 94 | 175,050 | 265 | 1 | 23 | 179,565 | 332,244 | 671,735 |
| Printing and publishing (see also Lithographing) | 152 | 1,744,755 | 1,326 | 98 | 103 | 1,217,349 | 1,015,305 | 2,987,570 |
| Roofing and roofing materials | 16 | 69,450 | 150 | | | 91,021 | 120,920 | 271,875 |
| Saddlery and harness | 58 | 285,650 | 234 | 12 | 17 | 121,977 | 198,199 | 400,715 |
| Safes, doors, and vaults, fire-proof | 3 | 36,500 | 14 | | | 8,590 | 13,808 | 32,835 |
| Sash, doors, and blinds (see also Wood, turned and carved) | 16 | 555,000 | 431 | | 30 | 272,213 | 360,081 | 769,030 |
| Saws | 6 | 87,185 | 29 | | 4 | 22,348 | 40,390 | 83,020 |
| Shipbuilding | 56 | 1,681,523 | 349 | | | 393,283 | 463,069 | 1,087,843 |
| Shirts | 25 | 88,100 | 181 | 173 | 1 | 85,188 | 153,940 | 303,050 |
| Show-cases | 6 | 4,320 | 8 | | | 5,088 | 10,875 | 23,800 |
| Silk and silk goods | 4 | 159,300 | 19 | 104 | 25 | 40,700 | 78,625 | 155,705 |
| Silverware | 3 | 116,000 | 24 | | 6 | 20,550 | 37,500 | 87,000 |
| Slaughtering and meat-packing, not including retail butchering | 24 | 1,586,200 | 295 | | 14 | 239,868 | 4,511,721 | 6,013,602 |
| Soap and candles | 19 | 458,650 | 150 | 14 | 5 | 86,855 | 676,489 | 886,293 |
| Stencils and brands | 5 | 6,125 | 10 | 1 | | 5,894 | 2,860 | 16,792 |
| Straw goods | 8 | 33,500 | 33 | 72 | 3 | 38,600 | 26,450 | 85,200 |
| Surgical appliances | 5 | 4,925 | 2 | | | 1,976 | 2,400 | 11,072 |
| Tinware, copperware, and sheet-iron ware | 60 | 428,975 | 341 | | 64 | 226,978 | 542,041 | 949,499 |
| Tobacco, cigars and cigarettes | 147 | 1,687,603 | 3,110 | 110 | 198 | 911,988 | 1,929,357 | 3,720,813 |
| Tools (see also Cutlery and edge tools) | 4 | 13,100 | 11 | | | 9,365 | 17,300 | 38,150 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF SAN FRANCISCO, CAL.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Trunks and valises | 7 | $106,631 | 43 | | 4 | $29,312 | $84,500 | $166,508 |
| Umbrellas and canes | 4 | 20,850 | 5 | 11 | | 9,616 | 26,600 | 53,950 |
| Upholstering (see also Furniture) | 50 | 104,350 | 108 | 7 | 1 | 72,297 | 268,032 | 360,332 |
| Upholstering materials | 4 | 47,250 | 28 | 10 | 4 | 10,885 | 32,550 | 62,050 |
| Watch and clock repairing | 98 | 91,235 | 75 | 2 | 4 | 62,013 | 54,119 | 223,215 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 20 | 20,875 | 34 | | 1 | 23,142 | 23,350 | 74,712 |
| Windmills | 4 | 11,500 | 8 | | | 7,100 | 13,200 | 27,500 |
| Window blinds and shades | 10 | 92,100 | 43 | 2 | | 23,969 | 74,200 | 141,840 |
| Wirework | 6 | 273,308 | 70 | | 7 | 40,665 | 176,910 | 273,776 |
| Wood, turned and carved (see also Sash, doors, and blinds) | 16 | 15,125 | 30 | | 3 | 21,006 | 28,390 | 72,776 |
| All other industries (*a*) | 88 | 5,682,100 | 1,815 | 128 | 107 | 1,121,786 | 9,103,563 | 11,203,095 |

*a* Embracing agricultural implements; axle-grease; babbitt metal and solder; bags, paper; bells; boot and shoe cut stock; calcium lights; cement; drain and sewer pipe; electric lights; electrical apparatus; explosives and fireworks; fancy articles; files; foundery supplies; galvanizing; glass; gold and silver, reduced and refined; grease and tallow; housefurnishing goods; iron and steel; iron bolts, nuts, washers, and rivets; iron pipe, wrought; iron railing, wrought; ivory and bone work; jewelry and instrument cases; kindling wood; lamps and reflectors; lasts; lead, bar, pipe, sheet, and shot; leather, dressed skins; lumber, planed; malt; mantels, slate, marble, and marbleized; millstones; mirrors; mixed textiles; musical instruments, organs and materials; oil, essential; oil, linseed; photographic apparatus; pipes, tobacco; pumps; regalia and society banners and emblems; rubber and elastic goods; salt, ground; spectacles and eyeglasses; springs, steel, car, and carriage; stamped ware; stationery goods; steam fittings and heating apparatus; stereotyping and electrotyping; stone- and earthen-ware; sugar and molasses, refined; taxidermy; tobacco, chewing, smoking, and snuff; toys and games; type founding; varnish; vinegar; whips; wooden ware; woolen goods; and zinc.

### CITY OF SAVANNAH, GA.

[Statistics collected under the direction of B. FRANK GRAY, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 120 | $1,102,970 | 996 | 68 | 66 | $447,640 | $2,457,606 | $3,396,297 |
| Boots and shoes, including custom work and repairing | 7 | 1,920 | 10 | | | 4,738 | 4,071 | 12,110 |
| Bread and other bakery products | 15 | 71,250 | 103 | | 15 | 30,342 | 208,240 | 272,124 |
| Brick and tile | 3 | 59,500 | 62 | 1 | 2 | 13,900 | 11,587 | 33,900 |
| Carpentering | 9 | 12,875 | 57 | | | 28,335 | 60,044 | 107,389 |
| Carriages and wagons (see also Wheelwrighting) | 3 | 6,300 | 17 | | | 7,417 | 7,000 | 10,535 |
| Flouring- and grist-mill products | 5 | 121,000 | 57 | | | 25,096 | 338,225 | 405,520 |
| Foundery and machine-shop products | 7 | 64,000 | 84 | 3 | 6 | 50,197 | 68,684 | 176,954 |
| Lumber, sawed | 4 | 43,000 | 78 | | 5 | 16,904 | 100,000 | 135,292 |
| Mineral and soda waters | 3 | 6,300 | 15 | | | 5,834 | 4,304 | 19,248 |
| Painting and paperhanging | 8 | 36,775 | 54 | | | 31,003 | 25,343 | 80,850 |
| Plumbing and gasfitting | 6 | 7,900 | 20 | | | 8,571 | 13,874 | 31,100 |
| Printing and publishing | 4 | 104,800 | 100 | 2 | 14 | 66,603 | 52,600 | 140,500 |
| Saddlery and harness | 3 | 30,500 | 8 | | | 4,434 | 4,660 | 13,050 |
| Tinware, copperware, and sheet-iron ware | 6 | 44,000 | 19 | | | 9,861 | 22,700 | 46,000 |
| Tobacco, cigars and cigarettes | 11 | 8,000 | 32 | 1 | 7 | 12,311 | 14,255 | 34,452 |
| Wheelwrighting (see also Carriages and wagons) | 11 | 22,050 | 58 | | 3 | 25,156 | 22,530 | 65,901 |
| All other industries (*a*) | 15 | 461,900 | 213 | 61 | 14 | 106,938 | 1,499,550 | 1,801,372 |

*a* Embracing blacksmithing; coffins, burial cases, and undertakers' goods; confectionery; cooperage; cotton goods; lumber, planed; marble and stone work; paper; rice cleaning and polishing; stencils and brands; and tar and turpentine.

### CITY OF SCRANTON, PA.

[Statistics collected under the direction of C. G. BOLAND, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 216 | $4,470,631 | 2,908 | 456 | 185 | $1,313,287 | $6,671,479 | $8,501,850 |
| Blacksmithing (see also Wheelwrighting) | 19 | 16,200 | 21 | | | 8,035 | 9,334 | 31,335 |
| Boots and shoes, including custom work and repairing | 39 | 16,025 | 43 | | 1 | 15,276 | 28,190 | 66,674 |
| Bread and other bakery products | 11 | 91,200 | 33 | 4 | 5 | 19,633 | 52,638 | 96,394 |
| Brick and tile | 3 | 6,500 | 33 | | | 9,190 | 2,275 | 14,000 |
| Carpentering | 16 | 40,935 | 94 | | | 39,971 | 75,240 | 138,223 |
| Carriages and wagons (see also Wheelwrighting) | 5 | 25,000 | 36 | | | 16,360 | 14,700 | 39,360 |
| Flouring- and grist-mill products | 5 | 185,000 | 18 | | | 13,681 | 255,528 | 291,287 |
| Foundery and machine-shop products | 4 | 902,000 | 504 | | 5 | 203,486 | 312,921 | 630,190 |
| Furniture | 9 | 21,700 | 29 | 1 | 3 | 13,800 | 22,040 | 52,350 |
| Grease and tallow | 3 | 3,200 | 4 | | | 1,285 | 17,140 | 24,000 |
| Iron and steel | 4 | 2,294,000 | 1,534 | | 62 | 605,953 | 4,792,978 | 5,400,085 |
| Liquors, malt | 3 | 170,000 | 32 | | | 13,300 | 73,755 | 133,125 |
| Lumber, planed | 3 | 71,500 | 36 | | 3 | 16,838 | 28,520 | 50,550 |
| Marble and stone work | 5 | 12,900 | 24 | | | 9,296 | 16,761 | 33,095 |
| Painting and paperhanging | 14 | 2,345 | 29 | | | 13,168 | 11,850 | 34,907 |
| Plumbing and gasfitting | 3 | 16,375 | 19 | | | 9,500 | 35,725 | 52,775 |
| Printing and publishing | 12 | 81,100 | 91 | 3 | 34 | 51,176 | 44,658 | 117,017 |
| Saddlery and harness | 7 | 19,700 | 18 | | | 5,424 | 19,447 | 35,636 |
| Tinware, copperware, and sheet-iron ware | 13 | 91,725 | 47 | | 3 | 20,934 | 45,275 | 93,785 |
| Tobacco, cigars and cigarettes | 9 | 25,950 | 70 | 15 | | 26,390 | 45,750 | 87,950 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 4 | 2,600 | 3 | | | 1,150 | 1,850 | 5,760 |
| All other industries (*a*) | 25 | 373,776 | 190 | 433 | 69 | 199,411 | 764,904 | 1,133,352 |

*a* Embracing agricultural implements; bookbinding and blank-book making; boxes, fancy and paper; brass castings; bridges; clothing, women's; coffee and spices, roasted and ground; confectionery; cutlery and edge tools; files; gas machines and meters; hairwork; looking-glass and picture frames; lumber, sawed; scales and balances; silk and silk goods; slaughtering and meat-packing; tobacco, chewing, smoking, and snuff; upholstering; and wirework.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF SOMERVILLE, MASS.

[Statistics collected under the direction of JOHN E. ASHLEY, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 100 | $1,682,795 | 1,191 | 84 | 21 | $564,508 | $4,608,192 | $5,852,535 |
| Blacksmithing (see also Wheelwrighting) | 7 | 8,350 | 11 | ..... | ..... | 4,700 | 4,250 | 16,300 |
| Boots and shoes, including custom work and repairing | 9 | 1,305 | 5 | ..... | ..... | 2,000 | 4,245 | 11,300 |
| Bread and other bakery products | 4 | 15,000 | 20 | 4 | 2 | 14,600 | 42,000 | 66,000 |
| Carpentering | 12 | 24,700 | 44 | ..... | ..... | 24,250 | 42,387 | 83,500 |
| Flouring- and grist-mill products | 3 | 29,200 | 7 | 1 | ..... | 2,600 | 98,390 | 111,400 |
| Masonry, brick and stone | 4 | 5,800 | 14 | ..... | ..... | 6,800 | 13,200 | 27,500 |
| Painting and paperhanging | 12 | 6,300 | 25 | ..... | ..... | 10,525 | 8,500 | 28,600 |
| Plumbing and gasfitting | 3 | 6,050 | 6 | ..... | ..... | 3,800 | 15,100 | 22,400 |
| Saddlery and harness | 3 | 500 | 1 | ..... | ..... | 225 | 2,000 | 4,300 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 760,840 | 263 | ..... | ..... | 122,889 | 3,368,396 | 3,702,601 |
| Tinware, copperware, and sheet-iron ware | 4 | 8,050 | 6 | ..... | ..... | 3,800 | 6,000 | 20,719 |
| Wheelwrighting (see also Blacksmithing) | 4 | 3,950 | 5 | ..... | ..... | 3,150 | 3,800 | 21,700 |
| All other industries (*a*) | 32 | 812,750 | 784 | 79 | 19 | 365,169 | 999,924 | 1,736,215 |

*a* Embracing boot and shoe cut stock; brass and copper, rolled; brass castings; carriages and wagons; cordage and twine; cooperage; drugs and chemicals; dyeing and finishing textiles; fertilizers; foundery and machine-shop products; fruits and vegetables, canned and preserved; glass; hats and caps, not including wool hats; iron nails and spikes, cut and wrought; leather, curried; mattresses and spring beds; mats and matting; models and patterns; pickles, preserves, and sauces; printing and publishing; sash, doors, and blinds; soap and candles; stone- and earthen-ware; tobacco, cigars and cigarettes; tools; upholstering; and vinegar.

### CITY OF SPRINGFIELD, ILL.

[Statistics collected under the direction of J. O. HUMPHREY, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 116 | $1,709,775 | 1,391 | 75 | 232 | $656,253 | $3,156,279 | $4,123,883 |
| Blacksmithing | 6 | 4,400 | 10 | ..... | ..... | 5,800 | 4,540 | 17,340 |
| Boots and shoes, including custom work and repairing | 13 | 7,930 | 12 | ..... | 1 | 5,400 | 6,177 | 17,888 |
| Bread and other bakery products | 8 | 16,700 | 15 | 4 | 3 | 7,140 | 23,800 | 39,000 |
| Carriages and wagons | 4 | 67,500 | 52 | ..... | ..... | 27,200 | 37,000 | 93,000 |
| Confectionery | 3 | 14,500 | 12 | 3 | 6 | 7,000 | 24,500 | 38,000 |
| Flouring- and grist-mill products | 5 | 140,000 | 40 | ..... | ..... | 16,800 | 268,550 | 356,495 |
| Foundery and machine-shop products | 6 | 107,500 | 121 | ..... | 3 | 62,665 | 131,207 | 240,626 |
| Furniture (see also Upholstering) | 3 | 1,600 | 7 | ..... | ..... | 4,200 | 3,300 | 8,700 |
| Printing and publishing | 6 | 50,300 | 123 | 3 | 44 | 49,050 | 22,150 | 105,300 |
| Saddlery and harness | 8 | 19,300 | 35 | 2 | ..... | 13,764 | 26,400 | 61,106 |
| Tinware, copperware, and sheet-iron ware | 5 | 12,000 | 18 | ..... | 1 | 9,540 | 17,400 | 34,090 |
| Tobacco, cigars and cigarettes | 9 | 17,400 | 30 | ..... | 11 | 10,216 | 13,808 | 36,650 |
| Upholstering (see also Furniture) | 3 | 3,200 | 6 | ..... | 2 | 2,660 | 4,300 | 8,700 |
| All other industries (*a*) | 37 | 1,247,445 | 910 | 63 | 161 | 434,818 | 2,573,057 | 3,067,188 |

*a* Embracing agricultural implements; bags, paper; baking and yeast powders; bookbinding and blank-book making; brooms and brushes; clothing, men's; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; cooperage; files; iron and steel; liquors, malt; lock- and gun-smithing; looking-glass and picture frames; lumber, planed; marble and stone work; mineral and soda waters; paper; patent medicines and compounds; roofing and roofing materials; sash, doors, and blinds; shoddy; slaughtering and meat-packing; stereotyping and electrotyping; trunks and valises; wheelwrighting; wirework; wood, turned and carved; and woolen goods.

### CITY OF SPRINGFIELD, MASS.

[Statistics collected under the direction of RODERICK BURT, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 434 | $9,177,250 | 4,881 | 2,138 | 341 | $2,906,130 | $7,726,119 | $12,891,820 |
| Blacksmithing (see also Wheelwrighting) | 20 | 13,875 | 50 | ..... | ..... | 21,575 | 17,621 | 57,225 |
| Boots and shoes, including custom work and repairing | 27 | 7,125 | 15 | ..... | ..... | 6,100 | 10,442 | 33,588 |
| Boxes, fancy and paper | 6 | 24,500 | 35 | 154 | ..... | 46,709 | 80,900 | 145,267 |
| Brass castings | 3 | 52,300 | 65 | ..... | 10 | 23,950 | 32,400 | 81,000 |
| Bread and other bakery products | 10 | 48,250 | 49 | 11 | 1 | 30,389 | 105,405 | 199,254 |
| Brick and tile | 7 | 91,000 | 150 | ..... | ..... | 34,950 | 21,965 | 82,000 |
| Buttons | 3 | 133,000 | 81 | 316 | 35 | 114,316 | 92,620 | 274,229 |
| Cardboard | 3 | 73,000 | 58 | 12 | ..... | 36,132 | 159,827 | 224,204 |
| Carpentering | 43 | 148,700 | 272 | ..... | ..... | 127,030 | 310,275 | 545,582 |
| Carriages and wagons (see also Wheelwrighting) | 5 | 32,500 | 47 | ..... | ..... | 27,550 | 26,800 | 70,580 |
| Cars, railroad, street, and repairs | 3 | 493,000 | 458 | 10 | ..... | 204,113 | 719,078 | 995,677 |
| Clothing, men's | 10 | 42,200 | 52 | 81 | ..... | 61,990 | 90,300 | 178,250 |
| Collars and cuffs, paper | 4 | 190,000 | 30 | 28 | ..... | 30,533 | 333,238 | 408,451 |
| Confectionery | 5 | 87,300 | 49 | 8 | ..... | 31,250 | 161,500 | 225,900 |
| Cotton goods | 3 | 1,517,250 | 355 | 477 | 141 | 235,336 | 658,236 | 1,167,564 |
| Dentistry, mechanical | 3 | 2,325 | ..... | ..... | ..... | ..... | 1,100 | 5,900 |
| Dyeing and cleaning | 4 | 8,200 | 15 | 6 | ..... | 8,700 | 4,100 | 18,750 |
| Electroplating | 5 | 8,500 | 18 | ..... | 1 | 7,925 | 18,400 | 60,950 |
| Envelopes | 4 | 500,000 | 93 | 525 | 10 | 154,750 | 1,121,450 | 1,445,570 |
| Fancy articles | 3 | 84,500 | 15 | 10 | ..... | 8,425 | 7,900 | 21,500 |
| Fire-arms | 3 | 2,975,455 | 614 | ..... | ..... | 416,147 | 221,260 | 711,093 |
| Flouring- and grist-mill products | 3 | 47,000 | 4 | ..... | ..... | 1,650 | 56,395 | 71,315 |
| Foundery and machine-shop products | 13 | 377,700 | 265 | ..... | ..... | 124,468 | 254,653 | 458,585 |
| Furniture (see also Mattresses and spring beds) | 10 | 96,950 | 68 | 3 | ..... | 32,923 | 108,810 | 175,520 |
| Hand-stamps | 3 | 15,700 | 19 | 1 | ..... | 10,600 | 20,750 | 38,500 |
| Jewelry | 4 | 13,900 | 8 | 15 | ..... | 10,185 | 29,450 | 51,000 |
| Kindling wood | 5 | 1,750 | 10 | ..... | ..... | 3,495 | 3,880 | 9,150 |
| Liquors, malt | 3 | 65,000 | 32 | ..... | ..... | 14,739 | 78,890 | 135,250 |
| Looking-glass and picture frames | 3 | 8,800 | 5 | ..... | ..... | 3,600 | 13,900 | 21,100 |
| Marble and stone work | 7 | 54,380 | 79 | ..... | 1 | 44,250 | 40,000 | 111,000 |
| Masonry, brick and stone | 3 | 7,500 | 12 | ..... | ..... | 6,690 | 7,500 | 20,500 |
| Mattresses and spring beds (see also Furniture) | 4 | 19,065 | 16 | 5 | ..... | 10,271 | 26,322 | 51,951 |
| Painting and paperhanging | 32 | 21,410 | 74 | ..... | ..... | 43,100 | 41,055 | 114,355 |
| Photographing | 10 | 22,800 | 11 | 1 | ..... | 7,200 | 9,210 | 41,150 |
| Plumbing and gasfitting | 3 | 4,500 | 6 | ..... | ..... | 4,400 | 13,680 | 22,530 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF SPRINGFIELD, MASS.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Printing and publishing | 10 | $158,700 | 203 | 76 | 8 | $156,842 | $182,396 | $391,072 |
| Saddlery and harness | 9 | 61,850 | 163 | 1 | ..... | 31,775 | 128,250 | 189,804 |
| Sash, doors, and blinds | 3 | 18,000 | 47 | ..... | ..... | 20,652 | 36,764 | 66,141 |
| Sewing machines and attachments | 3 | 51,200 | 53 | ..... | ..... | 17,450 | 31,500 | 94,400 |
| Slaughtering and meat-packing, not including retail butchering | 4 | 149,000 | 32 | ..... | ..... | 20,080 | 840,615 | 940,730 |
| Soap and candles | 4 | 124,750 | 31 | 2 | ..... | 13,778 | 203,450 | 229,254 |
| Tinware, copperware, and sheet-iron ware | 13 | 129,200 | 97 | 6 | 2 | 44,255 | 124,850 | 204,840 |
| Tobacco, cigars and cigarettes | 19 | 125,590 | 149 | 59 | 4 | 102,742 | 227,466 | 395,560 |
| Watch and clock repairing | 14 | 7,375 | 14 | ..... | ..... | 8,200 | 7,225 | 24,800 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 8 | 8,250 | 8 | ..... | ..... | 4,065 | 3,930 | 14,700 |
| All other industries (*a*) | 70 | 1,053,900 | 954 | 331 | 128 | 540,850 | 1,040,301 | 2,066,085 |

*a* Embracing artificial limbs; awnings and tents; bags, paper; bells; billiard tables and materials; blacking; bookbinding and blank-book making; boxes, cigar; boxes, wooden, packing; bridges; carriages and sleds, children's; clothing, women's; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; drain and sewer pipe; drugs and chemicals; dyeing and finishing textiles; gas machines and meters; glue; gold and silver leaf and foil; hairwork; hardware; ink; iron forgings; iron work, architectural and ornamental; leather, dressed skins; lithographing; lock- and gun-smithing; lumber, planed; mantels, slate, marble, and marbleized; mineral and soda waters; models and patterns; musical instruments, organs and materials; needles and pins; pens, gold; pumps; roofing and roofing materials; rubber and elastic goods; shirts; show-cases; silk and silk goods; spectacles and eyeglasses; stencils and brands; stereotyping and electrotyping; tools; toys and games; upholstering; varnish; watches; wire; wirework; wood pulp; woolen goods; and worsted goods.

### CITY OF SPRINGFIELD, OHIO.

[Statistics collected under the direction of J. MILTON BENSON, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 170 | $7,255,953 | 3,741 | 47 | 182 | $1,037,212 | $4,550,569 | $8,462,443 |
| Agricultural implements | 13 | 5,773,000 | 2,284 | ..... | 95 | 1,050,725 | 3,083,490 | 5,738,382 |
| Blacksmithing (see also Wheelwrighting) | 13 | 9,485 | 30 | ..... | ..... | 11,789 | 8,906 | 29,410 |
| Boots and shoes, including custom work and repairing | 8 | 14,300 | 26 | 2 | 1 | 14,000 | 10,937 | 33,850 |
| Bread and other bakery products | 9 | 24,250 | 38 | 5 | 1 | 17,268 | 48,453 | 84,100 |
| Brick and tile | 7 | 87,200 | 135 | ..... | 17 | 28,021 | 12,027 | 65,445 |
| Carpentering | 22 | 22,800 | 106 | ..... | ..... | 49,369 | 105,574 | 177,957 |
| Clothing, men's | 7 | 33,500 | 38 | 26 | ..... | 29,000 | 57,488 | 110,000 |
| Flouring- and grist-mill products | 9 | 171,000 | 33 | ..... | ..... | 13,762 | 331,894 | 368,662 |
| Foundery and machine-shop products | 8 | 172,100 | 251 | ..... | 20 | 77,616 | 155,376 | 431,730 |
| Lime | 5 | 75,500 | 62 | ..... | ..... | 22,935 | 24,225 | 70,180 |
| Marble and stone work | 3 | 9,000 | 7 | ..... | ..... | 5,360 | 5,900 | 14,000 |
| Painting and paperhanging | 6 | 6,000 | 21 | ..... | ..... | 9,760 | 11,690 | 30,381 |
| Photographing | 6 | 6,400 | 12 | 2 | ..... | 6,400 | 3,200 | 13,710 |
| Printing and publishing | 5 | 137,200 | 79 | 6 | 3 | 43,800 | 77,400 | 106,852 |
| Pumps, not including steam pumps | 3 | 1,600 | 6 | ..... | ..... | 2,950 | 3,000 | 8,500 |
| Saddlery and harness | 3 | 7,400 | 17 | ..... | 1 | 8,100 | 11,200 | 26,500 |
| Tinware, copperware, and sheet-iron ware | 7 | 18,500 | 19 | ..... | 1 | 8,510 | 23,731 | 44,100 |
| Wheelwrighting (see also Blacksmithing) | 6 | 21,950 | 31 | ..... | 7 | 12,980 | 10,090 | 27,383 |
| All other industries (*a*) | 30 | 664,768 | 546 | 6 | 36 | 224,027 | 565,988 | 1,021,301 |

*a* Embracing baking and yeast powders; bookbinding and blank-book making; carriages and wagons; coffins, burial cases, and undertakers' goods; cooperage; drain and sewer pipe; electroplating; files; furniture; leather, tanned; liquors, distilled; liquors, malt; lumber, planed; lumber, sawed; masonry, brick and stone; mattresses and spring beds; oil, linseed; paper; sash, doors, and blinds; sewing machines and attachments; stencils and brands; and washing-machines and clothes-wringers.

### CITY OF SYRACUSE, N. Y.

[Statistics collected under the direction of GEORGE W. FERNALD, Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 724 | $8,186,818 | 7,513 | 2,871 | 582 | $3,042,135 | $8,544,436 | $14,695,674 |
| Baking and yeast powders | 4 | 14,000 | 11 | 4 | 2 | 4,550 | 31,000 | 43,000 |
| Baskets, rattan and willowware | 5 | 15,500 | 303 | 100 | 51 | 17,718 | 9,180 | 33,762 |
| Blacksmithing (see also Wheelwrighting) | 21 | 15,950 | 30 | ..... | ..... | 19,135 | 14,391 | 51,560 |
| Boots and shoes, including custom work and repairing | 26 | 96,775 | 227 | 140 | 31 | 93,118 | 329,103 | 495,582 |
| Bread and other bakery products | 26 | 61,494 | 69 | 10 | 9 | 21,517 | 168,819 | 231,507 |
| Brick and tile (see also Drain and sewer pipe) | 3 | 61,000 | 53 | ..... | 3 | 18,000 | 9,726 | 38,830 |
| Carpentering | 38 | 77,200 | 426 | ..... | 2 | 179,011 | 259,855 | 513,750 |
| Carriages and wagons (see also Wheelwrighting) | 18 | 125,600 | 206 | ..... | 18 | 86,591 | 163,705 | 328,574 |
| Clothing, men's | 27 | 918,300 | 829 | 1,852 | 86 | 487,271 | 1,581,888 | 2,542,433 |
| Clothing, women's | 5 | 26,200 | 5 | 101 | 3 | 17,931 | 79,030 | 106,409 |
| Confectionery | 8 | 54,500 | 36 | 6 | 2 | 15,698 | 95,632 | 126,842 |
| Cooperage | 26 | 66,200 | 218 | ..... | 3 | 54,642 | 148,289 | 232,302 |
| Cutlery and edge tools | 3 | 504,300 | 236 | ..... | 1 | 76,446 | 201,050 | 295,085 |
| Dentistry, mechanical | 17 | 26,780 | 7 | ..... | ..... | 3,160 | 8,900 | 47,560 |
| Drain and sewer pipe (see also Brick and tile) | 3 | 8,400 | 13 | ..... | ..... | 5,902 | 25,400 | 40,200 |
| Dyeing and cleaning | 5 | 4,600 | 10 | 12 | 1 | 4,462 | 2,092 | 13,949 |
| Flouring- and grist-mill products | 4 | 149,000 | 38 | ..... | ..... | 16,652 | 566,525 | 644,065 |
| Foundery and machine-shop products | 13 | 603,300 | 351 | ..... | 6 | 150,927 | 409,237 | 656,831 |
| Furniture (see also Upholstering) | 27 | 206,425 | 205 | 1 | 18 | 82,855 | 205,310 | 360,633 |
| Hairwork | 3 | 11,200 | 3 | 5 | ..... | 2,650 | 7,200 | 11,890 |
| Kindling wood | 8 | 10,400 | 14 | ..... | 2 | 3,910 | 16,950 | 25,235 |
| Liquors, malt | 8 | 539,497 | 134 | 1 | ..... | 64,594 | 327,996 | 586,295 |
| Lock- and gun-smithing | 4 | 7,000 | 8 | ..... | 1 | 4,200 | 6,050 | 14,200 |
| Looking-glass and picture frames | 5 | 95,731 | 128 | ..... | 26 | 41,383 | 77,000 | 161,414 |
| Lumber, planed (see also Wood, turned and carved) | 6 | 118,000 | 92 | ..... | 4 | 24,311 | 53,200 | 93,300 |
| Marble and stone work | 11 | 78,800 | 102 | ..... | ..... | 58,016 | 42,220 | 124,418 |
| Masonry, brick and stone | 19 | 39,000 | 228 | ..... | 5 | 75,610 | 125,450 | 234,310 |
| Millinery and lace goods | 6 | 21,800 | 6 | 51 | ..... | 17,456 | 65,120 | 107,960 |
| Mineral and soda waters | 3 | 17,000 | 7 | ..... | ..... | 3,154 | 8,000 | 17,090 |
| Musical instruments, organs and materials | 4 | 15,600 | 57 | ..... | ..... | 11,391 | 19,083 | 36,054 |
| Painting and paperhanging | 21 | 27,960 | 100 | ..... | ..... | 34,060 | 32,950 | 91,020 |
| Patent medicines and compounds | 7 | 42,200 | 11 | 7 | 1 | 4,682 | 28,865 | 48,534 |
| Photographing | 12 | 30,750 | 29 | 9 | ..... | 12,732 | 10,756 | 41,570 |
| Plumbing and gasfitting | 10 | 51,600 | 57 | ..... | 3 | 20,647 | 71,978 | 114,933 |
| Printing and publishing | 13 | 287,000 | 197 | 19 | 28 | 115,038 | 83,792 | 246,152 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF SYRACUSE, N. Y.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Roofing and roofing materials | 12 | $17,525 | 36 | ..... | 3 | $16,950 | $34,700 | $65,000 |
| Saddlery and harness | 13 | 22,000 | 39 | ..... | 3 | 15,042 | 39,807 | 73,785 |
| Salt | 41 | 1,106,581 | 530 | 11 | 23 | 140,310 | 308,9[illegible]1 | 626,187 |
| Salt, ground | 4 | 220,200 | 130 | 38 | ..... | 31,897 | 218,943 | 266,906 |
| Shirts | 7 | 26,950 | 24 | 153 | 11 | 43,877 | 44,366 | 150,580 |
| Slaughtering and meat-packing, not including retail butchering | 8 | 221,000 | 64 | ..... | ..... | 22,126 | 518,590 | 620,918 |
| Soap and candles | 4 | 94,000 | 21 | ..... | 2 | 8,700 | 70,979 | 101,540 |
| Tinware, copperware, and sheet-iron ware | 22 | 64,850 | 112 | 1 | 5 | 37,521 | 87,600 | 156,519 |
| Tobacco, cigars and cigarettes | 55 | 256,830 | 532 | 77 | 77 | 248,542 | 407,843 | 847,093 |
| Upholstering (see also Furniture) | 6 | 21,250 | 20 | 5 | 3 | 11,376 | 33,080 | 58,100 |
| Vinegar | 3 | 27,000 | 13 | ..... | ..... | 3,300 | 11,800 | 24,300 |
| Watch and clock repairing | 16 | 8,050 | 23 | ..... | ..... | 14,128 | 4,075 | 30,050 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 13 | 11,800 | 26 | 1 | 1 | 9,906 | 11,140 | 30,317 |
| Wood, turned and carved (see also Lumber, planed) | 6 | 22,650 | 41 | ..... | 2 | 12,573 | 17,148 | 37,081 |
| All other industries (*a*) | 95 | 1,628,070 | 1,447 | 267 | 146 | 576,527 | 1,457,822 | 2,847,443 |

*a* Embracing agricultural implements; awnings and tents; belting and hose, leather; billiard tables and materials; bookbinding and blank-book making; boxes, cigar; boxes, fancy and paper; brass castings; brooms and brushes; carriage and wagon materials; celluloid and celluloid goods; cheese and butter (factory); coffee, roasted and ground; coffins, burial cases, and undertakers' goods; coppersmithing; dentists' materials; electroplating; engraving, steel; engraving, wood; fertilizers; files; fire-arms; fruits and vegetables, canned and preserved; furnishing goods, men's; furs, dressed; glass; glue; gunpowder; hand-knit goods; hand-stamps; hardware; hardware, saddlery; hats and caps; hones and whetstones; iron and steel; iron bolts, nuts, washers, and rivets; instruments, professional and scientific; jewelry; lasts; lead, bar, pipe, sheet, and shot; leather, curried; leather, tanned; lime; lithographing; lumber, sawed; matches; mattresses and spring beds; models and patterns; musical instruments and materials (not specified); musical instruments, pianos and materials; paints; paving materials; pens, gold; pickles, preserves, and sauces; pipes, tobacco; pumps; refrigerators; sash, doors, and blinds; saws; scales and balances; shipbuilding; silverware; stamped ware; stencils and brands; stone- and earthen-ware; tobacco, chewing, smoking, and snuff; umbrellas and canes; whips; wirework; and wooden ware.

### CITY OF TAUNTON, MASS.

[Statistics collected under the direction of DANIEL L. MITCHELL, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 148 | $4,086,134 | 3,585 | 898 | 671 | $2,083,185 | $4,272,451 | $7,618,953 |
| Blacksmithing (see also Wheelwrighting) | 16 | 11,650 | 15 | ..... | ..... | 4,734 | 7,540 | 23,019 |
| Boots and shoes, including custom work and repairing | 7 | 2,350 | 9 | ..... | ..... | 4,200 | 4,325 | 12,350 |
| Brick and tile | 10 | 207,100 | 184 | ..... | 1 | 57,949 | 27,737 | 145,792 |
| Bread and other bakery products | 3 | 6,000 | 16 | 3 | 2 | 7,500 | 27,000 | 43,500 |
| Carpentering | 5 | 6,600 | 26 | ..... | ..... | 9,766 | 17,960 | 37,400 |
| Clothing, men's | 4 | 22,500 | 7 | 26 | ..... | 10,750 | 27,200 | 44,500 |
| Cotton goods | 8 | 690,000 | 459 | 514 | 518 | 391,190 | 995,200 | 1,856,881 |
| Flouring- and grist-mill products | 3 | 23,500 | 9 | ..... | ..... | 3,803 | 140,635 | 161,922 |
| Foundery and machine-shop products | 16 | 1,099,300 | 1,231 | 3 | ..... | 690,107 | 870,778 | 1,725,826 |
| Iron nails and spikes, cut and wrought | 5 | 560,000 | 277 | 158 | 93 | 208,770 | 649,577 | 938,375 |
| Lumber, sawed | 4 | 34,000 | 48 | ..... | 3 | 16,900 | 22,100 | 51,500 |
| Marble and stone work | 3 | 5,884 | 12 | ..... | ..... | 5,942 | 3,941 | 14,598 |
| Painting and paperhanging | 4 | 6,700 | 19 | ..... | ..... | 8,500 | 3,200 | 15,500 |
| Plumbing and gasfitting | 3 | 5,100 | 7 | ..... | ..... | 3,600 | 6,150 | 13,000 |
| Saddlery and harness | 5 | 5,600 | 7 | ..... | ..... | 2,650 | 4,950 | 11,850 |
| Tinware, copperware, and sheet-iron ware | 5 | 26,000 | 13 | ..... | 1 | 6,380 | 8,800 | 20,400 |
| Wheelwrighting (see also Blacksmithing) | 9 | 9,300 | 11 | ..... | ..... | 3,625 | 6,500 | 19,250 |
| All other industries (*a*) | 38 | 1,364,550 | 1,235 | 194 | 48 | 646,819 | 1,448,858 | 2,483,200 |

*a* Embracing agricultural implements; baskets, rattan and willow ware; blacking; brass castings; brass and copper, rolled; buttons; carriages and wagons; coffins, burial cases, and undertakers' goods; crucibles; cutlery and edge tools; drugs and chemicals; enameled goods; files; housefurnishing goods; iron and steel; masonry, brick and stone; mattresses and spring beds; mineral and soda waters; models and patterns; patent medicines and compounds; plated and britannia ware; printing and publishing; sash, doors, and blinds; slaughtering and meat-packing; stencils and brands; stone- and earthen-ware; tobacco, cigars and cigarettes; upholstering; and wood, turned and carved.

### CITY OF TERRE HAUTE, IND.

[Statistics collected under the direction of JOSEPH B. GADDES, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 224 | $2,566,750 | 3,090 | 144 | 142 | $1,406,352 | $6,743,719 | $9,185,246 |
| Blacksmithing (see also Wheelwrighting) | 10 | 9,900 | 30 | ..... | 1 | 9,110 | 13,183 | 35,805 |
| Boots and shoes, including custom work and repairing | 30 | 17,725 | 41 | ..... | 1 | 13,675 | 23,045 | 59,127 |
| Brick and tile | 9 | 35,200 | 116 | ..... | 6 | 21,100 | 21,125 | 51,975 |
| Carpentering | 25 | 45,000 | 132 | ..... | 1 | 52,245 | 133,005 | 235,400 |
| Carriages and wagons (see also Wheelwrighting) | 4 | 40,000 | 65 | ..... | 1 | 30,250 | 58,500 | 105,000 |
| Confectionery | 3 | 14,000 | 26 | ..... | 6 | 9,400 | 36,950 | 52,700 |
| Cooperage | 8 | 35,800 | 195 | ..... | ..... | 65,760 | 146,150 | 230,000 |
| Flouring- and grist-mill products | 9 | 583,500 | 172 | ..... | ..... | 70,152 | 2,708,395 | 2,908,557 |
| Foundery and machine-shop products | 6 | 122,000 | 141 | ..... | 14 | 66,863 | 109,100 | 210,500 |
| Iron and steel | 3 | 355,000 | 495 | ..... | 50 | 337,925 | 788,300 | 1,221,968 |
| Lumber, sawed | 5 | 181,000 | 146 | ..... | 13 | 50,500 | 187,800 | 290,320 |
| Marble and stone work | 6 | 19,500 | 42 | ..... | ..... | 12,584 | 21,775 | 52,570 |
| Masonry, brick and stone | 5 | 4,800 | 56 | ..... | ..... | 19,040 | 29,700 | 56,550 |
| Painting and paperhanging | 9 | 4,025 | 41 | ..... | ..... | 9,870 | 15,500 | 35,658 |
| Plumbing and gasfitting | 4 | 13,600 | 6 | ..... | ..... | 4,450 | 9,500 | 23,020 |
| Printing and publishing | 8 | 37,000 | 75 | 6 | 21 | 42,380 | 23,620 | 86,700 |
| Pumps, not including steam pumps | 4 | 7,200 | 16 | ..... | 1 | 5,000 | 6,880 | 18,500 |
| Saddlery and harness | 8 | 30,900 | 40 | ..... | 1 | 17,052 | 40,541 | 69,340 |
| Tinware, copperware, and sheet-iron ware | 10 | 66,100 | 65 | ..... | ..... | 24,300 | 108,000 | 171,700 |
| Tobacco, cigars and cigarettes | 14 | 29,000 | 103 | ..... | 5 | 40,500 | 38,640 | 106,397 |
| Watch and clock repairing | 5 | 12,700 | 13 | ..... | 1 | 6,200 | 3,900 | 19,000 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 3 | 400 | ..... | ..... | ..... | ..... | 615 | 2,005 |
| All other industries (*a*) | 36 | 902,400 | 1,074 | 138 | 20 | 498,496 | 2,219,405 | 3,142,394 |

*a* Embracing boxes, cigar; brass castings; brooms and brushes; carpets, rag; carriage and wagon materials; cars, railroad, street, and repairs; clothing, men's; coffee and spices, roasted and ground; coppersmithing; files; furniture; hones and whetstones; iron nails and spikes, cut and wrought; liquors, distilled; liquors, malt; lock- and gun-smithing; looking-glass and picture frames; lumber, planed; mattresses and spring beds; mineral and soda waters; musical instruments and materials (not specified); scales and balances; shirts; slaughtering and meat-packing; stencils and brands; and woolen goods.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF TOLEDO, OHIO.

[Statistics collected under the direction of JOHN W. HIETT, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 440 | $5,534,285 | 5,028 | 1,020 | 690 | $2,260,456 | $6,355,399 | $10,600,074 |
| Blacksmithing (see also Wheelwrighting) | 30 | 33,565 | 65 | ..... | ..... | 30,875 | 24,295 | 69,045 |
| Boots and shoes, including custom work and repairing | 26 | 44,750 | 103 | 20 | 1 | 57,203 | 94,672 | 181,488 |
| Bread and other bakery products | 19 | 100,300 | 96 | 19 | 14 | 43,980 | 182,274 | 277,060 |
| Brick and tile | 3 | 39,000 | 95 | ..... | 17 | 24,000 | 12,950 | 47,000 |
| Brooms and brushes | 3 | 26,100 | 34 | 70 | 102 | 14,050 | 14,740 | 36,000 |
| Carpentering | 32 | 90,800 | 243 | 10 | 10 | 90,005 | 227,520 | 356,770 |
| Clothing, men's | 16 | 205,200 | 156 | 210 | 1 | 99,200 | 248,690 | 409,580 |
| Clothing, women's | 3 | 51,000 | 19 | 240 | 40 | 49,150 | 143,000 | 225,000 |
| Coffee and spices, roasted and ground | 3 | 69,000 | 33 | 9 | ..... | 17,475 | 201,000 | 240,000 |
| Cooperage | 8 | 72,700 | 93 | ..... | 40 | 42,045 | 65,695 | 139,731 |
| Drugs and chemicals | 4 | 43,000 | 26 | ..... | 6 | 7,550 | 71,925 | 101,060 |
| Flouring- and grist-mill products | 6 | 129,500 | 50 | ..... | ..... | 23,000 | 562,500 | 619,720 |
| Foundery and machine-shop products | 13 | 267,000 | 257 | ..... | 15 | 104,667 | 227,036 | 447,750 |
| Furniture (see also Upholstering) | 9 | 158,020 | 141 | 6 | ..... | 45,490 | 77,450 | 152,100 |
| Hats and caps, not including wool hats | 3 | 17,000 | 7 | 117 | ..... | 14,920 | 11,006 | 33,740 |
| Liquors, malt | 4 | 450,000 | 245 | ..... | ..... | 107,351 | 463,200 | 827,164 |
| Looking-glass and picture frames | 6 | 104,900 | 88 | ..... | 22 | 34,419 | 82,143 | 138,189 |
| Lumber, planed (see also Sash, doors, and blinds) | 3 | 18,500 | 20 | ..... | ..... | 7,295 | 16,550 | 32,500 |
| Lumber, sawed | 5 | 428,000 | 229 | ..... | 20 | 83,900 | 457,000 | 622,150 |
| Marble and stone work | 9 | 52,750 | 67 | ..... | ..... | 26,920 | 38,300 | 86,500 |
| Masonry, brick and stone | 9 | 26,600 | 66 | ..... | ..... | 20,500 | 26,500 | 55,160 |
| Mineral and soda waters | 4 | 30,000 | 34 | ..... | 3 | 8,334 | 15,010 | 34,800 |
| Painting and paperhanging | 17 | 17,200 | 80 | ..... | 2 | 31,635 | 27,470 | 72,375 |
| Photographing | 8 | 14,100 | 24 | 7 | 1 | 11,373 | 5,780 | 29,810 |
| Plumbing and gasfitting | 5 | 24,800 | 37 | ..... | 1 | 16,014 | 40,350 | 66,325 |
| Printing and publishing | 16 | 353,700 | 241 | 30 | 50 | 141,322 | 180,169 | 401,616 |
| Roofing and roofing materials | 4 | 9,000 | 19 | ..... | ..... | 7,725 | 9,300 | 20,000 |
| Saddlery and harness | 11 | 25,250 | 51 | ..... | ..... | 23,655 | 42,375 | 77,275 |
| Sash, doors, and blinds (see also Lumber, planed) | 7 | 336,300 | 439 | ..... | 100 | 178,540 | 344,000 | 621,519 |
| Shipbuilding | 6 | 53,050 | 79 | ..... | ..... | 43,850 | 46,450 | 100,300 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 86,000 | 46 | ..... | ..... | 17,200 | 278,393 | 333,600 |
| Tinware, copperware, and sheet-iron ware | 20 | 58,400 | 75 | 6 | 38 | 40,255 | 95,780 | 171,270 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 3 | 240,000 | 51 | 114 | 86 | 118,042 | 384,383 | 751,000 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 22 | 41,950 | 128 | 24 | 24 | 59,417 | 61,195 | 196,223 |
| Upholstering (see also Furniture) | 4 | 8,200 | 17 | 2 | 4 | 7,450 | 28,400 | 41,141 |
| Watch and clock repairing | 8 | 6,200 | 18 | ..... | ..... | 8,075 | 5,650 | 20,700 |
| Wheelwrighting (see also Blacksmithing) | 7 | 14,600 | 26 | ..... | 1 | 10,300 | 7,650 | 22,050 |
| Wirework | 3 | 7,000 | 23 | 1 | 1 | 8,200 | 10,000 | 22,200 |
| All other industries (a) | 78 | 1,780,250 | 1,507 | 126 | 82 | 583,805 | 1,524,598 | 2,519,254 |

a Embracing agricultural implements; awnings and tents; bookbinding and blank-book making; boxes, cigar; boxes, fancy and paper; boxes, wooden, packing; brass castings; bridges; carpets, rag; carpets, wood; carriage and wagon materials; carriages and sleds, children's; carriages and wagons; corsets; cutlery and edge tools; dentistry, mechanical; dentists' materials; electroplating; fertilizers; fruits and vegetables, canned and preserved; furnishing goods, men's; hairwork; housefurnishing goods; instruments, professional and scientific; iron and steel; iron railing, wrought; iron work, architectural and ornamental; kindling wood; leather, curried; leather, tanned; lime; models and patterns; oil, castor; oil, linseed; paints; perfumery and cosmetics; pumps; refrigerators; saws; sewing machines and attachments; show-cases; soap and candles; stencils and brands; stereotyping and electrotyping; stone- and earthen-ware; surgical appliances; trunks and valises; umbrellas and canes; varnish; vinegar; wheelbarrows; window blinds and shades; wooden ware; and woolen goods.

### CITY OF TRENTON, N. J.

[Statistics collected under the direction of THOMAS F. FITZGERALD, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 404 | $6,966,830 | 6,601 | 1,084 | 1,127 | $3,150,119 | $7,421,399 | $12,712,762 |
| Bags, paper | 4 | 13,550 | 15 | 22 | ..... | 7,070 | 26,050 | 46,825 |
| Blacksmithing (see also Wheelwrighting) | 16 | 3,570 | 20 | ..... | ..... | 3,003 | 6,362 | 28,540 |
| Boots and shoes, including custom work and repairing | 39 | 119,710 | 500 | 15 | 1 | 100,550 | 406,745 | 570,007 |
| Boxes, wooden, packing | 5 | 2,500 | 9 | ..... | 1 | 3,170 | 2,550 | 9,000 |
| Bread and other bakery products | 29 | 113,800 | 86 | 1 | 64 | 55,509 | 231,574 | 379,138 |
| Brick and tile | 3 | 145,000 | 120 | ..... | 16 | 33,500 | 33,475 | 109,000 |
| Brooms and brushes | 4 | 600 | 4 | ..... | ..... | 1,166 | 1,887 | 5,400 |
| Carpentering | 18 | 69,850 | 175 | ..... | 2 | 71,654 | 227,800 | 348,550 |
| Carpet, rag | 5 | 1,325 | 6 | ..... | ..... | 1,514 | 5,000 | 9,000 |
| Carriages and wagons (see also Wheelwrighting) | 5 | 47,500 | 54 | ..... | 2 | 23,400 | 38,800 | 80,100 |
| Clothing, men's | 16 | 80,000 | 81 | 108 | 2 | 60,360 | 140,200 | 252,100 |
| Coffins, burial cases, and undertakers' goods | 3 | 8,300 | 7 | 1 | ..... | 3,784 | 6,200 | 14,100 |
| Confectionery | 8 | 11,750 | 15 | 7 | 7 | 7,008 | 31,017 | 47,225 |
| Cooperage | 3 | 4,700 | 12 | ..... | ..... | 4,050 | 8,800 | 17,800 |
| Drugs and chemicals | 3 | 12,700 | 11 | ..... | ..... | 4,568 | 17,300 | 32,000 |
| Dyeing and cleaning | 3 | 1,450 | 2 | 2 | 1 | 2,100 | 2,600 | 7,500 |
| Flouring- and grist-mill products | 5 | 64,000 | 18 | ..... | ..... | 7,769 | 130,445 | 153,532 |
| Foundery and machine-shop products | 8 | 51,200 | 250 | ..... | 1 | 99,761 | 163,408 | 291,789 |
| Furniture (see also Upholstering) | 8 | 25,300 | 28 | ..... | 5 | 16,012 | 12,700 | 39,500 |
| Iron and steel | 3 | 1,945,550 | 1,361 | ..... | 30 | 518,325 | 1,371,245 | 2,340,381 |
| Iron forgings | 3 | 102,741 | 129 | ..... | 27 | 51,666 | 85,068 | 164,302 |
| Iron railing, wrought | 3 | 950 | 2 | ..... | 1 | 625 | 1,700 | 3,750 |
| Lumber, planed | 3 | 28,000 | 15 | ..... | 7 | 7,050 | 15,900 | 33,000 |
| Marble and stone work | 12 | 70,025 | 56 | ..... | 3 | 35,550 | 37,208 | 99,690 |
| Masonry, brick and stone | 12 | 25,750 | 182 | ..... | ..... | 61,280 | 89,900 | 190,750 |
| Painting and paperhanging | 25 | 11,225 | 48 | ..... | 1 | 19,252 | 17,281 | 60,800 |
| Photographing | 6 | 5,900 | 7 | 3 | ..... | 4,528 | 3,900 | 17,800 |
| Plumbing and gasfitting | 7 | 12,375 | 19 | ..... | ..... | 8,663 | 18,000 | 33,400 |
| Printing and publishing | 6 | 142,000 | 182 | 6 | 20 | 80,744 | 83,018 | 220,594 |
| Roofing and roofing materials | 4 | 2,800 | 14 | ..... | ..... | 4,600 | 13,900 | 27,800 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF TRENTON, N. J.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Saddlery and harness | 6 | $11,000 | 12 | ..... | ..... | $6,256 | $17,422 | $34,000 |
| Slaughtering and meat-packing, not including retail butchering | 3 | 201,000 | 54 | ..... | ..... | 13,156 | 533,458 | 590,197 |
| Stone- and earthen-ware | 29 | 1,902,500 | 1,792 | 441 | 634 | 983,177 | 950,243 | 2,341,337 |
| Tinware, copperware, and sheet-iron ware | 9 | 13,250 | 29 | ..... | ..... | 13,244 | 19,920 | 44,950 |
| Tobacco, cigars and cigarettes | 21 | 12,900 | 42 | 1 | 4 | 17,669 | 20,514 | 50,009 |
| Upholstering (see also Furniture) | 3 | 8,500 | 9 | 5 | 2 | 4,950 | 19,500 | 29,000 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 12 | 3,100 | 3 | ..... | 2 | 1,165 | 3,750 | 12,800 |
| Woolen goods | 3 | 526,000 | 216 | 227 | 115 | 171,400 | 574,610 | 854,297 |
| All other industries (*a*) | 49 | 1,103,559 | 1,147 | 245 | 179 | 634,353 | 2,051,349 | 3,114,543 |

*a* Embracing agricultural implements; belting and hose, leather; bookbinding and blank-book making; boot and shoe findings; boxes, cigar; boxes, fancy and paper; brass castings; bridges; carriage and wagon materials; coffee and spices, roasted and ground; cotton goods; cutlery and edge tools; engraving and die-sinking; fertilizers; fruits and vegetables, canned and preserved; glue; grease and tallow; hardware; jewelry; kaolin and ground earths; kindling wood; lime; liquors, malt; lock- and gun-smithing; looking-glass and picture frames; lumber, sawed; mineral and soda waters; musical instruments and materials (not specified); patent medicines and compounds; pumps; rubber and elastic goods; sash, doors, and blinds; shipbuilding; shirts; soap and candles; wire; and wood, turned and carved.

### CITY OF TROY, N. Y.

[Statistics collected under the direction of F. E. WADHAMS, Chief Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 514 | $13,418,853 | 10,337 | 11,115 | 982 | $6,745,874 | $13,443,284 | $26,407,163 |
| Blacksmithing (see also Wheelwrighting) | 19 | 12,200 | 35 | ..... | ..... | 17,615 | 12,496 | 47,050 |
| Boots and shoes, including custom work and repairing | 24 | 112,350 | 118 | 2 | ..... | 46,421 | 68,375 | 153,916 |
| Boxes, fancy and paper | 5 | 41,100 | 37 | 151 | 2 | 57,033 | 96,742 | 176,730 |
| Bread and other bakery products | 23 | 79,260 | 111 | 4 | 1 | 58,646 | 233,515 | 358,013 |
| Brick and tile | 6 | 139,500 | 157 | ..... | 11 | 53,077 | 70,948 | 172,000 |
| Brooms and brushes | 3 | 11,500 | 30 | 1 | 11 | 11,793 | 25,500 | 44,022 |
| Carpentering | 23 | 48,300 | 203 | ..... | 1 | 105,524 | 152,031 | 307,533 |
| Carriages and wagons (see also Wheelwrighting) | 3 | 8,500 | 32 | ..... | ..... | 16,262 | 20,000 | 41,350 |
| Clothing, men's | 29 | 210,550 | 241 | 145 | ..... | 185,785 | 354,415 | 685,436 |
| Clothing, women's | 5 | 26,000 | 10 | 119 | ..... | 17,740 | 66,300 | 95,596 |
| Coffee and spices, roasted and ground | 3 | 60,000 | 26 | ..... | ..... | 14,444 | 88,820 | 130,704 |
| Coffins, burial cases, and undertakers' goods | 7 | 22,300 | 20 | ..... | ..... | 10,214 | 23,450 | 45,150 |
| Confectionery | 8 | 28,300 | 32 | 15 | ..... | 21,343 | 80,688 | 136,206 |
| Dentistry, mechanical | 5 | 3,650 | 2 | ..... | ..... | 1,322 | 3,487 | 14,559 |
| Electroplating | 3 | 27,000 | 76 | 1 | 4 | 22,726 | 18,500 | 56,719 |
| Flouring- and grist-mill products | 4 | 133,200 | 30 | ..... | 1 | 18,402 | 326,774 | 367,855 |
| Foundery and machine-shop products | 32 | 2,428,700 | 2,297 | ..... | 97 | 1,244,550 | 1,189,373 | 3,228,848 |
| Furnishing goods, men's | 18 | 830,000 | 384 | 4,036 | 100 | 918,932 | 1,123,147 | 2,630,614 |
| Furniture (see also Upholstering) | 3 | 18,700 | 42 | 3 | ..... | 21,000 | 26,400 | 65,900 |
| Hosiery and knit goods | 5 | 144,000 | 114 | 217 | 35 | 80,800 | 181,883 | 391,330 |
| Iron and steel | 4 | 4,550,000 | 3,857 | ..... | 495 | 1,657,396 | 4,618,802 | 8,702,189 |
| Kindling wood | 10 | 11,800 | 21 | ..... | 1 | 7,456 | 14,820 | 29,270 |
| Liquors, malt | 10 | 809,750 | 202 | ..... | ..... | 99,419 | 500,349 | 895,883 |
| Looking-glass and picture frames | 4 | 18,600 | 20 | ..... | 1 | 11,062 | 34,891 | 57,310 |
| Marble and stone work | 9 | 46,900 | 55 | ..... | ..... | 26,153 | 27,478 | 69,455 |
| Masonry, brick and stone | 10 | 23,500 | 149 | ..... | ..... | 45,260 | 83,200 | 183,159 |
| Mineral and soda waters | 4 | 59,500 | 39 | ..... | 1 | 19,959 | 53,414 | 80,726 |
| Models and patterns | 8 | 63,971 | 90 | 1 | ..... | 42,089 | 17,114 | 99,200 |
| Painting and paperhanging | 18 | 33,554 | 109 | ..... | ..... | 53,253 | 32,307 | 112,600 |
| Paper | 4 | 535,465 | 110 | 51 | 10 | 57,989 | 373,033 | 540,823 |
| Photographing | 6 | 17,600 | 11 | 3 | ..... | 5,644 | 7,200 | 25,978 |
| Plumbing and gasfitting | 8 | 58,500 | 74 | ..... | 8 | 43,247 | 85,700 | 155,280 |
| Printing and publishing | 14 | 245,838 | 218 | 3 | 9 | 123,028 | 103,697 | 310,700 |
| Saddlery and harness | 12 | 22,400 | 38 | ..... | 3 | 15,804 | 25,871 | 65,702 |
| Shirts | 16 | 874,000 | 255 | 6,217 | 31 | 992,084 | 1,379,319 | 2,910,591 |
| Slaughtering and meat-packing, not including retail butchering | 6 | 98,000 | 42 | ..... | 3 | 17,580 | 192,383 | 259,101 |
| Tinware, copperware, and sheet-iron ware | 17 | 88,400 | 82 | ..... | 5 | 33,733 | 62,750 | 124,660 |
| Tobacco, cigars and cigarettes | 32 | 165,025 | 240 | ..... | 53 | 132,586 | 200,842 | 406,661 |
| Upholstering (see also Furniture) | 5 | 14,000 | 20 | 2 | ..... | 11,628 | 21,000 | 43,050 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 13 | 18,200 | 28 | ..... | 1 | 13,605 | 13,827 | 42,526 |
| Wood, turned and carved | 7 | 13,260 | 15 | ..... | 2 | 7,159 | 4,293 | 19,967 |
| All other industries (*a*) | 69 | 1,260,600 | 665 | 144 | 96 | 395,311 | 1,428,590 | 2,191,752 |

*a* Embracing awnings and tents; babbitt metal and solder; baking and yeast powders; bells; belting and hose, leather; bookbinding and blank-book making; boxes, cigar; boxes, wooden, packing; brass castings; carriage and wagon materials; collars and cuffs, paper; cooperage; cordage and twine; corsets; cotton goods; cutlery and edge tools; drain and sewer pipe; drugs and chemicals; dyeing and cleaning; engraving and die-sinking; files; grease and tallow; hairwork; hand-stamps; hardware; hardware, saddlery; hats and caps; instruments, professional and scientific; iron forgings; iron railing, wrought; iron work, architectural and ornamental; japanning; leather, curried; lime; lock- and gun-smithing; lumber, planed; malt; mantels, slate, marble, and marbleized; millstones; mixed textiles; paints; refrigerators; regalia and society banners and emblems; roofing and roofing materials; sash, doors, and blinds; silk and silk goods; springs, steel, car, and carriage; stencils and brands; varnish; vinegar; watch and clock repairing; wire; and wirework.

### CITY OF UTICA, N. Y.

[Statistics collected under the direction of A. B. NORTHUP, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 317 | $5,905,635 | 3,752 | 2,620 | 338 | $1,917,657 | $5,180,598 | $8,873,300 |
| Blacksmithing (see also Wheelwrighting) | 13 | 6,975 | 13 | ..... | ..... | 4,950 | 8,775 | 21,700 |
| Bookbinding and blank-book making | 4 | 13,000 | 14 | 9 | 1 | 7,690 | 5,225 | 18,707 |
| Boots and shoes, including custom work and repairing | 29 | 587,600 | 437 | 308 | 51 | 257,489 | 710,582 | 1,125,724 |
| Bread and other bakery products | 9 | 61,100 | 46 | 7 | 11 | 18,722 | 81,380 | 113,494 |
| Carpentering | 27 | 29,550 | 107 | ..... | ..... | 48,684 | 76,150 | 151,425 |
| Carriages and wagons (see also Wheelwrighting) | 3 | 38,000 | 38 | ..... | ..... | 15,220 | 18,500 | 47,000 |
| Clothing, men's | 20 | 931,300 | 941 | 1,537 | ..... | 453,625 | 1,391,297 | 2,256,375 |
| Clothing, women's | 4 | 15,500 | 3 | 38 | ..... | 5,947 | 25,700 | 42,500 |
| Confectionery | 4 | 14,000 | 12 | 4 | 3 | 6,200 | 25,400 | 44,400 |
| Cooperage | 3 | 1,800 | 3 | ..... | ..... | 900 | 1,750 | 3,900 |
| Flouring- and grist-mill products | 3 | 35,000 | 8 | ..... | ..... | 2,475 | 104,140 | 113,182 |
| Foundery and machine-shop products | 9 | 589,300 | 445 | 3 | 5 | 180,681 | 247,300 | 537,721 |
| Furniture (see also Upholstering) | 7 | 82,000 | 60 | 2 | 4 | 28,280 | 53,000 | 107,000 |
| Liquors, malt | 6 | 160,660 | 50 | ..... | ..... | 23,655 | 120,550 | 219,000 |
| Looking-glass and picture frames | 5 | 14,500 | 12 | ..... | ..... | 5,174 | 22,300 | 38,000 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF UTICA, N. Y.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Marble and stone work | 9 | $38,500 | 55 | | | $21,200 | $38,800 | $77,600 |
| Masonry, brick and stone | 9 | 15,950 | 155 | | | 54,780 | 49,150 | 121,200 |
| Painting and paperhanging | 13 | 11,300 | 44 | | 2 | 24,000 | 30,400 | 71,900 |
| Plumbing and gasfitting | 4 | 37,000 | 37 | | 1 | 11,925 | 68,000 | 113,000 |
| Printing and publishing | 8 | 216,500 | 142 | | | 76,065 | 55,378 | 197,007 |
| Saddlery and harness | 6 | 12,200 | 13 | | | 5,625 | 13,100 | 26,800 |
| Sash, doors, and blinds | 4 | 136,000 | 153 | | | 61,111 | 187,496 | 305,078 |
| Shirts | 7 | 5,300 | 2 | 28 | | 8,600 | 10,900 | 27,400 |
| Soap and candles | 3 | 24,000 | 8 | | | 3,408 | 35,202 | 46,424 |
| Tinware, copperware, and sheet-iron ware | 18 | 60,550 | 54 | | 2 | 23,312 | 65,175 | 117,100 |
| Tobacco, chewing, smoking, and snuff (see also Tobacco, cigars and cigarettes). | 3 | 315,000 | 46 | 7 | 33 | 23,000 | 140,900 | 196,315 |
| Tobacco, cigars and cigarettes (see also Tobacco, chewing, smoking, and snuff). | 12 | 67,500 | 63 | 4 | 9 | 30,530 | 54,550 | 104,750 |
| Upholstering (see also Furniture) | 3 | 6,100 | 5 | | | 1,820 | 6,800 | 11,750 |
| Watch and clock repairing | 10 | 23,600 | 19 | | | 9,275 | 13,100 | 33,300 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 10 | 16,400 | 18 | | | 6,608 | 10,025 | 26,400 |
| All other industries (*a*) | 52 | 2,339,450 | 749 | 673 | 216 | 496,046 | 1,509,483 | 2,557,204 |

*a* Embracing awnings and tents; belting and hose, leather; boxes, cigar; boxes, wooden, packing; brass castings; brick and tile; brooms and brushes; cement; coffee and spices, roasted and ground; cordage and twine; cotton goods; drain and sewer pipe; drugs and chemicals; electroplating; engraving, wood; files; furs, dressed; glass, cut, stained, and ornamented; gloves and mittens; hairwork; hosiery and knit goods; iron work, architectural and ornamental; lamps and reflectors; lime; liquors, distilled; lock- and gun-smithing; matches; mattresses and spring beds; mineral and soda waters; musical instruments, organs and materials; oilcloth, floor; perfumery and cosmetics; pumps; saws; shipbuilding; silverware; slaughtering and meat-packing; steam fittings and heating apparatus; telegraph and telephone apparatus; wood, turned and carved; wooden ware; and woolen goods.

### CITY OF WASHINGTON, D. C.

[Statistics collected under the direction of WILLIAM H. BOYD, Chief Special Agent. See note on page 379.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 971 | $5,552,526 | 5,496 | 1,389 | 261 | $3,924,612 | $5,365,400 | $11,882,316 |
| Awnings and tents | 3 | 2,050 | 4 | 6 | | 3,581 | 4,043 | 13,924 |
| Blacksmithing (see also Wheelwrighting) | 77 | 31,165 | 118 | | 1 | 45,408 | 39,474 | 146,219 |
| Bookbinding and blank-book making | 4 | 4,200 | 9 | 1 | 2 | 4,332 | 2,280 | 10,731 |
| Boots and shoes, including custom work and repairing | 73 | 49,220 | 66 | 1 | 2 | 31,111 | 42,225 | 127,107 |
| Brass castings | 3 | 132,038 | 61 | | | 22,087 | 67,152 | 96,769 |
| Bread and other bakery products | 63 | 120,340 | 164 | 7 | 8 | 73,148 | 400,608 | 606,236 |
| Brick and tile | 16 | 330,600 | 576 | | 120 | 123,161 | 62,575 | 314,298 |
| Carpentering | 58 | 48,145 | 245 | | 8 | 135,626 | 247,006 | 486,702 |
| Carriages and wagons (see also Wheelwrighting) | 25 | 173,792 | 149 | | 5 | 69,496 | 53,277 | 183,205 |
| Clothing, men's | 35 | 104,550 | 157 | 68 | 2 | 98,778 | 178,302 | 376,065 |
| Coffee and spices, roasted and ground | 3 | 17,600 | 14 | | | 6,356 | 84,680 | 100,020 |
| Coffins, burial cases, and undertakers' goods | 14 | 61,425 | 32 | | | 19,631 | 41,440 | 92,640 |
| Confectionery | 27 | 85,575 | 80 | 24 | 2 | 40,131 | 122,263 | 221,902 |
| Cooperage | 3 | 6,700 | 28 | | | 11,300 | 10,770 | 25,770 |
| Dentistry, mechanical | 6 | 4,975 | 6 | | | 2,632 | 5,600 | 19,200 |
| Drugs and chemicals (see also Patent medicines and compounds) | 5 | 54,000 | 25 | | 1 | 10,190 | 31,836 | 63,025 |
| Engraving and die-sinking | 3 | 3,000 | 5 | | 1 | 1,965 | 3,900 | 12,375 |
| Fertilizers | 3 | 95,000 | 87 | | | 29,600 | 156,250 | 207,250 |
| Flouring- and grist-mill products | 9 | 230,400 | 40 | | | 21,508 | 1,071,600 | 1,172,375 |
| Foundery and machine-shop products | 10 | 286,000 | 198 | | 9 | 75,102 | 155,098 | 358,166 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 19 | 46,125 | 72 | | | 30,385 | 39,005 | 113,875 |
| Grease and tallow | 3 | 25,000 | 7 | | | 3,422 | 47,918 | 69,400 |
| Hairwork | 12 | 6,600 | | 27 | | 3,276 | 6,500 | 14,800 |
| Instruments, professional and scientific | 5 | 36,100 | 14 | 2 | 1 | 13,724 | 7,750 | 37,561 |
| Iron railing, wrought | 5 | 3,275 | 11 | | | 3,912 | 4,685 | 13,408 |
| Jewelry | 11 | 19,600 | 21 | | 2 | 12,444 | 11,310 | 37,538 |
| Kindling wood | 6 | 18,465 | 28 | | 7 | 11,114 | 21,069 | 40,650 |
| Lime | 5 | 19,100 | 24 | | | 11,959 | 17,424 | 51,648 |
| Liquors, malt | 10 | 208,300 | 60 | | 4 | 30,186 | 162,739 | 275,232 |
| Lithographing (see also Printing and publishing) | 5 | 33,200 | 40 | | 8 | 23,164 | 16,860 | 52,334 |
| Lock- and gun-smithing | 6 | 11,700 | 10 | | | 5,595 | 3,745 | 13,546 |
| Looking-glass and picture frames | 10 | 15,000 | 32 | | | 16,308 | 28,706 | 65,227 |
| Lumber, planed | 10 | 96,200 | 86 | | 5 | 40,920 | 124,925 | 192,792 |
| Marble and stone work | 25 | 118,745 | 137 | | 1 | 60,490 | 91,806 | 198,699 |
| Masonry, brick and stone | 31 | 10,500 | 190 | | | 68,750 | 90,050 | 200,970 |
| Mattresses and spring beds (see also Furniture) | 3 | 8,250 | 6 | 2 | | 2,000 | 12,640 | 17,446 |
| Mineral and soda waters | 3 | 10,200 | 24 | | 8 | 13,432 | 10,100 | 33,700 |
| Models and patterns | 7 | 7,200 | 12 | | | 6,838 | 2,605 | 16,440 |
| Painting and paperhanging | 37 | 16,600 | 101 | | 2 | 50,044 | 49,387 | 143,471 |
| Patent medicines and compounds (see also Drugs and chemicals) | 5 | 5,600 | 9 | | | 7,098 | 7,200 | 20,454 |
| Paving materials | 5 | 56,000 | 259 | | | 99,500 | 171,250 | 316,500 |
| Photographing | 16 | 34,750 | 34 | 5 | | 16,291 | 10,515 | 55,551 |
| Plumbing and gasfitting | 31 | 47,750 | 129 | | 6 | 66,194 | 102,799 | 225,193 |
| Printing and publishing (see also Lithographing) | 28 | 971,800 | 1,026 | 688 | 28 | 1,478,880 | 827,519 | 2,896,312 |
| Saddlery and harness | 26 | 30,400 | 45 | | | 19,471 | 33,157 | 80,349 |
| Soap and candles | 5 | 60,966 | 22 | | 1 | 7,785 | 41,678 | 66,563 |
| Tinware, copperware, and sheet-iron ware | 42 | 66,965 | 7 | | 3 | 44,857 | 96,472 | 192,081 |
| Tobacco, cigars and cigarettes | 43 | 25,950 | 81 | | 8 | 31,628 | 45,692 | 118,318 |
| Umbrellas and canes | 5 | 1,150 | 3 | 3 | 1 | 785 | 2,070 | 6,218 |
| Upholstering (see also Furniture) | 10 | 18,550 | 25 | 5 | 1 | 12,341 | 27,016 | 56,191 |
| Watch and clock repairing | 32 | 17,460 | 40 | | 5 | 24,361 | 6,345 | 42,360 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 10 | 6,565 | 7 | | 1 | 2,252 | 3,230 | 11,323 |
| All other industries (*a*) | 60 | 1,702,785 | 795 | 550 | 13 | 871,113 | 459,354 | 1,572,703 |

*a* Embracing artificial limbs; bags, paper; baskets, rattan and willow ware; bluing; boxes, cigar; boxes, fancy and paper; brooms and brushes; carpets, rag; cars, railroad, street, and repairs; cheese and butter; clothing, women's; cordage and twine; dyeing and cleaning; electroplating; engraving, steel; engraving, wood; files; fruits and vegetables, canned and preserved; furniture, chairs; glass; glass, cut, stained, and ornamented; gloves and mittens; ink; iron and steel; iron work, architectural and ornamental; leather, curried; leather, dressed skins; leather, tanned; lumber, sawed; mantels, slate, marble, and marbleized; musical instruments and materials (not specified); oil, neat's-foot; paints; paper; perfumery and cosmetics; shirts; spectacles and eyeglasses; stationery goods; stereotyping and electrotyping; stone- and earthen-ware; taxidermy; terra-cotta ware; type founding; vinegar; wirework; and wood, turned and carved.

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF WHEELING, W. VA.

[Statistics collected under the direction of DANA L. HUBBARD, Special Agent.]

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| All industries | 227 | $4,868,288 | 4,658 | 196 | 658 | $2,192,255 | $5,203,031 | $9,259,844 |
| Baskets, rattan and willow ware | 3 | 2,200 | 3 | | | 1,580 | 1,100 | 4,700 |
| Blacksmithing | 7 | 15,200 | 14 | | | 5,820 | 5,575 | 18,721 |
| Brick and tile | 7 | 32,000 | 77 | | 18 | 11,140 | 2,064 | 24,560 |
| Carpentering | 4 | 27,000 | 25 | | | 16,450 | 46,648 | 85,700 |
| Carriages and wagons | 4 | 172,000 | 78 | | 1 | 36,234 | 54,000 | 145,000 |
| Clothing, men's | 27 | 85,000 | 160 | 10 | 15 | 47,500 | 108,000 | 220,084 |
| Confectionery | 5 | 9,050 | 18 | 2 | | 6,002 | 51,300 | 64,004 |
| Cooperage | 5 | 25,800 | 63 | | 32 | 42,608 | 38,330 | 89,000 |
| Foundery and machine-shop products | 6 | 221,500 | 198 | | 1 | 89,339 | 69,471 | 228,762 |
| Furniture | 3 | 48,000 | 103 | | 2 | 40,616 | 31,342 | 98,827 |
| Glass | 3 | 500,522 | 525 | 87 | 206 | 296,450 | 192,504 | 714,000 |
| Iron and steel | 7 | 2,214,425 | 2,327 | | 246 | 1,098,206 | 2,472,053 | 4,306,567 |
| Leather, curried | 4 | 123,200 | 58 | | | 34,800 | 377,258 | 447,972 |
| Leather, tanned | 4 | 166,000 | 61 | 1 | | 21,422 | 334,740 | 378,152 |
| Liquors, malt | 5 | 203,017 | 85 | | | 33,329 | 153,982 | 256,588 |
| Lumber, planed | 4 | 148,000 | 83 | | 2 | 38,990 | 173,500 | 237,400 |
| Marble and stone work | 3 | 14,750 | 30 | | | 12,860 | 9,600 | 33,324 |
| Masonry, brick and stone | 3 | 2,000 | 30 | | | 11,940 | 5,869 | 22,700 |
| Painting and paperhanging | 3 | 1,500 | 9 | | | 4,066 | 6,107 | 12,950 |
| Plumbing and gasfitting | 6 | 54,015 | 45 | | | 23,288 | 58,113 | 99,453 |
| Printing and publishing | 7 | 122,500 | 127 | 15 | 35 | 67,392 | 41,864 | 165,356 |
| Roofing and roofing materials | 3 | 1,200 | 6 | | 1 | 1,400 | 6,000 | 11,100 |
| Saddlery and harness | 6 | 16,100 | 18 | | | 9,572 | 23,750 | 43,450 |
| Shipbuilding | 3 | 7,500 | 9 | | | 6,850 | 16,800 | 27,550 |
| Shirts | 4 | 1,200 | | 40 | | 9,200 | 20,240 | 33,890 |
| Slaughtering and meat-packing, not including retail butchering | 4 | 97,361 | 25 | | | 11,350 | 243,440 | 270,500 |
| Tinware, copperware, and sheet-iron ware | 11 | 40,373 | 49 | | 5 | 23,393 | 49,461 | 94,405 |
| Tobacco, cigars and cigarettes | 45 | 124,965 | 232 | 3 | 10 | 86,294 | 217,521 | 366,084 |
| All other industries (a) | 31 | 391,910 | 200 | 38 | 75 | 104,065 | 302,570 | 755,775 |

a Embracing agricultural implements; baking and yeast powders; boots and shoes; boxes, fancy and paper; brass castings; bread and other bakery products; brooms and brushes; carriage and wagon materials; coffee and spices, roasted and ground; coke; dyeing and finishing textiles; files; flouring- and grist-mill products; food preparations; gloves and mittens; hardware; iron nails and spikes, cut and wrought; lamps and reflectors; lock- and gun-smithing; lumber, sawed; patent medicines and compounds; sash, doors, and blinds; soap and candles; stencils and brands; vinegar; wirework; and wheelwrighting.

### CITY OF WILKESBARRE, PA.

[Statistics collected under the direction of D. G. ALLEN, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 89 | $1,146,500 | 613 | 17 | 15 | $223,390 | $660,649 | $1,133,344 |
| Blacksmithing | 8 | 3,450 | 15 | | 1 | 4,066 | 4,760 | 16,750 |
| Bread and other bakery products | 11 | 16,050 | 41 | 7 | 2 | 12,075 | 79,002 | 121,208 |
| Carriages and wagons | 5 | 19,500 | 39 | | | 12,237 | 13,000 | 37,600 |
| Flouring- and grist-mill products | 3 | 34,000 | 14 | | | 4,480 | 65,850 | 77,200 |
| Foundery and machine-shop products | 6 | 321,950 | 226 | | | 85,851 | 153,434 | 297,600 |
| Lumber, planed | 3 | 44,000 | 15 | | | 5,100 | 13,600 | 24,600 |
| Mineral and soda waters | 3 | 15,200 | 9 | | | 3,575 | 10,500 | 28,625 |
| Plumbing and gasfitting | 3 | 77,000 | 34 | | 1 | 11,600 | 20,000 | 40,500 |
| Saddlery and harness | 7 | 22,300 | 18 | | | 6,750 | 12,620 | 27,200 |
| Tinware, copperware, and sheet-iron ware | 7 | 12,500 | 20 | | | 6,228 | 12,950 | 25,300 |
| Tobacco, cigars and cigarettes | 5 | 9,700 | 26 | | 6 | 9,254 | 17,246 | 33,208 |
| All other industries (a) | 28 | 570,850 | 156 | 10 | 5 | 61,283 | 258,197 | 411,313 |

a Embracing awnings and tents; bookbinding and blank-book making; boots and shoes; boxes, fancy and paper; brick and tile; brooms and brushes; carpentering; confectionery; liquors, malt; lock- and gun-smithing; looking-glass and picture frames; musical instruments, organs and materials; paints; printing and publishing; pumps; soap and candles; stone- and earthen-ware; tools; wheelwrighting; wire; wirework; and wood, turned and carved.

### CITY OF WILMINGTON, DEL.

[Statistics collected under the direction of JAMES B. HENRY, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 258 | $10,744,389 | 6,871 | 459 | 522 | $3,174,821 | $7,884,847 | $13,205,370 |
| Blacksmithing (see also Wheelwrighting) | 16 | 28,400 | 51 | | 2 | 23,075 | 14,780 | 56,150 |
| Boots and shoes, including custom work and repairing | 6 | 16,300 | 19 | | | 6,400 | 7,000 | 17,500 |
| Bread and other bakery products | 14 | 109,700 | 44 | 12 | 15 | 25,130 | 97,455 | 158,200 |
| Brick and tile | 3 | 85,000 | 166 | | 68 | 43,416 | 22,173 | 80,000 |
| Carpentering | 13 | 42,500 | 105 | | | 41,000 | 109,900 | 202,200 |
| Carriage and wagon materials | 6 | 108,000 | 98 | | 8 | 43,750 | 47,500 | 126,000 |
| Carriages and wagons (see also Wheelwrighting) | 12 | 415,270 | 373 | 1 | 10 | 128,056 | 263,098 | 479,007 |
| Clothing, men's | 6 | 70,500 | 52 | 30 | 1 | 25,100 | 44,600 | 86,600 |
| Coffins, burial cases, and undertakers' goods | 7 | 19,000 | 10 | | | 5,250 | 10,750 | 24,000 |
| Confectionery | 3 | 49,000 | 16 | 2 | | 5,600 | 18,000 | 35,000 |
| Cotton goods | 4 | 385,000 | 154 | 232 | 83 | 125,892 | 350,762 | 545,460 |
| Foundery and machine-shop products | 12 | 755,800 | 730 | | 49 | 260,168 | 329,472 | 671,125 |
| Furniture | 3 | 36,200 | 20 | 2 | 1 | 8,000 | 7,700 | 30,800 |
| Iron and steel | 4 | 1,109,469 | 584 | | 26 | 276,346 | 1,010,979 | 2,004,570 |
| Iron forgings | 3 | 51,000 | 53 | | | 16,350 | 57,043 | 83,782 |
| Kindling wood | 4 | 6,800 | 15 | | | 3,975 | 4,150 | 12,500 |
| Leather, dressed skins | 14 | 861,500 | 791 | 52 | 71 | 364,944 | 1,300,860 | 1,801,597 |
| Looking-glass and picture frames | 3 | 1,900 | 2 | | 1 | 1,850 | 2,400 | 6,500 |
| Marble and stone work | 3 | 27,500 | 23 | | | 8,400 | 10,000 | 22,400 |
| Masonry, brick and stone | 7 | 21,000 | 75 | | 2 | 22,500 | 103,500 | 170,000 |

## TABLE VI.—MANUFACTURES OF 100 PRINCIPAL CITIES, BY SPECIFIED INDUSTRIES: 1880.

### CITY OF WILMINGTON, DEL.—Continued.

| Mechanical and manufacturing industries. | No. of establishments. | Capital. | Average number of hands employed. | | | Total amount paid in wages during the year. | Value of materials. | Value of products. |
|---|---|---|---|---|---|---|---|---|
| | | | Males above 16 years. | Females above 15 years. | Children and youths. | | | |
| Paper | 3 | $2,448,000 | 163 | 61 | 6 | $102,817 | $548,909 | $682,905 |
| Roofing and roofing materials | 3 | 10,500 | 16 | ..... | ..... | 8,344 | 11,500 | 29,500 |
| Saddlery and harness | 10 | 23,700 | 31 | ..... | 1 | 12,500 | 28,300 | 57,500 |
| Shipbuilding | 8 | 905,500 | 1,454 | ..... | ..... | 850,248 | 836,608 | 1,974,203 |
| Soap and candles | 3 | 14,800 | 12 | ..... | 1 | 5,180 | 13,400 | 22,070 |
| Tinware, copperware, and sheet-iron ware | 14 | 110,600 | 61 | ..... | 9 | 31,108 | 81,903 | 159,027 |
| Tobacco, cigars and cigarettes | 23 | 32,300 | 50 | 13 | 14 | 24,420 | 34,840 | 78,453 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 7 | 24,150 | 52 | ..... | 6 | 23,450 | 10,600 | 45,700 |
| All other industries (*a*) | 44 | 2,975,000 | 1,651 | 54 | 148 | 681,552 | 2,512,515 | 3,532,361 |

*a* Embracing bags, paper; baskets, rattan and willow ware; belting and hose, leather; bookbinding and blank-book making; boot and shoe cut stock; boot and shoe uppers; brooms and brushes; cars, railroad, street, and repairs; coffee and spices, roasted and ground; cooperage; coppersmithing; dentists' materials; flouring- and grist-mill products; grease and tallow; gunpowder; iron bolts, nuts, washers, and rivets; jute and jute goods; leather, curried; liquors, malt; lumber, planed; matches; mineral and soda waters; mats and matting; painting and paperhanging; paints; pumps; rubber, vulcanized; saws; slaughtering and meat-packing; sporting goods; springs, steel, car, and carriage; stone- and earthen-ware; tools; upholstering; and wooden ware.

### CITY OF WORCESTER, MASS.

[Statistics collected under the direction of A. R. MARSHALL, Special Agent.]

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All industries | 644 | $11,378,604 | 13,685 | 2,480 | 394 | $6,010,817 | $16,582,750 | $27,292,793 |
| Blacksmithing (see also Wheelwrighting) | 24 | 25,225 | 45 | ..... | ..... | 21,375 | 20,188 | 61,329 |
| Bookbinding and blank-book making | 5 | 29,200 | 25 | 9 | ..... | 12,904 | 28,382 | 52,750 |
| Boot and shoe cut stock | 9 | 58,450 | 74 | 208 | 39 | 52,175 | 87,800 | 158,727 |
| Boot and shoe findings | 4 | 6,800 | 9 | 8 | 5 | 6,250 | 6,000 | 19,350 |
| Boots and shoes, including custom work and repairing | 45 | 1,680,258 | 1,599 | 360 | 112 | 1,087,507 | 2,909,277 | 4,513,128 |
| Brass castings | 3 | 6,200 | 15 | ..... | ..... | 5,960 | 18,390 | 28,844 |
| Bread and other bakery products | 9 | 31,200 | 57 | 8 | 5 | 33,812 | 138,417 | 217,254 |
| Brick and tile | 4 | 22,000 | 54 | ..... | ..... | 14,450 | 9,011 | 30,600 |
| Carpentering | 30 | 101,450 | 269 | 1 | ..... | 125,193 | 331,950 | 519,739 |
| Carriage and wagon materials | 4 | 17,800 | 12 | ..... | ..... | 7,180 | 18,326 | 35,170 |
| Carriages and wagons (see also Wheelwrighting) | 4 | 30,500 | 39 | ..... | ..... | 18,691 | 12,150 | 39,380 |
| Clothing, men's | 12 | 81,900 | 205 | 126 | ..... | 83,672 | 173,500 | 327,500 |
| Confectionery | 5 | 15,400 | 16 | 6 | ..... | 5,225 | 22,215 | 35,720 |
| Cotton goods (see also Mixed textiles) | 3 | 39,500 | 14 | 35 | 1 | 10,271 | 24,350 | 42,150 |
| Cutlery and edge tools (see also Tools) | 6 | 51,650 | 54 | 1 | 2 | 28,851 | 18,056 | 66,530 |
| Dentistry, mechanical | 24 | 19,075 | 10 | ..... | ..... | 7,020 | 12,720 | 60,338 |
| Dyeing and cleaning | 6 | 13,500 | 36 | 26 | ..... | 17,214 | 16,120 | 45,358 |
| Engraving, wood | 3 | 2,100 | 5 | ..... | ..... | 1,525 | 475 | 5,975 |
| Files (see also Saws) | 3 | 10,800 | 21 | ..... | ..... | 9,450 | 3,425 | 19,100 |
| Fire-arms | 4 | 124,000 | 306 | ..... | 22 | 136,091 | 61,300 | 247,828 |
| Flouring- and grist-mill products | 4 | 72,500 | 11 | ..... | ..... | 3,100 | 63,721 | 71,080 |
| Furniture (see also Mattresses and spring beds; Upholstering) | 7 | 144,500 | 98 | 5 | 4 | 58,769 | 193,561 | 311,406 |
| Foundery and machine-shop products | 68 | 1,871,700 | 2,284 | 25 | 76 | 1,068,834 | 1,525,865 | 3,166,193 |
| Grease and tallow | 5 | 15,500 | 21 | ..... | ..... | 7,750 | 29,820 | 51,700 |
| Iron and steel | 3 | 1,750,000 | 2,354 | 15 | 10 | 984,001 | 1,688,285 | 2,701,993 |
| Instruments, professional and scientific | 3 | 14,800 | 21 | 1 | 2 | 11,352 | 6,850 | 29,300 |
| Leather, curried | 5 | 69,000 | 37 | ..... | ..... | 16,975 | 301,205 | 340,180 |
| Looking-glass and picture frames | 6 | 6,100 | 39 | ..... | ..... | 9,587 | 22,125 | 41,075 |
| Marble and stone work | 13 | 71,200 | 128 | ..... | ..... | 66,961 | 65,903 | 171,175 |
| Masonry, brick and stone | 14 | 61,400 | 305 | ..... | ..... | 160,520 | 306,530 | 506,850 |
| Mattresses and spring beds (see also Furniture) | 4 | 5,000 | 8 | 3 | ..... | 3,800 | 4,575 | 15,950 |
| Models and patterns | 5 | 5,900 | 10 | ..... | ..... | 4,239 | 2,425 | 13,708 |
| Mixed textiles (see also Cotton goods; Woolen goods) | 7 | 141,500 | 197 | 139 | 10 | 131,435 | 333,431 | 630,700 |
| Musical instruments, organs and materials | 8 | 255,700 | 397 | 14 | ..... | 188,662 | 282,530 | 557,325 |
| Needles and pins | 3 | 3,200 | 11 | ..... | 2 | 3,317 | 1,010 | 9,322 |
| Painting and paperhanging | 25 | 20,575 | 94 | ..... | ..... | 37,990 | 35,037 | 100,530 |
| Patent medicines and compounds | 3 | 15,000 | 5 | 4 | ..... | 3,452 | 7,100 | 19,000 |
| Photographing | 12 | 10,450 | 12 | 9 | ..... | 7,431 | 5,848 | 27,685 |
| Plumbing and gasfitting | 12 | 16,400 | 31 | ..... | ..... | 14,435 | 32,445 | 63,030 |
| Printing and publishing | 11 | 121,634 | 128 | 10 | 8 | 86,952 | 60,334 | 199,497 |
| Roofing and roofing materials | 4 | 8,400 | 19 | ..... | ..... | 10,425 | 27,430 | 46,875 |
| Saddlery and harness | 14 | 30,550 | 30 | 4 | ..... | 17,075 | 23,059 | 64,700 |
| Sash, doors, and blinds (see also Wood, turned and carved) | 4 | 133,700 | 163 | ..... | ..... | 80,642 | 149,627 | 261,533 |
| Saws | 3 | 7,000 | 6 | ..... | ..... | 2,600 | 2,548 | 9,316 |
| Screws | 3 | 63,500 | 99 | ..... | 7 | 34,837 | 45,192 | 98,273 |
| Slaughtering and meat-packing, not including retail butchering | 5 | 113,000 | 60 | ..... | ..... | 30,299 | 1,030,485 | 1,124,888 |
| Soap and candles | 8 | 21,150 | 17 | 1 | ..... | 7,778 | 11,942 | 30,433 |
| Tinware, copperware, and sheet-iron ware | 20 | 58,500 | 99 | 17 | ..... | 41,750 | 58,481 | 126,874 |
| Tobacco, cigars and cigarettes | 11 | 29,500 | 45 | 14 | 1 | 23,772 | 62,434 | 111,258 |
| Tools (see also Cutlery and edge tools) | 11 | 468,977 | 279 | ..... | 3 | 146,006 | 134,123 | 364,992 |
| Upholstering (see also Furniture) | 4 | 1,075 | 6 | 3 | ..... | 2,850 | 6,100 | 12,600 |
| Watch and clock repairing | 17 | 7,875 | 10 | ..... | ..... | 5,875 | 5,375 | 24,200 |
| Wheelwrighting (see also Blacksmithing; Carriages and wagons) | 14 | 28,600 | 46 | ..... | ..... | 23,073 | 27,357 | 72,690 |
| Wirework | 3 | 150,000 | 101 | 98 | ..... | 68,771 | 268,472 | 380,598 |
| Wood, turned and carved (see also Sash, doors, and blinds) | 6 | 19,500 | 18 | ..... | ..... | 7,205 | 7,960 | 21,430 |
| Woolen goods (see also Mixed textiles) | 6 | 156,500 | 314 | 203 | 34 | 193,496 | 629,330 | 982,175 |
| All other industries (*a*) | 86 | 3,040,210 | 3,317 | 1,127 | 51 | 1,659,985 | 5,212,128 | 8,004,889 |

*a* Embracing agricultural implements; awnings and tents; baking and yeast powders; bells; belting and hose, leather; blacking; bluing; boot and shoe uppers; boxes, cigar; boxes, fancy and paper; boxes, wooden, packing; brooms and brushes; carpets, other than rag; cars, railroad, street, and repairs; clothing, women's; coffee and spices, roasted and ground; coffins, burial cases, and undertakers' goods; cooperage; corsets; drugs and chemicals; dyestuffs and extracts; electroplating; engraving and die-sinking; envelopes; felt goods; fruits and vegetables, canned and preserved; gas machines and meters; gloves and mittens; hardware; hairwork; hats and caps; hones and whetstones; iron bolts, nuts, washers, and rivets; iron pipe, wrought; iron railing, wrought; iron work, architectural and ornamental; japanning; jewelry; lasts; leather, tanned; lumber, planed; liquors, malt; mineral and soda waters; musical instruments and materials (not specified); paints; paving materials; photographing materials; refrigerators; shipbuilding; shirts; shoddy; silk and silk goods; spectacles and eyeglasses; stationery goods; steam fittings and heating apparatus; stencils and brands; stone- and earthen-ware; straw goods; surgical appliances; trunks and valises; umbrellas and canes; whips; wire; and worsted goods.