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FLAX, HEMP, AND JUTE PRODUCTS.

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# FLAX, HEMP, AND JUTE PRODUCTS.

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The industries which make use of the three classes of vegetable fibers, flax, hemp, and jute, are closely allied, in that most of them employ more than one of these materials. For example, there is a large consumption of hemp both by jute manufacturers and by those classed as makers of linen goods; and there is a consumption of all three fibers by cordage and twine establishments. If it were possible, it would be more scientific to classify the several industries by the character of the goods produced, but the variety and diversity of products are so great that it is impossible to do so. The plan here adopted is to group all the industries reported at the Eleventh Census under the separate heads of cordage and twine, jute and jute goods, linen goods, and linen thread, in one general survey, and to bring the facts relating to each branch into view by separate treatment.

Table 1 is a comparative summary of the statistics of the industry as a whole in 1890 and 1900.

TABLE 1.—FLAX, HEMP, AND JUTE PRODUCTS; COMPARATIVE SUMMARY, 1890 AND 1900.

|                                    | 1900         | 1890         |
|------------------------------------|--------------|--------------|
| Number of establishments .....     | 141          | 162          |
| Capital .....                      | \$41,991,762 | \$27,731,649 |
| Salaries .....                     | 641          | 1,458        |
| Salaries .....                     | \$957,190    | \$609,170    |
| Wage-earners, average number ..... | 20,903       | 15,519       |
| Total wages .....                  | \$6,331,741  | \$4,872,389  |
| Men, 16 years and over .....       | 9,996        | 7,367        |
| Wages .....                        | \$3,824,555  | \$2,952,270  |
| Women, 16 years and over .....     | 8,048        | 6,123        |
| Wages .....                        | \$2,174,152  | \$1,793,289  |
| Children, under 16 years .....     | 2,259        | 1,229        |
| Wages .....                        | \$333,034    | \$186,830    |
| Miscellaneous expenses .....       | \$2,078,286  | \$1,481,932  |
| Cost of materials used .....       | \$32,197,895 | \$26,148,844 |
| Value of products .....            | \$47,601,607 | \$37,318,021 |

<sup>1</sup>Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 14.)

The only inference that may fairly be drawn from Table 1 is that, upon the whole, there has been an increase in these industries. It would be a statistical absurdity to place reliance upon the percentages of increase of masses, which include things widely different in their nature, and sums made up of great numbers and small.

Table 2 is a summary of the industry by states for 1900.

TABLE 2.—FLAX, HEMP, AND JUTE PRODUCTS; SUMMARY BY STATES: 1900.

|                                    | United States. | Alabama.  | Connecticut. | Kentucky. | Massachusetts. | New Jersey. |
|------------------------------------|----------------|-----------|--------------|-----------|----------------|-------------|
| Number of establishments .....     | 141            | 4         | 8            | 6         | 28             | 6           |
| Capital .....                      | \$41,991,762   | \$293,448 | \$297,902    | \$459,295 | \$10,223,490   | \$3,418,163 |
| Salaries .....                     | 641            | 10        | 5            | 23        | 136            | 57          |
| Salaries .....                     | \$957,190      | \$10,980  | \$3,500      | \$26,024  | \$203,943      | \$80,551    |
| Wage-earners, average number ..... | 20,903         | 282       | 265          | 492       | 4,693          | 2,127       |
| Total wages .....                  | \$6,331,741    | \$47,645  | \$69,544     | \$149,937 | \$1,562,862    | \$624,983   |
| Miscellaneous expenses .....       | \$2,078,286    | \$14,054  | \$6,443      | \$39,947  | \$601,542      | \$223,118   |
| Cost of materials used .....       | \$32,197,895   | \$166,145 | \$196,332    | \$341,515 | \$7,539,433    | \$1,760,426 |
| Value of products .....            | \$47,601,607   | \$253,560 | \$312,446    | \$602,701 | \$11,338,938   | \$2,955,814 |

|                                    | New York.    | Ohio.       | Pennsylvania. | Rhode Island. | Wisconsin. | All other states. <sup>1</sup> |
|------------------------------------|--------------|-------------|---------------|---------------|------------|--------------------------------|
| Number of establishments .....     | 22           | 9           | 21            | 5             | 5          | 27                             |
| Capital .....                      | \$10,311,768 | \$2,147,677 | \$6,162,509   | \$95,947      | \$213,565  | \$3,367,933                    |
| Salaries .....                     | 148          | 47          | 90            | 4             | 11         | 110                            |
| Salaries .....                     | \$306,331    | \$54,205    | \$103,788     | \$2,670       | \$8,840    | \$156,958                      |
| Wage-earners, average number ..... | 5,450        | 1,052       | 2,683         | 84            | 128        | 3,617                          |
| Total wages .....                  | \$1,713,614  | \$317,909   | \$761,582     | \$22,175      | \$35,085   | \$1,025,402                    |
| Miscellaneous expenses .....       | \$782,719    | \$96,471    | \$147,126     | \$8,052       | \$7,574    | \$750,740                      |
| Cost of materials used .....       | \$7,516,240  | \$2,325,907 | \$5,448,323   | \$63,954      | \$109,016  | \$6,730,594                    |
| Value of products .....            | \$11,674,669 | \$2,967,674 | \$7,256,548   | \$108,715     | \$185,166  | \$9,905,951                    |

<sup>1</sup>Includes states having less than 8 establishments, in order that the operations of individual establishments may not be disclosed. These establishments are distributed as follows: Arkansas, 1; California, 2; Delaware, 1; Georgia, 1; Illinois, 2; Indiana, 1; Iowa, 1; Kansas, 1; Maine, 2; Maryland, 1; Michigan, 1; Minnesota, 1; Mississippi, 1; Missouri, 2; New Hampshire, 1; North Carolina, 2; Oregon, 1; South Carolina, 1; Tennessee, 2; Texas, 2.

Tables 3 and 4 present, in accordance with trade classifications, the several fiber materials entering into the manufacture of flax, hemp, and jute goods, both the quantity and the cost, respectively; also the quantity and value of the goods produced therefrom.

TABLE 3.—FLAX, HEMP, AND JUTE PRODUCTS; KIND, QUANTITY, AND COST OF MATERIALS USED: 1900.

|                                 | Pounds.     | Cost.        |
|---------------------------------|-------------|--------------|
| Total .....                     | 545,449,566 | \$32,197,885 |
| <b>Fibers:</b>                  |             |              |
| <b>Hard—</b>                    |             |              |
| <b>Hemp—</b>                    |             |              |
| Manilla .....                   | 123,241,820 | 8,916,493    |
| Sisal .....                     | 146,352,853 | 8,827,131    |
| New Zealand .....               | 6,344,371   | 352,528      |
| <b>Soft—</b>                    |             |              |
| <b>Hemp—</b>                    |             |              |
| <b>Russian—</b>                 |             |              |
| Rough .....                     | 1,175,605   | 73,165       |
| Tow .....                       | 118,090     | 5,869        |
| Line .....                      | 349,558     | 25,063       |
| <b>Italian—</b>                 |             |              |
| Rough .....                     | 7,329,346   | 533,922      |
| Tow .....                       | 305,917     | 20,969       |
| Line .....                      | 335,858     | 31,780       |
| <b>American—</b>                |             |              |
| Rough .....                     | 11,407,068  | 536,076      |
| Tow .....                       | 3,201,011   | 112,134      |
| Line .....                      | 1,276,262   | 65,675       |
| <b>Flax—</b>                    |             |              |
| <b>European—</b>                |             |              |
| Rough .....                     | 5,580,911   | 668,446      |
| Tow .....                       | 3,727,163   | 252,759      |
| Line .....                      | 3,388,641   | 806,693      |
| <b>Canadian—</b>                |             |              |
| Rough .....                     | 1,972,820   | 155,751      |
| Tow .....                       | 247,350     | 18,908       |
| Line .....                      | 131,736     | 20,643       |
| <b>Domestic—</b>                |             |              |
| Rough .....                     | 700,000     | 25,750       |
| Tow .....                       | 744,045     | 66,665       |
| Line .....                      | 487,980     | 65,247       |
| <b>Jute .....</b>               | 87,443,201  | 2,431,429    |
| <b>Jute butts .....</b>         | 118,806,625 | 1,795,653    |
| <b>Yarns:</b>                   |             |              |
| <b>Flax or hemp—</b>            |             |              |
| <b>Domestic tow—</b>            |             |              |
| Wholly or partly bleached ..... | 120,320     | 14,060       |
| Gray .....                      | 48,500      | 6,860        |
| <b>Domestic line—</b>           |             |              |
| Wholly or partly bleached ..... | 107,490     | 45,550       |
| Gray .....                      | 157,778     | 32,396       |
| <b>Imported tow—</b>            |             |              |
| Wholly or partly bleached ..... | 37,514      | 9,681        |
| Gray .....                      | 196,941     | 35,173       |
| <b>Imported line—</b>           |             |              |
| Wholly or partly bleached ..... | 1,000       | 180          |
| Gray .....                      | 108,976     | 48,747       |
| Linen, unspecified .....        | 102,622     | 42,005       |
| Cotton .....                    | 4,973,080   | 709,889      |
| Jute .....                      | 1,009,651   | 69,504       |
| Silk .....                      | 4,774       | 21,414       |
| Spun silk .....                 | 1,100       | 3,460        |
| Worsted .....                   | 682         | 308          |
| <b>Cotton:</b>                  |             |              |
| Raw (26,540 bales) .....        | 13,022,755  | 849,426      |
| Waste .....                     | 798,182     | 37,692       |
| All other materials .....       |             | 4,459,796    |

TABLE 4.—FLAX, HEMP, AND JUTE PRODUCTS; KIND, QUANTITY, AND VALUE OF PRODUCTS: 1900.

|   | Quantity.  | Value.       |
|---|------------|--------------|
| Total .....                                 |            | \$47,601,607 |
| <b>Flax or hemp yarns:</b>                  |            |              |
| <b>Tow—</b>                                 |            |              |
| Dry spun, gray, pounds .....                | 1,889,528  | 248,351      |
| Dry spun, bleached, pounds .....            | 13,871     | 3,473        |
| Wet spun, gray, pounds .....                | 6,060,092  | 804,908      |
| Wet spun, bleached, pounds .....            | 49,236     | 11,361       |
| <b>Line—</b>                                |            |              |
| Dry spun, gray, pounds .....                | 218,088    | 46,500       |
| Dry spun, bleached, pounds .....            | 23,133     | 11,078       |
| Wet spun, gray, pounds .....                | 1,200      | 800          |
| Jute yarns, pounds .....                    | 54,271,860 | 3,230,835    |
| <b>Twines for sale:</b>                     |            |              |
| All flax, pounds .....                      | 3,845,978  | 969,469      |
| All hemp, pounds .....                      | 9,065,024  | 1,019,590    |
| All jute, pounds .....                      | 1,879,127  | 117,639      |
| Flax or hemp, mixed with jute, pounds ..... | 12,924,667 | 1,101,203    |
| Linen thread, pounds .....                  | 4,021,044  | 2,332,287    |

TABLE 4.—FLAX, HEMP, AND JUTE PRODUCTS; KIND, QUANTITY, AND VALUE OF PRODUCTS: 1900—Cont'd.

|  | Quantity.   | Value.      |
|--|-------------|-------------|
| <b>Binder twine:</b>                             |             |             |
| All manilla, pounds .....                        | 15,261,174  | \$1,546,423 |
| Chiefly manilla, pounds .....                    | 24,975,568  | 2,316,257   |
| All or chiefly sisal, pounds .....               | 125,372,687 | 10,322,896  |
| <b>Rope:</b>                                     |             |             |
| Manilla, pounds .....                            | 83,347,459  | 8,330,113   |
| Sisal, pounds .....                              | 46,865,604  | 3,682,679   |
| Jute, pounds .....                               | 10,012,165  | 463,413     |
| Cotton, pounds .....                             | 1,615,824   | 247,259     |
| <b>Towels and toweling:</b>                      |             |             |
| All linen, square yards .....                    | 4,598,615   | 471,633     |
| Partly linen, square yards .....                 | 2,051,247   | 281,258     |
| <b>Other woven fabrics:</b>                      |             |             |
| All linen, square yards .....                    | 83,000      | 9,110       |
| Partly linen, square yards .....                 | 135,000     | 31,000      |
| <b>Jute burlaps, square yards .....</b>          |             | 386,123     |
| <b>Jute carpets and rugs, square yards .....</b> | 2,958,658   | 357,568     |
| <b>Gunny bagging, square yards .....</b>         | 74,090,760  | 3,462,479   |
| <b>Other spun or woven goods .....</b>           |             | 1,051,669   |
| <b>Cotton:</b>                                   |             |             |
| Bagging, square yards .....                      | 248,204     | 21,864      |
| Yarn, pounds .....                               | 946,567     | 98,928      |
| Twine, pounds .....                              | 8,691,707   | 1,133,640   |
| Batting, pounds .....                            | 198,000     | 7,125       |
| Waste, pounds .....                              | 1,264,619   | 20,146      |
| Other products of cotton .....                   |             | 715,613     |
| <b>All other products .....</b>                  |             | 2,744,604   |

#### CORDAGE AND TWINE.

Three general classes of establishments are included in the following statistics under the head of cordage and twine. The first and smallest, having regard to the items of capital, number of wage-earners, wages, and value of products, consists of those whose chief business is the manufacture of yarn—cotton, for the most part, but also linen and silk—into the finer varieties of twine and into cotton rope; the second, of those which produce binder twine on a large scale; the third, of those which manufacture hempen rope. Since no useful purpose would be served by separating the returns of these several classes they are reported together; but the important facts regarding the several industries, so far as they are distinct, are easily ascertained from the statistics of the quantity and value of the fibers consumed, and of the quantity and value of the several products. At previous censuses no special inquiry was made concerning any of the characteristic features of the industries grouped under this head, and no facts were reported other than those which appear in the following comparative summary:

TABLE 5.—CORDAGE AND TWINE; COMPARATIVE SUMMARY, 1880 TO 1900.

|  | 1900         | 1890         | 1880         |
|--|--------------|--------------|--------------|
| Number of establishments .....                 | 105          | 150          | 163          |
| Capital .....                                  | \$29,275,470 | \$23,351,838 | \$7,140,475  |
| Salaries officials, clerks, etc., number ..... | 436          | 1,414        | (2)          |
| Salaries .....                                 | \$666,936    | \$560,699    | (2)          |
| Wage-earners, average number .....             | 13,114       | 12,392       | 5,435        |
| Total wages .....                              | \$4,113,112  | \$3,976,232  | \$1,558,676  |
| Men, 16 years and over .....                   | 7,341        | 6,412        | 2,926        |
| Wages .....                                    | \$2,751,787  | \$2,547,935  | (2)          |
| Women, 16 years and over .....                 | 4,797        | 5,010        | 1,480        |
| Wages .....                                    | \$1,212,323  | \$1,280,063  | (2)          |
| Children, under 16 years .....                 | 976          | 963          | 1,029        |
| Wages .....                                    | \$148,502    | \$148,182    | (2)          |
| Miscellaneous expenses .....                   | \$1,716,205  | \$1,020,697  | (3)          |
| Cost of materials used .....                   | \$24,632,006 | \$24,051,666 | \$9,330,261  |
| Value of products .....                        | \$37,849,651 | \$33,312,559 | \$12,492,171 |

<sup>1</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900.

<sup>2</sup> Not reported separately.

<sup>3</sup> Not reported.

The tendency toward a consolidation of small establishments and the transaction of business on a larger scale was observable ten years ago, when a decreased number of establishments reported a capital more than threefold greater than in 1880, and a value of products nearly threefold greater. At the census of 1900 the number of separate establishments declined, as compared with 1890, almost one-third, yet the value of products was larger. The statistics of capital are not strictly comparable, since the method of ascertaining the amount has been different at each census. The fact of an increase may be inferred, but the rate of increase can not properly be deduced from the figures given. This is also true respecting the returns of the average number of persons employed, the method of ascertaining such average having been changed. In general, it appears that the number of wage-earners has not increased greatly, if at all, within the last decade.

The kind, quantity, and cost of the materials used in the production of cordage and twine, and the quantity and value of the several products are presented in Tables 6 and 7.

TABLE 6.—CORDAGE AND TWINE; KIND, QUANTITY, AND COST OF MATERIALS USED: 1900.

|                           | Pounds.     | Cost.        |
|---------------------------|-------------|--------------|
| Total .....               | 418,416,811 | \$26,632,006 |
| Cotton:                   |             |              |
| Raw (26,540 bales).....   | 13,022,755  | 849,426      |
| Yarn .....                | 3,860,235   | 605,041      |
| Waste .....               | 798,182     | 37,692       |
| Flax fiber:               |             |              |
| European—                 |             |              |
| Rough .....               | 757,672     | 76,615       |
| Tow .....                 | 845,959     | 23,191       |
| Line .....                | 54,592      | 7,243        |
| Canadian—                 |             |              |
| Rough .....               | 768,021     | 56,688       |
| Tow .....                 | 49,457      | 3,188        |
| Domestic—                 |             |              |
| Rough .....               | 200,000     | 24,000       |
| Tow .....                 | 703,943     | 64,186       |
| Line .....                | 487,980     | 65,247       |
| Linen yarn .....          | 299,135     | 83,525       |
| Hemp:                     |             |              |
| Manila .....              | 128,241,820 | 8,916,493    |
| Sisal .....               | 146,352,853 | 8,827,131    |
| New Zealand .....         | 6,344,371   | 852,528      |
| Russian—                  |             |              |
| Rough .....               | 1,175,605   | 73,165       |
| Tow .....                 | 44,090      | 1,969        |
| Line .....                | 349,558     | 25,063       |
| Italian—                  |             |              |
| Rough .....               | 3,422,104   | 256,582      |
| Tow .....                 | 305,917     | 20,969       |
| Line .....                | 296,920     | 27,752       |
| American—                 |             |              |
| Rough .....               | 10,871,865  | 506,767      |
| Tow .....                 | 3,011,004   | 104,660      |
| Line .....                | 1,258,266   | 68,965       |
| Jute .....                | 25,767,800  | 786,967      |
| Butts .....               | 74,281,100  | 1,107,899    |
| Yarns:                    |             |              |
| Jute .....                | 339,051     | 21,070       |
| Silk .....                | 4,774       | 24,414       |
| Spun .....                | 1,100       | 3,450        |
| Worsted .....             | 682         | 308          |
| All other materials ..... |             | 3,714,812    |

TABLE 7.—CORDAGE AND TWINE; KIND, QUANTITY, AND VALUE OF PRODUCTS: 1900.

|   | Quantity.   | Value.       |
|---|-------------|--------------|
| Total .....                                 |             | \$37,849,651 |
| Twine:                                      |             |              |
| Cotton, pounds .....                        | 8,691,707   | 1,133,640    |
| Flax, pounds .....                          | 2,187,540   | 602,471      |
| Hemp, pounds .....                          | 8,299,902   | 895,074      |
| Jute, pounds .....                          | 1,589,127   | 111,230      |
| Flax or hemp, mixed with jute, pounds ..... | 12,924,067  | 1,101,203    |
| Binder twine:                               |             |              |
| Manila, pounds .....                        | 15,261,174  | 1,546,428    |
| Chiefly manila, pounds .....                | 24,075,568  | 2,316,257    |
| All or chiefly sisal, pounds .....          | 125,372,687 | 10,322,896   |
| Rope:                                       |             |              |
| Cotton, pounds .....                        | 1,615,824   | 247,250      |
| Manila, pounds .....                        | 83,347,459  | 8,330,113    |
| Sisal, pounds .....                         | 46,865,604  | 3,692,670    |
| Jute, pounds .....                          | 5,717,317   | 250,760      |
| Gunny bagging, square yards .....           | 41,310,695  | 2,035,636    |
| Jute burlap .....                           |             | 150,000      |
| Yarn:                                       |             |              |
| Cotton, pounds .....                        | 946,567     | 98,928       |
| Flax and hemp, tow, pounds .....            | 2,552,955   | 345,913      |
| Flax and hemp, line, pounds .....           | 10,000      | 4,800        |
| Jute, pounds .....                          | 9,554,188   | 621,637      |
| Linen thread, pounds .....                  | 100,000     | 17,000       |
| Waste, pounds .....                         | 1,254,619   | 20,146       |
| Batting and wadding, pounds .....           | 198,000     | 7,125        |
| Other spun or woven goods .....             | 6,241,449   | 534,265      |
| All other products, cotton .....            |             | 715,613      |
| All other products .....                    |             | 2,758,537    |

JUTE AND JUTE GOODS.

The jute manufacture was represented at the Tenth Census by 4 establishments only, having a total capital of \$415,000, and products valued at \$696,982. Seven establishments were reported at the Eleventh Census under the head of jute and jute goods. It is probable, however, that some which were classed as "bagging, flax, hemp, and jute" are, in the reports for 1900, included in the class of jute and jute goods, since it appears that only 2 of the 18 establishments now making returns have come into existence during the decade. Under these circumstances a comparison of the statistics for 1900 with those of former census years would be misleading. The principal facts relating to the industry for 1900 are presented in the following summary:

TABLE 8.—JUTE AND JUTE GOODS: 1900.

|  |             |
|--|-------------|
| Number of establishments .....                 | 13          |
| Capital .....                                  | \$7,627,293 |
| Salaried officials, clerks, etc., number ..... | 88          |
| Salaries .....                                 | \$147,313   |
| Wage-earners, average number .....             | 4,506       |
| Total wages .....                              | \$1,181,790 |
| Men, 16 years and over .....                   | 1,611       |
| Wages .....                                    | \$579,877   |
| Women, 16 years and over .....                 | 2,064       |
| Wages .....                                    | \$480,732   |
| Children, under 16 years .....                 | 831         |
| Wages .....                                    | \$121,181   |
| Miscellaneous expenses .....                   | \$574,986   |
| Cost of materials used .....                   | \$3,015,862 |
| Value of products .....                        | \$5,883,797 |

Table 9 shows the kind, quantity, and cost of the materials employed in the manufacture.

TABLE 9.—JUTE AND JUTE GOODS; KIND, QUANTITY, AND COST OF MATERIALS USED: 1900.

|                           | Pounds.     | Cost.       |
|---------------------------|-------------|-------------|
| Total .....               | 109,049,701 | \$3,015,362 |
| Jute .....                | 61,603,929  | 1,642,818   |
| Butts .....               | 44,525,525  | 637,754     |
| Yarns .....               | 670,600     | 48,494      |
| Hemp:                     |             |             |
| Italian .....             | 1,363,481   | 88,303      |
| American .....            | 584,328     | 27,354      |
| Cotton yarn .....         | 301,888     | 33,894      |
| All other materials ..... |             | 492,865     |

Table 10 presents a classification of the principal products of the establishments reporting.

TABLE 10.—JUTE AND JUTE GOODS; KIND, QUANTITY, AND VALUE OF PRODUCTS: 1900.

|                                 | Quantity.                | Value.      |
|---------------------------------|--------------------------|-------------|
| Total .....                     |                          | \$5,383,797 |
| Jute yarn .....                 | pounds.. 44,717,672      | 2,609,148   |
| Twine .....                     | do... 90,000             | 6,800       |
| Rope .....                      | do... 4,294,848          | 212,658     |
| Burlaps .....                   | square yards.. 4,361,635 | 236,129     |
| Gunny bagging .....             | do... 32,780,065         | 1,426,843   |
| Carpets and rugs .....          | do... 2,953,658          | 337,568     |
| Flax or hemp yarns .....        | pounds.. 1,286,155       | 165,788     |
| Other spun or woven goods ..... |                          | 364,821     |
| All other products .....        |                          | 4,547       |

#### LINEN MANUFACTURE.

The report upon the linen industry at the census of 1890 was most meager. Three establishments only producing linen goods were included in the general summary of manufactures; 2 others which made linen thread came under the rule which forbids the separate tabulation of less than 3 establishments, and were placed under "all other industries." Inasmuch as both classes of establishments are reported together in the following tables, the facts relating to the 5 establishments reporting in 1890 are now published for the first time for purposes of comparison.

TABLE 11.—LINEN GOODS; COMPARATIVE SUMMARY: 1890 AND 1900.

|  | 1900.       | 1890.       |
|--|-------------|-------------|
| Number of establishments .....                 | 18          | 5           |
| Capital .....                                  | \$5,688,999 | \$2,734,130 |
| Salaried officials, clerks, etc., number ..... | 117         | 126         |
| Salaries .....                                 | \$142,941   | \$25,530    |
| Wage-earners, average number .....             | 3,283       | 1,940       |
| Total wages .....                              | \$1,036,839 | \$527,572   |
| Men, 16 years and over .....                   | 1,044       | 648         |
| Wages .....                                    | \$492,891   | \$255,409   |
| Women, 16 years and over .....                 | 1,787       | 1,193       |
| Wages .....                                    | \$480,597   | \$256,187   |
| Children, under 16 years .....                 | 452         | 99          |
| Wages .....                                    | \$63,351    | \$15,976    |
| Miscellaneous expenses .....                   | \$387,095   | \$242,977   |
| Cost of materials used .....                   | \$2,550,517 | \$1,594,769 |
| Value of products .....                        | \$4,368,159 | \$2,880,341 |

<sup>1</sup>Includes proprietors and firm members, with their salaries; number only reported in 1900.

Inasmuch as the tables deal with so small a number of establishments, many of them still in the period of experiment, no deduction is justified or would be safe, further than that the industry has expanded greatly.

The materials used, consisting of hemp, flax, jute, and cotton, in great variety and in various stages of manufacture, are summarized in Table 12.

TABLE 12.—LINEN GOODS; KIND, QUANTITY, AND COST OF MATERIALS USED: 1900.

|                           | Pounds.    | Cost.       |
|---------------------------|------------|-------------|
| Total .....               | 17,983,084 | \$2,550,517 |
| Hemp:                     |            |             |
| Russian—                  |            |             |
| Tow .....                 | 74,000     | 3,900       |
| Italian—                  |            |             |
| Rough .....               | 2,543,811  | 194,037     |
| Line .....                | 38,938     | 4,023       |
| American—                 |            |             |
| Rough .....               | 40,875     | 1,955       |
| Tow .....                 | 190,007    | 7,474       |
| Line .....                | 17,996     | 1,710       |
| Flax:                     |            |             |
| European—                 |            |             |
| Rough .....               | 4,823,239  | 691,831     |
| Tow .....                 | 3,381,201  | 229,554     |
| Line .....                | 3,334,049  | 799,459     |
| Canadian—                 |            |             |
| Rough .....               | 1,204,799  | 99,633      |
| Tow .....                 | 197,893    | 15,730      |
| Line .....                | 131,736    | 20,633      |
| Domestic—                 |            |             |
| Rough .....               | 500,000    | 1,750       |
| Tow .....                 | 40,102     | 2,479       |
| Flax or hemp yarn .....   | 532,006    | 161,131     |
| Cotton yarn .....         | 810,957    | 171,014     |
| Jute .....                | 71,472     | 2,141       |
| All other materials ..... |            | 282,619     |

Table 13 shows the kind, quantity, and value of the principal products during the census year of the establishments reporting.

TABLE 13.—LINEN GOODS; KIND, QUANTITY, AND VALUE OF PRODUCTS: 1900.

|   | Quantity.                | Value.      |
|---|--------------------------|-------------|
| Total .....                             |                          | \$4,368,159 |
| Flax or hemp yarn, tow .....            | pounds.. 4,178,117       | 556,892     |
| Flax or hemp yarn, line .....           | do... 232,426            | 53,074      |
| Twine, all flax .....                   | do... 1,653,438          | 306,993     |
| Twine, all hemp .....                   | do... 765,122            | 124,516     |
| Linen thread .....                      | do... 3,921,044          | 2,315,267   |
| Towels and toweling, all linen .....    | square yards.. 4,598,616 | 471,633     |
| Towels and toweling, partly linen ..... | do... 2,051,247          | 281,238     |
| Other woven fabrics, all linen .....    | do... 83,000             | 9,110       |
| Other woven fabrics, partly linen ..... | do... 135,000            | 34,000      |
| Other spun or woven goods .....         | do... 152,633            | 152,633     |
| All other products .....                |                          | 3,234       |

The linen industry has never obtained a firm foothold in the United States. In colonial times efforts were made to promote the growth of flax, and to introduce the spinning and weaving of the fiber. It was the policy of the mother country to repress manufactures in the colonies, but the production of linen goods was a domestic industry, which England could not and did not try to prevent. The cultivation of flax was undertaken on a small scale, and the spinning wheel and the handloom were the only available machinery for working it into cloth. It is probable that there was in America

scarcely any manufacture of linen for sale. That which was made was a home product intended solely for consumption in the families of the weavers. The factory system had not been generally established even on the other side of the Atlantic. Nevertheless flax was already cultivated on a generous scale in many districts of Ireland, France, Germany, and other countries, and large numbers of persons were employed in preparation of the fiber and manufacture of linen for the market.

It is extremely probable that the desire of the American people to introduce manufactures, thus supplementing their political with industrial and commercial independence, would have led them to engage largely in the production of linen fabrics had not the invention of the cotton gin by Eli Whitney (patented in 1793) placed in their hands a fiber cheaper than flax, more tractable, requiring less care in preparation, more easily spun and woven, superior for many purposes and decidedly inferior for very few. At all events, the effort to introduce the linen manufacture was practically abandoned for the time being, and, until recently, the attempts to establish it in the United States have been spasmodic and unsuccessful. The difficulties in the path of manufacturers are many. There is, to speak broadly, no American production of fiber suitable for spinning. Flax is grown in great quantities, but it is cultivated chiefly for the seed and not for the fiber.

The process of retting involves the expenditure of too much time and labor to be profitable to American farmers. Consequently it is necessary to rely almost wholly upon foreign importations for the raw material. Moreover, the intermediate processes of manufacture, as well as the spinning and weaving of a fiber greatly lacking in elasticity, require so much skill and care that the margin of profit is precarious. And finally, the demand for the finished product is far from being so broad and imperative as is that for articles of cotton,

wool, and silk. Linen is indispensable for fine fabrics for the dining table, for thread and twine where great strength is required, and for the best quality of toweling; but for the thousand and one uses to which ordinary cloth is put, cotton would be generally preferred by consumers, even if the cost were the same.

It will be inferred from these statements that the linen industry in the United States at the present time is not extensive, nor does the prospect seem bright. Nevertheless, measured by percentages, the increase during the last ten years has been great. There are certain fields which American manufacturers can occupy to advantage. There is a large demand for linen carpet-yarns; our immense shoe manufacturing industry requires a great quantity of linen thread; and the market for towels and toweling is practically unlimited. The first two of these fields our manufacturers have occupied for many years. The third they have entered more generally during the past ten years than ever before. This was rendered possible by a readjustment of tariff rates in the act of 1897. The duty on the yarns required for such branches of the manufacture as Americans now think it expedient to engage in, was reduced to a revenue basis, and the duty on manufactured goods was raised.

The manufacture of linen toweling, which shows the largest extension of any branch of linen manufacture during the decade, is not fully reported in the general tables. Several large cotton manufacturing establishments have engaged in this industry; and although their use of nearly one and a half million pounds of linen yarn is reported among the materials consumed, the schedules issued to them made no provision for a separate report of the character, quantity, or value of their linen products.

Table 14 is a detailed statement of the statistics for flax, hemp, and jute products, by states, for 1900.

TABLE 14.—FLAX, HEMP, AND JUTE PRODUCTS, BY STATES: 1900.

|  | United States. | Alabama.  | Connecticut. | Kentucky. | Massachusetts. | New Jersey. |
|--|----------------|-----------|--------------|-----------|----------------|-------------|
| Number of establishments.....                    | 141            | 4         | 8            | 6         | 28             | 6           |
| Character of organization:                       |                |           |              |           |                |             |
| Individual.....                                  | 36             |           | 7            | 2         | 7              | 1           |
| Firm and limited partnership.....                | 31             |           |              | 2         | 5              | 1           |
| Incorporated company.....                        | 74             | 4         | 1            | 2         | 16             | 5           |
| Capital:   |                |           |              |           |                |             |
| Total.....                                       | \$41,991,762   | \$298,448 | \$297,962    | \$459,295 | \$10,223,490   | \$3,413,163 |
| Land.....  | \$2,467,349    | \$27,026  | \$8,000      | \$1,500   | \$491,974      | \$252,421   |
| Buildings.....                                   | \$5,146,574    | \$46,951  | \$25,300     | \$40,200  | \$1,296,786    | \$794,320   |
| Machinery, tools, and implements.....            | \$9,789,559    | \$169,976 | \$85,400     | \$202,789 | \$1,889,725    | \$951,805   |
| Cash and sundries.....                           | \$24,598,280   | \$55,495  | \$179,262    | \$214,806 | \$6,598,005    | \$1,514,617 |
| Proprietors and firm members.....                | 100            |           | 7            | 7         | 16             | 1           |
| Salaried officials, clerks, etc.:                |                |           |              |           |                |             |
| Total number.....                                | 641            | 10        | 5            | 23        | 136            | 57          |
| Total salaries.....                              | \$957,190      | \$10,980  | \$3,500      | \$26,024  | \$203,943      | \$80,551    |
| Officers of corporations—                        |                |           |              |           |                |             |
| Number.....                                      | 145            | 7         | 2            | 5         | 25             | 5           |
| Salaries.....                                    | \$422,046      | \$3,040   | \$1,950      | \$10,000  | \$92,741       | \$15,700    |
| General superintendents, managers, clerks, etc.— |                |           |              |           |                |             |
| Total number.....                                | 496            | 8         | 8            | 18        | 111            | 52          |
| Total salaries.....                              | \$535,144      | \$2,940   | \$1,550      | \$16,024  | \$111,202      | \$64,851    |
| Men—   |                |           |              |           |                |             |
| Number.....                                      | 442            | 8         | 2            | 16        | 95             | 51          |
| Salaries.....                                    | \$509,158      | \$2,940   | \$1,050      | \$15,244  | \$102,630      | \$64,212    |
| Women—   |                |           |              |           |                |             |
| Number.....                                      | 54             |           | 1            | 2         | 10             | 1           |
| Salaries.....                                    | \$25,936       |           | \$500        | \$780     | \$8,572        | \$639       |

## MANUFACTURES.

TABLE 14.—FLAX, HEMP, AND JUTE PRODUCTS, BY STATES: 1900—Continued.

|  | United States. | Alabama.  | Connecticut. | Kentucky. | Massachusetts. | New Jersey. |
|--|----------------|-----------|--------------|-----------|----------------|-------------|
| <b>Wage-earners, including pieceworkers, and total wages:</b>                            |                |           |              |           |                |             |
| Greatest number employed at any one time during the year.....                            | 24,947         | 306       | 274          | 588       | 5,195          | 2,832       |
| Least number employed at any one time during the year.....                               | 17,588         | 258       | 251          | 389       | 4,075          | 1,963       |
| Average number.....  | 20,903         | 282       | 265          | 492       | 4,698          | 2,127       |
| Wages.....   | \$6,331,741    | \$47,643  | \$69,544     | \$149,937 | \$1,562,362    | \$624,938   |
| Men, 16 years and over—  |                |           |              |           |                |             |
| Average number.....  | 9,996          | 89        | 142          | 285       | 2,649          | 656         |
| Wages.....   | \$3,324,556    | \$25,771  | \$43,016     | \$109,746 | \$1,020,085    | \$295,008   |
| Women, 16 years and over—  |                |           |              |           |                |             |
| Average number.....  | 8,648          | 105       | 120          | 162       | 1,770          | 1,009       |
| Wages.....   | \$2,174,152    | \$13,625  | \$25,988     | \$34,176  | \$490,991      | \$271,744   |
| Children, under 16 years—  |                |           |              |           |                |             |
| Average number.....  | 2,259          | 88        | 3            | 45        | 274            | 462         |
| Wages.....   | \$383,084      | \$8,847   | \$540        | \$6,015   | \$51,786       | \$58,236    |
| <b>Miscellaneous expenses:</b>   |                |           |              |           |                |             |
| Total.....   | \$2,678,286    | \$14,054  | \$6,443      | \$39,847  | \$601,542      | \$223,118   |
| Rent of works.....   | \$158,753      | \$775     | \$387        | \$3,530   | \$7,170        | \$690       |
| Taxes, not including internal revenue.....   | \$222,670      | \$1,749   | \$1,782      | \$1,633   | \$85,334       | \$34,569    |
| Rent of offices, insurance, interest, and all sundry expenses not hitherto included..... | \$2,270,745    | \$12,130  | \$4,274      | \$34,684  | \$506,884      | \$187,949   |
| Contract work.....   | \$26,118       |           |              |           | \$2,154        |             |
| <b>Materials used:</b>   |                |           |              |           |                |             |
| Total cost.....  | \$32,197,885   | \$166,145 | \$196,332    | \$341,515 | \$7,539,433    | \$1,760,426 |
| Principal materials.....   | \$27,746,312   | \$151,668 | \$179,163    | \$309,278 | \$6,782,696    | \$1,616,751 |
| Fuel.....  | \$390,746      | \$6,557   | \$2,212      | \$6,145   | \$106,986      | \$28,645    |
| Rent of power and heat.....  | \$19,848       |           | \$306        |           | \$4,965        | \$1,563     |
| Mill supplies.....   | \$736,820      | \$3,877   | \$6,208      | \$7,169   | \$278,951      | \$54,756    |
| All other materials.....   | \$3,001,923    | \$2,800   | \$209        | \$10,180  | \$348,642      | \$45,219    |
| Freight.....   | \$302,741      | \$2,743   | \$8,229      | \$8,733   | \$22,193       | \$10,489    |
| <b>Products:</b>   |                |           |              |           |                |             |
| Total value.....   | \$47,601,607   | \$253,560 | \$312,446    | \$602,701 | \$11,388,933   | \$2,955,814 |

|  | New York.    | Ohio.       | Pennsylvania. | Rhode Island. | Wisconsin. | All other states. <sup>1</sup> |
|--|--------------|-------------|---------------|---------------|------------|--------------------------------|
| Number of establishments.....  | 22           | 9           | 21            | 5             | 5          | 27                             |
| Character of organization:   |              |             |               |               |            |                                |
| Individual.....  | 3            | 1           | 8             | 3             |            | 5                              |
| Firm and limited partnership.....  | 5            | 1           | 8             | 1             | 3          | 5                              |
| Incorporated company.....  | 14           | 7           | 5             | 1             | 2          | 17                             |
| <b>Capital:</b>  |              |             |               |               |            |                                |
| Total.....   | \$10,311,768 | \$2,147,677 | \$6,162,509   | \$95,947      | \$213,565  | \$8,367,638                    |
| Land.....  | \$422,704    | \$65,415    | \$441,671     | \$3,000       | \$25,000   | \$718,638                      |
| Buildings.....   | \$925,858    | \$272,751   | \$636,950     | \$15,000      | \$26,870   | \$1,064,538                    |
| Machinery, tools, and implements.....  | \$2,784,491  | \$624,270   | \$1,233,540   | \$39,226      | \$102,310  | \$1,906,027                    |
| Cash and sundries.....   | \$6,228,715  | \$1,185,241 | \$3,850,348   | \$38,721      | \$59,885   | \$1,678,635                    |
| <b>Proprietors and firm members:</b>   |              |             |               |               |            |                                |
| Total number.....  | 148          | 47          | 90            | 4             | 11         | 110                            |
| <b>Salaries:</b>   |              |             |               |               |            |                                |
| Total salaries.....  | \$806,331    | \$54,205    | \$108,788     | \$2,670       | \$8,840    | \$156,358                      |
| Officers of corporations—  |              |             |               |               |            |                                |
| Number.....  | 30           | 11          | 8             |               | 4          | 48                             |
| Salaries.....  | \$156,755    | \$17,250    | \$31,700      |               | \$2,760    | \$85,150                       |
| General superintendents, managers, clerks, etc.—   |              |             |               |               |            |                                |
| Total number.....  | 118          | 36          | 82            | 4             | 7          | 62                             |
| Total salaries.....  | \$149,676    | \$36,956    | \$72,088      | \$2,670       | \$6,080    | \$71,208                       |
| Men—   |              |             |               |               |            |                                |
| Number.....  | 104          | 32          | 72            | 4             | 7          | 56                             |
| Salaries.....  | \$142,627    | \$34,999    | \$67,960      | \$2,670       | \$6,080    | \$68,746                       |
| Women—   |              |             |               |               |            |                                |
| Number.....  | 14           | 4           | 10            |               |            | 6                              |
| Salaries.....  | \$6,949      | \$1,956     | \$4,128       |               |            | \$2,462                        |
| <b>Wage-earners, including pieceworkers, and total wages:</b>                            |              |             |               |               |            |                                |
| Greatest number employed at any one time during the year.....                            | 6,439        | 1,574       | 2,919         | 112           | 142        | 5,066                          |
| Least number employed at any one time during the year.....                               | 4,428        | 764         | 2,331         | 57            | 115        | 2,957                          |
| Average number.....  | 5,450        | 1,052       | 2,633         | 84            | 128        | 3,647                          |
| Wages.....   | \$1,713,614  | \$317,909   | \$761,582     | \$22,175      | \$35,085   | \$1,026,402                    |
| Men, 16 years and over—  |              |             |               |               |            |                                |
| Average number.....  | 2,657        | 725         | 1,089         | 38            | 46         | 1,620                          |
| Wages.....   | \$1,039,333  | \$255,095   | \$449,927     | \$11,694      | \$17,291   | \$557,539                      |
| Women, 16 years and over—  |              |             |               |               |            |                                |
| Average number.....  | 2,312        | 315         | 1,083         | 46            | 61         | 1,655                          |
| Wages.....   | \$692,893    | \$60,766    | \$288,628     | \$10,481      | \$15,779   | \$419,181                      |
| Children, under 16 years—  |              |             |               |               |            |                                |
| Average number.....  | 481          | 12          | 511           |               | 21         | 392                            |
| Wages.....   | \$81,388     | \$2,048     | \$73,027      |               | \$2,015    | \$49,632                       |
| <b>Miscellaneous expenses:</b>   |              |             |               |               |            |                                |
| Total.....   | \$782,719    | \$96,471    | \$147,126     | \$8,052       | \$7,574    | \$750,740                      |
| Rent of works.....   | \$125,234    | \$1,151     | \$2,600       | \$2,150       | \$44       | \$15,112                       |
| Taxes, not including internal revenue.....   | \$40,915     | \$10,174    | \$7,526       | \$246         | \$1,103    | \$37,639                       |
| Rent of offices, insurance, interest, and all sundry expenses not hitherto included..... | \$616,570    | \$85,146    | \$114,608     | \$4,089       | \$6,427    | \$697,939                      |
| Contract work.....   |              |             | \$22,397      | \$1,567       |            |                                |
| <b>Materials used:</b>   |              |             |               |               |            |                                |
| Total cost.....  | \$7,516,240  | \$2,325,907 | \$5,448,323   | \$63,954      | \$109,016  | \$6,730,591                    |
| Principal materials.....   | \$6,781,255  | \$2,170,059 | \$3,298,323   | \$57,423      | \$103,050  | \$6,236,138                    |
| Fuel.....  | \$116,905    | \$20,915    | \$29,091      | \$707         | \$2,136    | \$71,147                       |
| Rent of power and heat.....  | \$8,012      |             | \$60          |               |            | \$87                           |
| Mill supplies.....   | \$164,676    | \$28,709    | \$95,079      | \$656         | \$1,757    | \$94,452                       |
| All other materials.....   | \$412,079    | \$46,923    | \$1,950,491   | \$4,131       | \$700      | \$186,039                      |
| Freight.....   | \$33,313     | \$59,301    | \$74,770      | \$287         | \$1,373    | \$31,301                       |
| <b>Products:</b>   |              |             |               |               |            |                                |
| Total value.....   | \$11,674,669 | \$2,957,674 | \$7,256,548   | \$108,715     | \$185,166  | \$9,905,351                    |

<sup>1</sup> Includes states having less than 3 establishments in order that the operations of individual establishments may not be disclosed. These establishments are distributed as follows: Arkansas, 1; California, 2; Delaware, 1; Georgia, 1; Illinois, 2; Indiana, 1; Iowa, 1; Kansas, 1; Maine, 2; Maryland, 1; Michigan, 1; Minnesota, 1; Mississippi, 1; Missouri, 2; New Hampshire, 1; North Carolina, 2; Oregon, 1; South Carolina, 1; Tennessee, 2; Texas, 2.

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DYEING AND FINISHING TEXTILES.

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## DYEING AND FINISHING TEXTILES.

By EDWARD STANWOOD, *Expert Special Agent.*

Dyeing and finishing textiles is carried on as an industry in independent establishments, and also as one of the processes in a considerable number of the factories engaged in cotton, wool, and silk manufactures. The various statistics relating to capital, employees, wages, miscellaneous expenses, cost of materials, and value of products, as to the independent establishments, must be given in order to complete the information regarding the textile industry as a whole. In the presentation of these statistics the rule adopted at all previous censuses, except one, has been followed. Inasmuch as all the material operated upon—yarn, cloth, hosiery, etc.—was reported by other textile establishments as products of manufacture, a return by the establishments exclusively engaged in dyeing and finishing textiles of the total value of the articles after the dyeing and finishing would have resulted in great duplication. For this reason the yarn and fabrics have been totally excluded from the statement of materials, and only the value added to the materials by the processes have been given as the value of the products of this particular branch of the textile industry.

The magnitude of the business of dyeing and finishing can be ascertained only by combining the statistics of independent establishments with similar information as to this work in other branches of the textile industry. Outside of the independent establishments, however, the finishing processes are subordinate to the process of manufacture, and the schedules provided for the taking of the textile industry were not sufficiently uniform in the details relating to dyeing and finishing to render a full presentation possible. Thus, the wool schedule calls for the value of chemicals and dye stuffs used in the mills devoted to that industry, but not for the amount of goods operated upon. On the other hand, the silk schedule calls for the amount of goods operated upon, but not for the value of chemicals and dye stuffs used.

The total cost of chemicals and dye stuffs used in all textile establishments in 1890 and 1900 so far as reported was as follows:

|   | 1900           | 1890           |
|---|----------------|----------------|
| Total .....                                       | \$25, 892, 578 | \$19, 686, 668 |
| Independent dyeing and finishing establishments.. | 10, 667, 621   | 8, 407, 698    |
| Other textile establishments.....                 | 14, 724, 952   | 11, 278, 970   |
| Cotton manufactures.....                          | 5, 718, 107    | 4, 266, 778    |
| Wool manufactures <sup>1</sup> .....              | 7, 988, 684    | 5, 889, 612    |
| Hosiery and knit goods.....                       | 1, 028, 161    | 564, 053       |
| Silk manufactures <sup>2</sup> .....              | .....          | 558, 582       |

<sup>1</sup> Including woolen goods; worsted goods; carpets and rugs, other than rag felt goods; and wool hats in 1890 and 1900.

<sup>2</sup> Not reported separately in 1900.

The increase in cost of chemicals and dye stuffs for the last decade has been marked; for the independent establishments from \$8,407,693 in 1890 to \$10,667,621 in 1900, an increase of \$2,259,928, or 26.9 per cent; and in cotton and wool manufactures, including hosiery and knit goods, from \$10,720,438 to \$14,724,952, an increase of \$4,004,514, or 37.4 per cent.

The large decrease in the price of merchandise in the decade is to be taken into account in examining the foregoing table. The quantity of chemicals used and the quantity of yarn and cloth operated upon increased in a much greater ratio than the value represented in products. In the case of some articles the increase can be shown. For example, the amount of cotton piece goods printed in 1890 was 722,257,451 square yards, of which 579,667,368 square yards were printed in independent establishments and 142,590,083 in cotton mills. In 1900 the aggregate was 1,233,191,438 square yards, an increase of 70.7 per cent. Of this, 940,450,338 square yards were printed by independent establishments and 292,741,100 square yards in cotton

mills, an increase of 62.2 per cent and 105.3 per cent, respectively.

The facts relating to the dyeing and finishing of cotton goods and silk goods are set forth in the reports on those branches of the textile industry. It has been explained that those relating to the wool industry are

not ascertainable in a way to throw much light upon the subject. The following tables and remarks apply to the independent establishments only.

Table 1 presents a comparative summary of the industry of dyeing and finishing textiles during the last half century.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

|   | DATE OF CENSUS. |              |              |              |             |              | PER CENT OF INCREASE. |              |              |              |              |
|---|-----------------|--------------|--------------|--------------|-------------|--------------|-----------------------|--------------|--------------|--------------|--------------|
|   | 1900            | 1890         | 1880         | 1870         | 1860        | 1850         | 1890 to 1900          | 1880 to 1890 | 1870 to 1880 | 1860 to 1870 | 1850 to 1860 |
| Number of establishments.....                 | 298             | 248          | 191          | 42           | 29          | 42           | 20.2                  | 29.8         | 854.8        | 44.8         | 131.0        |
| Capital.....                                  | \$60,643,104    | \$38,450,800 | \$26,223,981 | \$18,867,553 | \$8,517,250 | \$3,922,800  | 57.7                  | 46.6         | 96.2         | 280.1        | 110.3        |
| Salaries officials, clerks, etc., number..... | 1,318           | 2,666        | (3)          | (3)          | (3)         | (3)          | 97.9                  | .....        | .....        | .....        | .....        |
| Salaries.....                                 | \$2,267,128     | \$805,291    | (3)          | (3)          | (3)         | (3)          | 181.5                 | .....        | .....        | .....        | .....        |
| Wage-earners, average number.....             | 29,776          | 19,601       | 16,698       | 8,894        | 4,005       | 4,080        | 51.9                  | 17.4         | 87.7         | 122.1        | 11.8         |
| Total wages.....                              | \$12,726,316    | \$8,911,720  | \$6,474,364  | \$6,438,089  | \$1,088,296 | \$1,088,904  | 42.8                  | 37.6         | 88.3         | 215.9        | 16.1         |
| Men, 16 years and over.....                   | 24,419          | 16,510       | 12,788       | 6,092        | 3,433       | 3,351        | 47.9                  | 29.1         | 109.9        | 77.5         | 2.4          |
| Wages.....                                    | \$11,861,194    | \$8,147,844  | (3)          | (3)          | (3)         | (3)          | 39.4                  | .....        | .....        | .....        | .....        |
| Women, 16 years and over.....                 | 4,253           | 2,298        | 2,038        | 1,893        | 572         | 729          | 85.1                  | 12.8         | 46.3         | 143.5        | 121.5        |
| Wages.....                                    | \$1,166,972     | \$620,390    | (3)          | (3)          | (3)         | (3)          | 88.1                  | .....        | .....        | .....        | .....        |
| Children, under 16 years.....                 | 1,104           | 793          | 1,872        | 1,409        | (3)         | (3)          | 39.2                  | 157.6        | 32.9         | .....        | .....        |
| Wages.....                                    | \$198,150       | \$143,486    | (3)          | (3)          | (3)         | (3)          | 38.1                  | .....        | .....        | .....        | .....        |
| Miscellaneous expenses.....                   | \$4,137,947     | \$8,131,081  | (4)          | (4)          | (4)         | (4)          | 32.2                  | .....        | .....        | .....        | .....        |
| Cost of materials used.....                   | \$17,958,137    | \$12,385,220 | \$13,664,295 | \$46,373,358 | \$3,884,815 | \$10,462,044 | 45.0                  | 19.4         | 170.5        | 1093.7       | 162.9        |
| Value of products.....                        | \$44,963,331    | \$28,900,560 | \$32,297,420 | \$64,446,044 | \$7,971,064 | \$18,680,805 | 55.6                  | 110.5        | 140.7        | 583.0        | 141.7        |

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 5.)

<sup>3</sup> Not reported separately.

<sup>4</sup> Not reported.

The statements for 1850 and 1860 included only the statistics of calico printing and satinet printing, but it may be fairly assumed that these processes were substantially the only ones which came properly under the head of dyeing and finishing that were then performed on a large scale in the United States. During the last half century the amount of capital employed in the industry has increased more than fifteenfold. It nearly doubled between 1870 and 1880, increased 46.6 per cent between 1880 and 1890, and 57.7 per cent during the last decade. The number of wage-earners increased at a smaller ratio, but the increase from 1890 to 1900 was substantially equal to the increase of capital.

The statements of materials used and value of products are necessarily misleading in one respect, namely, that in 1870 the total value of the yarn and cloth operated upon were reported as cost of materials, and the value of the goods after the operations were performed was reported as the total value. This accounts for the inconsistency in the cost of materials and value of products shown for 1870 compared with similar items at other censuses.

Table 2 exhibits the general facts relating to the industry in detail as ascertained at the censuses of 1890 and 1900.

DYEING AND FINISHING TEXTILES.

TABLE 2.—COMPARATIVE SUMMARY BY STATES: 1890 AND 1900.

| STATES.                       | Year. | Number of establishments. | CAPITAL.     |             |              |                                   |                    | SALARIED OFFICIALS, CLERKS, ETC. |             | AVERAGE NUMBER WAGE-EARNERS AND TOTAL WAGES. |              |                         |                           |                           |
|-------------------------------|-------|---------------------------|--------------|-------------|--------------|-----------------------------------|--------------------|----------------------------------|-------------|--|--------------|-------------------------|---------------------------|---------------------------|
|                               |       |                           | Total.       | Land.       | Buildings.   | Machinery, tools, and implements. | Cash and sundries. | Number.                          | Salaries.   | Average number.                              | Total wages. | Men, 16 years and over. | Women, 16 years and over. | Children, under 16 years. |
| United States..               | 1900  | 298                       | \$60,643,104 | \$5,304,940 | \$12,251,886 | \$17,750,574                      | \$25,335,695       | 1,318                            | \$2,267,128 | 29,776                                       | \$12,726,316 | 24,419                  | 4,253                     | 1,104                     |
|                               | 1890  | 248                       | 38,450,800   | 2,579,114   | 7,596,641    | 9,703,284                         | 18,571,761         | 668                              | 805,291     | 19,601                                       | 8,911,720    | 16,510                  | 2,298                     | 793                       |
| Connecticut .....             | 1900  | 5                         | 3,243,744    | 482,100     | 1,004,388    | 929,262                           | 327,994            | 39                               | 100,884     | 1,300  | 578,756      | 1,015                   | 238                       | 47                        |
|                               | 1890  | 5                         | 775,852      | 58,700      | 331,184      | 231,212                           | 154,256            | 12                               | 14,250      | 477  | 237,102      | 390                     | 85                        | 2                         |
| Illinois.....                 | 1900  | 4                         | 113,694      | 7,500       | 42,000       | 50,800                            | 13,394             | 7                                | 6,700       | 84   | 27,878       | 69                      | 10                        | 5                         |
|                               | 1890  | 3                         | 26,500       | 3,500       | 6,000        | 11,000                            | 6,000              | 5                                | 2,532       | 16   | 7,892        | 13                      | 3                         | .....                     |
| Kentucky.....                 | 1900  | 3                         | 161,239      | 7,800       | 28,922       | 55,455                            | 69,062             | 7                                | 9,090       | 116  | 45,225       | 83                      | 25                        | 8                         |
|                               | 1890  | .....                     | .....        | .....       | .....        | .....                             | .....              | .....                            | .....       | .....  | .....        | .....                   | .....                     | .....                     |
| Massachusetts..               | 1900  | 37                        | 15,206,200   | 1,161,503   | 1,960,972    | 2,499,388                         | 9,584,337          | 239                              | 547,862     | 4,678  | 2,081,015    | 3,846                   | 735                       | 97                        |
|                               | 1890  | 33                        | 11,996,154   | 673,931     | 2,010,687    | 2,502,395                         | 6,808,641          | 82                               | 99,320      | 4,270  | 1,809,787    | 3,527                   | 539                       | 204                       |
| New Hampshire                 | 1900  | 5                         | 383,704      | 61,000      | 153,000      | 173,500                           | 496,204            | 21                               | 28,900      | 1,028  | 451,960      | 789                     | 239                       | .....                     |
|                               | 1890  | .....                     | .....        | .....       | .....        | .....                             | .....              | .....                            | .....       | .....  | .....        | .....                   | .....                     | .....                     |
| New Jersey.....               | 1900  | 59                        | 11,600,695   | 651,481     | 2,100,396    | 4,624,059                         | 4,224,759          | 353                              | 614,910     | 7,074  | 3,003,491    | 6,120                   | 786                       | 168                       |
|                               | 1890  | 41                        | 5,197,403    | 333,936     | 879,577      | 1,782,696                         | 2,201,194          | 129                              | 179,425     | 3,785  | 1,878,137    | 3,335                   | 346                       | 54                        |
| New York.....                 | 1900  | 42                        | 6,230,657    | 339,909     | 1,335,748    | 2,097,541                         | 2,457,459          | 107                              | 134,345     | 3,117  | 1,424,578    | 2,395                   | 686                       | 86                        |
|                               | 1890  | 49                        | 4,963,095    | 306,300     | 721,700      | 1,137,566                         | 2,737,529          | 114                              | 137,473     | 2,725  | 1,344,250    | 2,174                   | 415                       | 136                       |
| North Carolina..              | 1900  | 5                         | 293,831      | 4,700       | 33,800       | 184,022                           | 71,809             | 8                                | 6,650       | 184  | 45,340       | 142                     | 42                        | .....                     |
|                               | 1890  | .....                     | .....        | .....       | .....        | .....                             | .....              | .....                            | .....       | .....  | .....        | .....                   | .....                     | .....                     |
| Pennsylvania...               | 1900  | 105                       | 7,679,906    | 733,612     | 1,290,133    | 2,368,629                         | 3,287,532          | 216                              | 260,277     | 4,716  | 2,065,752    | 4,013                   | 346                       | 357                       |
|                               | 1890  | 33                        | 6,296,340    | 598,647     | 1,354,200    | 1,839,121                         | 2,504,372          | 190                              | 207,257     | 3,355  | 1,596,565    | 2,964                   | 212                       | 179                       |
| Rhode Island...               | 1900  | 24                        | 12,853,123   | 1,572,306   | 3,765,314    | 3,862,803                         | 3,652,700          | 256                              | 449,996     | 5,942  | 2,474,042    | 4,644                   | 1,039                     | 259                       |
|                               | 1890  | 22                        | 5,739,692    | 432,600     | 1,332,398    | 1,493,323                         | 1,976,371          | 101                              | 130,059     | 3,619  | 1,462,996    | 2,904                   | 570                       | 145                       |
| All other states <sup>2</sup> | 1900  | 9                         | 2,376,311    | 233,038     | 537,213      | 905,115                           | 650,945            | 65                               | 112,514     | 1,537  | 528,279      | 1,303                   | 157                       | 77                        |
|                               | 1890  | 12                        | 3,456,264    | 111,500     | 460,395      | 700,471                           | 2,133,398          | 33                               | 34,975      | 1,404  | 574,991      | 1,203                   | 123                       | 73                        |

| STATES.                       | Year. | Number of establishments. | Miscellaneous expenses. | COST OF MATERIALS USED. |                          |           |           |             |                         | Value of products. |                      |
|-------------------------------|-------|---------------------------|-------------------------|-------------------------|--------------------------|-----------|-----------|-------------|-------------------------|--------------------|----------------------|
|                               |       |                           |                         | Total.                  | Chemicals and dyestuffs. | Starch.   | Soap.     | Fuel.       | Rent of power and heat. |                    | All other materials. |
| United States..               | 1900  | 298                       | \$4,137,947             | \$17,958,137            | \$10,667,621             | \$374,643 | \$563,809 | \$2,165,091 | \$53,730                | \$3,633,243        | \$44,963,331         |
|                               | 1890  | 248                       | 3,131,081               | 12,385,220              | 8,407,693                | 660,577   | 279,272   | 1,647,848   | 23,138                  | 1,366,692          | 28,900,560           |
| Connecticut.....              | 1900  | 5                         | 216,075                 | 907,377                 | 561,619                  | 86,715    | 17,129    | 113,780     | 7,955                   | 170,179            | 2,269,067            |
|                               | 1890  | 5                         | 77,336                  | 300,360                 | 114,126                  | 17,815    | 2,049     | 58,711      | .....                   | 107,659            | 715,388              |
| Illinois.....                 | 1900  | 4                         | 5,913                   | 32,523                  | 18,966                   | 560       | 445       | 7,546       | .....                   | 5,006              | 86,960               |
|                               | 1890  | 3                         | 1,426                   | 6,846                   | 4,270                    | .....     | 504       | 1,072       | .....                   | 1,000              | 26,741               |
| Kentucky.....                 | 1900  | 3                         | 9,702                   | 84,023                  | 71,518                   | 4,162     | 160       | 6,300       | 180                     | 1,703              | 179,123              |
|                               | 1890  | .....                     | .....                   | .....                   | .....                    | .....     | .....     | .....       | .....                   | .....              | .....                |
| Massachusetts....             | 1900  | 37                        | 866,829                 | 8,110,910               | 2,031,072                | 100,016   | 9,506     | 393,711     | 5,512                   | 511,093            | 8,868,290            |
|                               | 1890  | 33                        | 869,669                 | 2,801,364               | 1,950,550                | 125,288   | 25,599    | 404,778     | 6,413                   | 288,736            | 6,496,216            |
| New Hampshire...              | 1900  | 5                         | 111,478                 | 636,469                 | 309,296                  | 23,646    | 25,034    | 74,451      | 60                      | 203,992            | 1,323,319            |
|                               | 1890  | .....                     | .....                   | .....                   | .....                    | .....     | .....     | .....       | .....                   | .....              | .....                |
| New Jersey.....               | 1900  | 59                        | 809,580                 | 4,513,768               | 2,755,553                | 165,723   | 224,298   | 411,178     | 9,497                   | 947,514            | 10,438,963           |
|                               | 1890  | 41                        | 752,461                 | 2,711,121               | 2,068,192                | 109,466   | 83,775    | 239,329     | 2,500                   | 207,859            | 6,133,307            |
| New York.....                 | 1900  | 42                        | 210,395                 | 1,402,373               | 689,325                  | 63,124    | 46,131    | 202,074     | 8,564                   | 392,655            | 3,625,882            |
|                               | 1890  | 49                        | 367,935                 | 1,454,119               | 839,577                  | 73,836    | 44,321    | 216,618     | 4,775                   | 224,992            | 3,636,051            |
| North Carolina..              | 1900  | 5                         | 13,366                  | 95,210                  | 13,000                   | 14,334    | 220       | 10,767      | .....                   | 56,839             | 175,754              |
|                               | 1890  | .....                     | .....                   | .....                   | .....                    | .....     | .....     | .....       | .....                   | .....              | .....                |
| Pennsylvania....              | 1900  | 105                       | 556,033                 | 8,174,507               | 2,063,174                | 94,373    | 172,970   | 342,671     | 8,772                   | 437,547            | 7,038,012            |
|                               | 1890  | 33                        | 419,456                 | 2,395,432               | 1,808,041                | 107,269   | 80,793    | 284,546     | 6,250                   | 108,533            | 5,240,761            |
| Rhode Island.....             | 1900  | 24                        | 1,188,065               | 3,037,781               | 1,653,059                | 205,321   | 62,048    | 513,837     | 20                      | 653,496            | 8,434,878            |
|                               | 1890  | 22                        | 393,549                 | 1,819,351               | 1,064,476                | 129,050   | 32,205    | 351,521     | 1,200                   | 240,900            | 4,743,561            |
| All other states <sup>3</sup> | 1900  | 9                         | 200,461                 | 913,196                 | 495,539                  | 106,164   | 5,368     | 33,776      | 13,130                  | 203,669            | 2,417,137            |
|                               | 1890  | 12                        | 249,249                 | 896,577                 | 508,462                  | 97,353    | 10,026    | 91,273      | 2,000                   | 136,963            | 1,853,446            |

<sup>1</sup> No establishments reported, 1890.  
<sup>2</sup> Included in "all other states," 1890.  
<sup>3</sup> Includes establishments distributed as follows: 1900—Alabama, 1; Delaware, 2; Indiana, 1; Maine, 1; Maryland, 2; Ohio, 1; West Virginia, 1. 1890—Delaware, 1; Iowa, 1; Maine, 1; Maryland, 2; Minnesota, 1; Missouri, 1; New Hampshire, 2; Ohio, 2; West Virginia, 1.

The number of independent establishments increased during the decade from 248 to 298. Of this increase, 22 are credited to Pennsylvania and 18 to New Jersey, and they indicate a great extension of the business of silk dyeing and finishing in the 2 states where the silk industry is most concentrated. The increase in the other items is more nearly equalized among the states owing to the expansion of individual establishments. Thus, in Connecticut the amount of capital reported is more than four times as great in 1900 as in 1890, although the number of establishments is the same. Rhode Island, with only 2 additional establishments, has more than doubled its capital, and Massachusetts, although adding but 4 establishments, has 26.8 per cent greater capital. The same fact appears in the statement of the average number of wage-earners, for although nearly one-half of the increase has taken place in the states of New Jersey and Pennsylvania, there has also been a large increase in the New England states, where the number of establishments has not substantially increased.

Of the total cost of materials used, \$17,958,137, the cost of chemicals and dyestuffs represents a value of \$10,667,621, or about 59.4 per cent of the whole. In 1890 the corresponding percentage was about 67.9 per cent—a fact which illustrates the decline which has taken place during the decade in the cost of such materials.

The increase in the added value given to fabrics by the processes to which they were subjected is 55.6 per cent in comparison with an increase of 45 per cent in the cost of materials used. The difference is due to the fact that, while the cost of materials has declined, the items of wages and miscellaneous expenses have not.

Table 3 presents the quantity and value of all classes of goods operated upon and value added in independent establishments, 1890 and 1900.

TABLE 3.—COMPARATIVE SUMMARY, KINDS AND QUANTITY OF GOODS OPERATED UPON AND VALUE ADDED BY INDEPENDENT ESTABLISHMENTS, 1890 AND 1900.

|                                      | 1900          |              | 1890          |              |
|--------------------------------------|---------------|--------------|---------------|--------------|
|                                      | Pounds.       | Value.       | Pounds.       | Value.       |
| Aggregate value .....                |               | \$44,968,331 |               | \$28,900,560 |
| Total .....                          | 118,097,838   | 8,097,439    | 85,575,424    | 6,001,754    |
| Cotton stock, bleached .....         | 300,650       | 4,823        |               |              |
| Cotton stock, dyed .....             | 12,466,700    | 572,661      | 4,676,844     | 204,827      |
| Wool stock, dyed .....               | 2,408,511     | 83,071       | 1,160,666     | 48,828       |
| Cotton yarn, bleached .....          | 12,780,518    | 252,685      |               |              |
| Cotton yarn, dyed .....              | 54,108,555    | 2,226,012    | 48,762,759    | 2,036,127    |
| Cotton yarn, mercerized .....        | 338,851       | 159,616      |               |              |
| Woolen yarn, dyed .....              | 20,755,984    | 557,001      | 17,999,651    | 751,891      |
| Worsted yarn, dyed .....             | 8,474,562     | 491,291      | 9,342,157     | 493,074      |
| Silk yarn, dyed .....                | 8,608,444     | 3,615,644    | 3,322,017     | 2,346,387    |
| Spun silk yarn, dyed .....           | 329,068       | 133,785      | 311,830       | 119,810      |
|                                      | Square yards. | Value.       | Square yards. | Value.       |
| Total .....                          | 2,511,485,729 | \$34,599,542 | 1,569,422,631 | \$22,514,000 |
| Cotton piece goods, bleached .....   | 964,902,367   | 6,691,423    | 454,357,758   | 3,369,940    |
| Cotton piece goods, dyed .....       | 559,480,339   | 7,585,204    | 446,406,822   | 5,671,488    |
| Cotton piece goods, mercerized ..... | 7,978,506     | 400,118      |               |              |
| Cotton piece goods, printed .....    | 940,450,338   | 15,997,087   | 579,667,368   | 10,355,032   |
| Woolen piece goods, dyed .....       | 11,243,894    | 451,864      | 20,779,034    | 652,098      |
| Worsted piece goods, dyed .....      | 9,418,337     | 476,951      |               |              |
| Silk piece goods, dyed .....         | 14,340,796    | 481,463      | 7,405,399     | 394,777      |
| Silk piece goods, printed .....      | 3,681,652     | 335,164      |               |              |
| Mixed piece goods, dyed .....        |               | 2,180,278    | 60,716,250    | 2,069,765    |
| All other work done .....            |               | 2,266,350    |               | 384,806      |

Inasmuch as the dyeing and finishing of goods in cotton mills represents generally merely work upon their own products, the true measure of increase of the business is discovered more from the foregoing table than from a combination of the two. It will be seen that there has been an increase in almost all departments of dyeing and finishing, but the increase is much less marked in the case of woolen goods than in cotton and silk.

Table 4 shows, by states, with totals for the United States, the returns of establishments engaged in dyeing and finishing cotton, woolen, and worsted, silk, and mixed goods, and yarns, respectively, 1900, and Table 5 presents a detailed summary of the industry for 1900.

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## MANUFACTURES.

TABLE 4.—DYEING AND FINISHING TEXTILES.

## COTTON GOODS AND YARNS.

| STATES.                                | Number of establishments. | Capital.     | AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. |             |                         |                           |                           |
|--|---------------------------|--------------|---|-------------|-------------------------|---------------------------|---------------------------|
|  |                           |              | Average number.                                 | Wages.      | Men, 16 years and over. | Women, 16 years and over. | Children, under 16 years. |
| 1 United States .....                  | 173                       | \$52,287,850 | 23,236  | \$9,847,474 | 18,847                  | 3,433                     | 950                       |
| 2 Connecticut.....                     | 5                         | 3,243,744    | 1,300   | 578,756     | 1,015                   | 238                       | 47                        |
| 3 Kentucky.....                        | 3                         | 161,239      | 116   | 45,225      | 88                      | 25                        | 8                         |
| 4 Massachusetts.....                   | 33                        | 14,927,875   | 4,577   | 2,081,255   | 3,771                   | 709                       | 97                        |
| 5 New Hampshire.....                   | 4                         | 675,704      | 903   | 409,960     | 749                     | 154                       | .....                     |
| 6 New Jersey.....                      | 20                        | 7,264,547    | 3,459   | 1,467,571   | 2,809                   | 552                       | 95                        |
| 7 New York.....                        | 17                        | 4,959,763    | 2,143   | 997,175     | 1,708                   | 349                       | 80                        |
| 8 North Carolina.....                  | 5                         | 293,831      | 184   | 45,340      | 142                     | 42                        | .....                     |
| 9 Pennsylvania.....                    | 56                        | 5,799,650    | 3,286   | 1,369,807   | 2,748                   | 254                       | 281                       |
| 10 Rhode Island.....                   | 20                        | 12,573,769   | 5,760   | 2,389,911   | 4,531                   | 973                       | 256                       |
| 11 All other states <sup>1</sup> ..... | 10                        | 2,888,228    | 1,508   | 512,474     | 1,291                   | 137                       | 80                        |

## WOOLEN GOODS AND WORSTED GOODS AND YARNS.

|                                       |    |             |       |           |       |     |       |
|---------------------------------------|----|-------------|-------|-----------|-------|-----|-------|
| 1 United States .....                 | 33 | \$1,561,790 | 1,236 | \$603,100 | 1,076 | 137 | 23    |
| 2 Massachusetts.....                  | 3  | 128,749     | 64    | 23,819    | 44    | 20  | ..... |
| 3 New York.....                       | 3  | 63,322      | 45    | 19,965    | 44    | 1   | ..... |
| 4 Pennsylvania.....                   | 23 | 1,261,442   | 942   | 477,081   | 867   | 54  | 21    |
| 5 All other states <sup>2</sup> ..... | 4  | 168,277     | 185   | 82,235    | 121   | 62  | 2     |

## MIXED GOODS AND YARNS.

|                                   |    |             |       |           |     |     |       |
|-----------------------------------|----|-------------|-------|-----------|-----|-----|-------|
| 1 United States .....             | 41 | \$2,855,930 | 1,416 | \$598,653 | 956 | 404 | 56    |
| 2 New Jersey.....                 | 6  | 276,987     | 99    | 45,740    | 91  | 5   | 3     |
| 3 New York.....                   | 10 | 1,010,932   | 685   | 288,464   | 444 | 241 | ..... |
| 4 Pennsylvania.....               | 20 | 492,061     | 355   | 147,877   | 272 | 33  | 50    |
| 5 Rhode Island <sup>3</sup> ..... | 5  | 575,930     | 277   | 116,572   | 149 | 125 | 3     |

## SILK GOODS AND YARNS.

|                               |    |             |       |             |       |     |       |
|-------------------------------|----|-------------|-------|-------------|-------|-----|-------|
| 1 United States .....         | 51 | \$4,437,534 | 3,888 | \$1,677,089 | 3,540 | 279 | 69    |
| 2 New Jersey.....             | 32 | 4,052,461   | 3,510 | 1,486,628   | 3,214 | 229 | 67    |
| 3 New York <sup>4</sup> ..... | 13 | 198,320     | 245   | 119,474     | 200   | 45  | ..... |
| 4 Pennsylvania.....           | 6  | 186,753     | 133   | 70,987      | 126   | 5   | 2     |

<sup>1</sup> Includes establishments distributed as follows: Alabama, 1; Delaware, 2; Illinois, 2; Indiana, 1; Maine, 1; Maryland, 2; West Virginia, 1.

<sup>2</sup> Includes establishments distributed as follows: Illinois, 1; New Jersey, 1; Ohio, 1; Rhode Island, 1.

<sup>3</sup> Includes 1 establishment in Massachusetts and 1 in New Hampshire.

<sup>4</sup> Includes 1 establishment in Illinois.

DYEING AND FINISHING TEXTILES.

BY CLASSES OF TEXTILES, 1900.

COTTON GOODS AND YARNS.

| POWER.             |                    |                        | Printing machines. | Miscellaneous expenses. | COST OF MATERIALS USED. |                          |             |                         |                      | Value of products. |    |
|--------------------|--------------------|------------------------|--------------------|-------------------------|-------------------------|--------------------------|-------------|-------------------------|----------------------|--------------------|----|
| Steam horse-power. | Water horse-power. | All other horse-power. |                    |                         | Total.                  | Chemicals and dyestuffs. | Fuel.       | Rent of power and heat. | All other materials. |                    |    |
| 49,415             | 9,074              | 3,316                  | 298                | \$8,630,012             | \$14,019,084            | \$8,033,680              | \$1,827,815 | \$36,034                | \$4,121,555          | \$95,850,505       | 1  |
| 2,558              | 2,156              | 400                    | 16                 | 216,075                 | 907,377                 | 561,619                  | 113,780     | 7,955                   | 224,023              | 2,269,907          | 2  |
| 284                | .....              | 40                     | 1                  | 9,702                   | 84,023                  | 71,513                   | 6,300       | 180                     | 6,025                | 179,123            | 3  |
| 11,062             | 2,800              | 122                    | 68                 | 857,065                 | 3,035,697               | 1,984,716                | 382,562     | 5,512                   | 662,907              | 8,698,026          | 4  |
| 20                 | 375                | .....                  | 16                 | 89,128                  | 556,869                 | 294,296                  | 72,251      | 50                      | 190,272              | 1,182,819          | 5  |
| 6,864              | 1,330              | .....                  | 53                 | 599,590                 | 2,246,230               | 1,112,252                | 251,519     | 6,237                   | 876,222              | 5,247,300          | 6  |
| 5,139              | 240                | .....                  | 49                 | 123,682                 | 1,129,216               | 585,627                  | 170,774     | 1,245                   | 371,570              | 2,491,791          | 7  |
| 345                | .....              | 5                      | .....              | 13,366                  | 95,210                  | 13,000                   | 10,767      | .....                   | 71,443               | 176,750            | 8  |
| 7,464              | 85                 | .....                  | 30                 | 401,404                 | 2,136,181               | 1,372,179                | 235,871     | 1,655                   | 526,476              | 4,637,405          | 9  |
| 12,303             | 675                | 2,577                  | 63                 | 1,121,563               | 2,954,298               | 1,573,455                | 497,461     | 20                      | 888,362              | 8,192,350          | 10 |
| 2,781              | 1,963              | 172                    | 2                  | 198,433                 | 878,933                 | 465,018                  | 86,530      | 13,130                  | 309,255              | 2,276,374          | 11 |

WOOLEN GOODS AND WORSTED GOODS AND YARNS.

|       |       |     |       |           |           |           |           |         |           |             |   |
|-------|-------|-----|-------|-----------|-----------|-----------|-----------|---------|-----------|-------------|---|
| 1,792 | 260   | 124 | ..... | \$115,894 | \$962,108 | \$641,413 | \$106,686 | \$4,150 | \$209,359 | \$2,104,418 | 1 |
| 160   | 60    | 3   | ..... | 4,377     | 45,004    | 32,400    | 7,764     | .....   | 4,840     | 102,114     | 2 |
| 10    | 200   | 4   | ..... | 2,432     | 31,751    | 21,557    | 4,248     | 400     | 5,546     | 66,153      | 3 |
| 1,404 | ..... | 107 | ..... | 100,417   | 725,503   | 485,048   | 75,620    | 3,750   | 161,035   | 1,572,233   | 4 |
| 228   | ..... | 10  | ..... | 8,668     | 159,350   | 102,408   | 19,054    | .....   | 33,388    | 363,913     | 5 |

MIXED GOODS AND YARNS.

|       |       |       |       |           |           |           |          |         |           |             |   |
|-------|-------|-------|-------|-----------|-----------|-----------|----------|---------|-----------|-------------|---|
| 2,671 | 140   | 79    | 20    | \$174,495 | \$616,644 | \$265,362 | \$68,131 | \$7,746 | \$275,405 | \$1,969,446 | 1 |
| 362   | ..... | 20    | ..... | 27,510    | 68,020    | 27,125    | 9,053    | 360     | 31,432    | 182,610     | 2 |
| 882   | ..... | 39    | 6     | 65,935    | 174,016   | 40,398    | 20,962   | 4,119   | 103,037   | 304,213     | 3 |
| 1,015 | ..... | 20    | 11    | 37,621    | 215,316   | 137,779   | 25,155   | 3,267   | 49,115    | 551,845     | 4 |
| 412   | 140   | ..... | 3     | 43,429    | 159,292   | 59,560    | 12,961   | .....   | 36,771    | 430,778     | 5 |

SILK GOODS AND YARNS.

|       |       |       |       |           |             |             |           |         |           |             |   |
|-------|-------|-------|-------|-----------|-------------|-------------|-----------|---------|-----------|-------------|---|
| 4,204 | ..... | 112   | 16    | \$217,546 | \$2,360,301 | \$1,727,166 | \$162,459 | \$5,800 | \$404,876 | \$5,538,962 | 1 |
| 3,767 | ..... | 112   | 11    | 182,248   | 2,194,665   | 1,611,955   | 150,044   | 2,900   | 429,766   | 5,046,088   | 2 |
| 375   | ..... | ..... | 5     | 18,657    | 68,129      | 42,043      | 6,390     | 2,800   | 16,896    | 266,345     | 3 |
| 62    | ..... | ..... | ..... | 16,641    | 97,507      | 73,168      | 6,025     | 100     | 18,214    | 226,529     | 4 |

TABLE 5.—DYEING AND FINISHING

|   | United States. | Connecticut. | Illinois. | Kentucky. |
|---|----------------|--------------|-----------|-----------|
| 1 Number of establishments.....   | 298            | 5            | 4         | 3         |
| 2 Character of organization:  |                |              |           |           |
| 3 Individual.....   | 103            |              | 2         |           |
| 4 Firm and limited partnership.....   | 81             |              |           | 1         |
| 5 Incorporated company.....   | 114            | 5            | 2         | 2         |
| 6 Miscellaneous.....  |                |              |           |           |
| 7 Capital:  |                |              |           |           |
| 8 Total.....  | \$60,643,104   | \$3,243,744  | \$113,694 | \$161,239 |
| 9 Land.....   | \$5,304,949    | \$482,100    | \$7,500   | \$7,800   |
| 10 Buildings.....   | \$12,251,886   | \$1,004,388  | \$42,000  | \$28,922  |
| 11 Machinery, tools, and implements.....  | \$17,750,574   | \$929,262    | \$50,800  | \$55,455  |
| 12 Cash and sundries.....   | \$25,335,695   | \$827,994    | \$13,394  | \$69,062  |
| 13 Proprietors and firm members.....  | 300            |              | 2         | 3         |
| 14 Salaried officials, clerks, etc.:  |                |              |           |           |
| 15 Total number.....  | 1,318          | 39           | 7         | 7         |
| 16 Total salaries.....  | \$2,267,128    | \$100,884    | \$6,700   | \$9,090   |
| 17 Officers of corporations—  |                |              |           |           |
| 18 Number.....  | 211            | 16           | 1         | 2         |
| 19 Salaries.....  | \$814,895      | \$51,797     | \$2,500   | \$5,300   |
| 20 General superintendents, managers, clerks, etc.—   |                |              |           |           |
| 21 Total number.....  | 1,107          | 23           | 6         | 5         |
| 22 Total salaries.....  | \$1,452,233    | \$49,087     | \$4,200   | \$3,790   |
| 23 Men—   |                |              |           |           |
| 24 Number.....  | 994            | 21           | 3         | 5         |
| 25 Salaries.....  | \$1,401,799    | \$48,050     | \$2,700   | \$3,790   |
| 26 Women—   |                |              |           |           |
| 27 Number.....  | 113            | 2            | 3         |           |
| 28 Salaries.....  | \$50,434       | \$1,037      | \$1,500   |           |
| 29 Wage-earners, including pieceworkers, and total wages:                                   |                |              |           |           |
| 30 Greatest number employed at any one time during the year.....                            | 33,387         | 1,511        | 113       | 128       |
| 31 Least number employed at any one time during the year.....                               | 26,275         | 1,184        | 54        | 100       |
| 32 Average number.....  | 29,776         | 1,300        | 84        | 116       |
| 33 Wages.....   | \$12,726,316   | \$578,756    | \$27,878  | \$45,225  |
| 34 Men, 16 years and over—  |                |              |           |           |
| 35 Average number.....  | 24,419         | 1,015        | 69        | 83        |
| 36 Wages.....   | \$11,361,194   | \$507,632    | \$24,129  | \$39,987  |
| 37 Women, 16 years and over—  |                |              |           |           |
| 38 Average number.....  | 4,253          | 238          | 10        | 25        |
| 39 Wages.....   | \$1,166,972    | \$61,689     | \$2,925   | \$4,138   |
| 40 Children under 16 years—   |                |              |           |           |
| 41 Average number.....  | 1,104          | 47           | 5         | 8         |
| 42 Wages.....   | \$198,150      | \$9,435      | \$324     | \$1,100   |
| 43 Average number of wage-earners, including pieceworkers, employed during each month:      |                |              |           |           |
| 44 Men, 16 years and over—  |                |              |           |           |
| 45 January.....   | 24,387         | 950          | 71        | 89        |
| 46 February.....  | 24,093         | 976          | 83        | 87        |
| 47 March.....   | 24,497         | 979          | 88        | 86        |
| 48 April.....   | 24,728         | 1,004        | 73        | 86        |
| 49 May.....   | 24,506         | 988          | 74        | 85        |
| 50 June.....  | 24,020         | 1,003        | 72        | 82        |
| 51 July.....  | 23,836         | 1,012        | 72        | 75        |
| 52 August.....  | 23,885         | 1,029        | 68        | 75        |
| 53 September.....   | 24,020         | 1,029        | 73        | 77        |
| 54 October.....   | 24,757         | 1,031        | 60        | 81        |
| 55 November.....  | 25,070         | 1,084        | 57        | 89        |
| 56 December.....  | 25,229         | 1,090        | 48        | 89        |
| 57 Women, 16 years and over—  |                |              |           |           |
| 58 January.....   | 4,374          | 217          | 18        | 30        |
| 59 February.....  | 4,328          | 221          | 18        | 31        |
| 60 March.....   | 4,359          | 289          | 17        | 31        |
| 61 April.....   | 4,344          | 255          | 17        | 30        |
| 62 May.....   | 4,256          | 253          | 18        | 27        |
| 63 June.....  | 4,147          | 246          | 8         | 19        |
| 64 July.....  | 4,010          | 216          | 4         | 13        |
| 65 August.....  | 4,008          | 233          | 3         | 13        |
| 66 September.....   | 4,135          | 238          | 4         | 25        |
| 67 October.....   | 4,304          | 225          | 4         | 22        |
| 68 November.....  | 4,547          | 233          | 4         | 27        |
| 69 December.....  | 4,424          | 230          | 4         | 30        |
| 70 Children, under 16 years—  |                |              |           |           |
| 71 January.....   | 1,093          | 45           | 4         | 8         |
| 72 February.....  | 1,078          | 48           | 4         | 8         |
| 73 March.....   | 1,080          | 47           | 4         | 8         |
| 74 April.....   | 1,085          | 44           | 4         | 8         |
| 75 May.....   | 1,075          | 41           | 4         | 8         |
| 76 June.....  | 1,089          | 42           | 5         | 8         |
| 77 July.....  | 1,111          | 50           | 5         | 8         |
| 78 August.....  | 1,125          | 50           | 5         | 8         |
| 79 September.....   | 1,113          | 50           | 5         | 8         |
| 80 October.....   | 1,124          | 49           | 5         | 8         |
| 81 November.....  | 1,130          | 50           | 5         | 8         |
| 82 December.....  | 1,140          | 51           | 5         | 8         |
| 83 Miscellaneous expenses:  |                |              |           |           |
| 84 Total.....   | \$4,137,947    | \$216,075    | \$5,913   | \$9,702   |
| 85 Rent of works.....   | \$145,075      |              | \$900     | \$360     |
| 86 Taxes, not including internal revenue.....   | \$281,974      | \$10,084     | \$284     | \$640     |
| 87 Rent of offices, insurance, interest, and all sundry expenses not hitherto included..... | \$3,669,163    | \$192,063    | \$4,729   | \$8,702   |
| 88 Contract work.....   | \$41,735       | \$7,928      |           |           |
| 89 Materials used:  |                |              |           |           |
| 90 Aggregate cost.....  | \$17,958,137   | \$907,377    | \$32,523  | \$34,023  |
| 91 Chemicals and dyestuffs—   |                |              |           |           |
| 92 Cost.....  | \$10,667,621   | \$561,619    | \$18,966  | \$71,518  |
| 93 Starch—  |                |              |           |           |
| 94 Pounds.....  | 33,850,002     | 1,359,532    | 46,087    | 138,754   |
| 95 Cost.....  | \$874,643      | \$36,715     | \$560     | \$4,162   |
| 96 Silk soap—   |                |              |           |           |
| 97 Pounds.....  | 5,105,575      | 4,200        | 2,500     |           |
| 98 Cost.....  | \$232,706      | \$210        | \$135     |           |
| 99 Other soap—  |                |              |           |           |
| 100 Pounds.....   | 9,835,976      | 469,612      | 10,000    | 3,200     |
| 101 Cost.....   | \$381,103      | \$16,919     | \$310     | \$160     |
| 102 Fuel.....   | \$2,165,081    | \$113,780    | \$7,546   | \$6,300   |
| 103 Rent of power and heat.....   | \$53,730       | \$7,355      |           | \$180     |
| 104 Mill supplies.....  | \$972,207      | \$13,840     | \$929     | \$650     |
| 105 All other materials.....  | \$2,171,482    | \$103,804    | \$558     | \$1,053   |
| 106 Freight.....  | \$489,554      | \$47,535     | \$3,319   |           |

TEXTILES: BY STATES, 1900.

| Massachusetts. | New Hampshire. | New Jersey.  | New York.   | North Carolina. | Pennsylvania. | Rhode Island. | All other states. <sup>1</sup> |    |  |
|----------------|----------------|--------------|-------------|-----------------|---------------|---------------|--------------------------------|----|--|
| 37             | 5              | 59           | 42          | 5               | 105           | 24            | 9                              | 1  |  |
| 9              | 3              | 22           | 16          | 2               | 46            | 2             | 2                              | 2  |  |
| 6              | 15             | 7            | 15          | 1               | 46            | 2             | 3                              | 3  |  |
| 22             | 2              | 30           | 11          | 2               | 13            | 20            | 7                              | 4  |  |
|                |                |              |             |                 |               |               |                                | 5  |  |
| \$15,206,200   | \$883,704      | \$11,600,695 | \$6,230,657 | \$293,831       | \$7,679,906   | \$12,853,123  | \$2,376,311                    | 6  |  |
| \$1,161,503    | \$61,000       | \$651,481    | \$339,909   | \$4,700         | \$733,612     | \$1,572,306   | \$233,038                      | 7  |  |
| \$1,960,972    | \$163,000      | \$2,100,396  | \$1,335,743 | \$33,800        | \$1,290,133   | \$5,765,314   | \$537,213                      | 8  |  |
| \$2,499,388    | \$173,500      | \$4,624,059  | \$2,097,541 | \$184,022       | \$2,363,029   | \$3,862,803   | \$905,113                      | 9  |  |
| \$9,684,337    | \$496,204      | \$4,224,759  | \$2,457,459 | \$71,309        | \$3,287,532   | \$3,652,700   | \$650,945                      | 10 |  |
| 24             | 4              | 47           | 50          | 5               | 155           | 6             | 4                              | 11 |  |
| 239            | 21             | 353          | 107         | 8               | 216           | 256           | 65                             | 12 |  |
| \$547,862      | \$23,900       | \$614,910    | \$134,345   | \$6,650         | \$260,277     | \$449,936     | \$112,514                      | 13 |  |
| 44             |                | 57           | 10          | 1               | 25            | 45            | 10                             | 14 |  |
| \$284,656      |                | \$224,127    | \$27,000    | \$1,000         | \$52,450      | \$174,605     | \$41,460                       | 15 |  |
| 195            | 21             | 296          | 97          | 7               | 191           | 211           | 55                             | 16 |  |
| \$313,206      | \$23,900       | \$390,733    | \$107,345   | \$5,650         | \$207,827     | \$275,331     | \$71,054                       | 17 |  |
| 174            | 18             | 273          | 90          | 6               | 167           | 186           | 46                             | 18 |  |
| \$303,655      | \$22,500       | \$382,739    | \$104,398   | \$5,150         | \$196,656     | \$264,575     | \$67,586                       | 19 |  |
| 21             | 3              | 18           | 7           | 1               | 24            | 25            | 9                              | 20 |  |
| \$9,651        | \$1,400        | \$3,044      | \$2,947     | \$500           | \$11,171      | \$10,316      | \$3,463                        | 21 |  |
| 5,287          | 1,088          | 8,186        | 3,520       | 193             | 5,303         | 6,423         | 1,630                          | 22 |  |
| 3,990          | 956            | 6,221        | 2,787       | 133             | 4,123         | 5,219         | 1,453                          | 23 |  |
| 4,073          | 1,023          | 7,074        | 3,117       | 134             | 5,942         | 5,942         | 1,537                          | 24 |  |
| \$2,081,015    | \$451,960      | \$3,003,491  | \$1,424,673 | \$45,340        | \$2,065,752   | \$2,474,042   | \$523,270                      | 25 |  |
| 3,846          | 739            | 6,120        | 2,395       | 142             | 4,013         | 4,644         | 1,303                          | 26 |  |
| \$1,833,344    | \$394,919      | \$2,775,797  | \$1,244,051 | \$38,031        | \$1,905,713   | \$2,118,454   | \$479,132                      | 27 |  |
| 785            | 239            | 736          | 636         | 42              | 348           | 1,039         | 157                            | 28 |  |
| \$229,697      | \$67,041       | \$197,093    | \$166,424   | \$7,309         | \$93,706      | \$309,949     | \$37,101                       | 29 |  |
| 97             |                | 163          | 86          |                 | 357           |               | 77                             | 30 |  |
| \$18,074       |                | \$30,601     | \$14,103    |                 | \$60,323      | \$45,639      | \$12,046                       | 31 |  |
| 3,904          | 749            | 6,004        | 2,420       | 147             | 4,037         | 4,672         | 1,294                          | 32 |  |
| 3,652          | 761            | 6,065        | 2,451       | 143             | 4,023         | 4,649         | 1,303                          | 33 |  |
| 3,882          | 733            | 6,160        | 2,467       | 143             | 4,086         | 4,637         | 1,291                          | 34 |  |
| 3,377          | 790            | 6,171        | 2,476       | 140             | 4,112         | 4,695         | 1,304                          | 35 |  |
| 3,821          | 810            | 6,131        | 2,415       | 143             | 4,103         | 4,635         | 1,296                          | 36 |  |
| 3,688          | 733            | 6,033        | 2,327       | 140             | 3,949         | 4,593         | 1,285                          | 37 |  |
| 3,743          | 734            | 5,894        | 2,243       | 140             | 3,932         | 4,650         | 1,291                          | 38 |  |
| 3,757          | 779            | 6,033        | 2,333       | 140             | 3,814         | 4,639         | 1,310                          | 39 |  |
| 3,888          | 800            | 5,870        | 2,355       | 137             | 3,996         | 4,619         | 1,277                          | 40 |  |
| 3,959          | 805            | 6,247        | 2,412       | 140             | 3,985         | 4,696         | 1,341                          | 41 |  |
| 3,967          | 810            | 6,396        | 2,422       | 143             | 4,031         | 4,764         | 1,307                          | 42 |  |
| 4,003          | 814            | 6,373        | 2,417       | 143             | 4,034         | 4,885         | 1,323                          | 43 |  |
| 330            | 237            | 310          | 641         | 42              | 352           | 1,047         | 150                            | 44 |  |
| 304            | 214            | 734          | 636         | 42              | 349           | 1,031         | 148                            | 45 |  |
| 735            | 216            | 795          | 672         | 42              | 349           | 1,005         | 167                            | 46 |  |
| 760            | 229            | 739          | 630         | 42              | 350           | 1,036         | 166                            | 47 |  |
| 746            | 237            | 771          | 661         | 42              | 346           | 1,003         | 147                            | 48 |  |
| 694            | 233            | 731          | 642         | 42              | 339           | 970           | 163                            | 49 |  |
| 631            | 232            | 734          | 579         | 42              | 349           | 1,045         | 165                            | 50 |  |
| 643            | 222            | 737          | 534         | 42              | 337           | 1,035         | 169                            | 51 |  |
| 699            | 254            | 724          | 604         | 42              | 361           | 1,026         | 163                            | 52 |  |
| 733            | 270            | 804          | 613         | 42              | 351           | 1,076         | 169                            | 53 |  |
| 733            | 269            | 847          | 633         | 42              | 330           | 1,067         | 162                            | 54 |  |
| 750            | 250            | 856          | 639         | 42              | 339           | 1,123         | 161                            | 55 |  |
| 97             |                | 147          | 85          |                 | 333           | 253           | 66                             | 56 |  |
| 93             |                | 142          | 77          |                 | 373           | 251           | 67                             | 57 |  |
| 97             |                | 143          | 82          |                 | 374           | 253           | 67                             | 58 |  |
| 92             |                | 160          | 83          |                 | 373           | 261           | 65                             | 59 |  |
| 93             |                | 161          | 80          |                 | 363           | 260           | 65                             | 60 |  |
| 89             |                | 134          | 82          |                 | 343           | 253           | 78                             | 61 |  |
| 97             |                | 172          | 87          |                 | 342           | 257           | 93                             | 62 |  |
| 89             |                | 176          | 92          |                 | 337           | 273           | 95                             | 63 |  |
| 100            |                | 174          | 89          |                 | 344           | 257           | 86                             | 64 |  |
| 104            |                | 182          | 94          |                 | 342           | 253           | 82                             | 65 |  |
| 104            |                | 131          | 94          |                 | 346           | 262           | 80                             | 66 |  |
| 104            |                | 191          | 89          |                 | 349           | 264           | 79                             | 67 |  |
| \$366,329      | \$111,473      | \$309,580    | \$210,395   | \$13,366        | \$556,033     | \$1,133,065   | \$200,461                      | 68 |  |
| \$7,517        | \$250          | \$31,654     | \$29,067    | \$322           | \$39,990      | \$4,805       | \$310                          | 69 |  |
| \$35,717       | \$14,473       | \$35,296     | \$34,749    | \$1,106         | \$23,293      | \$49,140      | \$16,137                       | 70 |  |
| \$753,802      | \$96,750       | \$733,914    | \$140,536   | \$11,433        | \$455,595     | \$1,030,120   | \$133,464                      | 71 |  |
| \$10,793       |                | \$3,316      | \$5,993     |                 | \$3,205       | \$4,000       |                                | 72 |  |
| \$3,110,910    | \$636,469      | \$4,513,763  | \$1,402,373 | \$95,210        | \$3,174,507   | \$3,037,731   | \$913,196                      | 73 |  |
| \$2,031,072    | \$309,296      | \$2,755,553  | \$639,325   | \$13,000        | \$2,063,174   | \$1,653,059   | \$495,539                      | 74 |  |
| 5,335,631      | 1,233,651      | 6,095,690    | 3,159,377   | 751,376         | 4,593,202     | 7,231,216     | 3,330,036                      | 75 |  |
| \$160,016      | \$23,646       | \$163,723    | \$63,124    | \$14,334        | \$94,373      | \$205,321     | \$106,164                      | 76 |  |
| 26,412         |                | 4,499,357    | 181,779     |                 | 337,327       | 2,000         | 1,500                          | 77 |  |
| \$1,309        |                | \$200,414    | \$9,035     |                 | \$21,233      | \$100         | \$160                          | 78 |  |
| 136,833        | 1,157,160      | 751,999      | 392,166     | 4,000           | 4,434,594     | 1,701,566     | 174,341                        | 79 |  |
| \$3,137        | \$25,034       | \$23,834     | \$37,036    | \$220           | \$151,637     | \$61,343      | \$5,703                        | 80 |  |
| \$393,711      | \$74,451       | \$411,173    | \$202,074   | \$10,767        | \$342,371     | \$513,377     | \$33,776                       | 81 |  |
| \$5,512        | \$50           | \$9,497      | \$3,564     |                 | \$3,772       | \$20          | \$13,130                       | 82 |  |
| \$170,010      | \$2,443        | \$230,419    | \$73,617    |                 | \$133,651     | \$251,169     | \$41,133                       | 83 |  |
| \$237,452      | \$174,236      | \$331,996    | \$277,042   |                 | \$43,655      | \$303,333     | \$76,020                       | 84 |  |
| \$47,631       | \$27,253       | \$115,099    | \$30,996    |                 | \$24,133      | \$36,444      | \$36,430                       | 85 |  |

<sup>1</sup>Includes establishments distributed as follows: Alabama, 1; Delaware, 2; Indiana, 1; Maine, 1; Maryland, 2; Ohio, 1; West Virginia, 1.

TABLE 5.—DYEING AND FINISHING

|     | United States.   | Connecticut. | Illinois.   | Kentucky. |            |
|-----|--|--------------|-------------|-----------|------------|
| 86  | <b>Products:</b>                                       |              |             |           |            |
|     | Aggregate value.....                                   | \$44,963,331 | \$2,269,967 | \$86,960  | \$179,123  |
| 87  | Wool dyed—   |              |             |           |            |
| 88  | Pounds.....  | 2,408,511    |             |           |            |
|     | Value.....   | \$83,071     |             |           |            |
|     | Yarn dyed—   |              |             |           |            |
|     | Woolen—  |              |             |           |            |
| 89  | Pounds.....  | 20,755,384   |             | 39,600    |            |
| 90  | Value.....   | \$557,001    |             | \$2,900   |            |
|     | Worsted—   |              |             |           |            |
| 91  | Pounds.....  | 8,474,562    |             |           |            |
| 92  | Value.....   | \$491,291    |             |           |            |
|     | Piece goods, dyed—                                     |              |             |           |            |
|     | Woolen—  |              |             |           |            |
| 93  | Square yards.....                                      | 11,243,394   |             | 350,000   |            |
| 94  | Value.....   | \$451,864    |             | \$18,400  |            |
|     | Worsted—   |              |             |           |            |
| 95  | Square yards.....                                      | 9,418,337    |             |           |            |
| 96  | Value.....   | \$476,951    |             |           |            |
|     | Cotton stock—  |              |             |           |            |
|     | Bleached—  |              |             |           |            |
| 97  | Pounds.....  | 300,650      |             |           |            |
| 98  | Value.....   | \$4,323      |             |           |            |
|     | Dyed—  |              |             |           |            |
| 99  | Pounds.....  | 12,466,700   |             | 40,000    |            |
| 100 | Value.....   | \$572,661    |             | \$2,000   |            |
|     | Cotton yarn—   |              |             |           |            |
|     | Bleached—  |              |             |           |            |
| 101 | Pounds.....  | 12,780,518   |             |           |            |
| 102 | Value.....   | \$252,635    |             |           |            |
|     | Dyed—  |              |             |           |            |
| 103 | Pounds.....  | 54,103,555   | 360,000     | 1,960,000 | 1,651,347  |
| 104 | Value.....   | \$2,226,912  | \$16,500    | \$34,600  | \$38,769   |
|     | Mercerized—  |              |             |           |            |
| 105 | Pounds.....  | 868,851      |             | 1,000     |            |
| 106 | Value.....   | \$159,616    |             | \$150     |            |
|     | Cotton piece goods—                                    |              |             |           |            |
|     | Bleached—  |              |             |           |            |
| 107 | Square yards.....                                      | 964,902,367  | 290,000     | 3,456,600 |            |
| 108 | Value.....   | \$6,691,423  | \$2,400     | \$17,283  |            |
|     | Dyed—  |              |             |           |            |
| 109 | Square yards.....                                      | 559,480,339  | 84,204,496  | 330,000   | 13,000,000 |
| 110 | Value.....   | \$7,565,204  | \$1,290,441 | \$7,252   | \$140,354  |
|     | Mercerized—  |              |             |           |            |
| 111 | Square yards.....                                      | 7,973,506    | 530,000     |           |            |
| 112 | Value.....   | \$400,118    | \$29,000    |           |            |
|     | Printed—   |              |             |           |            |
| 113 | Square yards.....                                      | 940,450,338  | 45,755,428  |           |            |
| 114 | Value.....   | \$15,997,087 | \$327,885   |           |            |
|     | Silk, dyed—  |              |             |           |            |
| 115 | Pounds.....  | 5,609,444    |             | 5,200     |            |
| 116 | Value.....   | \$3,015,644  |             | \$2,600   |            |
|     | Spun silk, dyed—                                       |              |             |           |            |
| 117 | Pounds.....  | 329,063      |             | 50        |            |
| 118 | Value.....   | \$133,785    |             | \$25      |            |
|     | Silk piece goods—                                      |              |             |           |            |
|     | Dyed—  |              |             |           |            |
| 119 | Square yards.....                                      | 14,340,796   |             | 11,500    |            |
| 120 | Value.....   | \$481,463    |             | \$567     |            |
|     | Printed—   |              |             |           |            |
| 121 | Square yards.....                                      | 3,681,652    |             |           |            |
| 122 | Value.....   | \$335,164    |             |           |            |
|     | Mixed goods—   |              |             |           |            |
| 123 | Value.....   | \$2,180,278  |             |           |            |
| 124 | All other work done.....                               | \$2,266,350  | \$103,741   | \$1,133   |            |
|     | <b>Machinery:</b>                                      |              |             |           |            |
|     | Printing machines—                                     |              |             |           |            |
| 125 | Total number.....                                      | 334          | 16          |           | 1          |
| 126 | On cotton—   |              |             |           |            |
|     | Number.....  | 321          | 16          |           | 1          |
| 127 | On silk—   |              |             |           |            |
|     | Number.....  | 13           |             |           |            |
|     | <b>Comparison of products:</b>                         |              |             |           |            |
| 128 | Number of establishments reporting for both years..... | 242          | 4           | 4         | 2          |
| 129 | Value for census year.....                             | \$39,860,765 | \$1,967,267 | \$86,960  | \$167,063  |
| 130 | Value for preceding business year.....                 | \$34,031,844 | \$1,425,445 | \$38,326  | \$116,422  |
|     | <b>Power:</b>  |              |             |           |            |
| 131 | Number of establishments reporting.....                | 273          | 5           | 4         | 3          |
| 132 | Total horsepower.....                                  | 71,187       | 5,109       | 159       | 324        |
|     | Owned—   |              |             |           |            |
|     | Engines—   |              |             |           |            |
|     | Steam—   |              |             |           |            |
| 133 | Number.....  | 1,535        | 89          | 6         | 7          |
| 134 | Horsepower.....  | 57,216       | 2,553       | 159       | 230        |
|     | Gas or gasoline—                                       |              |             |           |            |
| 135 | Number.....  | 2            |             |           |            |
| 136 | Horsepower.....  | 8            |             |           |            |
|     | Water wheels—  |              |             |           |            |
| 137 | Number.....  | 86           | 15          |           |            |
| 138 | Horsepower.....  | 9,474        | 2,156       |           |            |
|     | Electric motors—                                       |              |             |           |            |
| 139 | Number.....  | 181          | 6           |           | 3          |
| 140 | Horsepower.....  | 1,949        | 385         |           | 40         |
|     | Other power—   |              |             |           |            |
| 141 | Number.....  | 9            |             |           |            |
| 142 | Horsepower.....  | 1,624        |             |           |            |
|     | Rented—  |              |             |           |            |
| 143 | Electric horsepower.....                               | 50           | 15          |           |            |
| 144 | All other horsepower.....                              | 866          |             |           | 4          |
| 145 | Furnished to other establishments—                     |              |             |           |            |
|     | Horsepower.....  | 285          | 125         |           |            |

DYEING AND FINISHING TEXTILES.

TEXTILES: BY STATES, 1900—Continued.

|     | Massachusetts. | New Hampshire. | New Jersey.  | New York.   | North Carolina. | Pennsylvania. | Rhode Island. | All other states. <sup>1</sup> |     |
|-----|----------------|----------------|--------------|-------------|-----------------|---------------|---------------|--------------------------------|-----|
| 123 | \$8,868,290    | \$1,928,319    | \$10,488,963 | \$3,625,882 | \$175,750       | \$7,088,012   | \$8,484,878   | \$2,417,187                    | 86  |
|     | 40,828         |                | 150,798      | 169,187     |                 | 1,988,000     |               | 60,198                         | 87  |
|     | \$2,043        |                | \$9,151      | \$9,888     |                 | \$56,470      |               | \$6,019                        | 88  |
|     | 100,800        |                |              | 190,000     |                 | 20,425,584    |               |                                | 89  |
|     | \$7,059        |                |              | \$9,400     |                 | \$537,642     |               |                                | 90  |
|     | 382,525        |                | 62,800       | 678,560     |                 | 6,487,737     | 858,000       | 9,940                          | 91  |
|     | \$29,002       |                | \$4,395      | \$44,356    |                 | \$343,844     | \$68,700      | \$994                          | 92  |
|     |                |                | 600,368      |             |                 | 9,901,550     | 391,476       |                                | 93  |
|     |                |                | \$36,609     |             |                 | \$381,196     | \$15,659      |                                | 94  |
|     | 498,520        |                |              |             |                 | 5,381,206     | 1,265,183     | 2,328,478                      | 95  |
|     | \$19,952       |                |              |             |                 | \$227,878     | \$50,605      | \$178,516                      | 96  |
|     | 29,650         | 6,000          |              | 200,000     |                 | 60,000        |               | 5,000                          | 97  |
|     | \$1,743        | \$180          |              | \$1,000     |                 | \$1,750       |               | \$150                          | 98  |
|     | 2,771,290      | 99,452         | 1,720,699    | 1,837,281   | 50,000          | 5,347,978     | 600,000       |                                | 99  |
|     | \$249,114      | \$3,847        | \$29,990     | \$54,477    | \$1,030         | \$106,203     | \$36,000      |                                | 100 |
|     | 6,453,500      | 150,000        | 28,500       | 57,156      |                 | 3,637,567     | 2,453,795     |                                | 101 |
|     | \$98,662       | \$4,500        | \$2,280      | \$2,720     |                 | \$39,123      | \$55,350      |                                | 102 |
| 347 | 7,158,907      | 2,500          | 189,991      | 1,440,828   |                 | 34,174,822    | 6,709,637     | 456,023                        | 103 |
| 769 | \$294,909      | \$125          | \$22,000     | \$85,168    |                 | \$1,265,786   | \$488,103     | \$30,392                       | 104 |
|     |                |                | 2,000        | 1,100       |                 | 786,751       | 78,000        |                                | 105 |
|     |                |                | \$3,000      | \$110       |                 | \$146,996     | \$9,360       |                                | 106 |
|     | 276,321,266    | 18,736,899     | 70,447,673   | 23,197,762  | 2,715,663       | 6,814,458     | 388,442,903   | 174,479,143                    | 107 |
|     | \$1,637,880    | \$130,007      | \$745,542    | \$202,410   | \$16,262        | \$50,086      | \$2,605,031   | \$1,284,572                    | 108 |
|     | 90,458,727     | 7,918,490      | 91,876,898   | 19,041,259  |                 | 68,547,553    | 108,125,288   | 80,477,628                     | 109 |
| 000 | \$1,060,761    | \$98,044       | \$1,340,301  | \$227,353   |                 | \$1,023,829   | \$1,576,822   | \$825,047                      | 110 |
| 354 |                |                | 36,322       |             |                 | 79,410        | 7,277,774     |                                | 111 |
|     |                |                | \$1,365      |             |                 | \$4,461       | \$365,292     |                                | 112 |
|     | 262,619,600    | 50,418,199     | 187,425,755  | 150,482,209 |                 | 79,013,248    | 162,185,904   | 2,600,000                      | 113 |
|     | \$5,185,021    | \$886,405      | \$2,909,981  | \$1,872,721 |                 | \$1,428,500   | \$2,859,574   | \$78,000                       | 114 |
|     |                |                | 4,837,010    | 350,460     |                 | 416,774       |               |                                | 115 |
|     |                |                | \$3,287,048  | \$124,411   |                 | \$201,585     |               |                                | 116 |
|     |                |                | 220,629      | 41,000      |                 | 67,384        |               |                                | 117 |
|     |                |                | \$109,257    | \$10,796    |                 | \$13,707      |               |                                | 118 |
|     |                |                | 18,997,451   | 331,845     |                 |               |               |                                | 119 |
|     |                |                | \$459,675    | \$21,221    |                 |               |               |                                | 120 |
|     | 262,964        |                | 3,394,688    | 24,000      |                 |               |               |                                | 121 |
|     | \$20,350       |                | \$312,880    | \$1,924     |                 |               |               |                                | 122 |
|     | \$44,618       | \$192,500      | \$640,740    | \$303,422   | \$124,000       | \$542,141     | \$332,857     |                                | 123 |
|     | \$267,226      | \$18,711       | \$574,749    | \$655,005   | \$34,468        | \$526,815     | \$71,465      | \$12,997                       | 124 |
| 1   | 69             | 16             | 64           | 60          |                 | 41            | 65            | 2                              | 125 |
| 1   | 69             | 16             | 56           | 55          |                 | 41            | 65            | 2                              | 126 |
|     |                |                | 8            | 5           |                 |               |               |                                | 127 |
| 2   | 29             | 2              | 44           | 35          | 2               | 90            | 21            | 9                              | 128 |
| 063 | \$7,976,753    | \$1,124,305    | \$8,722,830  | \$3,470,303 | \$113,000       | \$6,334,069   | \$7,478,038   | \$2,417,187                    | 129 |
| 422 | \$6,774,611    | \$1,044,960    | \$7,876,560  | \$3,079,998 | \$115,000       | \$5,205,184   | \$6,478,137   | \$1,827,201                    | 130 |
| 3   | 37             | 4              | 49           | 41          | 4               | 98            | 24            | 9                              | 131 |
| 324 | 14,417         | 585            | 12,463       | 6,885       | 350             | 10,107        | 15,897        | 4,941                          | 132 |
| 7   | 281            | 1              | 339          | 203         | 10              | 816           | 256           | 27                             | 133 |
| 280 | 11,932         | 10             | 10,943       | 6,321       | 345             | 9,579         | 12,648        | 2,451                          | 134 |
|     |                |                |              | 2           |                 |               |               |                                | 135 |
|     |                |                |              | 8           |                 |               |               |                                | 136 |
|     | 24             | 4              | 17           | 6           |                 | 1             | 7             | 12                             | 137 |
|     | 2,360          | 515            | 1,330        | 440         |                 | 35            | 675           | 1,963                          | 138 |
| 3   | 9              |                | 4            |             |                 | 1             | 92            | 15                             | 139 |
| 40  | 125            |                | 128          |             | 1               | 7             | 1,077         | 182                            | 140 |
|     |                |                | 1            |             |                 | 3             | 5             |                                | 141 |
|     |                |                | 4            |             |                 | 120           | 1,500         |                                | 142 |
|     |                |                |              | 35          |                 |               |               |                                | 143 |
|     |                | 10             | 58           | 81          |                 | 366           | 2             | 345                            | 144 |
|     |                |                |              | 30          | 10              | 120           |               |                                | 145 |

<sup>1</sup> Includes establishments distributed as follows: Alabama, 1; Delaware, 2; Indiana, 1; Maine, 1; Maryland, 2; Ohio, 1; West Virginia, 1.

TABLE 5.—DYEING AND FINISHING

|   |                                      | United States. | Connecticut. | Illinois. | Kentucky. |
|---|--------------------------------------|----------------|--------------|-----------|-----------|
| Establishments classified by number of persons employed not including proprietors and firm members: |                                      |                |              |           |           |
| 146   | Total number of establishments ..... | 298            | 5            | 4         | 3         |
| 147   | Under 5 .....                        | 19             |              | 1         |           |
| 148   | 5 to 20 .....                        | 82             |              |           |           |
| 149   | 21 to 50 .....                       | 74             | 1            | 2         | 2         |
| 150   | 51 to 100 .....                      | 60             |              | 1         | 1         |
| 151   | 101 to 250 .....                     | 39             | 2            |           |           |
| 152   | 251 to 500 .....                     | 13             | 1            |           |           |
| 153   | 501 to 1,000 .....                   | 18             |              |           |           |
| 154   | Over 1,000 .....                     | 3              | 1            |           |           |

TEXTILES: BY STATES, 1900—Continued.

| Massachusetts. | New Hampshire. | New Jersey. | New York. | North Carolina. | Pennsylvania. | Rhode Island. | All other States. <sup>1</sup> |     |
|----------------|----------------|-------------|-----------|-----------------|---------------|---------------|--------------------------------|-----|
| 37             | 5              | 59          | 42        | 5               | 105           | 24            | 9                              | 146 |
| 1              | 2              | 3           | 1         | -----           | 10            | 1             | -----                          | 147 |
| 7              | -----          | 14          | 18        | -----           | 89            | 1             | -----                          | 148 |
| 6              | -----          | 10          | 13        | -----           | 84            | 2             | -----                          | 149 |
| 10             | -----          | 14          | 3         | -----           | 16            | 2             | -----                          | 150 |
| 8              | 2              | 6           | 4         | 1               | 3             | 12            | 1                              | 151 |
| 3              | -----          | 7           | 1         | -----           | -----         | 1             | -----                          | 152 |
| 2              | 1              | 5           | 2         | -----           | 2             | 4             | -----                          | 153 |
| -----          | -----          | -----       | -----     | -----           | 1             | 1             | -----                          | 154 |

<sup>1</sup>Includes establishments distributed as follows: Alabama, 1; Delaware, 2; Indiana, 1; Maine, 1; Maryland, 2; Ohio, 1; West Virginia, 1.

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# CLOTHING.

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# CLOTHING.

By AXEL JOSEPHSSON.

The statistics for the manufacture of clothing as a factory product are arranged in three classes: Men's (including children's) clothing, factory product; men's clothing, factory product, buttonholes; and women's clothing, factory product. Men's clothing, custom-made, and women's clothing, dressmaking, were classified as hand trades. The aggregate for these industries appear in Table 24, but the detailed statistics appear only in the Report on Manufactures, Parts I and II.

The existing conditions in the clothing industry and especially in the manufacture of men's clothing render it impossible for the Census Office, within the limited time allotted for the work, to make a complete canvass of the industry. The special agents and enumerators who collected the data were unable to obtain information from a large number of places where the manufacture of clothing was carried on. The majority of these places were in tenements and small shops in the rear of dwellings, and the largest part of the work produced in them was contract work. Thus the information to

be gained in these places would relate chiefly to the number of persons employed and the wages paid them. The value of the products issuing from these places was in many instances included in the schedule of the wholesale manufacturer, and in such cases there was a lack of corresponding labor. In many cases the figures obtained from the contractors are unreliable. As a rule, the men giving the information are foreigners, without a knowledge of the language and having a great prejudice against, and suspicion of, any person making inquiries about their business. They are not disposed to make any returns, and, moreover, do not keep any books or accounts, and therefore give the information mainly as guesswork. A part of the work is done by women in their own homes; but it was impracticable to attempt to ascertain the number so employed. With all their imperfections and limitations, the following statistics of the clothing manufacture may, however, be said to reflect the conditions of the industry with tolerable accuracy.

## MEN'S CLOTHING, FACTORY PRODUCT.

Table 1 is a comparative summary for the manufacture of men's clothing, factory product, as returned at

the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade.

TABLE 1.—CLOTHING, MEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

|   | DATE OF CENSUS. |               |                  |                  |                  |                  | PER CENT OF INCREASE. |                    |                    |                    |                    |
|---|-----------------|---------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|
|   | 1900            | 1800          | 1880             | 1870             | 1860             | 1850             | 1890<br>to<br>1900    | 1880<br>to<br>1890 | 1870<br>to<br>1880 | 1860<br>to<br>1870 | 1850<br>to<br>1860 |
| Number of establishments.....             | 5,781           | 4,867         | 6,166            | 7,858            | 4,014            | 4,278            | 17.7                  | 121.1              | 121.5              | 95.8               | 16.2               |
| Capital.....                              | \$120,620,361   | \$128,253,647 | \$79,861,696     | \$50,223,380     | \$27,246,093     | \$12,509,161     | 16.0                  | 60.6               | 59.0               | 84.3               | 117.8              |
| Salaried officials, clerks, etc., number. | 10,002          | 211,416       | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | 112.4                 | .....              | .....              | .....              | .....              |
| Salaries.....                             | \$10,404,409    | \$11,235,807  | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | 17.4                  | .....              | .....              | .....              | .....              |
| Wage-earners, average number.....         | 120,950         | 144,926       | 160,818          | 108,128          | 114,800          | 96,551           | 116.5                 | 19.9               | 48.7               | 15.8               | 18.9               |
| Total wages.....                          | \$45,505,778    | \$51,075,837  | \$45,940,353     | \$30,746,579     | \$19,856,423     | \$15,032,340     | 110.9                 | 11.2               | 49.4               | 54.8               | 32.1               |
| Men, 16 years and over.....               | 48,077          | 67,786        | 77,255           | 47,829           | 41,837           | 35,051           | 129.1                 | 112.3              | 61.5               | 14.3               | 19.4               |
| Wages.....                                | \$27,923,966    | \$33,292,293  | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | 117.9                 | .....              | .....              | .....              | .....              |
| Women, 16 years and over.....             | 69,862          | 75,621        | 80,994           | 59,019           | 72,963           | 61,500           | 17.6                  | 16.6               | 37.2               | 119.1              | 18.6               |
| Wages.....                                | \$17,766,507    | \$17,634,858  | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | .....                 | .....              | .....              | .....              | .....              |
| Children, under 16 years.....             | 3,011           | 1,519         | 2,564            | 1,280            | ( <sup>8</sup> ) | ( <sup>8</sup> ) | 98.2                  | 140.8              | 100.3              | .....              | .....              |
| Wages.....                                | \$415,305       | \$148,686     | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | 179.3                 | .....              | .....              | .....              | .....              |
| Miscellaneous expenses.....               | \$37,509,258    | \$20,460,045  | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | ( <sup>8</sup> ) | 83.3                  | .....              | .....              | .....              | .....              |
| Cost of materials used.....               | \$145,295,248   | \$128,846,857 | \$181,868,282    | \$86,794,706     | \$44,149,752     | \$25,730,258     | 12.8                  | 11.9               | 51.3               | 95.6               | 71.6               |
| Value of products.....                    | \$276,861,607   | \$251,019,009 | \$209,548,460    | \$148,660,253    | \$80,830,555     | \$48,311,709     | 10.3                  | 19.8               | 41.0               | 83.9               | 67.3               |

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 11.)

<sup>3</sup> Not reported separately.

<sup>4</sup> Not reported.

Although the manufacture of men's clothing as a factory product began in the United States prior to 1830, it was not until the census report of 1890 that the statistics for this branch of the clothing industry were given separately. The statistics for 1850 were almost exclusively the figures obtained from clothiers and tailors and a very small percentage was for factory-made clothing. In the censuses of 1860, 1870, and 1880 the figures for the custom-made and those for the factory-made clothing were not separated. Thus the only comparison of any value that can be made is between the figures for the censuses of 1890 and 1900.

The number of establishments increased 864, or 17.7 per cent, between 1890 and 1900. In the same period the capital decreased \$7,633,196, or 6 per cent. The causes of this decrease in the amount of capital as against an increase in the number of establishments and in the value of products are referred to in connection with Table 7.

In this industry the average capital per establishment, which in 1890 was \$26,352, had decreased to \$21,047 in 1900, indicating that the increase in establishments had been in smaller shops. The total number of wage-earners reported in 1900 showed a decrease of 23,976, or 16.5 per cent, and their wages decreased \$5,570,059, or 10.9 per cent. The greatest decrease was in the number of men, with 19,709, with a decrease in their wages of \$5,968,327. This is partly due to a transfer of wages to "contract work" under miscellaneous expenses. Besides, it can be explained partly by the substitution of women for men.

The average number of women wage-earners decreased 5,759, or 7.6 per cent, but the total wages paid to women increased \$131,649, or seven-tenths of 1 per cent. The number of children under 16 years of age increased 1,492, or 98.2 per cent, and the wages paid them increased \$266,619, or 179.3 per cent. It is only in certain branches of the industry that the number of children employed increased, as, for instance, in the manufacture of overalls, while in other branches the number decreased. The miscellaneous expenses increased \$17,049,213, or 83.3 per cent. The cost of all materials used increased \$16,448,391, or 12.8 per cent, and the value of products \$25,841,998, or 10.3 per cent.

Because of the decrease in the price of ready-made clothing this percentage does not, however, indicate the real growth in the quantity of clothing manufactured, which increased in far greater proportions.

Table 2 presents, by states, arranged geographically, the number of active establishments from which reports

were received in 1890 and 1900, and the increase during the decade.

TABLE 2.—CLOTHING, MEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, NUMBER OF ACTIVE ESTABLISHMENTS, 1890 AND 1900, WITH INCREASE, BY STATES, ARRANGED GEOGRAPHICALLY.

|                          | 1900  | 1890  | Increase. |
|--------------------------|-------|-------|-----------|
| United States .....      | 5,781 | 4,867 | 864       |
| New England states ..... | 266   | 335   | 169       |
| Maine.....               | 42    | 87    | 145       |
| New Hampshire.....       | 9     | 17    | 18        |
| Vermont.....             | 7     | 1     | 6         |
| Massachusetts.....       | 194   | 221   | 127       |
| Rhode Island.....        | 2     | 6     | 14        |
| Connecticut.....         | 12    | 3     | 9         |
| Middle states .....      | 3,258 | 3,227 | 31        |
| New York.....            | 2,581 | 2,601 | 130       |
| New Jersey.....          | 106   | 104   | 2         |
| Pennsylvania.....        | 481   | 337   | 144       |
| Delaware.....            | 1     |       | 1         |
| Maryland.....            | 139   | 125   | 14        |
| Southern states .....    | 310   | 316   | 16        |
| West Virginia.....       | 3     |       | 3         |
| Virginia.....            | 9     | 7     | 2         |
| North Carolina.....      | 14    | 3     | 11        |
| South Carolina.....      | 5     | 6     | 11        |
| Georgia.....             | 18    | 13    | 5         |
| Kentucky.....            | 192   | 248   | 156       |
| Tennessee.....           | 22    | 5     | 17        |
| Alabama.....             | 7     | 3     | 4         |
| Mississippi.....         | 2     | 1     | 1         |
| Arkansas.....            | 2     |       | 2         |
| Louisiana.....           | 25    | 26    | 11        |
| Texas.....               | 11    | 4     | 7         |
| Central states .....     | 1,790 | 849   | 911       |
| Ohio.....                | 539   | 508   | 31        |
| Michigan.....            | 40    | 20    | 20        |
| Indiana.....             | 81    | 22    | 9         |
| Illinois.....            | 900   | 199   | 701       |
| Wisconsin.....           | 39    | 27    | 62        |
| Minnesota.....           | 25    | 7     | 18        |
| Iowa.....                | 18    | 7     | 11        |
| Missouri.....            | 148   | 59    | 89        |
| Western states.....      | 7     | 14    | 17        |
| Nebraska.....            | 2     | 5     | 13        |
| Utah.....                | 1     |       | 1         |
| Colorado.....            | 1     | 2     | 11        |
| Kansas.....              | 3     | 7     | 14        |
| Pacific states.....      | 100   | 126   | 126       |
| Washington.....          | 1     |       | 1         |
| Oregon.....              | 3     | 5     | 12        |
| California.....          | 96    | 121   | 125       |

<sup>1</sup>Decrease.

In 1890 the manufacture was carried on in 33 states and in 1900 in 38 states. In 1900, 25 states reported an increase over 1890 of 1,171 establishments, while 13 states reported a decrease of 307, leaving a net increase of 864 establishments. The largest increase, 701, appeared in Illinois; Pennsylvania came next with 144 and Missouri with 89. New York showed the largest decrease with 130; Kentucky came next with 56 and Maine with 45.

Table 3 is a comparative summary of the industry, by states, for 1890 and 1900.

TABLE 3.—CLOTHING, MEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, 1890 AND 1900, BY STATES.

|  |      | United States. | Alabama.  | California. | Connecticut. | Georgia.    | Illinois.    | Indiana.    | Iowa.       |
|--|------|----------------|-----------|-------------|--------------|-------------|--------------|-------------|-------------|
| Number of establishments .....                 | 1900 | 5,731          | 7         | 96          | 12           | 18          | 900          | 31          | 18          |
|  | 1890 | 4,867          | 3         | 121         | 3            | 13          | 199          | 22          | 7           |
| Capital .....                                  | 1900 | \$120,620,361  | \$96,004  | \$1,060,934 | \$158,274    | \$514,060   | \$13,684,712 | \$1,691,177 | \$660,514   |
|  | 1890 | \$128,253,547  | \$73,463  | \$724,697   | \$3,850      | \$145,105   | \$13,275,575 | \$1,115,219 | \$486,900   |
| Salaried officials, clerks, etc., number ..... | 1900 | 10,002         | 13        | 72          | 1            | 43          | 1,708        | 134         | 138         |
|  | 1890 | 11,415         | 3         | 607         | 5            | 29          | 603          | 71          | 21          |
| Salaries .....                                 | 1900 | \$10,404,409   | \$11,060  | \$66,072    | \$500        | \$37,340    | \$1,335,503  | \$153,323   | \$101,818   |
|  | 1890 | \$11,235,807   | \$4,200   | \$275,213   | \$3,088      | \$18,595    | \$4,931,366  | \$70,390    | \$17,030    |
| Wage-earners, average number .....             | 1900 | 120,950        | 191       | 2,410       | 137          | 1,276       | 14,977       | 2,908       | 1,340       |
|  | 1890 | 144,926        | 169       | 1,277       | 30           | 340         | 16,004       | 1,374       | 553         |
| Total wages .....                              | 1900 | \$45,505,773   | \$46,546  | \$753,264   | \$52,822     | \$230,947   | \$5,845,254  | \$634,751   | \$303,286   |
|  | 1890 | \$51,075,837   | \$27,160  | \$511,459   | \$8,476      | \$79,949    | \$5,891,599  | \$443,103   | \$132,911   |
| Men, 16 years and over .....                   | 1900 | 48,077         | 16        | 314         | 68           | 119         | 5,094        | 264         | 147         |
|  | 1890 | 67,736         | 33        | 637         | 5            | 63          | 12,312       | 230         | 67          |
| Wages .....                                    | 1900 | \$27,323,966   | \$6,265   | \$343,774   | \$35,866     | \$44,408    | \$3,007,804  | \$104,230   | \$66,132    |
|  | 1890 | \$33,232,293   | \$10,560  | \$345,367   | \$2,434      | \$26,334    | \$4,931,365  | \$30,393    | \$33,224    |
| Women, 16 years and over .....                 | 1900 | 69,862         | 165       | 1,531       | 69           | 1,033       | 9,105        | 2,633       | 1,173       |
|  | 1890 | 75,621         | 116       | 590         | 25           | 273         | 3,613        | 1,629       | 435         |
| Wages .....                                    | 1900 | \$17,766,507   | \$39,231  | \$407,150   | \$18,956     | \$173,070   | \$2,713,535  | \$329,396   | \$235,304   |
|  | 1890 | \$17,634,853   | \$14,800  | \$165,092   | \$5,992      | \$54,219    | \$348,512    | \$354,500   | \$39,592    |
| Children, under 16 years .....                 | 1900 | 3,011          | 10        | 15          | .....        | 74          | 778          | 6           | 15          |
|  | 1890 | 1,519          | 15        | .....       | .....        | 4           | 74           | 15          | 1           |
| Wages .....                                    | 1900 | \$415,305      | \$1,000   | \$2,340     | .....        | \$3,469     | \$123,865    | \$625       | \$1,800     |
|  | 1890 | \$143,636      | \$1,300   | .....       | .....        | \$395       | \$12,532     | \$3,210     | \$125       |
| Miscellaneous expenses .....                   | 1900 | \$37,509,253   | \$5,593   | \$241,655   | \$5,732      | \$25,200    | \$7,065,130  | \$101,495   | \$95,446    |
|  | 1890 | \$20,460,045   | \$3,156   | \$57,144    | \$213        | \$5,905     | \$2,752,621  | \$129,330   | \$63,804    |
| Cost of materials used .....                   | 1900 | \$145,295,243  | \$152,424 | \$2,309,326 | \$157,227    | \$657,352   | \$13,211,015 | \$2,005,942 | \$910,106   |
|  | 1890 | \$123,846,857  | \$136,375 | \$1,407,404 | \$6,107      | \$193,325   | \$13,199,303 | \$1,611,253 | \$439,232   |
| Value of products .....                        | 1900 | \$276,861,607  | \$262,454 | \$3,369,391 | \$279,350    | \$1,120,607 | \$37,373,717 | \$3,367,331 | \$1,534,697 |
|  | 1890 | \$251,019,609  | \$193,300 | \$2,563,921 | \$20,230     | \$352,461   | \$33,626,441 | \$2,570,179 | \$734,245   |

|  |      | Kansas.   | Kentucky.   | Louisiana.  | Maine.      | Maryland.    | Massachusetts. | Michigan.   | Minnesota.  |
|--|------|-----------|-------------|-------------|-------------|--------------|----------------|-------------|-------------|
| Number of establishments .....                 | 1900 | 3         | 192         | 25          | 42          | 139          | 194            | 40          | 25          |
|  | 1890 | 7         | 243         | 26          | 37          | 125          | 221            | 20          | 7           |
| Capital .....                                  | 1900 | \$93,309  | \$1,509,136 | \$1,167,306 | \$443,752   | \$3,453,116  | \$3,793,174    | \$1,461,590 | \$1,174,446 |
|  | 1890 | \$95,904  | \$1,146,454 | \$1,169,927 | \$664,430   | \$9,732,643  | \$11,254,626   | \$642,602   | \$357,303   |
| Salaried officials, clerks, etc., number ..... | 1900 | 10        | 172         | 112         | 39          | 766          | 316            | 133         | 113         |
|  | 1890 | 14        | 300         | 103         | 78          | 894          | 913            | 50          | 45          |
| Salaries .....                                 | 1900 | \$4,977   | \$136,913   | \$99,450    | \$27,921    | \$719,535    | \$333,704      | \$125,731   | \$131,610   |
|  | 1890 | \$6,450   | \$133,313   | \$105,133   | \$57,937    | \$412,301    | \$353,619      | \$53,099    | \$54,530    |
| Wage-earners, average number .....             | 1900 | 101       | 2,701       | 2,052       | 1,270       | 9,725        | 3,333          | 2,003       | 1,716       |
|  | 1890 | 304       | 2,612       | 3,533       | 5,931       | 12,700       | 7,233          | 601         | 929         |
| Total wages .....                              | 1900 | \$18,939  | \$694,013   | \$339,405   | \$271,967   | \$3,179,069  | \$1,422,273    | \$501,646   | \$503,374   |
|  | 1890 | \$71,942  | \$619,133   | \$507,235   | \$667,363   | \$3,766,670  | \$2,374,330    | \$135,450   | \$302,103   |
| Men, 16 years and over .....                   | 1900 | 11        | 602         | 251         | 1,233       | 3,929        | 1,336          | 324         | 135         |
|  | 1890 | 30        | 324         | 1,253       | 635         | 6,133        | 2,399          | 230         | 73          |
| Wages .....                                    | 1900 | \$4,602   | \$237,620   | \$112,609   | \$33,323    | \$1,321,533  | \$370,423      | \$174,379   | \$91,399    |
|  | 1890 | \$14,352  | \$163,205   | \$193,594   | \$193,455   | \$2,377,363  | \$1,527,301    | \$106,030   | \$53,352    |
| Women, 16 years and over .....                 | 1900 | 90        | 1,993       | 1,730       | 1,007       | 5,202        | 1,929          | 1,664       | 1,501       |
|  | 1890 | 274       | 2,177       | 2,276       | 4,042       | 6,523        | 4,332          | 371         | 344         |
| Wages .....                                    | 1900 | \$14,337  | \$444,795   | \$271,376   | \$136,302   | \$1,191,337  | \$550,429      | \$324,135   | \$335,695   |
|  | 1890 | \$57,090  | \$433,501   | \$301,439   | \$454,136   | \$1,334,750  | \$1,346,664    | \$79,429    | \$247,651   |
| Children, under 16 years .....                 | 1900 | .....     | 106         | 71          | 10          | 594          | 3              | 20          | 30          |
|  | 1890 | .....     | 111         | 54          | 654         | 44           | 2              | .....       | 7           |
| Wages .....                                    | 1900 | .....     | \$11,603    | \$5,420     | \$1,142     | \$65,644     | \$1,426        | \$2,532     | \$20,780    |
|  | 1890 | .....     | \$12,432    | \$9,152     | \$20,217    | \$4,532      | \$415          | .....       | \$1,100     |
| Miscellaneous expenses .....                   | 1900 | \$2,262   | \$259,040   | \$34,679    | \$75,749    | \$1,502,530  | \$1,434,503    | \$234,637   | \$127,332   |
|  | 1890 | \$7,220   | \$74,263    | \$54,060    | \$97,243    | \$406,166    | \$2,521,163    | \$259,344   | \$35,030    |
| Cost of materials used .....                   | 1900 | \$63,027  | \$1,351,051 | \$1,170,737 | \$633,471   | \$10,241,703 | \$5,011,759    | \$1,733,145 | \$1,376,545 |
|  | 1890 | \$97,443  | \$1,133,776 | \$1,290,137 | \$352,635   | \$3,123,078  | \$11,365,905   | \$1,133,111 | \$316,121   |
| Value of products .....                        | 1900 | \$93,710  | \$3,420,365 | \$2,047,069 | \$1,335,336 | \$17,327,325 | \$9,330,954    | \$2,990,103 | \$2,132,101 |
|  | 1890 | \$215,364 | \$2,513,540 | \$2,174,747 | \$1,939,133 | \$15,032,924 | \$21,242,647   | \$1,362,329 | \$1,346,316 |

<sup>1</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 11.)

TABLE 3.—CLOTHING, MEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, 1890 AND 1900, BY STATES—Cont'd.

|   |      | Missouri.   | Nebraska.        | New Hamp-<br>shire. | New Jersey. | New York.     | North Caro-<br>lina. | Ohio.        | Oregon.   | Pennsylva-<br>nia. |
|---|------|-------------|------------------|---------------------|-------------|---------------|----------------------|--------------|-----------|--------------------|
| Number of establishments.....                 | 1900 | 148         | ( <sup>1</sup> ) | 9                   | 106         | 2,581         | 14                   | 589          | 3         | 481                |
|   | 1890 | 59          | 5                | 17                  | 104         | 2,661         | 3                    | 508          | 5         | 837                |
| Capital.....                                  | 1900 | \$4,651,882 |                  | \$258,834           | \$1,066,878 | \$51,850,648  | \$495,616            | \$10,732,010 | \$186,656 | \$10,446,107       |
|   | 1890 | \$4,966,073 | \$148,686        | \$275,950           | \$1,484,179 | \$46,153,319  | \$14,160             | \$13,106,296 | \$119,715 | \$15,609,046       |
| Salaried officials, clerks, etc., number..... | 1900 | 386         |                  | 25                  | 78          | 3,542         | 87                   | 785          | 7         | 891                |
|   | 1890 | 282         | 9                | 81                  | 122         | 5,299         | 7                    | 1,147        | 8         | 987                |
| Salaries.....                                 | 1900 | \$511,386   |                  | \$20,572            | \$91,563    | \$3,785,990   | \$71,471             | \$805,898    | \$3,418   | \$819,176          |
|   | 1890 | \$345,649   | \$8,644          | \$21,682            | \$125,739   | \$5,692,605   | \$5,260              | \$1,155,382  | \$7,020   | \$867,887          |
| Wage-earners, average number.....             | 1900 | 6,129       |                  | 245                 | 2,756       | 41,800        | 860                  | 6,521        | 171       | 10,497             |
|   | 1890 | 6,118       | 238              | 679                 | 2,542       | 54,110        | 49                   | 15,210       | 65        | 7,675              |
| Total wages.....                              | 1900 | \$1,693,725 |                  | \$68,989            | \$1,008,827 | \$19,579,938  | \$148,267            | \$2,143,619  | \$42,879  | \$4,422,074        |
|   | 1890 | \$1,772,799 | \$71,006         | \$141,511           | \$925,275   | \$24,100,196  | \$11,700             | \$3,567,738  | \$43,040  | \$3,258,517        |
| Men, 16 years and over.....                   | 1900 | 957         |                  | 24                  | 1,162       | 24,274        | 138                  | 1,980        | 20        | 5,024              |
|   | 1890 | 1,597       | 29               | 70                  | 903         | 28,810        | 7                    | 6,690        | 65        | 3,794              |
| Wages.....                                    | 1900 | \$469,065   |                  | \$13,882            | \$569,848   | \$14,626,270  | \$41,657             | \$1,061,551  | \$7,315   | \$2,962,561        |
|   | 1890 | \$744,386   | \$14,780         | \$86,782            | \$470,155   | \$17,169,092  | \$2,000              | \$1,973,669  | \$43,040  | \$2,212,757        |
| Women, 16 years and over.....                 | 1900 | 5,098       |                  | 220                 | 1,523       | 16,700        | 650                  | 4,865        | 151       | 5,115              |
|   | 1890 | 4,433       | 196              | 609                 | 1,619       | 25,115        | 42                   | 8,459        |           | 3,711              |
| Wages.....                                    | 1900 | \$1,214,440 |                  | \$55,032            | \$429,292   | \$4,908,283   | \$100,440            | \$1,063,058  | \$85,564  | \$1,400,067        |
|   | 1890 | \$1,020,877 | \$54,640         | \$104,729           | \$452,868   | \$6,907,147   | \$9,700              | \$1,579,659  |           | \$1,053,932        |
| Children, under 16 years.....                 | 1900 | 74          |                  | 1                   | 71          | 326           | 72                   | 176          |           | 358                |
|   | 1890 | 88          | 13               |                     | 20          | 185           |                      | 61           |           | 170                |
| Wages.....                                    | 1900 | \$10,220    |                  | \$75                | \$9,687     | \$45,885      | \$6,170              | \$19,010     |           | \$59,446           |
|   | 1890 | \$7,636     | \$1,586          |                     | \$2,257     | \$23,957      |                      | \$14,410     |           | \$31,828           |
| Miscellaneous expenses.....                   | 1900 | \$685,073   |                  | \$18,413            | \$212,421   | \$20,896,003  | \$23,238             | \$2,044,440  | \$4,471   | \$2,137,272        |
|   | 1890 | \$369,911   | \$9,631          | \$7,470             | \$614,331   | \$6,937,994   | \$4,199              | \$1,034,007  | \$56,823  | \$4,053,254        |
| Cost of materials used.....                   | 1900 | \$5,095,150 |                  | \$253,300           | \$1,828,182 | \$64,500,271  | \$639,472            | \$9,112,231  | \$107,089 | \$12,212,793       |
|   | 1890 | \$4,560,017 | \$173,491        | \$421,500           | \$1,154,501 | \$45,898,538  | \$42,500             | \$9,936,196  | \$299,540 | \$14,780,351       |
| Value of products.....                        | 1900 | \$8,925,088 |                  | \$418,324           | \$3,093,833 | \$126,478,057 | \$1,037,286          | \$16,593,824 | \$165,204 | \$23,389,043       |
|   | 1890 | \$8,113,852 | \$348,100        | \$654,712           | \$3,210,353 | \$96,880,957  | \$72,000             | \$20,604,134 | \$462,970 | \$26,782,348       |

|   |      | Rhode<br>Island. | South<br>Carolina. | Tennessee.  | Texas.    | Vermont.         | Virginia. | West<br>Virginia. | Wisconsin.  | All other<br>states. |
|---|------|------------------|--------------------|-------------|-----------|------------------|-----------|-------------------|-------------|----------------------|
| Number of establishments.....                 | 1900 | ( <sup>1</sup> ) | 5                  | 22          | 11        | 7                | 9         | 3                 | 89          | 112                  |
|   | 1890 | 6                | 6                  | 5           | 4         | ( <sup>1</sup> ) | 7         |                   | 27          | 44                   |
| Capital.....                                  | 1900 |                  | \$128,000          | \$747,650   | \$514,371 | \$424,507        | \$162,580 | \$209,574         | \$2,767,521 | \$510,513            |
|   | 1890 |                  | \$79,695           | \$238,917   | \$94,655  |                  | \$49,630  |                   | \$3,200,775 | \$232,039            |
| Salaried officials, clerks, etc., number..... | 1900 |                  | 12                 | 76          | 36        |                  | 28        | 6                 | 233         | 63                   |
|   | 1890 |                  | 78                 | 21          | 10        |                  | 9         |                   | 142         | 7                    |
| Salaries.....                                 | 1900 |                  | \$5,117            | \$70,215    | \$38,990  | \$43,765         | \$17,260  | \$6,010           | \$266,157   | \$57,002             |
|   | 1890 |                  | \$14,674           | \$25,943    | \$16,000  |                  | \$4,720   |                   | \$152,738   | \$6,025              |
| Wage-earners, average number.....             | 1900 |                  | 176                | 1,513       | 532       | 526              | 324       | 88                | 2,327       | 840                  |
|   | 1890 |                  | 463                | 269         | 239       |                  | 101       |                   | 2,662       | 171                  |
| Total wages.....                              | 1900 |                  | \$37,401           | \$323,949   | \$180,602 | \$145,334        | \$53,328  | \$28,692          | \$606,850   | \$214,138            |
|   | 1890 |                  | \$27,170           | \$68,669    | \$47,000  |                  | \$19,388  |                   | \$582,992   | \$104,220            |
| Men, 16 years and over.....                   | 1900 |                  | 15                 | 258         | 55        | 73               | 65        | 18                | 503         | 93                   |
|   | 1890 |                  | 232                | 29          | 169       |                  | 22        |                   | 715         | 111                  |
| Wages.....                                    | 1900 |                  | \$6,250            | \$90,702    | \$24,161  | \$39,309         | \$16,046  | \$5,172           | \$238,454   | \$41,151             |
|   | 1890 |                  | \$5,720            | \$15,309    | \$33,260  |                  | \$9,213   |                   | \$267,495   | \$88,898             |
| Women, 16 years and over.....                 | 1900 |                  | 153                | 1,234       | 445       | 453              | 245       | 75                | 1,765       | 730                  |
|   | 1890 |                  | 231                | 240         | 70        |                  | 79        |                   | 1,947       | 54                   |
| Wages.....                                    | 1900 |                  | \$30,668           | \$231,004   | \$102,233 | \$106,025        | \$35,832  | \$23,520          | \$360,282   | \$170,919            |
|   | 1890 |                  | \$70,722           | \$53,360    | \$13,740  |                  | \$10,175  |                   | \$315,497   | \$14,190             |
| Children, under 16 years.....                 | 1900 |                  | 3                  | 21          | 32        |                  | 14        |                   | 59          | 17                   |
|   | 1890 |                  |                    |             |           |                  |           |                   |             | 6                    |
| Wages.....                                    | 1900 |                  | \$483              | \$2,243     | \$4,208   |                  | \$1,450   |                   | \$3,114     | \$2,118              |
|   | 1890 |                  |                    |             |           |                  |           |                   |             | \$1,132              |
| Miscellaneous expenses.....                   | 1900 |                  | \$14,656           | \$40,515    | \$31,343  | \$32,076         | \$7,175   | \$36,945          | \$511,763   | \$32,366             |
|   | 1890 |                  | \$85,106           | \$17,224    | \$16,661  |                  | \$1,833   |                   | \$258,831   | \$25,357             |
| Cost of materials used.....                   | 1900 |                  | \$186,889          | \$960,641   | \$346,943 | \$359,813        | \$277,264 | \$355,565         | \$2,369,930 | \$349,830            |
|   | 1890 |                  | \$1,132,503        | \$308,300   | \$167,500 |                  | \$53,123  |                   | \$2,317,771 | \$113,551            |
| Value of products.....                        | 1900 |                  | \$306,250          | \$1,631,075 | \$616,584 | \$728,652        | \$417,885 | \$501,050         | \$4,393,092 | \$1,119,800          |
|   | 1890 |                  | \$2,234,940        | \$488,712   | \$299,356 |                  | \$101,959 |                   | \$3,909,726 | \$270,933            |

<sup>1</sup> Reported in "all other states."

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 11.)

<sup>3</sup> Includes establishments distributed as follows: Arkansas, 2; Colorado, 1; Delaware, 1; Mississippi, 2; Nebraska, 2; Rhode Island, 2; Utah, 1; Washington, 1

<sup>4</sup> Includes establishments distributed as follows: Colorado, 2; Mississippi, 1; Vermont, 1.

While in the state of New York the number of establishments and the number of wage-earners and their wages showed the greatest decrease, that state reported an increase in the value of products of \$29,597,100, or more than the increase for the whole country. The total number of wage-earners decreased 12,810 and their wages \$4,520,258. This decrease in the number of establishments and wage-earners must be ascribed to the impossibility of obtaining data from all of the contractors' shops, but, notwithstanding this fact, the cost of producing the clothing is approximately correct as returned, as the manufacturers, under miscellaneous expenses, reported the amount spent for contract work, and this item showed an increase over the figures of 1890 of \$13,458,009, or 194 per cent, of which the largest proportion came under the head of contract work. One reason for the increase in the value of products in New York was that in a number of plants there had been applied new methods of manufacture, whereby the output had been increased without corresponding increase in the number of persons employed. Another reason was that the greater part of the clothing which formerly was manufactured in Massachusetts is now made in New York. Illinois showed an extraordinary increase in the number of establishments, but the total number of wage-earners and their wages remained almost stationary. The value of products increased \$3,752,276, the second largest increase among the states. While the total number of wage-earners showed a small decrease, the relative number of men and women employed underwent a great change. In 1890 the number of men was 12,312, and of women 3,618; in 1900 the number of men had decreased to 5,094, while the number of women had increased to 9,105. The number of children employed increased more than tenfold.

The same reasons which apply to New York regarding the decrease in the number of wage-earners and their wages and a corresponding increase in the amount used for miscellaneous expenses, including contract work, apply also to Illinois, where the miscellaneous expenses increased \$4,312,509, or 156.7 per cent. The third largest increase was shown in Maryland, where the number of establishments increased

from 125 to 139, or 11.2 per cent, and the value of products from \$15,032,924 to \$17,327,825, a gain of \$2,294,901, but the number of wage-earners decreased from 12,700 to 9,725, and their wages from \$3,766,670 to \$3,179,069. There was a corresponding increase in the amount of miscellaneous expenses, including contract work.

The number of establishments in California decreased considerably, but the value of products increased from \$2,568,921 to \$3,869,891, a gain of \$1,300,970. The number of wage-earners in California almost doubled. While Kentucky showed the second largest decrease in the number of establishments, the number of wage-earners in that state increased slightly and there was a considerable increase in the value of products.

Massachusetts showed a marked decrease in all items. The number of wage-earners decreased 3,950, from 7,283 to 3,333; their wages \$1,452,602, from \$2,874,880 to \$1,422,278; and the value of products \$11,411,693, from \$21,242,647 to \$9,830,954. The principal reason for this remarkable decrease was that the strict enforcement of the laws restricting the manufacture of clothing to places where it can be carried on under sanitary conditions, and the application of the label "Tenement made" to garments not made in factories caused many of the manufacturers in Massachusetts to have their clothing manufactured in New York and other neighboring states. The second largest decrease appeared in Ohio, where, though the number of establishments increased with 31, the value of products decreased \$4,010,310, the total number of wage-earners from 15,210 to 6,521 and their wages from \$3,567,738 to \$2,143,619. The miscellaneous expenses, including contract work, increased from \$1,034,007 to \$2,044,440. While there was a considerable increase in the number of establishments in Pennsylvania, that state showed the third largest decrease in the value of products. The total number of wage-earners increased from 7,695 to 10,497 and their wages from \$3,298,517 to \$4,422,074. To offset this increase the amount expended for miscellaneous expenses, including contract work, decreased from \$4,053,254 to \$2,137,272.

Table 4 is a summary of establishments, classified by the number of wage-earners employed for 1900, by states, arranged geographically.

## MANUFACTURES.

TABLE 4.—CLOTHING, MEN'S, FACTORY PRODUCT: ESTABLISHMENTS CLASSIFIED BY NUMBER OF PERSONS EMPLOYED, BY STATES, ARRANGED GEOGRAPHICALLY, 1900.

|                         | Total number of establishments | NUMBER OF ESTABLISHMENTS EMPLOYING— |          |          |           |            |             |             |               |             |
|-------------------------|--------------------------------|-------------------------------------|----------|----------|-----------|------------|-------------|-------------|---------------|-------------|
|                         |                                | No employees.                       | Under 5. | 5 to 20. | 21 to 50. | 51 to 100. | 101 to 250. | 251 to 500. | 501 to 1,000. | Over 1,000. |
| United States.....      | 5,781                          | 211                                 | 1,116    | 2,707    | 1,142     | 303        | 183         | 47          | 17            | 2           |
| New England states..... | 266                            | 7                                   | 35       | 97       | 91        | 26         | 8           | 2           |               |             |
| Maine.....              | 42                             | 1                                   | 2        | 12       | 16        | 8          | 3           |             |               |             |
| New Hampshire.....      | 9                              |                                     | 2        | 2        | 2         | 2          | 1           |             |               |             |
| Vermont.....            | 7                              |                                     |          | 1        | 3         | 1          | 1           |             |               |             |
| Massachusetts.....      | 194                            | 6                                   | 29       | 72       | 69        | 14         | 3           | 1           |               |             |
| Rhode Island.....       | 2                              |                                     |          | 2        |           |            |             |             |               |             |
| Connecticut.....        | 12                             |                                     | 2        | 8        | 1         | 1          |             |             |               |             |
| Middle states.....      | 3,258                          | 105                                 | 656      | 1,567    | 677       | 150        | 71          | 21          | 10            | 1           |
| New York.....           | 2,581                          | 79                                  | 526      | 1,265    | 521       | 83         | 40          | 14          | 3             |             |
| New Jersey.....         | 106                            |                                     | 11       | 55       | 24        | 9          | 6           | 1           |               |             |
| Pennsylvania.....       | 481                            | 24                                  | 93       | 196      | 110       | 39         | 14          | 3           | 2             |             |
| Delaware.....           | 1                              |                                     |          |          | 1         |            |             |             |               |             |
| Maryland.....           | 189                            | 2                                   | 26       | 51       | 21        | 19         | 11          | 3           | 5             | 1           |
| Southern states.....    | 310                            | 5                                   | 84       | 108      | 47        | 29         | 32          | 5           |               |             |
| West Virginia.....      | 3                              | 1                                   |          |          | 1         | 1          |             |             |               |             |
| Virginia.....           | 9                              |                                     |          | 2        | 3         | 3          | 1           |             |               |             |
| North Carolina.....     | 14                             |                                     |          | 2        | 2         | 5          | 5           |             |               |             |
| South Carolina.....     | 5                              |                                     |          |          | 1         | 3          |             |             |               |             |
| Georgia.....            | 13                             |                                     | 1        | 3        | 5         | 3          | 6           |             |               |             |
| Kentucky.....           | 192                            | 1                                   | 79       | 85       | 13        | 2          | 6           | 1           |               |             |
| Tennessee.....          | 22                             |                                     |          | 3        | 7         | 5          | 6           | 1           |               |             |
| Alabama.....            | 7                              |                                     |          | 1        |           |            |             |             |               |             |
| Mississippi.....        | 2                              |                                     |          |          |           | 1          | 1           |             |               |             |
| Arkansas.....           | 2                              |                                     | 1        |          |           |            |             |             |               |             |
| Louisiana.....          | 25                             | 1                                   |          | 7        | 5         | 4          | 5           | 3           |               |             |
| Texas.....              | 11                             |                                     |          | 5        | 3         | 1          | 2           |             |               |             |
| Central states.....     | 1,790                          | 71                                  | 312      | 908      | 314       | 93         | 68          | 18          | 5             | 1           |
| Ohio.....               | 539                            | 15                                  | 163      | 263      | 64        | 21         | 8           |             |               |             |
| Michigan.....           | 40                             | 2                                   | 4        | 10       | 12        | 4          | 6           | 1           | 1             |             |
| Indiana.....            | 31                             |                                     | 1        | 5        | 7         | 6          | 8           | 4           |               |             |
| Illinois.....           | 900                            | 42                                  | 106      | 501      | 186       | 39         | 22          | 2           | 2             |             |
| Wisconsin.....          | 89                             | 3                                   | 5        | 45       | 21        | 6          | 9           |             |               |             |
| Minnesota.....          | 25                             |                                     | 3        | 8        | 4         | 2          | 5           | 3           |               |             |
| Iowa.....               | 18                             | 1                                   |          | 1        | 5         | 6          | 4           | 1           |               |             |
| Missouri.....           | 148                            | 8                                   | 25       | 75       | 15        | 9          | 6           | 7           | 2             | 1           |
| Western states.....     | 7                              |                                     | 1        | 1        |           | 1          | 3           | 1           |               |             |
| Nebraska.....           | 2                              |                                     |          |          |           |            | 1           | 1           |               |             |
| Utah.....               | 1                              |                                     |          |          |           | 1          |             |             |               |             |
| Colorado.....           | 1                              |                                     |          |          |           |            | 1           |             |               |             |
| Kansas.....             | 3                              |                                     | 1        | 1        |           |            | 1           |             |               |             |
| Pacific states.....     | 100                            | 23                                  | 28       | 26       | 13        | 4          | 4           |             | 2             |             |
| Washington.....         | 1                              |                                     |          | 1        |           |            |             |             |               |             |
| Oregon.....             | 3                              | 1                                   | 1        |          |           |            | 1           |             |               |             |
| California.....         | 96                             | 22                                  | 27       | 25       | 13        | 4          | 3           |             | 2             |             |

Table 4 exhibits very forcibly the conditions under which the manufacture of men's clothing, factory product, was carried on. Of the total number of establishments reported, not less than 1,327, or 23.2 per cent, either did not employ any help or employed less than 5 persons. The small shops employing between 5 and 20 persons constituted the largest proportion; of these there were 2,707, or 47.2 per cent. There were 1,142 establishments, or 19.9 per cent, employing between 21

and 50 workers, and 489, or 8.5 per cent, in which the workers numbered between 51 and 250. Only 66 factories, or 1.2 per cent of the total, employed more than 250 hands.

Table 5 shows the total number of wage-earners, with wages; the number of men, women, and children, with wages; and the per cent of each to the total number, by geographic divisions, for 1900.

TABLE 5.—CLOTHING, MEN'S, FACTORY PRODUCT: WAGE-EARNERS AND WAGES, BY GEOGRAPHIC DIVISIONS, 1900.

|                         | Total average number. | Per cent of total average number. | Total wages. | MEN.            |                                   |              | WOMEN.          |                                   |              | CHILDREN.       |                                   |              |
|-------------------------|-----------------------|-----------------------------------|--------------|-----------------|-----------------------------------|--------------|-----------------|-----------------------------------|--------------|-----------------|-----------------------------------|--------------|
|                         |                       |                                   |              | Average number. | Per cent of total average number. | Total wages. | Average number. | Per cent of total average number. | Total wages. | Average number. | Per cent of total average number. | Total wages. |
| United States.....      | 120,950               | 100.0                             | \$45,505,778 | 48,077          | 39.7                              | \$27,323,966 | 69,862          | 57.8                              | \$17,768,507 | 3,011           | 2.5                               | \$415,305    |
| New England states..... | 5,580                 | 4.6                               | 1,966,518    | 1,819           | 32.9                              | 1,045,201    | 3,692           | 66.8                              | 918,674      | 19              | .3                                | 2,643        |
| Middle states.....      | 64,308                | 53.2                              | 23,197,428   | 34,393          | 53.5                              | 20,081,003   | 28,566          | 44.4                              | 7,936,263    | 1,349           | 2.1                               | 180,162      |
| Southern states.....    | 9,924                 | 8.2                               | 2,120,455    | 1,561           | 15.7                              | 594,490      | 7,952           | 80.1                              | 1,484,019    | 411             | 4.2                               | 41,946       |
| Central states.....     | 37,926                | 31.3                              | 12,237,505   | 9,404           | 24.8                              | 5,214,064    | 27,314          | 72.0                              | 6,886,445    | 1,208           | 3.2                               | 186,996      |
| Western states.....     | 675                   | .6                                | 180,355      | 65              | 9.6                               | 32,495       | 601             | 89.1                              | 146,642      | 9               | 1.3                               | 1,213        |
| Pacific states.....     | 2,587                 | 2.1                               | 308,517      | 835             | 32.3                              | 356,718      | 1,737           | 67.1                              | 444,464      | 15              | .6                                | 2,340        |

The total number of wage-earners reported was 120,950, and the total wages \$45,505,778. Of this total 48,077, or 39.7 per cent, were men, receiving \$27,323,966 in wages. The number of women was 69,862, or 57.8 per cent, who received \$17,766,507 in wages, and the number of children was 3,011, or 2.5 per cent, receiving \$415,305 in wages.

The number of wage-earners in the Middle states was 64,308, or 53.2 per cent of the total, who produced 61.5 per cent of the total product, while in the Central states the number of wage-earners was 37,926, or 31.3 per cent, who, however, produced only 27.9 per cent of the product. In the Southern states the number of wage-earners was 9,924, or 8.2 per cent, who produced

4.2 per cent of the product. In the New England states the number of wage-earners was 5,530, or 4.6 per cent of the total, who produced 4.6 per cent of the products. In the Pacific states 2,587 wage-earners, or 2.1 per cent, produced 1.5 per cent of the product. It should be remembered that the workers in this industry, as a rule, work on full time for only about eight months in a year; for one or two months they work on half time, and as a rule they are idle about two months.

Table 6 presents a comparison between the number of establishments, capital, and value of products for 1890 and 1900, by states, arranged geographically; also the percentage of total and of increase of each item.

TABLE 6.—CLOTHING, MEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, NUMBER OF ESTABLISHMENTS, CAPITAL, AND VALUE OF PRODUCTS, BY STATES, ARRANGED GEOGRAPHICALLY, WITH PERCENTAGES, 1890 AND 1900.

|                                   | 1900            |                    |               |                    |               |                    | 1890            |                    |               |                    |               |                    | PER CENT OF INCREASE, 1890 TO 1900. |          |           |
|-----------------------------------|-----------------|--------------------|---------------|--------------------|---------------|--------------------|-----------------|--------------------|---------------|--------------------|---------------|--------------------|-------------------------------------|----------|-----------|
|                                   | Establishments. |                    | Capital.      |                    | Products.     |                    | Establishments. |                    | Capital.      |                    | Products.     |                    | Number of establishments.           | Capital. | Products. |
|                                   | Number.         | Per cent of total. | Amount.       | Per cent of total. | Value.        | Per cent of total. | Number.         | Per cent of total. | Amount.       | Per cent of total. | Value.        | Per cent of total. |                                     |          |           |
| United States.....                | 5,781           | 100.0              | \$120,620,851 | 100.0              | \$276,861,607 | 100.0              | 4,867           | 100.0              | \$128,253,547 | 100.0              | \$251,019,609 | 100.0              | 17.8                                | 16.0     | 10.8      |
| New England states.....           | 266             | 4.6                | 5,092,941     | 4.2                | 12,626,756    | 4.6                | 335             | 6.9                | 13,829,441    | 10.4               | 26,224,537    | 10.5               | 120.6                               | 161.8    | 151.9     |
| Maine.....                        | 42              | 0.7                | 443,752       | 0.4                | 1,835,886     | 0.5                | 87              | 1.8                | 664,430       | 0.5                | 1,989,183     | 0.8                | 151.7                               | 183.2    | 182.8     |
| New Hampshire.....                | 9               | 0.2                | 258,884       | 0.2                | 418,324       | 0.2                | 17              | 0.4                | 275,950       | 0.2                | 654,712       | 0.3                | 147.1                               | 16.2     | 186.1     |
| Massachusetts.....                | 194             | 3.3                | 3,793,174     | 3.1                | 9,880,954     | 3.5                | 221             | 4.5                | 11,254,626    | 8.8                | 21,242,647    | 8.5                | 112.2                               | 166.8    | 153.7     |
| Connecticut.....                  | 12              | 0.2                | 158,274       | 0.1                | 279,850       | 0.1                | 3               | 0.1                | 8,850         | 0.0                | 20,280        | 0.0                | 300.0                               | 4,011.0  | 1,279.9   |
| All other New England states..... | 90              | 0.2                | 438,907       | 0.4                | 761,792       | 0.3                | 87              | 0.1                | 1,180,585     | 0.9                | 2,317,715     | 0.9                | 28.6                                | 161.2    | 167.1     |
| Middle states.....                | 3,258           | 56.9               | 71,326,449    | 59.1               | 170,808,308   | 61.5               | 3,227           | 66.3               | 73,029,187    | 56.9               | 141,856,582   | 56.5               | 1.0                                 | 12.3     | 20.1      |
| New York.....                     | 2,531           | 44.2               | 51,850,648    | 42.6               | 126,478,057   | 45.7               | 2,661           | 54.7               | 46,158,319    | 36.0               | 96,880,957    | 38.6               | 14.9                                | 11.3     | 30.5      |
| New Jersey.....                   | (4)             |                    |               |                    |               |                    | 104             | 2.1                | 1,484,179     | 1.1                | 3,210,358     | 1.3                |                                     |          |           |
| Pennsylvania.....                 | 481             | 8.4                | 10,446,107    | 8.6                | 23,389,043    | 8.5                | 337             | 6.9                | 15,609,046    | 12.2               | 26,732,348    | 10.6               | 42.7                                | 133.1    | 112.5     |
| Maryland.....                     | 139             | 2.4                | 8,458,116     | 7.0                | 17,327,825    | 6.2                | 125             | 2.6                | 9,782,643     | 7.6                | 15,032,924    | 6.0                | 11.2                                | 113.5    | 15.3      |
| All other Middle states.....      | 907             | 1.9                | 1,071,578     | 0.9                | 3,113,883     | 1.1                |                 |                    |               |                    |               |                    |                                     |          |           |
| Southern states.....              | 310             | 5.4                | 5,725,477     | 4.8                | 11,634,945    | 4.2                | 316             | 6.5                | 3,017,421     | 2.4                | 6,388,705     | 2.5                | 11.9                                | 89.7     | 82.1      |
| West Virginia.....                | 3               | 0.1                | 209,574       | 0.2                | 501,050       | 0.2                |                 |                    |               |                    |               |                    |                                     |          |           |
| Virginia.....                     | 9               | 0.2                | 162,580       | 0.1                | 417,885       | 0.2                | 7               | 0.1                | 49,630        | 0.0                | 101,959       | 0.0                | 28.6                                | 227.6    | 309.9     |
| North Carolina.....               | 14              | 0.2                | 495,616       | 0.4                | 1,037,286     | 0.4                | 3               | 0.1                | 14,150        | 0.0                | 72,000        | 0.0                | 366.7                               | 3,402.6  | 1,340.8   |
| South Carolina.....               | 5               | 0.1                | 128,000       | 0.1                | 306,250       | 0.1                | 6               | 0.1                | 79,695        | 0.1                | 185,200       | 0.1                | 116.7                               | 60.6     | 65.4      |
| Georgia.....                      | 18              | 0.3                | 514,060       | 0.4                | 1,120,007     | 0.4                | 13              | 0.3                | 145,105       | 0.1                | 352,461       | 0.1                | 38.5                                | 254.3    | 217.9     |
| Kentucky.....                     | 192             | 3.3                | 1,569,136     | 1.3                | 3,420,365     | 1.2                | 248             | 5.1                | 1,146,454     | 0.9                | 2,518,540     | 1.0                | 122.6                               | 81.6     | 35.8      |
| Tennessee.....                    | 22              | 0.4                | 747,650       | 0.6                | 1,681,075     | 0.6                | 5               | 0.1                | 283,917       | 0.2                | 488,712       | 0.2                | 340.0                               | 213.0    | 233.7     |
| Alabama.....                      | 7               | 0.1                | 96,004        | 0.1                | 262,454       | 0.1                | (6)             |                    |               |                    |               |                    |                                     |          |           |
| Louisiana.....                    | 25              | 0.4                | 1,167,806     | 1.0                | 2,047,069     | 0.7                | 26              | 0.5                | 1,189,927     | 0.9                | 2,174,747     | 0.9                | 13.8                                | 10.2     | 15.9      |
| Texas.....                        | 11              | 0.2                | 514,371       | 0.4                | 616,584       | 0.2                | 4               | 0.1                | 94,655        | 0.1                | 299,336       | 0.1                | 175.0                               | 443.4    | 106.0     |
| All other Southern states.....    | 74              | 0.1                | 180,680       | 0.2                | 274,320       | 0.1                | 8               | 0.1                | 78,888        | 0.1                | 195,760       | 0.1                | 0.0                                 | 123.0    | 40.1      |
| Central states.....               | 1,790           | 31.2               | 36,823,852    | 30.5               | 77,365,453    | 27.9               | 819             | 17.5               | 37,600,748    | 29.3               | 72,767,722    | 29.0               | 110.8                               | 12.1     | 6.3       |
| Ohio.....                         | 589             | 9.4                | 10,732,010    | 8.9                | 16,593,824    | 6.0                | 508             | 10.5               | 13,106,296    | 10.2               | 20,604,134    | 8.2                | 6.1                                 | 113.2    | 119.5     |
| Michigan.....                     | 40              | 0.7                | 1,461,590     | 1.2                | 2,990,103     | 1.1                | 20              | 0.4                | 642,602       | 0.5                | 1,862,829     | 0.8                | 100.0                               | 127.4    | 60.5      |
| Indiana.....                      | 31              | 0.5                | 1,691,177     | 1.4                | 3,367,831     | 1.2                | 22              | 0.5                | 1,115,219     | 0.9                | 2,570,179     | 1.0                | 40.9                                | 51.7     | 31.0      |
| Illinois.....                     | 900             | 15.7               | 13,084,712    | 11.3               | 37,378,717    | 13.5               | 199             | 4.1                | 13,275,575    | 10.3               | 33,626,441    | 13.4               | 352.3                               | 3.1      | 11.2      |
| Wisconsin.....                    | 89              | 1.6                | 2,767,521     | 2.3                | 4,393,092     | 1.6                | 27              | 0.6                | 3,200,775     | 2.5                | 3,909,726     | 1.6                | 229.6                               | 118.5    | 12.4      |
| Minnesota.....                    | 25              | 0.4                | 1,174,446     | 1.0                | 2,182,101     | 0.8                | 7               | 0.1                | 357,308       | 0.7                | 1,846,816     | 0.5                | 257.1                               | 87.0     | 62.1      |
| Iowa.....                         | 18              | 0.3                | 660,514       | 0.5                | 1,534,697     | 0.5                | 7               | 0.1                | 436,900       | 0.3                | 734,245       | 0.3                | 157.1                               | 51.2     | 109.0     |
| Missouri.....                     | 148             | 2.6                | 4,681,382     | 3.9                | 8,925,088     | 3.2                | 59              | 1.2                | 4,966,073     | 3.9                | 8,113,852     | 3.2                | 150.8                               | 16.3     | 10.0      |
| Western states.....               | 7               | 0.1                | 401,667       | 0.3                | 873,570       | 0.3                | 14              | 0.2                | 432,338       | 0.3                | 760,172       | 0.3                | 150.0                               | 17.1     | 17.1      |
| Kansas.....                       | 3               | 0.0                | 93,809        | 0.1                | 98,710        | 0.0                | 7               | 0.1                | 95,304        | 0.1                | 215,864       | 0.1                | 157.1                               | 12.2     | 154.3     |
| All other Western states.....     | 4               | 0.1                | 307,858       | 0.2                | 779,860       | 0.3                | 107             | 0.1                | 336,434       | 0.2                | 594,308       | 0.2                | 142.9                               | 18.5     | 46.0      |
| Pacific states.....               | 100             | 1.8                | 1,249,965     | 1.1                | 4,047,575     | 1.5                | 128             | 2.6                | 844,412       | 0.7                | 3,031,891     | 1.2                | 120.6                               | 48.0     | 33.5      |
| Oregon.....                       | (11)            |                    |               |                    |               |                    | 5               | 0.1                | 119,715       | 0.1                | 462,970       | 0.2                |                                     |          |           |
| California.....                   | 96              | 1.7                | 1,060,934     | 0.9                | 3,869,891     | 1.4                | 121             | 2.5                | 724,697       | 0.6                | 2,568,921     | 1.0                | 120.7                               | 46.4     | 50.6      |
| All other Pacific states.....     | 104             | 0.1                | 189,031       | 0.2                | 177,684       | 0.1                |                 |                    |               |                    |               |                    |                                     |          |           |

<sup>1</sup>Decrease.

<sup>2</sup>Includes establishments distributed as follows: Rhode Island, 2; Vermont, 7.

<sup>3</sup>Includes establishments distributed as follows: Rhode Island, 6; Vermont, 1.

<sup>4</sup>See "all other Middle states."

<sup>5</sup>Includes establishments distributed as follows: Delaware, 1; New Jersey, 106.

<sup>6</sup>See "all other Southern states."

<sup>7</sup>Includes establishments distributed as follows: Arkansas, 2; Mississippi, 2.

<sup>8</sup>Includes establishments distributed as follows: Alabama, 3; Mississippi, 1.

<sup>9</sup>Includes establishments distributed as follows: Colorado, 1; Nebraska, 2; Utah, 1.

<sup>10</sup>Includes establishments distributed as follows: Colorado, 2; Nebraska, 5.

<sup>11</sup>See "all other Pacific states."

<sup>12</sup>Includes establishments distributed as follows: Oregon, 3; Washington, 1.

As in 1890, the 5 Middle states reported more than one-half of the industry. But while these states in 1890 reported 3,227 establishments, or 66.3 per cent of the aggregate for the United States, the number had increased only 1 per cent in 1900, to 3,258, a decrease to 56.9 per cent of the aggregate. The capital in the Middle states decreased during the decade 2.3 per cent, from \$73,029,187 to \$71,326,449, but its proportion of the aggregate increased from 56.9 to 59.1 per cent. In 1900 the value of products in the Middle states was \$170,308,308, or 61.5 per cent of the aggregate, against \$141,856,582, or 56.5 per cent, in 1890, an increase of \$28,451,726, or 20.1 per cent.

The Central states formed the group second in importance, the number of establishments in this group increasing from 849 in 1890 to 1,790 in 1900. At the beginning of the decade the number of establishments constituted 17.5 per cent of the aggregate, and at the end of the decade 31.2 per cent. During the same time the capital in this group decreased 2.1 per cent, from \$37,600,748 to \$36,823,852, an increase from 29.3 per cent of the aggregate to 30.5 per cent. The value of products increased \$4,597,731, or 6.3 per cent, from \$72,767,722 to \$77,365,453, but its proportion of the aggregate decreased from 29 per cent to 27.9.

The New England states still ranked third, by a small margin, in the value of products, but during the decade the Southern states passed them in respect to number of establishments and capital invested. The total number of establishments in the New England states decreased from 335 to 266; in 1890 they constituted 6.9 per cent of the aggregate, and in 1900, 4.6 per cent. The capital decreased 61.8 per cent, from \$13,329,441 to \$5,092,941, constituting only 4.2 per cent of the aggregate in 1900 against 10.4 per cent in 1890. The value of products decreased 51.9 per cent, from \$26,224,537 to \$12,626,756. In 1900 it constituted 4.6 per cent of the aggregate, against 10.5 per cent in 1890.

While the number of establishments in the Southern states showed a decrease during the decade from 316 to 310, the capital increased 89.7 per cent, from \$3,017,421 to \$5,725,477, or from 2.4 per cent of the aggregate to 4.8 per cent. The value of products increased 82.1 per cent, from \$6,388,705 to \$11,634,945, and was 4.2 per cent of the aggregate in 1900, against 2.5 per cent in 1890.

The industry was not carried on to any considerable extent in the Western and Pacific states.

Among the Middle states, New York showed a decrease in the number of establishments. In 1890, 54.7 per cent of the establishments of the industry were located in New York, but in 1900 the percentage was only 44.2. The capital invested increased \$5,197,329, or 11.3 per cent, from \$46,153,319 to \$51,350,648, making it 42.6 per cent of the aggregate in 1900 against 36 per cent in 1890. New York was the only state that showed any noteworthy increase in the

aggregate percentage of capital invested. The value of products in New York increased \$29,597,100, or 30.5 per cent, from \$96,880,957 to \$126,478,057. In 1900 New York produced 45.7 per cent of the aggregate product for the industry against 38.6 per cent in 1890. The only other state in this division showing an increase in the value of products was Maryland, where this item increased 15.3 per cent, while the capital invested decreased 13.5 per cent. Pennsylvania showed a considerable decrease in capital and in value of products, the former decreasing from \$15,609,046 to \$10,446,107, or 33.1 per cent, being only 8.6 per cent of the aggregate in 1900 against 12.2 per cent in 1890. The value of products decreased from \$26,732,348 to \$23,389,043, or 12.5 per cent, and was 8.5 per cent of the aggregate in 1900 against 10.6 per cent in 1890. In New Jersey the industry remained almost stationary.

Among the Central states, Illinois showed the largest increase in number of establishments and in value of products, but only a slight increase in capital invested. The relative position of Illinois remained the same; in 1900 the capital invested constituted 11.3 per cent of the aggregate against 10.3 per cent in 1890, and the value of products 13.5 per cent against 13.4 per cent in 1890. The only state among the Central states showing a decrease was Ohio. The capital invested decreased from \$13,106,296 to \$10,732,010, or 18.2 per cent, and the value of products from \$20,604,134 to \$16,593,824, or 19.5 per cent. In 1900 the capital invested in the industry in Ohio constituted 8.9 per cent of the aggregate against 10.2 per cent in 1890 and the value of products 6 and 8.2, respectively. All the other states in this group showed increases in the value of products, but their proportion of the aggregate remained practically the same.

The greatest changes took place in the New England group. With the exception of Connecticut and Vermont, in which states the industry hardly existed in 1890, every state showed a considerable decrease in number of establishments, as well as in capital and product. The largest decrease appeared in Massachusetts, where the capital decreased \$7,461,452, from \$11,254,626 to \$3,793,174, or 66.3 per cent, and the value of products \$11,411,693, from \$21,242,647 to \$9,830,954, or 53.7 per cent. In 1900 the percentage of the aggregate capital was 3.1 and of the aggregate product 3.5, against 8.8 and 8.5, respectively, in 1890. The reason for this decrease has already been shown.

The most noteworthy changes in the Southern group appear in the states of North Carolina, Tennessee, and Georgia. In 1890 the capital in North Carolina was \$13,150 and the value of products \$72,000; in 1900 the capital had increased to \$495,616 and the value of products to \$1,037,286. In Tennessee the value of products increased from \$488,712 in 1890 to \$1,631,075 in 1900, and in Georgia from \$352,461 to \$1,120,607. In Kentucky the value of products increased from

\$2,518,540 to \$3,420,365. The only state in this group showing a decrease was Louisiana, where the value of products decreased from \$2,174,747 in 1890 to \$2,047,069 in 1900.

While the number of establishments in California decreased from 121 in 1890 to 96 in 1900, the capital increased from \$724,697 to \$1,060,934, and the value of products from \$2,568,921 to \$3,869,891.

Table 7 is a comparative summary of capital for 1890 and 1900, with the percentage of each item to the total and the per cent of increase for the decade.

TABLE 7.—CLOTHING, MEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, CAPITAL, 1890 AND 1900, WITH PER CENT OF INCREASE.

|                                       | 1900          |                    | 1890          |                    | Per cent of increase. |
|---------------------------------------|---------------|--------------------|---------------|--------------------|-----------------------|
|                                       | Amount.       | Per cent of total. | Amount.       | Per cent of total. |                       |
| Total.....                            | \$120,620,351 | 100.0              | \$128,258,547 | 100.0              | 16.0                  |
| Land.....                             | 2,528,189     | 2.1                | 2,069,521     | 1.6                | 22.2                  |
| Buildings.....                        | 3,718,776     | 3.1                | 3,269,222     | 2.5                | 18.7                  |
| Machinery, tools, and implements..... | 5,284,736     | 4.4                | 3,020,620     | 2.4                | 75.0                  |
| Cash and sundries..                   | 109,088,650   | 90.4               | 119,894,184   | 93.5               | 19.1                  |

<sup>1</sup> Decrease.

The total capital decreased 6 per cent, from \$128,258,547 to \$120,620,351. This decrease is accounted for, in part at least, by changes in business methods. Formerly the manufacturers carried large stocks of clothing and materials on hand; now the goods are made up as fast as the orders come in, and only small quantities are kept in stock. The unreasonably long credits which used to be given in the clothing trade have been considerably shortened, and the prosperous times enable the retailers to settle their accounts with the manufacturers in a prompt manner. These reasons account for the decrease of \$10,805,534, or 9.1 per cent, from \$119,894,184 in 1890 to \$109,088,650 in 1900, in the last item—"cash and sundries." This item includes cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries. On the other hand the extended use of machinery caused an increase of 75 per cent in the value of machinery, tools, and implements, which increased \$2,264,116—from \$3,020,620 in 1890 to \$5,284,736 in 1900. The value of land and buildings also showed increases, but the relative proportion of all the items of the total remained almost the same. Another reason for the decrease in capital was that some of the wholesale clothiers, who in 1890 returned schedules as manufacturers and reported the amount they had invested in the industry, although at that time they did very little manufacturing themselves, having almost all their work done by contractors, in 1900 carried on the manufacture in their own factories without reporting a larger capital invested. Few of those who reported for the first time in 1900

were large concerns, but mostly small shops requiring only a nominal capital. This is substantiated by the facts as they appear in Illinois and Pennsylvania.

In Illinois the number of establishments in 1890 was 199, with a capital of \$13,275,575, or an average capital of \$66,711. In 1900 the number of establishments had increased to 900, but the capital only to \$13,684,712, making the average capital per establishment \$15,205. Thus the extraordinary increase in the number of establishments in this state, without a corresponding increase in the capital, was the cause of the decrease in the average capital per establishment for the United States. In Pennsylvania, where 337 establishments in 1890 had an average capital of \$46,318, in 1900, 481 establishments had an average capital of only \$21,718. In New York the tendency was different, the decrease there appearing in the number of establishments, indicating that many of the smaller shops were not reported. The increase in the capital followed as a consequence of the large increase in the volume of goods manufactured, and also indicated that the larger manufacturers had invested money in equipping plants of their own. The average capital in New York increased from \$17,344 in 1890 to \$20,289 in 1900.

The schedule of inquiry adopted for 1890 was the first which contained questions designed to show the cost of manufacture other than for wages and materials. The questions of the Twelfth Census relating to miscellaneous expenses were made as nearly uniform as possible with those of the previous census, and the returns are shown in Table 8, together with the per cent of each item to the total.

TABLE 8.—CLOTHING, MEN'S, FACTORY PRODUCT: MISCELLANEOUS EXPENSES, 1900.

|   | Amount.      | Per cent of total. |
|---|--------------|--------------------|
| Total.....  | \$37,509,258 | 100.0              |
| Rent of works.....  | 3,191,716    | 8.5                |
| Taxes, not including internal revenue.....  | 326,098      | 0.9                |
| Rent of offices, insurance, interest, repairs, advertising, and other sundries..... | 6,909,205    | 18.4               |
| Contract work.....  | 27,082,239   | 72.2               |

The miscellaneous expenses increased \$17,049,213, or 83.3 per cent, from \$20,460,045 to \$37,509,258. Of this total the principal item was the amount paid for contract work, which was \$27,082,239, or 72.2 per cent. It must be noted that the amount paid for contract work amounted to 59.5 per cent of the total wages paid. For rent of works \$3,191,716 was expended, or 8.5 per cent of the miscellaneous expenses. The small amount expended for rent of works indicates plainly that in this industry the burden of supplying places to carry on the work is thrown on the contractors. The small amount of taxes depended upon the fact that the largest part of the industry was carried on in rented quarters.

Table 9 shows the cost of the different materials used in 1900, with the per cent of each item to the total.

TABLE 9.—CLOTHING, MEN'S, FACTORY PRODUCT: COST OF MATERIALS, 1900.

|   | Amount.       | Per cent of total. |
|---|---------------|--------------------|
| Total .....   | \$145,295,248 | 100.0              |
| Purchased in partially manufactured form <sup>1</sup> ..... | 143,638,324   | 98.9               |
| Fuel .....  | 384,844       | 0.3                |
| Rent of power and heat .....                                | 312,329       | 0.2                |
| Freight .....   | 959,751       | 0.6                |

<sup>1</sup> Includes mill supplies, which are shown separately in Table 11.

The total cost of materials in 1900 was \$145,295,248, as compared with \$128,846,857 in 1890, an increase of \$16,448,391, or 12.7 per cent.

Of the amount expended for materials \$143,638,324, or 98.9 per cent, was spent for materials purchased in partially manufactured form; \$697,173, or five-tenths of 1 per cent, for fuel and rent of power and heat; and \$959,751, or six-tenths of 1 per cent, for freight. The small amount expended for fuel and rent of power and heat was caused by the fact that, in many of the places using power, it was supplied by the owner of the building and included in the amount charged for rent. It is impossible with the data at hand to show the proportions of any of the materials used in the manufacture of clothing.

Table 10 shows the imports and exports of domestic wearing apparel of cotton, silk, and wool, not including

knit goods, for the years 1890, 1895, and 1900, respectively.

TABLE 10.—IMPORTS AND EXPORTS OF DOMESTIC CLOTHING AND WEARING APPAREL OF COTTON, SILK, AND WOOL, 1890, 1895, AND 1900.

| ARTICLES.   | 1900        | 1895        | 1890        |
|---|-------------|-------------|-------------|
| IMPORTS.  |             |             |             |
| Total .....   | \$3,881,491 | \$5,580,066 | \$2,772,568 |
| Cotton clothing, ready-made, and other wearing apparel, not including knit goods .....          | 1,231,231   | 2,766,877   | 336,655     |
| Silk clothing, ready-made, and other wearing apparel .....                                      | 1,657,641   | 1,818,697   | 595,344     |
| Wool clothing, ready-made, and other wearing apparel, not including shawls and knit goods ..... | 992,619     | 999,492     | 1,840,669   |
| EXPORTS (DOMESTIC).   |             |             |             |
| Total .....   | 2,172,997   | 834,884     | 558,706     |
| Cotton wearing apparel .....  | 1,602,608   | 518,730     | 240,796     |
| Wool wearing apparel .....  | 570,389     | 316,154     | 317,910     |

Table 10 indicates that the exports had almost quadrupled during the last decade, and that while the imports increased over the figures of 1890 they decreased considerably from those of 1895. Of the exports of cotton wearing apparel the largest part went to the countries in Oceania and in North and Central America, a very small percentage going to Europe and South America. The largest part of the wool wearing apparel was exported to the North and Central American countries.

Table 11 presents in detail the statistics for the manufacture of men's clothing, factory product, for 1900.

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TABLE 11.—CLOTHING, MEN'S, FACTORY

|    | United States.  | Alabama.      | California. | Connecticut. | Georgia.  | Illinois.   |              |
|----|---|---------------|-------------|--------------|-----------|-------------|--------------|
| 1  | Number of establishments.....   | 5,731         | 7           | 96           | 12        | 18          | 900          |
|    | Character of organization:  |               |             |              |           |             |              |
| 2  | Individual.....   | 4,057         | 2           | 35           | 6         | 2           | 744          |
| 3  | Firm and limited partnership.....   | 1,430         | 3           | 56           | 6         | 10          | 135          |
| 4  | Incorporated company.....   | 243           | 2           | 5            |           | 6           | 21           |
| 5  | Miscellaneous.....  | 1             |             |              |           |             |              |
|    | Capital:  |               |             |              |           |             |              |
| 6  | Total.....  | \$120,620,351 | \$96,004    | \$1,060,934  | \$158,274 | \$514,060   | \$13,654,712 |
| 7  | Land.....   | \$2,528,189   |             | \$42,500     | \$1,800   | \$11,840    | \$364,735    |
| 8  | Buildings.....  | \$3,718,776   |             | \$33,000     | \$18,500  | \$27,700    | \$558,075    |
| 9  | Machinery, tools, and implements.....   | \$5,284,736   | \$16,189    | \$108,153    | \$5,220   | \$71,251    | \$451,695    |
| 10 | Cash and sundries.....  | \$109,088,650 | \$79,815    | \$882,281    | \$133,254 | \$403,269   | \$12,310,207 |
| 11 | Proprietors and firm members.....   | 7,556         | 9           | 278          | 18        | 81          | 1,059        |
|    | Salaries:   |               |             |              |           |             |              |
| 12 | Total number.....   | 10,002        | 13          | 72           | 1         | 43          | 1,708        |
| 13 | Total salaries.....   | \$10,404,409  | \$11,060    | \$66,072     | \$500     | \$37,840    | \$1,835,508  |
|    | Officers of corporations—   |               |             |              |           |             |              |
| 14 | Number.....   | 342           | 3           | 3            |           | 9           | 40           |
| 15 | Salaries.....   | \$830,098     | \$3,060     | \$6,020      |           | \$10,350    | \$121,460    |
|    | General superintendents, managers, clerks, etc.—                                    |               |             |              |           |             |              |
| 16 | Total number.....   | 9,660         | 10          | 69           | 1         | 34          | 1,668        |
| 17 | Total salaries.....   | \$9,574,311   | \$8,000     | \$60,052     | \$500     | \$26,900    | \$1,714,058  |
|    | Men—  |               |             |              |           |             |              |
| 18 | Number.....   | 8,085         | 10          | 58           | 1         | 31          | 1,394        |
| 19 | Salaries.....   | \$9,115,481   | \$8,000     | \$55,853     | \$500     | \$26,010    | \$1,594,468  |
|    | Women—  |               |             |              |           |             |              |
| 20 | Number.....   | 975           |             | 11           |           | 3           | 274          |
| 21 | Salaries.....   | \$458,830     |             | \$4,199      |           | \$980       | \$119,590    |
|    | Wage-earners:   |               |             |              |           |             |              |
| 22 | Greatest number employed at any one time during the year.....                       | 141,410       | 199         | 2,609        | 174       | 1,889       | 18,122       |
| 23 | Least number employed at any one time during the year.....                          | 108,479       | 188         | 2,156        | 123       | 1,172       | 12,839       |
|    | Average number of wage-earners, and total wages:                                    |               |             |              |           |             |              |
| 24 | Total average number.....   | 120,950       | 191         | 2,410        | 137       | 1,276       | 14,977       |
| 25 | Total wages.....  | \$45,505,778  | \$46,546    | \$758,264    | \$52,822  | \$230,947   | \$5,845,254  |
|    | Men, 16 years and over—   |               |             |              |           |             |              |
| 26 | Average number.....   | 48,077        | 16          | 814          | 68        | 119         | 5,094        |
| 27 | Wages.....  | \$27,323,966  | \$6,265     | \$348,774    | \$35,866  | \$44,408    | \$3,007,804  |
|    | Women, 16 years and over—   |               |             |              |           |             |              |
| 28 | Average number.....   | 69,862        | 165         | 1,581        | 69        | 1,083       | 9,105        |
| 29 | Wages.....  | 7,766,507     | \$39,281    | \$407,150    | \$16,956  | \$178,070   | \$2,713,585  |
|    | Children, under 16 years—   |               |             |              |           |             |              |
| 30 | Average number.....   | 3,011         | 10          | 15           |           | 74          | 778          |
| 31 | Wages.....  | \$415,305     | \$1,000     | \$2,340      |           | \$3,469     | \$123,865    |
|    | Average number of wage-earners, including pieceworkers, employed during each month: |               |             |              |           |             |              |
|    | Men, 16 years and over—   |               |             |              |           |             |              |
| 32 | January.....  | 46,079        | 16          | 799          | 86        | 120         | 4,809        |
| 33 | February.....   | 49,012        | 16          | 813          | 85        | 122         | 4,897        |
| 34 | March.....  | 52,428        | 16          | 830          | 88        | 123         | 5,433        |
| 35 | April.....  | 51,325        | 16          | 832          | 91        | 124         | 5,574        |
| 36 | May.....  | 50,599        | 16          | 820          | 64        | 123         | 5,570        |
| 37 | June.....   | 49,588        | 15          | 780          | 40        | 121         | 5,222        |
| 38 | July.....   | 46,451        | 15          | 787          | 40        | 107         | 4,606        |
| 39 | August.....   | 41,050        | 16          | 820          | 40        | 112         | 4,671        |
| 40 | September.....  | 46,902        | 17          | 838          | 55        | 112         | 4,940        |
| 41 | October.....  | 46,521        | 16          | 837          | 55        | 119         | 5,275        |
| 42 | November.....   | 49,595        | 16          | 808          | 85        | 122         | 5,236        |
| 43 | December.....   | 46,876        | 16          | 807          | 86        | 120         | 4,890        |
|    | Women, 16 years and over—   |               |             |              |           |             |              |
| 44 | January.....  | 69,171        | 186         | 1,546        | 74        | 1,081       | 8,571        |
| 45 | February.....   | 70,755        | 183         | 1,579        | 74        | 1,141       | 8,306        |
| 46 | March.....  | 75,774        | 180         | 1,543        | 76        | 1,160       | 9,598        |
| 47 | April.....  | 71,343        | 178         | 1,560        | 75        | 1,141       | 10,047       |
| 48 | May.....  | 73,155        | 174         | 1,579        | 70        | 1,121       | 10,064       |
| 49 | June.....   | 68,566        | 113         | 1,542        | 58        | 1,075       | 9,310        |
| 50 | July.....   | 65,370        | 112         | 1,527        | 59        | 1,075       | 8,265        |
| 51 | August.....   | 67,036        | 117         | 1,550        | 59        | 1,016       | 8,472        |
| 52 | September.....  | 69,888        | 189         | 1,608        | 68        | 1,032       | 8,938        |
| 53 | October.....  | 69,518        | 190         | 1,641        | 69        | 1,067       | 9,419        |
| 54 | November.....   | 70,065        | 188         | 1,643        | 73        | 1,110       | 9,251        |
| 55 | December.....   | 68,203        | 174         | 1,652        | 73        | 1,091       | 8,517        |
|    | Children, under 16 years—   |               |             |              |           |             |              |
| 56 | January.....  | 2,980         | 10          | 12           |           | 76          | 786          |
| 57 | February.....   | 3,179         | 10          | 15           |           | 83          | 767          |
| 58 | March.....  | 3,184         | 10          | 16           |           | 77          | 814          |
| 59 | April.....  | 3,125         | 10          | 16           |           | 79          | 854          |
| 60 | May.....  | 2,871         | 10          | 15           |           | 78          | 645          |
| 61 | June.....   | 3,009         | 10          | 15           |           | 68          | 795          |
| 62 | July.....   | 2,838         | 10          | 14           |           | 70          | 711          |
| 63 | August.....   | 2,711         | 10          | 15           |           | 67          | 614          |
| 64 | September.....  | 2,865         | 10          | 15           |           | 66          | 721          |
| 65 | October.....  | 3,101         | 10          | 16           |           | 66          | 884          |
| 66 | November.....   | 2,911         | 10          | 13           |           | 73          | 776          |
| 67 | December.....   | 3,358         | 10          | 13           |           | 82          | 936          |
|    | Miscellaneous expenses:   |               |             |              |           |             |              |
| 68 | Total.....  | \$97,509,258  | \$5,593     | \$241,655    | \$5,732   | \$25,200    | \$7,065,130  |
| 69 | Rent of works.....  | \$3,191,716   | \$3,332     | \$47,640     | \$2,227   | \$9,962     | \$453,998    |
| 70 | Taxes, not including internal revenue.....  | \$326,098     | \$589       | \$6,679      | \$235     | \$2,915     | \$62,591     |
| 71 | Rent of offices, interest, etc.....   | \$6,909,205   | \$1,672     | \$77,343     | \$3,145   | \$12,273    | \$1,513,221  |
| 72 | Contract work.....  | \$27,082,239  |             | \$109,938    | \$125     | \$50        | \$5,030,320  |
|    | Cost of materials used:   |               |             |              |           |             |              |
| 73 | Total.....  | \$145,295,248 | \$152,424   | \$2,309,326  | \$157,227 | \$657,352   | \$18,211,015 |
| 74 | Purchased in partially manufactured form (including "all other materials").....     | \$148,557,128 | \$148,071   | \$2,333,520  | \$155,092 | \$639,142   | \$17,864,057 |
| 75 | Fuel.....   | \$384,844     | \$295       | \$8,113      | \$416     | \$1,390     | \$67,529     |
| 76 | Rent of power and heat.....   | \$312,329     | \$758       | \$7,838      | \$167     | \$6,080     | \$40,219     |
| 77 | Mill supplies.....  | \$81,196      | \$265       | \$4,686      | \$22      | \$1,110     | \$8,479      |
| 78 | Freight.....  | \$959,751     | \$3,035     | \$55,169     | \$1,230   | \$9,630     | \$230,701    |
| 79 | Products, total value.....  | \$276,361,607 | \$262,454   | \$3,869,891  | \$279,850 | \$1,120,607 | \$37,378,717 |
|    | Comparison of products:   |               |             |              |           |             |              |
| 80 | Number of establishments reporting for both years.....                              | 4,911         | 6           | 84           | 9         | 11          | 768          |
| 81 | Census year.....  | \$258,002,494 | \$207,454   | \$3,007,201  | \$224,080 | \$738,001   | \$33,528,323 |
| 82 | Preceding business year.....  | \$227,414,226 | \$218,700   | \$2,719,931  | \$198,200 | \$527,030   | \$29,268,836 |

CLOTHING

PRODUCT, BY STATES: 1900.

| Indiana.    | Iowa.       | Kansas.  | Kentucky.   | Louisiana.  | Maine.      | Maryland.    | Massachusetts. | Michigan.   | Minnesota.  |    |
|-------------|-------------|----------|-------------|-------------|-------------|--------------|----------------|-------------|-------------|----|
| 31          | 18          | 3        | 192         | 25          | 42          | 139          | 194            | 40          | 25          | 1  |
| 12          | 3           |          | 169         | 8           | 24          | 59           | 106            | 16          | 10          | 2  |
| 10          | 3           | 2        | 16          | 12          | 14          | 74           | 76             | 14          | 13          | 3  |
| 9           | 12          | 1        | 7           | 5           | 4           | 5            | 12             | 10          | 2           | 4  |
|             |             |          |             |             |             | 1            |                |             |             | 5  |
| \$1,601,177 | \$660,514   | \$93,809 | \$1,509,136 | \$1,167,806 | \$443,752   | \$9,458,116  | \$8,793,174    | \$1,461,590 | \$1,174,446 | 6  |
| \$44,739    | \$10,000    | \$1,500  | \$24,442    | \$10,500    | \$10,650    | \$135,700    | \$17,025       | \$20,450    | \$1,200     | 7  |
| \$73,500    | \$30,000    | \$1,500  | \$53,430    | \$20,000    | \$33,578    | \$356,200    | \$60,025       | \$46,880    |             | 8  |
| \$154,505   | \$74,545    | \$5,750  | \$90,439    | \$46,840    | \$30,664    | \$419,434    | \$179,086      | \$130,248   | \$160,004   | 9  |
| \$1,418,433 | \$545,969   | \$85,059 | \$1,340,825 | \$1,090,466 | \$338,890   | \$7,546,782  | \$3,537,038    | \$1,264,012 | \$1,013,242 | 10 |
| 32          | 8           | 5        | 210         | 41          | 52          | 253          | 276            | 49          | 45          | 11 |
| 134         | 133         | 10       | 172         | 112         | 39          | 766          | 316            | 133         | 118         | 12 |
| \$153,328   | \$101,818   | \$4,977  | \$136,915   | \$99,450    | \$27,921    | \$719,535    | \$338,704      | \$125,731   | \$131,610   | 13 |
| 12          | 19          |          | 12          | 5           | 1           | 4            | 26             | 10          | 3           | 14 |
| \$23,970    | \$34,000    |          | \$24,180    | \$6,900     | \$1,000     | \$5,623      | \$92,250       | \$19,800    | \$1,000     | 15 |
| 122         | 119         | 10       | 160         | 107         | 88          | 762          | 290            | 123         | 115         | 16 |
| \$129,358   | \$67,818    | \$4,977  | \$112,735   | \$92,550    | \$26,921    | \$713,907    | \$246,454      | \$105,931   | \$130,610   | 17 |
| 107         | 115         | 10       | 145         | 100         | 83          | 718          | 238            | 104         | 104         | 18 |
| \$123,156   | \$65,218    | \$4,977  | \$109,928   | \$84,100    | \$24,791    | \$607,662    | \$222,406      | \$99,058    | \$124,650   | 19 |
| 15          | 4           |          | 15          | 7           | 5           | 44           | 52             | 19          | 11          | 20 |
| \$6,202     | \$2,600     |          | \$2,807     | \$8,450     | \$2,130     | \$16,245     | \$23,938       | \$6,978     | \$5,960     | 21 |
| 3,157       | 1,537       | 121      | 3,114       | 2,335       | 1,738       | 10,554       | 4,308          | 2,365       | 2,167       | 22 |
| 2,611       | 1,135       | 77       | 2,529       | 1,747       | 832         | 8,846        | 2,612          | 1,692       | 1,835       | 23 |
| 2,908       | 1,340       | 101      | 2,701       | 2,052       | 1,270       | 9,725        | 3,333          | 2,008       | 1,716       | 24 |
| \$634,751   | \$303,286   | \$18,989 | \$694,018   | \$389,405   | \$271,967   | \$3,179,069  | \$1,422,278    | \$501,646   | \$503,874   | 25 |
| 264         | 147         | 11       | 602         | 251         | 253         | 3,929        | 1,396          | 324         | 135         | 26 |
| \$104,230   | \$66,132    | \$4,602  | \$237,620   | \$112,609   | \$33,923    | \$1,921,588  | \$370,423      | \$174,879   | \$91,399    | 27 |
| 2,638       | 1,178       | 90       | 1,993       | 1,730       | 1,007       | 5,202        | 1,929          | 1,664       | 1,601       | 28 |
| \$529,896   | \$235,304   | \$14,337 | \$444,795   | \$271,376   | \$136,902   | \$1,191,837  | \$550,429      | \$324,185   | \$395,695   | 29 |
| 6           | 15          |          | 106         | 71          | 10          | 594          | 8              | 20          | 80          | 30 |
| \$625       | \$1,800     |          | \$11,603    | \$5,420     | \$1,142     | \$65,644     | \$1,426        | \$2,582     | \$20,780    | 31 |
| 261         | 137         | 12       | 578         | 265         | 259         | 3,916        | 1,250          | 314         | 143         | 32 |
| 261         | 143         | 13       | 569         | 271         | 266         | 4,030        | 1,367          | 317         | 146         | 33 |
| 263         | 153         | 10       | 627         | 263         | 275         | 4,051        | 1,464          | 337         | 154         | 34 |
| 267         | 148         | 9        | 632         | 266         | 241         | 3,978        | 1,437          | 342         | 156         | 35 |
| 267         | 151         | 9        | 607         | 252         | 243         | 3,913        | 1,417          | 343         | 156         | 36 |
| 266         | 148         | 9        | 562         | 202         | 237         | 3,832        | 1,300          | 317         | 114         | 37 |
| 264         | 139         | 10       | 559         | 212         | 225         | 3,889        | 1,280          | 322         | 115         | 38 |
| 267         | 149         | 11       | 533         | 265         | 231         | 3,894        | 1,429          | 315         | 119         | 39 |
| 262         | 150         | 11       | 641         | 259         | 238         | 3,906        | 1,534          | 318         | 125         | 40 |
| 266         | 152         | 11       | 641         | 246         | 260         | 3,934        | 1,552          | 319         | 133         | 41 |
| 265         | 152         | 11       | 617         | 245         | 232         | 3,893        | 1,422          | 325         | 136         | 42 |
| 263         | 146         | 12       | 605         | 269         | 235         | 3,922        | 1,304          | 318         | 125         | 43 |
| 2,528       | 1,158       | 98       | 1,943       | 1,555       | 1,030       | 5,375        | 1,825          | 1,595       | 1,551       | 44 |
| 2,668       | 1,178       | 107      | 1,969       | 1,720       | 1,040       | 5,439        | 1,900          | 1,623       | 1,565       | 45 |
| 2,725       | 1,222       | 96       | 2,066       | 1,861       | 1,088       | 5,538        | 2,023          | 1,774       | 1,588       | 46 |
| 2,679       | 1,133       | 72       | 2,074       | 1,833       | 1,101       | 5,391        | 1,995          | 1,812       | 1,617       | 47 |
| 2,669       | 1,227       | 88       | 2,074       | 1,861       | 1,011       | 5,171        | 1,961          | 1,780       | 1,616       | 48 |
| 2,592       | 1,186       | 74       | 1,905       | 1,639       | 938         | 5,054        | 1,888          | 1,707       | 1,301       | 49 |
| 2,611       | 1,131       | 84       | 1,833       | 1,698       | 882         | 4,853        | 1,825          | 1,713       | 1,370       | 50 |
| 2,708       | 1,167       | 97       | 1,936       | 1,802       | 834         | 4,903        | 1,914          | 1,646       | 1,598       | 51 |
| 2,742       | 1,177       | 90       | 2,032       | 1,778       | 909         | 4,838        | 1,964          | 1,631       | 1,571       | 52 |
| 2,673       | 1,163       | 98       | 2,032       | 1,643       | 1,079       | 5,147        | 2,016          | 1,612       | 1,586       | 53 |
| 2,558       | 1,138       | 96       | 1,979       | 1,600       | 1,059       | 5,247        | 1,943          | 1,587       | 1,311       | 54 |
| 2,497       | 1,151       | 86       | 1,973       | 1,709       | 1,060       | 5,417        | 1,894          | 1,544       | 1,330       | 55 |
| 6           | 16          |          | 102         | 69          | 9           | 617          | 5              | 20          | 80          | 56 |
| 6           | 16          |          | 104         | 73          | 7           | 628          | 5              | 20          | 80          | 57 |
| 6           | 16          |          | 112         | 73          | 11          | 650          | 5              | 22          | 80          | 58 |
| 6           | 16          |          | 110         | 69          | 9           | 629          | 6              | 22          | 80          | 59 |
| 6           | 16          |          | 119         | 69          | 6           | 616          | 7              | 22          | 80          | 60 |
| 6           | 16          |          | 101         | 73          | 8           | 600          | 11             | 21          | 80          | 61 |
| 6           | 14          |          | 102         | 73          | 16          | 597          | 11             | 20          | 80          | 62 |
| 6           | 14          |          | 110         | 73          | 17          | 512          | 11             | 20          | 80          | 63 |
| 6           | 14          |          | 108         | 73          | 9           | 518          | 11             | 20          | 80          | 64 |
| 6           | 13          |          | 105         | 69          | 8           | 561          | 11             | 20          | 80          | 65 |
| 6           | 12          |          | 103         | 69          | 10          | 574          | 9              | 14          | 80          | 66 |
| 6           | 12          |          | 98          | 69          | 10          | 623          | 5              | 16          | 80          | 67 |
| \$101,495   | \$95,446    | \$2,232  | \$259,040   | \$54,679    | \$75,749    | \$1,502,530  | \$1,434,508    | \$234,637   | \$127,332   | 68 |
| \$17,077    | \$12,854    | \$350    | \$25,898    | \$21,023    | \$6,120     | \$166,588    | \$138,070      | \$25,095    | \$22,730    | 69 |
| \$3,133     | \$5,361     | \$330    | \$6,518     | \$2,814     | \$2,737     | \$32,465     | \$29,760       | \$7,265     | \$3,692     | 70 |
| \$55,235    | \$77,231    | \$1,082  | \$108,519   | \$62,942    | \$20,595    | \$511,617    | \$133,544      | \$119,696   | \$50,960    | 71 |
| \$20,000    |             |          | \$118,105   | \$7,900     | \$16,297    | \$791,860    | \$1,083,134    | \$32,631    | \$50,000    | 72 |
| \$2,005,942 | \$910,106   | \$68,027 | \$1,851,051 | \$1,170,767 | \$633,471   | \$10,241,703 | \$5,011,759    | \$1,738,145 | \$1,376,545 | 73 |
| \$1,947,328 | \$833,634   | \$57,593 | \$1,812,974 | \$1,146,295 | \$668,702   | \$10,135,798 | \$4,972,205    | \$1,701,709 | \$1,347,632 | 74 |
| \$7,288     | \$3,404     | \$672    | \$6,232     | \$308       | \$5,448     | \$15,467     | \$6,653        | \$2,996     | \$2,130     | 75 |
| \$11,649    | \$2,753     | \$50     | \$5,459     | \$5,536     | \$2,262     | \$10,939     | \$19,504       | \$7,704     | \$9,723     | 76 |
| \$2,699     | \$754       | \$29     | \$2,373     | \$475       | \$312       | \$7,705      | \$2,577        | \$2,278     | \$1,135     | 77 |
| \$36,978    | \$19,506    | \$4,683  | \$23,963    | \$17,653    | \$6,247     | \$21,749     | \$10,320       | \$23,458    | \$16,370    | 78 |
| \$3,367,331 | \$1,534,697 | \$93,710 | \$3,420,365 | \$2,047,069 | \$1,335,336 | \$17,327,325 | \$9,330,954    | \$2,990,103 | \$2,132,101 | 79 |
| 28          | 14          | 2        | 170         | 22          | 28          | 106          | 171            | 33          | 17          | 80 |
| \$3,278,931 | \$1,491,634 | \$93,460 | \$3,362,422 | \$2,010,669 | \$1,267,036 | \$16,425,275 | \$9,347,136    | \$2,810,332 | \$1,909,526 | 81 |
| \$3,091,123 | \$1,327,761 | \$83,750 | \$2,937,390 | \$1,891,726 | \$1,178,410 | \$14,839,439 | \$8,777,520    | \$2,337,016 | \$1,590,100 | 82 |

TABLE 11.—CLOTHING, MEN'S, FACTORY

|  | United States. | Alabama. | California. | Connecticut. | Georgia. | Illinois. |
|--|----------------|----------|-------------|--------------|----------|-----------|
| 83 Power: Number of establishments reporting .....   | 1,519          | 6        | 25          | 4            | 16       | 266       |
| 84 Total horsepower .....  | 14,178         | 25       | 236         | 19           | 154      | 1,977     |
| Owned—   |                |          |             |              |          |           |
| Engines—   |                |          |             |              |          |           |
| Steam—   |                |          |             |              |          |           |
| 85      Number .....   | 202            |          | 2           | 1            | 2        | 19        |
| 86      Horsepower .....   | 6,273          |          | 120         | 10           | 30       | 514       |
| Gas or gasoline—   |                |          |             |              |          |           |
| 87      Number .....   | 288            |          | 5           |              | 1        | 125       |
| 88      Horsepower .....   | 1,337          |          | 20          |              | 6        | 400       |
| Electric motors—   |                |          |             |              |          |           |
| 89      Number .....   | 80             |          |             |              |          | 15        |
| 90      Horsepower .....   | 831            |          |             |              |          | 848       |
| Other power—   |                |          |             |              |          |           |
| 91      Number .....   | 7              |          |             |              |          |           |
| 92      Horsepower .....   | 28             |          |             |              |          |           |
| Water wheels—  |                |          |             |              |          |           |
| 93      Number .....   | 15             |          |             |              | 1        |           |
| 94      Horsepower .....   | 252            |          |             |              | 40       |           |
| Rented—  |                |          |             |              |          |           |
| 95    Total horsepower .....   | 5,462          | 25       | 96          | 9            | 78       | 715       |
| 96      Electric .....   | 4,131          | 25       | 76          | 9            | 78       | 380       |
| 97      Other kind .....   | 1,331          |          | 20          |              |          | 335       |
| 98    Horsepower furnished to other establishments .....   | 217            |          |             |              |          | 64        |
| Establishments classified by number of persons employed, not including proprietors and firm members: |                |          |             |              |          |           |
| 99    Total number of establishments .....   | 5,731          | 7        | 96          | 12           | 18       | 900       |
| 100    No employees .....  | 211            | 1        | 22          |              |          | 42        |
| 101    Under 5 .....   | 1,116          | 3        | 27          | 2            | 1        | 106       |
| 102    5 to 20 .....   | 2,707          | 1        | 25          | 8            | 3        | 501       |
| 103    21 to 50 .....  | 1,142          | 2        | 18          | 1            | 5        | 186       |
| 104    51 to 100 .....   | 303            |          | 4           | 1            | 3        | 39        |
| 105    101 to 250 .....  | 186            |          | 3           |              | 6        | 22        |
| 106    251 to 500 .....  | 47             |          |             |              |          | 2         |
| 107    501 to 1,000 .....  | 17             |          | 2           |              |          | 2         |
| 108    Over 1,000 .....  | 2              |          |             |              |          | 2         |

CLOTHING.

PRODUCT: BY STATES, 1900—Continued.

| Indiana. | Iowa. | Kansas. | Kentucky. | Louisiana. | Maine. | Maryland. | Massachusetts. | Michigan. | Minnesota. |     |
|----------|-------|---------|-----------|------------|--------|-----------|----------------|-----------|------------|-----|
| 28       | 16    | 8       | 16        | 14         | 22     | 31        | 111            | 27        | 16         | 88  |
| 426      | 200   | 25      | 250       | 121        | 182    | 984       | 395            | 316       | 817        | 84  |
| 6        | 4     | 2       | 1         |            | 8      | 11        | 6              | 3         | 2          | 85  |
| 170      | 106   | 24      | 60        |            | 79     | 740       | 67             | 102       | 85         | 86  |
| 8        | 5     |         | 3         | 1          | 1      | 12        | 1              | 3         | 1          | 87  |
| 94       | 43    |         | 13        | 4          | 14     | 96        | 3              | 49        | 5          | 88  |
|          |       |         | 4         |            | 1      | 5         |                |           |            | 89  |
|          |       |         | 19        |            | 2      | 29        |                |           | 20         | 90  |
|          |       |         |           |            |        |           | 1              |           |            | 91  |
|          |       |         |           |            |        |           | 2              |           |            | 92  |
|          |       |         |           |            | 2      |           |                |           |            | 93  |
|          |       |         |           |            | 25     |           |                |           |            | 94  |
| 162      | 51    | 1       | 158       | 117        | 62     | 69        | 823            | 165       | 207        | 95  |
| 162      | 47    | 1       | 138       | 117        | 61     | 56        | 211            | 152       | 162        | 96  |
|          | 4     |         | 20        |            | 1      | 18        | 112            | 18        | 45         | 97  |
|          |       |         |           |            |        |           |                |           | 25         | 98  |
| 81       | 18    | 3       | 192       | 25         | 42     | 139       | 194            | 40        | 25         | 99  |
|          | 1     |         | 1         | 1          | 1      | 2         | 6              | 2         |            | 100 |
| 1        |       | 1       | 79        |            | 2      | 26        | 29             | 4         | 3          | 101 |
| 5        | 1     | 1       | 85        | 7          | 12     | 51        | 72             | 10        | 3          | 102 |
| 7        | 5     |         | 18        | 5          | 16     | 21        | 69             | 12        | 4          | 103 |
| 6        | 6     |         | 2         | 4          | 8      | 19        | 14             | 4         | 2          | 104 |
| 8        | 4     | 1       | 6         | 5          | 3      | 11        | 8              | 6         | 5          | 105 |
| 4        | 1     |         | 1         | 3          |        | 3         | 1              | 1         | 3          | 106 |
|          |       |         |           |            |        | 6         |                | 1         |            | 107 |
|          |       |         |           |            |        | 1         |                |           |            | 108 |

TABLE 11.—CLOTHING, MEN'S, FACTORY

|     | Missouri.   | New Hampshire. | New Jersey. | New York.   | North Carolina. | Ohio.       |              |
|-----|---|----------------|-------------|-------------|-----------------|-------------|--------------|
| 1   | Number of establishments.....   | 148            | 9           | 106         | 2,531           | 14          | 539          |
| 2   | Character of organization:  |                |             |             |                 |             |              |
| 3   | Individual.....   | 96             | 4           | 82          | 1,826           | 5           | 433          |
| 4   | Firm and limited partnership.....   | 29             | 4           | 20          | 665             | 1           | 94           |
| 5   | Incorporated company.....   | 23             | 1           | 4           | 40              | 8           | 12           |
| 6   | Capital:  |                |             |             |                 |             |              |
| 7   | Total.....  | \$4,651,882    | \$258,834   | \$1,066,373 | \$51,850,648    | \$495,616   | \$10,732,010 |
| 8   | Land.....   | \$73,100       | \$6,300     | \$59,000    | \$1,043,333     | \$2,900     | \$139,700    |
| 9   | Buildings.....  | \$109,900      | \$31,776    | \$134,143   | \$1,138,477     | \$23,657    | \$234,404    |
| 10  | Machinery, tools, and implements.....   | \$249,794      | \$11,976    | \$89,755    | \$1,828,158     | \$51,806    | \$221,508    |
| 11  | Cash and sundries.....  | \$4,219,088    | \$205,782   | \$785,480   | \$47,840,630    | \$417,263   | \$10,136,398 |
| 12  | Proprietors and firm members.....   | 161            | 13          | 124         | 3,353           | 9           | 676          |
| 13  | Salaried officials, clerks, etc.:   |                |             |             |                 |             |              |
| 14  | Total number.....   | 386            | 25          | 73          | 3,542           | 87          | 785          |
| 15  | Total salaries.....   | \$511,336      | \$20,572    | \$91,563    | \$3,785,990     | \$71,471    | \$305,898    |
| 16  | Officers of corporations—   |                |             |             |                 |             |              |
| 17  | Number.....   | 28             | 2           | 2           | 69              | 17          | 23           |
| 18  | Salaries.....   | \$68,030       | .....       | \$2,500     | \$268,140       | \$20,300    | \$40,470     |
| 19  | General superintendents, managers, clerks, etc.—                                    |                |             |             |                 |             |              |
| 20  | Total number.....   | 358            | 25          | 76          | 3,478           | 70          | 762          |
| 21  | Total salaries.....   | \$445,306      | \$20,572    | \$89,063    | \$3,517,850     | \$51,171    | \$765,428    |
| 22  | Men—  |                |             |             |                 |             |              |
| 23  | Number.....   | 309            | 22          | 70          | 3,164           | 68          | 705          |
| 24  | Salaries.....   | \$386,689      | \$19,173    | \$86,455    | \$3,379,718     | \$50,511    | \$740,933    |
| 25  | Women—  |                |             |             |                 |             |              |
| 26  | Number.....   | 49             | 3           | 6           | 309             | 2           | 57           |
| 27  | Salaries.....   | \$56,617       | \$1,394     | \$2,608     | \$138,132       | \$660       | \$24,476     |
| 28  | Wage-earners:   |                |             |             |                 |             |              |
| 29  | Greatest number employed at any one time during the year.....                       | 7,475          | 306         | 3,441       | 48,068          | 1,058       | 7,312        |
| 30  | Least number employed at any one time during the year.....                          | 5,483          | 189         | 2,500       | 37,317          | 850         | 6,327        |
| 31  | Average number of wage-earners and total wages:                                     |                |             |             |                 |             |              |
| 32  | Total average number.....   | 6,129          | 245         | 2,756       | 41,300          | 860         | 6,521        |
| 33  | Total wages.....  | \$1,693,725    | \$68,989    | \$1,008,327 | \$19,579,938    | \$148,267   | \$2,143,619  |
| 34  | Men, 16 years and over—   |                |             |             |                 |             |              |
| 35  | Average number.....   | 957            | 24          | 1,162       | 24,274          | 138         | 1,989        |
| 36  | Wages.....  | \$469,065      | \$18,332    | \$569,348   | \$14,626,270    | \$41,657    | \$1,061,551  |
| 37  | Women, 16 years and over—   |                |             |             |                 |             |              |
| 38  | Average number.....   | 5,098          | 220         | 1,523       | 16,700          | 650         | 4,365        |
| 39  | Wages.....  | \$1,214,440    | \$55,032    | \$429,292   | \$4,908,233     | \$100,440   | \$1,063,058  |
| 40  | Children, under 16 years—   |                |             |             |                 |             |              |
| 41  | Average number.....   | 74             | 1           | 71          | 326             | 72          | 176          |
| 42  | Wages.....  | \$10,220       | \$75        | \$9,687     | \$45,385        | \$6,170     | \$19,010     |
| 43  | Average number of wage-earners, including pieceworkers, employed during each month: |                |             |             |                 |             |              |
| 44  | Men, 16 years and over—   |                |             |             |                 |             |              |
| 45  | January.....  | 932            | 23          | 1,074       | 22,923          | 149         | 1,961        |
| 46  | February.....   | 947            | 24          | 1,141       | 25,255          | 151         | 1,957        |
| 47  | March.....  | 986            | 25          | 1,213       | 27,493          | 146         | 2,060        |
| 48  | April.....  | 987            | 24          | 1,285       | 26,698          | 143         | 2,082        |
| 49  | May.....  | 991            | 23          | 1,261       | 25,830          | 148         | 2,089        |
| 50  | June.....   | 938            | 23          | 1,148       | 26,268          | 140         | 1,979        |
| 51  | July.....   | 951            | 22          | 1,027       | 24,207          | 124         | 1,890        |
| 52  | August.....   | 944            | 24          | 1,068       | 18,226          | 125         | 1,925        |
| 53  | September.....  | 949            | 24          | 1,185       | 23,242          | 122         | 1,984        |
| 54  | October.....  | 964            | 24          | 1,222       | 22,195          | 136         | 1,935        |
| 55  | November.....   | 958            | 26          | 1,216       | 25,473          | 136         | 1,958        |
| 56  | December.....   | 941            | 26          | 1,102       | 23,518          | 136         | 1,895        |
| 57  | Women, 16 years and over—   |                |             |             |                 |             |              |
| 58  | January.....  | 4,997          | 195         | 1,491       | 16,863          | 734         | 4,333        |
| 59  | February.....   | 5,230          | 214         | 1,537       | 17,060          | 749         | 4,324        |
| 60  | March.....  | 5,482          | 239         | 1,590       | 19,566          | 754         | 4,599        |
| 61  | April.....  | 5,495          | 240         | 1,672       | 15,335          | 740         | 4,718        |
| 62  | May.....  | 5,407          | 213         | 1,656       | 17,229          | 730         | 4,639        |
| 63  | June.....   | 4,319          | 200         | 1,489       | 16,711          | 597         | 4,355        |
| 64  | July.....   | 4,342          | 179         | 1,328       | 15,795          | 565         | 4,055        |
| 65  | August.....   | 4,928          | 185         | 1,372       | 16,231          | 550         | 4,153        |
| 66  | September.....  | 5,170          | 203         | 1,485       | 16,941          | 542         | 4,306        |
| 67  | October.....  | 5,062          | 239         | 1,618       | 15,573          | 615         | 4,359        |
| 68  | November.....   | 4,924          | 263         | 1,594       | 16,941          | 610         | 4,325        |
| 69  | December.....   | 4,314          | 253         | 1,449       | 16,173          | 610         | 4,154        |
| 70  | Children, under 16 years—   |                |             |             |                 |             |              |
| 71  | January.....  | 71             | 1           | 73          | 312             | 79          | 137          |
| 72  | February.....   | 80             | 1           | 74          | 451             | 82          | 131          |
| 73  | March.....  | 80             | 1           | 74          | 364             | 82          | 130          |
| 74  | April.....  | 81             | 1           | 75          | 230             | 87          | 130          |
| 75  | May.....  | 85             | 1           | 76          | 337             | 90          | 131          |
| 76  | June.....   | 78             | 1           | 71          | 314             | 65          | 174          |
| 77  | July.....   | 70             | 1           | 64          | 260             | 60          | 173          |
| 78  | August.....   | 67             | 1           | 66          | 304             | 60          | 177          |
| 79  | September.....  | 76             | 1           | 68          | 326             | 60          | 173          |
| 80  | October.....  | 69             | 1           | 71          | 358             | 68          | 173          |
| 81  | November.....   | 67             | 1           | 71          | 233             | 68          | 166          |
| 82  | December.....   | 68             | 1           | 69          | 511             | 68          | 163          |
| 83  | Miscellaneous expenses:   |                |             |             |                 |             |              |
| 84  | Total.....  | \$685,073      | \$18,413    | \$212,421   | \$20,396,003    | \$23,238    | \$2,044,440  |
| 85  | Rent of works.....  | \$111,031      | \$660       | \$45,136    | \$1,533,956     | \$4,070     | \$157,092    |
| 86  | Taxes, not including internal revenue.....  | \$16,992       | \$397       | \$5,928     | \$61,403        | \$2,899     | \$32,057     |
| 87  | Rent of offices, interest, etc.....   | \$153,285      | \$9,020     | \$66,337    | \$2,830,472     | \$14,869    | \$109,270    |
| 88  | Contract work.....  | \$403,765      | \$7,336     | \$104,520   | \$15,870,172    | \$1,400     | \$1,446,111  |
| 89  | Cost of materials used:   |                |             |             |                 |             |              |
| 90  | Total.....  | \$5,095,150    | \$253,300   | \$1,328,182 | \$64,500,271    | \$639,472   | \$9,112,231  |
| 91  | Purchased in partially manufactured form (including "all other materials").....     | \$4,999,207    | \$245,608   | \$1,285,988 | \$64,125,920    | \$619,870   | \$8,943,303  |
| 92  | Fuel.....   | \$17,258       | \$1,291     | \$14,622    | \$143,863       | \$2,746     | \$21,232     |
| 93  | Rent of power and heat.....   | \$20,740       | \$177       | \$7,012     | \$96,177        | \$1,963     | \$15,520     |
| 94  | Mill supplies.....  | \$4,769        | \$145       | \$2,699     | \$20,862        | \$1,735     | \$2,302      |
| 95  | Freight.....  | \$53,176       | \$6,079     | \$17,361    | \$113,449       | \$13,103    | \$124,319    |
| 96  | Products, total value.....  | \$8,925,088    | \$413,324   | \$3,093,333 | \$126,478,057   | \$1,037,286 | \$16,593,324 |
| 97  | Comparison of products:   |                |             |             |                 |             |              |
| 98  | Number of establishments reporting for both years.....                              | 130            | 8           | 89          | 2,217           | 9           | 483          |
| 99  | Census year.....  | \$7,890,323    | \$416,324   | \$2,972,719 | \$120,413,675   | \$646,054   | \$15,821,093 |
| 100 | Preceding business year.....  | \$7,179,212    | \$373,076   | \$2,604,733 | \$104,949,737   | \$532,528   | \$13,327,718 |

CLOTHING.

PRODUCT: BY STATES, 1900—Continued.

| Oregon.   | Pennsylvania. | South Carolina. | Tennessee.  | Texas.    | Vermont.  | Virginia. | West Virginia. | Wisconsin.  | All other states. <sup>1</sup> |
|-----------|---------------|-----------------|-------------|-----------|-----------|-----------|----------------|-------------|--------------------------------|
| 8         | 481           | 5               | 22          | 11        | 7         | 9         | 8              | 89          | 12                             |
| 834       | 2             | 2               | 2           | 4         | 3         | 3         | 1              | 62          | 4                              |
| 134       | 2             | 2               | 10          | 2         | 2         | 3         | 1              | 12          | 4                              |
| 13        | 1             | 1               | 10          | 5         | 2         | 3         | 1              | 15          | 4                              |
| \$186,656 | \$10,446,107  | \$128,000       | \$747,650   | \$514,371 | \$424,507 | \$162,580 | \$209,574      | \$2,707,621 | \$510,513                      |
|           | \$408,840     | \$1,000         | \$25,200    | \$30,000  | \$1,600   |           | \$750          | \$36,110    | \$3,225                        |
|           | \$452,936     | \$500           | \$64,814    | \$42,000  | \$21,789  |           | \$2,600        | \$113,750   | \$35,742                       |
| \$10,081  | \$394,780     | \$8,000         | \$82,481    | \$66,963  | \$32,167  | \$16,700  | \$91,124       | \$108,820   | \$51,600                       |
| \$176,575 | \$9,189,651   | \$118,500       | \$575,155   | \$375,408 | \$369,051 | \$145,880 | \$116,200      | \$2,508,241 | \$419,946                      |
| 19        | 659           | 7               | 81          | 8         | 8         | 13        | 1              | 90          | 10                             |
| 7         | 831           | 12              | 76          | 36        | 32        | 28        | 6              | 233         | 63                             |
| \$3,418   | \$819,176     | \$5,117         | \$70,215    | \$38,990  | \$43,765  | \$17,260  | \$6,010        | \$206,157   | \$57,002                       |
|           | 10            |                 | 11          | 5         | 4         |           |                | 18          | 8                              |
|           | \$17,280      |                 | \$12,500    | \$4,800   | \$7,750   |           |                | \$31,920    | \$6,800                        |
| 7         | 821           | 12              | 65          | 31        | 28        | 28        | 6              | 215         | 55                             |
| \$8,418   | \$801,896     | \$5,117         | \$57,715    | \$34,190  | \$36,015  | \$17,260  | \$6,010        | \$234,237   | \$50,202                       |
| 1         | 766           | 12              | 62          | 31        | 26        | 23        | 5              | 204         | 49                             |
| \$480     | \$783,538     | \$5,117         | \$50,865    | \$34,190  | \$35,295  | \$14,160  | \$5,610        | \$229,485   | \$46,350                       |
| 6         | 55            |                 | 3           |           | 2         | 5         | 1              | 11          | 6                              |
| \$2,938   | \$18,308      |                 | \$850       |           | \$720     | \$3,100   | \$400          | \$4,752     | \$8,852                        |
| 195       | 12,395        | 204             | 1,070       | 557       | 687       | 414       | 95             | 2,619       | 975                            |
| 139       | 9,522         | 184             | 1,309       | 513       | 419       | 302       | 74             | 2,176       | 726                            |
| 171       | 10,497        | 176             | 1,518       | 532       | 526       | 324       | 88             | 2,327       | 840                            |
| \$42,879  | \$4,422,074   | \$37,401        | \$323,949   | \$130,602 | \$145,334 | \$53,328  | \$28,692       | \$606,850   | \$214,188                      |
| 20        | 5,024         | 15              | 258         | 55        | 73        | 65        | 13             | 503         | 93                             |
| \$7,315   | \$2,962,561   | \$6,250         | \$90,702    | \$24,161  | \$39,309  | \$16,046  | \$5,172        | \$238,464   | \$41,151                       |
| 151       | 5,115         | 158             | 1,234       | 445       | 453       | 245       | 75             | 1,765       | 730                            |
| \$35,564  | \$1,400,067   | \$30,668        | \$231,004   | \$102,233 | \$106,025 | \$35,832  | \$23,520       | \$360,282   | \$170,919                      |
|           | 358           | 3               | 21          | 32        |           | 14        |                | 59          | 17                             |
|           | \$59,446      | \$483           | \$2,243     | \$4,208   |           | \$1,450   |                | \$8,114     | \$2,118                        |
| 22        | 4,961         | 16              | 256         | 55        | 82        | 67        | 13             | 490         | 90                             |
| 20        | 5,109         | 16              | 264         | 56        | 93        | 69        | 13             | 491         | 90                             |
| 20        | 5,346         | 16              | 265         | 56        | 95        | 69        | 12             | 509         | 91                             |
| 21        | 5,363         | 16              | 262         | 56        | 93        | 73        | 12             | 506         | 91                             |
| 19        | 5,202         | 16              | 261         | 56        | 76        | 73        | 12             | 500         | 91                             |
| 20        | 4,825         | 16              | 265         | 55        | 67        | 61        | 12             | 513         | 91                             |
| 20        | 4,569         | 13              | 264         | 55        | 74        | 60        | 12             | 500         | 93                             |
| 20        | 4,742         | 13              | 249         | 54        | 68        | 60        | 12             | 510         | 93                             |
| 18        | 4,927         | 13              | 249         | 55        | 63        | 62        | 13             | 504         | 95                             |
| 19        | 5,098         | 18              | 254         | 55        | 59        | 62        | 13             | 511         | 95                             |
| 21        | 5,139         | 18              | 262         | 55        | 56        | 62        | 13             | 497         | 95                             |
| 22        | 5,010         | 16              | 250         | 55        | 64        | 62        | 13             | 503         | 95                             |
| 172       | 5,206         | 164             | 1,264       | 443       | 513       | 268       | 72             | 1,661       | 734                            |
| 165       | 5,278         | 164             | 1,226       | 443       | 542       | 302       | 77             | 1,711       | 736                            |
| 164       | 5,542         | 174             | 1,284       | 437       | 531       | 300       | 82             | 1,765       | 737                            |
| 149       | 5,058         | 174             | 1,223       | 438       | 512       | 280       | 80             | 1,728       | 736                            |
| 143       | 5,404         | 174             | 1,251       | 447       | 506       | 306       | 62             | 1,737       | 730                            |
| 134       | 4,805         | 179             | 1,263       | 446       | 394       | 208       | 62             | 1,740       | 732                            |
| 121       | 4,567         | 140             | 1,234       | 448       | 355       | 201       | 82             | 1,736       | 712                            |
| 129       | 4,707         | 140             | 1,196       | 453       | 364       | 196       | 80             | 1,780       | 703                            |
| 136       | 4,996         | 140             | 1,201       | 456       | 380       | 213       | 82             | 1,785       | 732                            |
| 163       | 5,292         | 140             | 1,203       | 446       | 406       | 219       | 82             | 1,878       | 733                            |
| 167       | 5,304         | 140             | 1,228       | 446       | 445       | 221       | 72             | 1,822       | 730                            |
| 173       | 5,218         | 164             | 1,225       | 436       | 404       | 230       | 72             | 1,855       | 740                            |
|           | 355           | 4               | 21          | 32        |           | 17        |                | 52          | 18                             |
|           | 358           | 4               | 21          | 32        |           | 20        |                | 58          | 18                             |
|           | 363           | 4               | 21          | 32        |           | 20        |                | 54          | 17                             |
|           | 369           | 4               | 23          | 32        |           | 15        |                | 56          | 16                             |
|           | 360           | 4               | 21          | 32        |           | 20        |                | 59          | 16                             |
|           | 355           | 4               | 24          | 32        |           | 10        |                | 60          | 17                             |
|           | 341           | 2               | 20          | 32        |           | 10        |                | 61          | 20                             |
|           | 343           | 2               | 20          | 32        |           | 10        |                | 61          | 19                             |
|           | 362           | 2               | 23          | 32        |           | 10        |                | 64          | 17                             |
|           | 367           | 2               | 21          | 32        |           | 10        |                | 63          | 17                             |
|           | 363           | 2               | 20          | 32        |           | 10        |                | 61          | 18                             |
|           | 364           | 4               | 19          | 32        |           | 10        |                | 64          | 20                             |
| \$4,471   | \$2,137,272   | \$14,656        | \$40,515    | \$31,343  | \$32,076  | \$7,175   | \$36,945       | \$511,768   | \$52,866                       |
| \$1,590   | \$251,787     | \$1,720         | \$13,006    | \$4,500   | \$3,480   | \$3,780   | \$500          | \$42,039    | \$3,345                        |
| \$1,156   | \$10,102      | \$865           | \$2,734     | \$3,401   | \$344     | \$905     | \$235          | \$11,740    | \$2,106                        |
| \$1,725   | \$369,723     | \$1,500         | \$20,675    | \$23,442  | \$28,052  | \$2,490   | \$1,210        | \$104,645   | \$41,915                       |
|           | \$1,505,660   | \$10,571        | \$3,500     |           |           |           | \$35,000       | \$353,289   |                                |
| \$107,089 | \$12,212,768  | \$186,889       | \$960,641   | \$346,943 | \$359,813 | \$277,264 | \$355,565      | \$2,369,930 | \$640,880                      |
| \$106,309 | \$12,100,385  | \$179,977       | \$943,239   | \$334,230 | \$351,303 | \$273,319 | \$354,600      | \$2,306,611 | \$617,822                      |
| \$20      | \$36,140      |                 | \$1,797     | \$2,572   | \$1,228   | \$754     | \$435          | \$9,333     | \$2,562                        |
| \$680     | \$17,425      | \$360           | \$4,880     | \$1,346   | \$1,742   | \$1,460   |                | \$7,108     | \$4,763                        |
| \$100     | \$5,926       | \$52            | \$2,533     | \$220     | \$395     | \$731     | \$255          | \$2,016     | \$752                          |
|           | \$52,887      | \$6,500         | \$3,137     | \$3,525   | \$4,945   | \$1,000   | \$275          | \$44,312    | \$23,991                       |
| \$105,204 | \$23,369,043  | \$306,250       | \$1,631,075 | \$616,534 | \$723,652 | \$417,885 | \$501,050      | \$4,393,002 | \$1,113,300                    |
| 3         | 369           | 4               | 18          | 6         | 4         | 6         | 2              | 85          | 9                              |
| \$165,204 | \$22,078,056  | \$238,250       | \$1,437,075 | \$231,374 | \$693,976 | \$356,335 | \$201,050      | \$4,260,796 | \$1,073,160                    |
| \$119,401 | \$20,107,628  | \$198,000       | \$1,293,600 | \$190,758 | \$495,307 | \$253,251 | \$150,375      | \$3,603,261 | \$902,608                      |

<sup>1</sup> Includes establishments distributed as follows: Arkansas, 2; Colorado, 1; Delaware, 1; Mississippi, 2; Nebraska, 2; Rhode Island, 2; Utah, 1; Washington, 1.

## MANUFACTURES

TABLE 11.—CLOTHING, MEN'S, FACTORY

|  | Missouri. | New Hampshire. | New Jersey. | New York. | North Carolina. | Ohio. |
|--|-----------|----------------|-------------|-----------|-----------------|-------|
| Power:   |           |                |             |           |                 |       |
| 82 Number of establishments reporting .....  | 51        | 5              | 36          | 488       | 11              | 109   |
| 83 Total horsepower .....  | 1,232     | 105            | 392         | 8,244     | 188             | 681   |
| Owned—   |           |                |             |           |                 |       |
| Engines—   |           |                |             |           |                 |       |
| 84 Steam—  |           |                |             |           |                 |       |
| 85 Number .....  | 9         | 2              | 23          | 41        | 4               | 6     |
| Horsepower .....   | 615       | 65             | 333         | 1,525     | 88              | 205   |
| Gas or gasoline—   |           |                |             |           |                 |       |
| 86 Number .....  | 2         |                | 5           | 58        | 4               | 18    |
| 87 Horsepower .....  | 28        |                | 19          | 211       | 20              | 131   |
| Electric motors—   |           |                |             |           |                 |       |
| 88 Number .....  | 4         |                |             | 28        | 1               | 6     |
| 89 Horsepower .....  | 40        |                |             | 200       | 8               | 32    |
| Other power—   |           |                |             |           |                 |       |
| 90 Number .....  | 1         |                |             | 4         |                 |       |
| 91 Horsepower .....  | 2         |                |             | 7         |                 |       |
| Water wheels—  |           |                |             |           |                 |       |
| 92 Number .....  |           | 4              |             | 2         |                 | 1     |
| 93 Horsepower .....  |           | 36             |             | 88        |                 | 3     |
| Rented—  |           |                |             |           |                 |       |
| 94 Total horsepower .....  | 552       | 4              | 40          | 1,218     | 22              | 310   |
| 95 Electric .....  | 324       | 4              | 35          | 881       | 18              | 278   |
| 96 Other kind .....  | 228       |                | 5           | 337       | 4               | 32    |
| 97 Horsepower furnished to other establishments .....  |           |                | 15          | 101       |                 | 11    |
| Establishments classified by number of persons employed, not including proprietors and firm members: |           |                |             |           |                 |       |
| 98 Total number of establishments .....  | 148       | 9              | 106         | 2,531     | 14              | 539   |
| 99 No employees .....  | 8         |                |             | 79        |                 | 15    |
| 100 Under 5 .....  | 25        | 2              |             | 526       |                 | 168   |
| 101 5 to 20 .....  | 75        | 2              |             | 1,265     | 2               | 263   |
| 102 21 to 50 .....   | 15        | 2              | 24          | 521       | 2               | 61    |
| 103 51 to 100 .....  | 9         | 2              | 9           | 38        | 5               | 21    |
| 104 101 to 250 .....   | 6         | 1              | 0           | 40        | 5               | 8     |
| 105 251 to 500 .....   | 7         |                | 1           | 14        |                 |       |
| 106 501 to 1,000 .....   | 2         |                |             | 8         |                 |       |
| 107 Over 1,000 .....   | 1         |                |             |           |                 |       |

CLOTHING.

PRODUCT: BY STATES, 1900—Continued.

| Oregon. | Pennsylvania. | South Carolina. | Tennessee. | Texas. | Vermont. | Virginia. | West Virginia. | Wisconsin. | All other states. <sup>1</sup> |     |
|---------|---------------|-----------------|------------|--------|----------|-----------|----------------|------------|--------------------------------|-----|
| 1       | 147           | 1               | 16         | 9      | 6        | 7         | 3              | 23         | 10                             | 82  |
| 20      | 1,679         | 10              | 149        | 66     | 158      | 45        | 21             | 430        | 281                            | 88  |
|         | 82            |                 | 3          |        | 2        |           | 1              | 8          | 4                              | 84  |
|         | 956           |                 | 52         |        | 60       |           | 10             | 150        | 107                            | 85  |
|         | 23            |                 |            |        | 1        | 3         | 2              | 6          |                                | 86  |
|         | 113           |                 |            |        | 6        | 17        | 11             | 40         |                                | 87  |
|         | 9             |                 | 1          |        |          |           |                | 3          | 2                              | 88  |
|         | 64            |                 | 4          |        |          |           |                | 25         | 40                             | 89  |
|         | 1             |                 |            |        |          |           |                |            |                                | 90  |
|         | 12            |                 |            |        |          |           |                |            |                                | 91  |
|         | 2             |                 |            | 1      | 1        |           |                | 1          |                                | 92  |
|         | 38            |                 |            | 8      | 18       |           |                | 6          |                                | 93  |
| 20      | 496           | 10              | 93         | 63     | 75       | 28        |                | 209        | 84                             | 94  |
| 20      | 391           | 10              | 90         | 63     | 50       | 18        |                | 191        | 83                             | 95  |
|         | 105           |                 | 3          |        | 25       | 10        |                | 18         | 1                              | 96  |
|         | 5             |                 | 3          |        |          |           |                |            |                                | 97  |
| 8       | 481           | 5               | 22         | 11     | 7        | 9         | 3              | 89         | 12                             | 98  |
| 1       | 24            | 1               |            |        |          |           | 1              | 3          |                                | 99  |
| 1       | 98            |                 |            |        |          |           |                | 5          |                                | 100 |
|         | 196           |                 | 3          | 5      | 1        | 2         |                | 45         |                                | 101 |
|         | 110           | 1               | 7          | 3      | 3        | 3         | 1              | 21         |                                | 102 |
|         | 39            | 3               | 5          | 1      | 1        | 3         | 1              | 6          |                                | 103 |
|         | 14            |                 | 6          | 2      | 1        | 1         |                | 9          |                                | 104 |
|         | 3             |                 | 1          |        | 1        |           |                |            |                                | 105 |
|         | 2             |                 |            |        |          |           |                |            |                                | 106 |
|         |               |                 |            |        |          |           |                |            |                                | 107 |

<sup>1</sup> Includes establishments distributed as follows: Arkansas, 2; Colorado, 1; Delaware, 1; Mississippi, 2; Nebraska, 2; Rhode Island, 2; Utah, 1; Washington, 1.

## MEN'S CLOTHING, FACTORY PRODUCT, BUTTONHOLES.

Table 12 is a comparative summary for the manufacture of buttonholes as a distinct industry at the censuses of 1890 and 1900, with the percentages of increase for the decade.

TABLE 12.—CLOTHING, MEN'S, FACTORY PRODUCT, BUTTONHOLES: COMPARATIVE SUMMARY, 1890 AND 1900, WITH PER CENT OF INCREASE FOR THE DECADE.

|  | DATE OF CENSUS. |           | PER CENT OF INCREASE.<br>1890 to 1900 |
|--|-----------------|-----------|---------------------------------------|
|  | 1900            | 1890      |                                       |
| Number of establishments .....                 | 149             | 200       | 125.5                                 |
| Capital .....                                  | \$246,539       | \$190,118 | 29.7                                  |
| Salaried officials, clerks, etc., number ..... | 11              | 208       | 194.7                                 |
| Salaries .....                                 | \$5,608         | \$134,103 | 195.8                                 |
| Wage-earners, average number .....             | 944             | 1,165     | 119.0                                 |
| Total wages .....                              | \$332,187       | \$392,822 | 115.4                                 |
| Men, 16 years and over .....                   | 426             | 472       | 19.7                                  |
| Wages .....                                    | \$199,069       | \$201,773 | 11.3                                  |
| Women, 16 years and over .....                 | 479             | 677       | 129.2                                 |
| Wages .....                                    | \$127,426       | \$188,700 | 132.5                                 |
| Children, under 16 years .....                 | 39              | 16        | 148.8                                 |
| Wages .....                                    | \$5,692         | \$2,349   | 142.3                                 |
| Miscellaneous expenses .....                   | \$86,234        | \$45,956  | 121.2                                 |
| Cost of materials used .....                   | \$98,173        | \$84,167  | 16.6                                  |
| Value of products .....                        | \$680,592       | \$784,056 | 113.2                                 |

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 13.)

The manufacture of buttonholes was not reported as a separate industry prior to the census of 1890. This industry properly belongs under men's clothing, factory product, as almost the entire work is the making of buttonholes on men's garments. Latterly the tendency has been to have the buttonholes and the garments made in the same place, which explains the general decrease in the figures for the industry. Notwithstanding this general decrease, however, capital shows an increase from \$190,118 in 1890 to \$246,539 in 1900, a gain of \$56,421, or 29.7 per cent; the gain being in the items of land, buildings, machinery, etc.

As this industry, however, is usually located in rented buildings the increase shown has no real significance. The item of cash and sundries which, in this case, really has more significance, shows a decrease from \$59,965 in 1890 to \$39,589 in 1900, a loss of \$20,376.

Table 13 shows in detail the statistics relating to the manufacture of buttonholes as returned in 1900.

TABLE 13.—CLOTHING, MEN'S, FACTORY PRODUCT, BUTTONHOLES: SUMMARY BY STATES, 1900.

|   | United States. | Illinois. | Maryland. | Massachusetts. | Missouri. | New Jersey. | New York. | Ohio.    | Pennsylvania. | All other states. <sup>1</sup> |
|---|----------------|-----------|-----------|----------------|-----------|-------------|-----------|----------|---------------|--------------------------------|
| Number of establishments .....  | 149            | 17        | 8         | 3              | 5         | 5           | 81        | 8        | 18            | 4                              |
| Character of organization:  |                |           |           |                |           |             |           |          |               |                                |
| Individual .....  | 129            | 17        | 7         | 3              | 5         | 3           | 69        | 6        | 15            | 4                              |
| Firm and limited partnership .....  | 19             |           | 1         |                |           | 2           | 12        | 2        | 2             |                                |
| Incorporated company .....  | 1              |           |           |                |           |             |           |          | 1             |                                |
| Capital:  |                |           |           |                |           |             |           |          |               |                                |
| Total .....   | \$246,539      | \$14,515  | \$7,295   | \$1,554        | \$8,810   | \$5,568     | \$170,672 | \$20,625 | \$16,405      | \$6,019                        |
| Land .....  | \$34,305       | \$4,275   | \$400     |                |           | \$2,200     | \$26,130  | \$100    |               | \$1,200                        |
| Buildings .....   | \$44,337       | \$6,800   | \$1,800   |                |           | \$2,000     | \$32,637  | \$600    |               | \$1,000                        |
| Machinery, tools, and implements .....  | \$128,308      | \$2,955   | \$4,915   | \$1,500        | \$2,370   | \$1,808     | \$84,315  | \$16,100 | \$12,190      | \$2,650                        |
| Cash and sundries .....   | \$39,589       | \$485     | \$680     | \$54           | \$1,440   | \$60        | \$27,590  | \$3,825  | \$4,305       | \$1,150                        |
| Proprietors and firm members .....  | 166            | 16        | 9         | 3              | 5         | 8           | 92        | 10       | 19            | 4                              |
| Salaried officials, clerks, etc.:   |                |           |           |                |           |             |           |          |               |                                |
| Total number .....  | 11             |           |           |                |           |             | 9         | 1        | 1             |                                |
| Total salaries .....  | \$5,608        |           |           |                |           |             | \$4,432   | \$416    | \$760         |                                |
| Officers of corporations—   |                |           |           |                |           |             |           |          |               |                                |
| Number .....  | 6              |           |           |                |           |             | 6         |          |               |                                |
| Salaries .....  | \$3,600        |           |           |                |           |             | \$3,600   |          |               |                                |
| General superintendents, managers, clerks, etc.—                                    |                |           |           |                |           |             |           |          |               |                                |
| Total number .....  | 5              |           |           |                |           |             | 3         | 1        | 1             |                                |
| Total salaries .....  | \$2,008        |           |           |                |           |             | \$832     | \$416    | \$760         |                                |
| Men—  |                |           |           |                |           |             |           |          |               |                                |
| Number .....  | 4              |           |           |                |           |             | 2         | 1        | 1             |                                |
| Salaries .....  | \$1,888        |           |           |                |           |             | \$712     | \$416    | \$760         |                                |
| Women—  |                |           |           |                |           |             |           |          |               |                                |
| Number .....  | 1              |           |           |                |           |             | 1         |          |               |                                |
| Salaries .....  | \$120          |           |           |                |           |             | \$120     |          |               |                                |
| Wage-earners:   |                |           |           |                |           |             |           |          |               |                                |
| Greatest number employed at any one time during the year .....                      | 1,071          | 63        | 41        | 11             | 14        | 16          | 556       | 192      | 154           | 24                             |
| Least number employed at any one time during the year .....                         | 935            | 43        | 37        | 6              | 11        | 12          | 507       | 162      | 147           | 16                             |
| Average number of wage-earners and total wages:                                     |                |           |           |                |           |             |           |          |               |                                |
| Total average number .....  | 944            | 44        | 39        | 8              | 12        | 9           | 502       | 174      | 140           | 16                             |
| Total wages .....   | \$332,187      | \$15,092  | \$11,884  | \$4,333        | \$4,458   | \$2,639     | \$190,208 | \$51,568 | \$17,763      | \$4,742                        |
| Men, 16 years and over—   |                |           |           |                |           |             |           |          |               |                                |
| Average number .....  | 426            | 29        | 16        | 3              | 7         | 3           | 252       | 33       | 76            | 7                              |
| Wages .....   | \$199,069      | \$11,962  | \$6,406   | \$2,570        | \$3,228   | \$1,134     | \$123,476 | \$16,128 | \$81,212      | \$2,954                        |
| Women, 16 years and over—   |                |           |           |                |           |             |           |          |               |                                |
| Average number .....  | 479            | 9         | 21        | 5              | 5         | 6           | 236       | 140      | 49            | 8                              |
| Wages .....   | \$127,426      | \$2,163   | \$4,782   | \$1,763        | \$1,230   | \$1,505     | \$64,631  | \$35,240 | \$14,466      | \$1,666                        |
| Children, under 16 years—   |                |           |           |                |           |             |           |          |               |                                |
| Average number .....  | 39             | 6         | 2         |                |           |             | 14        | 1        | 15            | 1                              |
| Wages .....   | \$5,692        | \$977     | \$196     |                |           |             | \$2,102   | \$200    | \$2,095       | \$122                          |
| Average number of wage-earners, including pieceworkers, employed during each month: |                |           |           |                |           |             |           |          |               |                                |
| Men, 16 years and over—   |                |           |           |                |           |             |           |          |               |                                |
| January .....   | 428            | 21        | 16        | 4              | 7         | 3           | 257       | 33       | 79            | 8                              |
| February .....  | 439            | 21        | 16        | 3              | 7         | 3           | 269       | 33       | 79            | 8                              |
| March .....   | 451            | 31        | 16        | 4              | 7         | 4           | 270       | 33       | 80            | 6                              |
| April .....   | 450            | 39        | 16        | 3              | 8         | 4           | 282       | 33       | 79            | 6                              |
| May .....   | 446            | 39        | 16        | 3              | 8         | 4           | 262       | 33       | 75            | 6                              |
| June .....  | 429            | 29        | 16        | 3              | 8         | 1           | 259       | 33       | 74            | 6                              |
| July .....  | 374            | 18        | 16        | 4              | 6         |             | 222       | 33       | 67            | 8                              |
| August .....  | 394            | 20        | 16        | 3              | 7         |             | 241       | 33       | 67            | 7                              |
| September .....   | 424            | 31        | 16        | 4              | 7         |             | 248       | 33       | 77            | 6                              |
| October .....   | 430            | 34        | 16        | 3              | 8         | 5           | 250       | 33       | 79            | 8                              |
| November .....  | 426            | 36        | 16        | 3              | 8         | 5           | 233       | 33       | 80            | 7                              |
| December .....  | 415            | 26        | 16        | 3              | 8         | 7           | 236       | 33       | 79            | 7                              |

<sup>1</sup> Includes establishments distributed as follows: California, 1; Michigan, 1; Wisconsin, 2.

TABLE 13.—CLOTHING, MEN'S, FACTORY PRODUCT, BUTTONHOLES: SUMMARY BY STATES, 1900—Continued.

|  | United States. | Illinois. | Maryland. | Massachusetts. | Missouri. | New Jersey. | New York. | Ohio.    | Pennsylvania. | All other states. <sup>1</sup> |
|--|----------------|-----------|-----------|----------------|-----------|-------------|-----------|----------|---------------|--------------------------------|
| Average number of wage-earners, including pieceworkers, employed during each month—Continued.        |                |           |           |                |           |             |           |          |               |                                |
| Women, 16 years and over—  |                |           |           |                |           |             |           |          |               |                                |
| January  | 478            | 8         | 19        | 5              | 4         | 3           | 247       | 133      | 40            | 10                             |
| February   | 483            | 8         | 19        | 5              | 4         | 4           | 251       | 133      | 49            | 10                             |
| March  | 492            | 8         | 19        | 6              | 4         | 6           | 250       | 133      | 49            | 8                              |
| April  | 488            | 11        | 19        | 5              | 5         | 8           | 252       | 128      | 52            | 8                              |
| May  | 516            | 10        | 23        | 5              | 5         | 8           | 253       | 153      | 51            | 8                              |
| June   | 506            | 10        | 23        | 5              | 5         | 6           | 247       | 153      | 49            | 8                              |
| July   | 439            | 10        | 23        | 5              | 4         | 1           | 212       | 133      | 42            | 9                              |
| August   | 431            | 10        | 19        | 4              | 4         |             | 217       | 125      | 43            | 6                              |
| September  | 484            | 8         | 23        | 5              | 4         | 7           | 224       | 153      | 52            | 8                              |
| October  | 493            | 8         | 23        | 5              | 5         | 10          | 227       | 153      | 54            | 8                              |
| November   | 465            | 8         | 23        | 4              | 5         | 9           | 224       | 133      | 51            | 8                              |
| December   | 473            | 8         | 23        | 4              | 5         | 5           | 222       | 148      | 50            | 8                              |
| Children, under 16 years—  |                |           |           |                |           |             |           |          |               |                                |
| January  | 38             | 5         | 2         |                |           |             | 14        | 1        | 15            | 1                              |
| February   | 38             | 5         | 2         |                |           |             | 14        | 1        | 15            | 1                              |
| March  | 38             | 5         | 2         |                |           |             | 14        | 1        | 15            | 1                              |
| April  | 42             | 9         | 2         |                |           |             | 14        | 1        | 15            | 1                              |
| May  | 42             | 9         | 2         |                |           |             | 14        | 1        | 15            | 1                              |
| June   | 39             | 5         | 2         |                | 1         |             | 14        | 1        | 15            | 1                              |
| July   | 36             | 5         | 2         |                | 1         |             | 14        | 1        | 12            | 1                              |
| August   | 36             | 5         | 2         |                | 1         |             | 14        | 1        | 12            | 1                              |
| September  | 39             | 5         | 2         |                | 1         |             | 14        | 1        | 15            | 1                              |
| October  | 39             | 6         | 2         |                |           |             | 14        | 1        | 15            | 1                              |
| November   | 42             | 6         | 2         |                |           |             | 17        | 1        | 15            | 1                              |
| December   | 39             | 5         | 2         |                |           |             | 14        | 1        | 15            | 2                              |
| Miscellaneous expenses:  |                |           |           |                |           |             |           |          |               |                                |
| Total  | \$36,234       | \$2,105   | \$1,687   | \$495          | \$686     | \$495       | \$19,787  | \$6,036  | \$3,959       | \$984                          |
| Rent of works  | \$19,296       | \$1,377   | \$1,134   | \$336          | \$508     | \$306       | \$8,855   | \$3,864  | \$2,614       | \$272                          |
| Taxes, not including internal revenue  | \$848          | \$112     | \$33      | \$3            |           | \$34        | \$559     | \$39     |               | \$38                           |
| Rent of offices, interest, etc.  | \$15,490       | \$616     | \$520     | \$156          | \$178     | \$155       | \$9,718   | \$2,133  | \$1,945       | \$674                          |
| Contract work  | \$600          |           |           |                |           |             | \$600     |          |               |                                |
| Cost of materials used:  |                |           |           |                |           |             |           |          |               |                                |
| Total  | \$98,178       | \$4,097   | \$4,874   | \$643          | \$2,419   | \$1,300     | \$50,499  | \$14,221 | \$16,383      | \$3,742                        |
| Purchased in partially manufactured form (including all other materials)                             | \$91,594       | \$3,721   | \$4,474   | \$488          | \$2,176   | \$1,268     | \$47,205  | \$13,022 | \$15,504      | \$3,676                        |
| Fuel   | \$2,906        | \$364     | \$36      | \$3            | \$15      | \$32        | \$1,968   | \$217    | \$208         | \$63                           |
| Rent of power and heat   | \$3,143        |           | \$360     | \$144          | \$208     |             | \$941     | \$394    | \$596         |                                |
| Mill supplies  | \$532          | \$12      | \$4       | \$8            | \$20      |             | \$322     | \$88     | \$75          | \$3                            |
| Freight  | \$3            |           |           |                |           |             | \$3       |          |               |                                |
| Products, total value  | \$680,502      | \$32,489  | \$26,382  | \$8,044        | \$14,112  | \$9,116     | \$351,205 | \$94,268 | \$102,181     | \$42,705                       |
| Comparison of products:  |                |           |           |                |           |             |           |          |               |                                |
| Number of establishments reporting for both years  | 135            | 13        | 7         | 3              | 5         | 4           | 74        | 8        | 17            | 4                              |
| Census year  | \$625,323      | \$25,197  | \$21,382  | \$8,044        | \$14,112  | \$5,414     | \$321,412 | \$94,268 | \$93,289      | \$42,705                       |
| Preceding business year  | \$574,382      | \$24,955  | \$21,082  | \$7,202        | \$13,588  | \$5,545     | \$296,287 | \$83,950 | \$82,573      | \$39,200                       |
| Power:   |                |           |           |                |           |             |           |          |               |                                |
| Number of establishments reporting   | 42             | 2         | 2         | 2              | 3         |             | 18        | 6        | 8             | 1                              |
| Total horsepower   | 113            | 5         | 3         | 2              | 6         |             | 59        | 17       | 18            | 3                              |
| Owned—   |                |           |           |                |           |             |           |          |               |                                |
| Engines—   |                |           |           |                |           |             |           |          |               |                                |
| Steam—   |                |           |           |                |           |             |           |          |               |                                |
| Number   | 1              |           |           |                |           |             | 1         |          |               |                                |
| Horsepower   | 4              |           |           |                |           |             | 4         |          |               |                                |
| Gas or gasoline—   |                |           |           |                |           |             |           |          |               |                                |
| Number   | 10             | 2         |           |                |           |             | 6         | 1        |               | 1                              |
| Horsepower   | 45             | 5         |           |                |           |             | 34        | 3        |               | 3                              |
| Rented—  |                |           |           |                |           |             |           |          |               |                                |
| Total horsepower   | 64             |           | 3         | 2              | 6         |             | 21        | 14       | 18            |                                |
| Electric   | 46             |           | 3         | 2              | 6         |             | 15        | 14       | 6             |                                |
| Other kind   | 18             |           |           |                |           |             | 6         |          | 12            |                                |
| Horsepower furnished to other establishments   | 2              |           |           |                |           |             | 2         |          |               |                                |
| Establishments classified by number of persons employed, not including proprietors and firm members: |                |           |           |                |           |             |           |          |               |                                |
| Total number of establishments   | 149            | 17        | 8         | 3              | 5         | 5           | 81        | 8        | 18            | 4                              |
| No employees   | 6              | 1         | 2         |                |           |             | 2         |          | 1             |                                |
| Under 5  | 71             | 10        | 1         | 2              | 4         | 4           | 41        | 1        | 6             | 2                              |
| 5 to 20  | 61             | 6         | 5         | 1              | 1         | 1           | 32        | 3        | 10            | 2                              |
| 21 to 50   | 9              |           |           |                |           |             | 5         | 3        | 1             |                                |
| 51 to 100  | 1              |           |           |                |           |             |           | 1        |               |                                |
| 101 to 250   | 1              |           |           |                |           |             | 1         |          |               |                                |

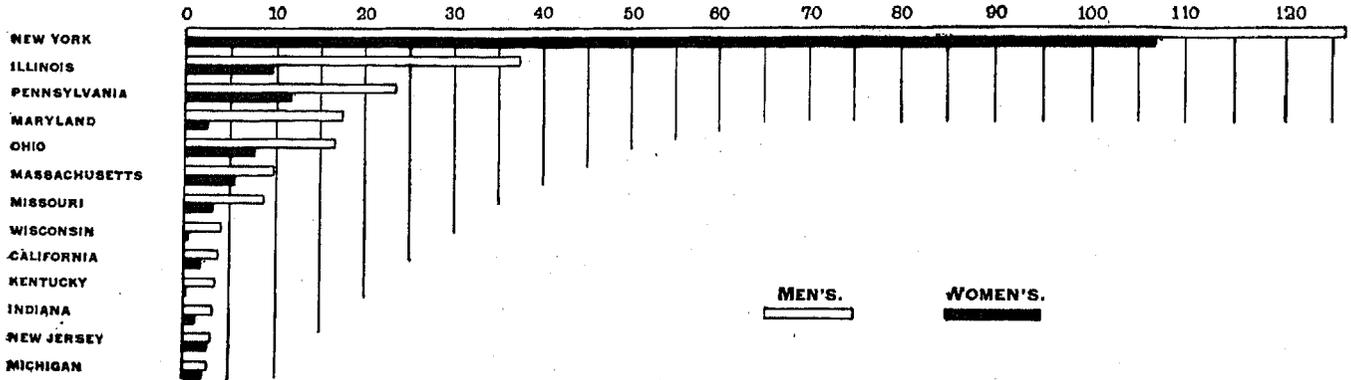
<sup>1</sup>Includes establishments distributed as follows: California, 1; Michigan, 1; Wisconsin, 2.

The following two diagrams give a comprehensive idea of the centers of the clothing industry in the United States, and of the extent to which the manufacture of men's and women's clothing was carried on in the leading states and cities. The first diagram shows the comparative value of products for men's and women's clothing, factory product, in the leading 13 states, and the second, the same comparison for the leading 22 cities.

**CLOTHING (MEN'S AND WOMEN'S).**

FACTORY PRODUCT: 1900.

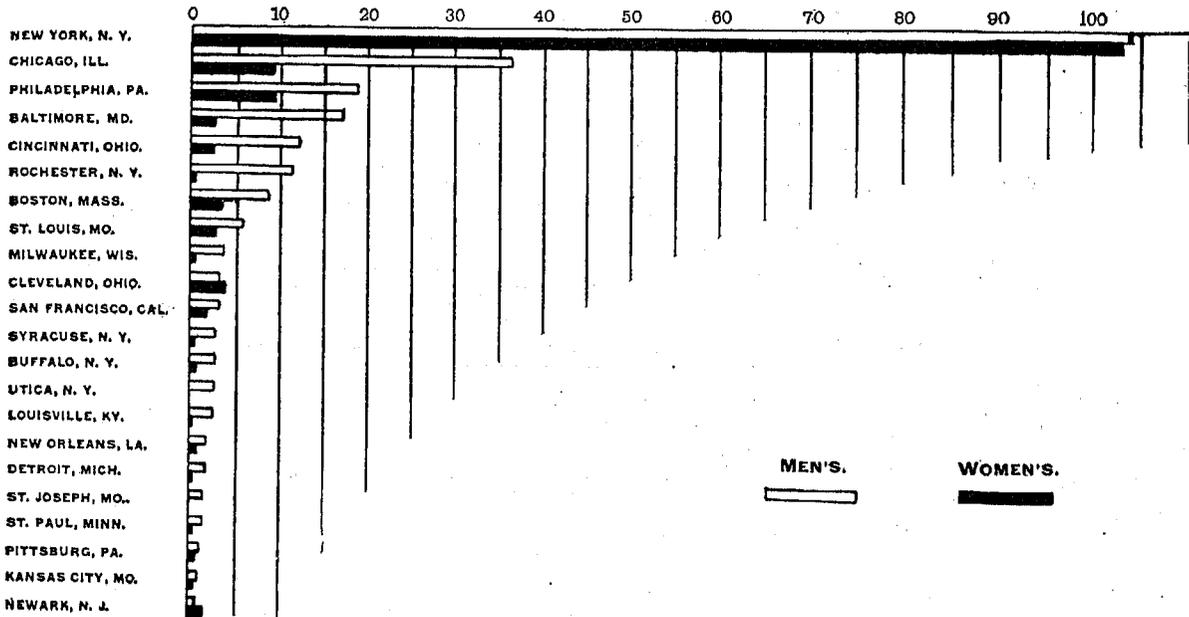
MILLIONS OF DOLLARS.



**CLOTHING (MEN'S AND WOMEN'S).**

FACTORY PRODUCT: 1900.

MILLIONS OF DOLLARS.



In addition to the above cities, Newburg, N. Y., manufactured \$1,594,475 and Binghamton, N. Y., \$1,079,783 worth of men's clothing, factory product, but as no women's clothing was manufactured there they were not included in the diagram.

## WOMEN'S CLOTHING, FACTORY PRODUCT.

Table 14 is a comparative summary of the statistics for the manufacture of women's clothing, factory product, as returned at the censuses of 1860 to 1900, inclusive, with the percentages of increase for each decade.

TABLE 14.—CLOTHING, WOMEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, 1860 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

|  | DATE OF CENSUS. |              |                  |                  |                  | PER CENT OF INCREASE. |              |              |              |
|--|-----------------|--------------|------------------|------------------|------------------|-----------------------|--------------|--------------|--------------|
|  | 1900            | 1890         | 1880             | 1870             | 1860             | 1890 to 1900          | 1880 to 1890 | 1870 to 1880 | 1860 to 1870 |
| Number of establishments.....                  | 2,701           | 1,224        | 562              | 1,847            | 188              | 120.7                 | 117.8        | 169.6        | 882.4        |
| Capital.....                                   | \$48,481,544    | \$21,259,528 | \$8,207,273      | \$8,520,218      | \$1,421,650      | 127.8                 | 159.0        | 133.1        | 147.6        |
| Salaries, officials, clerks, etc., number..... | 6,715           | 2,859        | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 184.9                 | .....        | .....        | .....        |
| Salaries.....                                  | \$6,373,618     | \$3,824,515  | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 94.2                  | .....        | .....        | .....        |
| Wage-earners, average number.....              | 83,739          | 59,149       | 25,192           | 11,696           | 5,789            | 113.9                 | 65.4         | 115.4        | 103.8        |
| Total wages.....                               | \$32,586,101    | \$15,428,272 | \$6,661,005      | \$2,513,956      | \$1,193,032      | 111.2                 | 131.6        | 165.0        | 110.7        |
| Men, 16 years and over.....                    | 26,109          | 12,968       | 2,594            | 1,105            | 889              | 101.4                 | 390.7        | 184.8        | 24.3         |
| Wages.....                                     | \$15,790,572    | \$7,355,955  | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 113.8                 | .....        | .....        | .....        |
| Women, 16 years and over.....                  | 56,866          | 22,913       | 22,253           | 10,247           | 4,850            | 119.4                 | 16.4         | 117.2        | 111.3        |
| Wages.....                                     | \$16,075,390    | \$7,994,203  | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 108.6                 | .....        | .....        | .....        |
| Children, under 16 years.....                  | 784             | 208          | 345              | 344              | ( <sup>3</sup> ) | 179.9                 | 120.9        | 0.3          | .....        |
| Wages.....                                     | \$120,139       | \$47,114     | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 155.0                 | .....        | .....        | .....        |
| Miscellaneous expenses.....                    | \$11,738,695    | \$3,620,042  | ( <sup>4</sup> ) | ( <sup>4</sup> ) | ( <sup>4</sup> ) | 224.1                 | .....        | .....        | .....        |
| Cost of materials used.....                    | \$84,704,592    | \$34,277,210 | \$19,559,227     | \$6,337,973      | \$3,323,335      | 147.1                 | 75.2         | 186.0        | 105.8        |
| Value of products.....                         | \$159,339,530   | \$68,164,019 | \$32,004,794     | \$12,900,533     | \$7,131,039      | 133.8                 | 113.0        | 143.1        | 79.6         |

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 23.)

<sup>3</sup> Not reported separately.

<sup>4</sup> Not reported.

The census of 1860 was the first in which the manufacture of women's clothing was reported. With the exception of the abnormal increase in the number of establishments in 1870 and the consequent decrease in 1880, there was a very steady increase during every decade. With but few exceptions the figures for every item more than doubled each decade. In 1860 the number of establishments was 188 and in 1900, 2,701, an increase of more than thirteenfold; during the same period the capital increased \$47,009,894, or more than thirty-threefold; the number of wage-earners, 78,000, more than thirteenfold; the total wages paid, \$31,393,069, or more than twenty-sixfold; the cost of materials used, \$81,381,257, or more than twenty-fourfold; and the value of products, \$152,158,500, or more than twenty-onefold.

The relatively largest increase occurred during the last decade. The number of establishments increased 1,477, or 120.7 per cent; the capital, \$27,172,016, or 127.8 per cent; the number of wage-earners, 44,590, or 113.9 per cent; the total amount of wages, \$17,157,329, or 111.2 per cent; the miscellaneous expenses, \$8,113,653, or 224.1 per cent; the cost of materials used,

\$50,427,373, or 147.1 per cent; and the value of products, \$91,175,520, or 133.8 per cent.

As the manufacture of women's ready-made clothing is not distributed over as many places as is that of men's, and as a large part of it is manufactured in large factories and in shops, the collection of statistics could be more accurately done, and the figures may be taken as more approximately correct.

In contrast with the manufacture of men's clothing, this branch of the industry showed a large increase in the number of wage-earners and of the wages paid. The total number increased from 39,149 to 83,739, and the total wages from \$15,428,272 to \$32,586,101. The development of the industry during the decade was of such a nature that men were substituted for women in the manufacture of certain of the better grades of clothing, such as cloaks and ladies' suits, while the greatest number of women were added in the factories for shirt waists and underwear.

Table 15 presents, by states, arranged geographically, the number of active establishments from which reports were received in 1890 and 1900, and the increase during the decade.

## MANUFACTURES.

TABLE 15.—CLOTHING, WOMEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, NUMBER OF ACTIVE ESTABLISHMENTS, 1890 AND 1900, WITH INCREASE, BY STATES ARRANGED GEOGRAPHICALLY.

|                          | 1900  | 1890  | Increase. |
|--------------------------|-------|-------|-----------|
| United States .....      | 2,701 | 1,224 | 1,477     |
| New England states ..... | 154   | 55    | 99        |
| Maine .....              | 9     | 3     | 6         |
| New Hampshire .....      | 5     | 1     | 4         |
| Vermont .....            | 5     | 5     | 0         |
| Massachusetts .....      | 119   | 44    | 75        |
| Rhode Island .....       | 2     | 4     | 12        |
| Connecticut .....        | 14    | 3     | 11        |
| Middle states .....      | 2,024 | 927   | 1,097     |
| New York .....           | 1,673 | 805   | 868       |
| New Jersey .....         | 57    | 21    | 36        |
| Pennsylvania .....       | 230   | 60    | 150       |
| Delaware .....           | 3     | 1     | 2         |
| Maryland .....           | 61    | 21    | 40        |
| Southern states .....    | 33    | 29    | 4         |
| West Virginia .....      | 3     | 3     | 0         |
| Virginia .....           | 2     | 3     | 1         |
| North Carolina .....     | 1     | 1     | 0         |
| South Carolina .....     | 1     | 1     | 0         |
| Kentucky .....           | 9     | 14    | 5         |
| Tennessee .....          | 2     | 2     | 0         |
| Louisiana .....          | 14    | 12    | 2         |
| Texas .....              | 1     | 1     | 0         |
| Central states .....     | 412   | 128   | 284       |
| Ohio .....               | 126   | 31    | 95        |
| Michigan .....           | 31    | 5     | 26        |
| Indiana .....            | 14    | 3     | 11        |
| Illinois .....           | 169   | 71    | 98        |
| Wisconsin .....          | 9     | 4     | 5         |

TABLE 15.—CLOTHING, WOMEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, ETC.—Continued.

|                           | 1900 | 1890 | Increase. |
|---------------------------|------|------|-----------|
| Central states—Continued. |      |      |           |
| Minnesota .....           | 8    | 2    | 6         |
| Iowa .....                | 7    | 1    | 6         |
| Missouri .....            | 48   | 11   | 37        |
| Western states .....      | 3    | 4    | 1         |
| Nebraska .....            | 1    | 1    | 0         |
| Colorado .....            | 2    | 4    | 12        |
| Pacific states .....      | 75   | 81   | 16        |
| Washington .....          | 9    | 3    | 6         |
| Oregon .....              | 7    | 3    | 4         |
| California .....          | 59   | 78   | 19        |

<sup>1</sup> Decrease.

In 1890 the industry was carried on in 23 states, and in 1900 in 32. In 1900 an increase of 1,506 establishments was reported in 27 states and a decrease of 29 establishments in 5, leaving a net increase of 1,477 establishments. New York, with 868 new establishments, showed the largest increase; Pennsylvania, with 150, stood next; and Illinois and Ohio, with 98 and 95, respectively, stood third and fourth. The only decrease of any account was in California.

Table 16 is a comparative summary of the industry, by states, for 1890 and 1900.

TABLE 16.—CLOTHING, WOMEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, BY STATES, 1890 AND 1900.

|  | Year.             | United States. | California. | Colorado.        | Connecticut. | Delaware. | Illinois.   | Indiana.    |
|--|-------------------|----------------|-------------|------------------|--------------|-----------|-------------|-------------|
| Number of establishments .....                 | 1900              | 2,701          | 59          | ( <sup>1</sup> ) | 14           | 3         | 169         | 14          |
|  | 1890              | 1,224          | 78          | 4                | 3            | 71        | 71          | 3           |
| Capital .....                                  | 1900              | \$48,431,544   | \$691,843   |                  | \$194,200    | \$9,125   | \$2,946,454 | \$521,039   |
|  | 1890              | \$21,259,528   | \$645,395   | \$235,664        | \$53,646     |           | \$2,798,112 | \$18,300    |
| Salaried officials, clerks, etc., number ..... | 1900              | 6,715          | 67          |                  | 13           | 1         | 559         | 64          |
|  | <sup>2</sup> 1890 | 2,859          | 181         | 8                | 4            |           | 160         | 5           |
| Salaries .....                                 | 1900              | \$6,573,618    | \$51,006    |                  | \$12,216     | \$624     | \$603,004   | \$63,341    |
|  | <sup>2</sup> 1890 | \$3,384,515    | \$125,371   | \$8,320          | \$7,500      |           | \$167,805   | \$2,004     |
| Wage-earners, average number .....             | 1900              | 83,739         | 1,311       |                  | 494          | 38        | 4,402       | 1,264       |
|  | 1890              | 39,149         | 1,037       | 342              | 261          |           | 2,513       | 51          |
| Total wages .....                              | 1900              | \$32,536,101   | \$437,367   |                  | \$132,337    | \$9,030   | \$1,492,295 | \$265,245   |
|  | 1890              | \$15,428,272   | \$354,902   | \$161,646        | \$96,080     |           | \$1,013,673 | \$11,940    |
| Men, 16 years and over .....                   | 1900              | 26,109         | 346         |                  | 58           |           | 915         | 55          |
|  | 1890              | 12,963         | 256         | 2                | 34           |           | 686         | 3           |
| Wages .....                                    | 1900              | \$15,790,572   | \$178,889   |                  | \$35,410     |           | \$596,797   | \$41,013    |
|  | 1890              | \$7,386,955    | \$109,750   | \$4,080          | \$23,480     |           | \$408,306   | \$2,944     |
| Women, 16 years and over .....                 | 1900              | 56,866         | 954         |                  | 436          | 38        | 3,441       | 1,209       |
|  | 1890              | 25,913         | 772         | 340              | 227          |           | 1,825       | 44          |
| Wages .....                                    | 1900              | \$16,675,390   | \$256,584   |                  | \$146,927    | \$9,030   | \$889,045   | \$225,232   |
|  | 1890              | \$7,994,203    | \$242,376   | \$157,566        | \$72,000     |           | \$605,053   | \$8,580     |
| Children, under 16 years .....                 | 1900              | 764            | 11          |                  |              |           | 46          |             |
|  | 1890              | 273            | 9           |                  |              |           | 2           | 4           |
| Wages .....                                    | 1900              | \$120,139      | \$1,894     |                  |              |           | \$6,453     |             |
|  | 1890              | \$47,114       | \$2,176     |                  |              |           | \$304       | \$416       |
| Miscellaneous expenses .....                   | 1900              | \$11,733,695   | \$62,300    |                  | \$12,717     | \$375     | \$1,143,662 | \$30,471    |
|  | 1890              | \$3,620,042    | \$79,081    | \$41,051         | \$6,802      |           | \$600,030   | \$1,188     |
| Cost of materials used .....                   | 1900              | \$84,704,592   | \$1,007,374 |                  | \$225,498    | \$4,296   | \$5,019,054 | \$650,040   |
|  | 1890              | \$34,277,219   | \$952,751   | \$260,162        | \$129,374    |           | \$3,257,712 | \$15,157    |
| Value of products .....                        | 1900              | \$159,339,539  | \$1,981,136 |                  | \$614,855    | \$13,310  | \$9,774,774 | \$1,256,716 |
|  | 1890              | \$63,164,019   | \$1,751,433 | \$642,760        | \$262,800    |           | \$6,422,431 | \$34,666    |

<sup>1</sup> Reported in "all other states."<sup>2</sup> Includes proprietors and firm members with their salaries; number only reported in 1900, but not included in this table. (See Table 23.)

TABLE 16.—CLOTHING, WOMEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, BY STATES—Continued.

|   | Year.        | Iowa.      | Kentucky.                | Louisiana.             | Maine.                   | Maryland.                     | Massachu-<br>setts.        | Michigan.                |
|---|--------------|------------|--------------------------|------------------------|--------------------------|-------------------------------|----------------------------|--------------------------|
| Number of establishments.....                 | 1900<br>1890 | 7<br>(1)   | 9<br>14                  | 14<br>12               | 9<br>3                   | 61<br>21                      | 119<br>44                  | 31<br>5                  |
| Capital.....                                  | 1900<br>1890 | \$23,899   | \$17,875<br>\$110,077    | \$460,295<br>\$36,420  | \$193,050<br>\$23,286    | \$841,345<br>\$478,700        | \$1,616,901<br>\$592,161   | \$589,194<br>\$187,399   |
| Salaried officials, clerks, etc., number..... | 1900<br>1890 | 10         | 3<br>15                  | 18<br>3                | 23<br>3                  | 151<br>30                     | 140<br>153                 | 120<br>11                |
| Salaries.....                                 | 1900<br>1890 | \$3,520    | \$2,190<br>\$8,691       | \$16,310<br>\$3,024    | \$11,800<br>\$4,324      | \$127,941<br>\$25,222         | \$145,254<br>\$117,434     | \$122,499<br>\$11,510    |
| Wage-earners, average number.....             | 1900<br>1890 | 65         | 91<br>231                | 509<br>333             | 290<br>63                | 2,175<br>576                  | 3,443<br>1,325             | 1,540<br>312             |
| Total wages.....                              | 1900<br>1890 | \$9,706    | \$21,844<br>\$116,798    | \$232,409<br>\$40,264  | \$72,079<br>\$16,449     | \$562,710<br>\$130,356        | \$1,083,002<br>\$436,117   | \$391,623<br>\$63,830    |
| Men, 16 years and over.....                   | 1900<br>1890 | 4          | 10<br>13                 | 14                     | 7<br>2                   | 392<br>93                     | 413<br>102                 | 153<br>275               |
| Wages.....                                    | 1900<br>1890 | \$2,466    | \$4,400<br>\$10,083      | \$3,580                | \$3,800<br>\$1,436       | \$214,974<br>\$30,238         | \$244,031<br>\$69,510      | \$68,463<br>\$55,700     |
| Women, 16 years and over.....                 | 1900<br>1890 | 61         | 81<br>212                | 482<br>319             | 283<br>61                | 1,742<br>474                  | 2,997<br>1,157             | 1,383<br>37              |
| Wages.....                                    | 1900<br>1890 | \$7,240    | \$17,444<br>\$106,164    | \$223,399<br>\$36,634  | \$68,879<br>\$15,013     | \$342,937<br>\$119,613        | \$334,521<br>\$364,951     | \$322,272<br>\$5,130     |
| Children, under 16 years.....                 | 1900<br>1890 |            | 6                        | 27                     |                          | 41<br>3                       | 28<br>6                    | 4                        |
| Wages.....                                    | 1900<br>1890 |            | \$546                    | \$4,010                |                          | \$4,790<br>\$560              | \$4,450<br>\$1,656         | \$388                    |
| Miscellaneous expenses.....                   | 1900<br>1890 | \$1,639    | \$8,131<br>\$6,342       | \$15,545<br>\$6,940    | \$7,410<br>\$2,092       | \$162,851<br>\$44,137         | \$261,597<br>\$112,078     | \$155,264<br>\$51,263    |
| Cost of materials used.....                   | 1900<br>1890 | \$25,234   | \$78,300<br>\$151,000    | \$485,631<br>\$120,246 | \$154,455<br>\$23,029    | \$1,373,930<br>\$447,026      | \$2,795,143<br>\$924,463   | \$1,219,429<br>\$197,533 |
| Value of products.....                        | 1900<br>1890 | \$46,993   | \$130,756<br>\$305,850   | \$349,323<br>\$198,973 | \$287,749<br>\$55,237    | \$2,635,576<br>\$370,681      | \$5,201,650<br>\$1,363,517 | \$2,104,073<br>\$323,661 |
|   | Year.        | Minnesota. | Missouri.                | New Hamp-<br>shire.    | New Jersey.              | New York.                     | Ohio.                      | Oregon.                  |
| Number of establishments.....                 | 1900<br>1890 | 8<br>(1)   | 48<br>11                 | 5<br>(1)               | 57<br>21                 | 1,673<br>805                  | 125<br>31                  | 7<br>3                   |
| Capital.....                                  | 1900<br>1890 | \$85,863   | \$1,019,456<br>\$300,520 | \$146,762              | \$1,293,327<br>\$254,650 | \$29,233,205<br>\$11,331,635  | \$2,865,851<br>\$2,056,455 | \$20,403<br>\$74,400     |
| Salaried officials, clerks, etc., number..... | 1900<br>1890 | 17         | 190<br>44                | 23                     | 144<br>29                | 4,152<br>1,930                | 343<br>90                  | 4<br>11                  |
| Salaries.....                                 | 1900<br>1890 | \$12,760   | \$191,051<br>\$45,526    | \$25,639               | \$125,420<br>\$29,064    | \$4,097,946<br>\$2,532,240    | \$334,277<br>\$131,133     | \$1,390<br>\$9,500       |
| Wage-earners, average number.....             | 1900<br>1890 | 516        | 2,068<br>455             | 434                    | 2,389<br>643             | 43,717<br>24,764              | 4,317<br>2,546             | 44<br>70                 |
| Total wages.....                              | 1900<br>1890 | \$123,620  | \$564,335<br>\$106,419   | \$134,027              | \$644,394<br>\$171,371   | \$21,937,396<br>\$10,822,197  | \$1,513,355<br>\$911,171   | \$12,700<br>\$32,460     |
| Men, 16 years and over.....                   | 1900<br>1890 | 19         | 378<br>27                | 25                     | 212<br>66                | 19,673<br>9,858               | 1,345<br>750               | 17<br>15                 |
| Wages.....                                    | 1900<br>1890 | \$14,980   | \$162,236<br>\$14,405    | \$14,630               | \$35,395<br>\$27,975     | \$12,307,281<br>\$5,903,946   | \$637,553<br>\$403,371     | \$3,620<br>\$7,460       |
| Women, 16 years and over.....                 | 1900<br>1890 | 492        | 1,632<br>424             | 409                    | 2,099<br>576             | 23,751<br>14,804              | 3,463<br>1,786             | 25<br>45                 |
| Wages.....                                    | 1900<br>1890 | \$113,030  | \$333,994<br>\$91,502    | \$119,397              | \$547,693<br>\$143,346   | \$9,627,931<br>\$4,897,461    | \$329,544<br>\$501,300     | \$3,346<br>\$22,500      |
| Children, under 16 years.....                 | 1900<br>1890 | 5          | 53<br>4                  |                        | 73<br>1                  | 293<br>102                    | 9<br>10                    | 2<br>10                  |
| Wages.....                                    | 1900<br>1890 | \$610      | \$3,155<br>\$512         |                        | \$10,306<br>\$50         | \$52,734<br>\$20,790          | \$1,253<br>\$1,000         | \$234<br>\$2,500         |
| Miscellaneous expenses.....                   | 1900<br>1890 | \$23,399   | \$135,795<br>\$18,139    | \$7,576                | \$135,612<br>\$21,513    | \$3,407,495<br>\$2,225,473    | \$467,188<br>\$119,790     | \$4,214<br>\$6,223       |
| Cost of materials used.....                   | 1900<br>1890 | \$185,510  | \$1,739,310<br>\$298,862 | \$324,991              | \$1,156,341<br>\$397,631 | \$56,348,074<br>\$22,033,350  | \$4,449,451<br>\$2,232,025 | \$36,331<br>\$34,175     |
| Value of products.....                        | 1900<br>1890 | \$427,000  | \$3,124,901<br>\$541,894 | \$519,735              | \$2,561,034<br>\$713,647 | \$106,392,390<br>\$45,037,394 | \$7,772,771<br>\$4,352,038 | \$37,947<br>\$149,220    |

<sup>1</sup> Reported in "all other states."<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 23.)

## MANUFACTURES.

TABLE 16.—CLOTHING, WOMEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, BY STATES—Continued.

|  | Year.        | Pennsylvania.               | Rhode Island. | Vermont.  | Virginia. | Washington. | West Virginia. | Wisconsin.             | All other states.      |
|--|--------------|-----------------------------|---------------|-----------|-----------|-------------|----------------|------------------------|------------------------|
| Number of establishments .....                 | 1900<br>1890 | 230<br>80                   | (1)<br>4      | 5         | (1)<br>3  | 9           | 3              | 9<br>4                 | 212<br>34              |
| Capital .....                                  | 1900<br>1890 | \$5,197,094<br>\$1,819,002  | \$2,900       | \$47,420  | \$13,875  | \$25,700    | \$61,000       | \$141,750<br>\$140,095 | \$122,003<br>\$41,776  |
| Salaried officials, clerks, etc., number ..... | 1900<br>1890 | 596<br>160                  |               | 10        | 8         | 5           | 1              | 21<br>7                | 85<br>7                |
| Salaries .....                                 | 1900<br>1890 | \$524,528<br>\$189,684      |               | \$5,005   | \$3,140   | \$2,100     | \$1,200        | \$18,150<br>\$7,760    | \$23,697<br>\$4,810    |
| Wage-earners, average number .....             | 1900<br>1890 | 8,311<br>2,989              | 17            | 202       | 16        | 33          | 52             | 258<br>468             | 281<br>153             |
| Total wages .....                              | 1900<br>1890 | \$2,606,024<br>\$766,094    | \$6,276       | \$58,123  | \$3,648   | \$13,400    | \$10,100       | \$80,816<br>\$68,949   | \$71,014<br>\$47,182   |
| Men, 16 years and over .....                   | 1900<br>1890 | 1,961<br>572                | 1             | 26        |           | 31          | 2              | 37<br>120              | 25<br>9                |
| Wages .....                                    | 1900<br>1890 | \$1,057,678<br>\$233,410    | \$936         | \$7,475   |           | \$12,680    | \$1,100        | \$27,600<br>\$36,880   | \$12,640<br>\$4,060    |
| Women, 16 years and over .....                 | 1900<br>1890 | 6,188<br>2,901              | 16            | 176       | 16        | 2           | 50             | 216<br>338             | 256<br>144             |
| Wages .....                                    | 1900<br>1890 | \$1,524,498<br>\$516,020    | \$5,340       | \$45,648  | \$3,648   | \$720       | \$9,000        | \$58,216<br>\$32,569   | \$58,368<br>\$12,172   |
| Children, under 16 years .....                 | 1900<br>1890 | 162<br>116                  |               |           |           |             |                |                        |                        |
| Wages .....                                    | 1900<br>1890 | \$23,853<br>\$16,664        |               |           |           |             |                |                        |                        |
| Miscellaneous expenses .....                   | 1900<br>1890 | \$629,266<br>\$249,188      | \$783         | \$2,076   | \$1,485   | \$4,188     | \$22,640       | \$17,626<br>\$12,748   | \$14,168<br>\$13,611   |
| Cost of materials used .....                   | 1900<br>1890 | \$6,269,950<br>\$2,281,471  | \$17,164      | \$115,429 | \$28,381  | \$39,800    | \$160,192      | \$100,542<br>\$254,510 | \$239,187<br>\$116,107 |
| Value of products .....                        | 1900<br>1890 | \$11,694,580<br>\$8,908,596 | \$34,200      | \$197,995 | \$46,900  | \$93,694    | \$255,000      | \$271,999<br>\$410,630 | \$418,080<br>\$187,926 |

<sup>1</sup> Reported in "all other states."<sup>2</sup> Includes establishments distributed as follows: Colorado, 2; Nebraska, 1; North Carolina, 1; Rhode Island, 2; South Carolina, 1; Tennessee, 2; Texas, 1; Virginia, 2.<sup>3</sup> Includes establishments distributed as follows: Iowa, 1; Minnesota, 2; New Hampshire, 1.<sup>4</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 23.)

The greatest increase appeared in New York, where the number of establishments increased from 805 to 1,673; the capital employed \$17,901,570, from \$11,381,635 to \$29,283,205; the total number of wage-earners 23,953, from 24,764 to 48,717; the total wages \$11,165,699, from \$10,822,197 to \$21,987,896; and the value of products \$61,804,996, from \$45,087,394 to \$106,892,390. The increase in the value of products in New York equalled more than two-thirds of the increase for all the states. Pennsylvania ranked second, with an increase in the number of establishments from 80 to 230, or 150; from 2,989 to 8,311, or 5,322, in the total number of wage-earners; from \$766,094 to \$2,606,024, or \$1,839,930, in the total wages; and from \$3,903,596 to \$11,694,580, or \$7,790,984, in the value of products. Illinois ranked third, but while the number of establishments increased from 71 to 169, or 98; the capital increased only from \$2,793,112 to \$2,946,454, or \$153,342; the wage-earners from 2,513 to 4,402, or 1,889; and the

wages from \$1,013,673 to \$1,492,295, or \$478,622. The value of products increased from \$6,422,431 to \$9,774,774, or \$3,352,343. With an increase in the number of establishments from 31 to 126 Ohio ranked fourth. The number of wage-earners increased from 2,546 to 4,817; the wages from \$911,171 to \$1,518,355, or \$607,184; and the value of products from \$4,352,098 to \$7,772,771, or \$3,420,673. In Massachusetts the number of establishments increased from 44 to 119; the capital from \$592,161 to \$1,616,991, or \$1,024,830; the wage-earners from 1,325 to 3,443, or 2,118; the wages from \$436,117 to \$1,083,002, or \$646,885; and the value of products from \$1,863,517 to \$5,201,650, or \$3,338,133. A decrease in the value of products was shown in only 3 states which were of no importance in the industry.

Table 17 presents a summary of establishments classified by the number of persons employed in each as wage-earners, by states, arranged geographically.

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TABLE 17.—CLOTHING, WOMEN'S, FACTORY PRODUCT: ESTABLISHMENTS CLASSIFIED BY NUMBER OF PERSONS EMPLOYED, BY STATES, ARRANGED GEOGRAPHICALLY, 1900.

|                         | Total number of establishments. | NUMBER OF ESTABLISHMENTS EMPLOYING— |          |          |           |            |             |             |               |             |
|-------------------------|---------------------------------|-------------------------------------|----------|----------|-----------|------------|-------------|-------------|---------------|-------------|
|                         |                                 | No employees.                       | Under 5. | 5 to 20. | 21 to 50. | 51 to 100. | 101 to 250. | 251 to 500. | 500 to 1,000. | Over 1,000. |
| United States.....      | 2,701                           | 48                                  | 315      | 1,008    | 748       | 326        | 188         | 55          | 12            | 1           |
| New England states..... | 154                             |                                     | 18       | 60       | 44        | 18         | 10          | 4           |               |             |
| Maine.....              | 9                               |                                     |          | 6        | 1         |            | 2           |             |               |             |
| New Hampshire.....      | 5                               |                                     |          |          | 2         |            |             | 1           |               |             |
| Vermont.....            | 5                               |                                     |          | 3        |           |            |             |             |               |             |
| Massachusetts.....      | 119                             |                                     | 13       | 44       | 40        | 12         | 8           | 2           |               |             |
| Rhode Island.....       | 2                               |                                     |          | 1        |           |            |             |             |               |             |
| Connecticut.....        | 14                              |                                     | 5        | 6        | 1         | 1          |             | 1           |               |             |
| Middle states.....      | 2,024                           | 32                                  | 226      | 729      | 610       | 249        | 133         | 34          | 10            | 1           |
| New York.....           | 1,678                           | 28                                  | 187      | 602      | 519       | 198        | 109         | 22          | 7             | 1           |
| New Jersey.....         | 57                              | 1                                   | 6        | 17       | 18        | 9          | 3           | 3           |               |             |
| Pennsylvania.....       | 230                             | 3                                   | 26       | 91       | 48        | 35         | 17          | 8           | 2             |             |
| Delaware.....           | 3                               |                                     |          |          | 3         |            |             |             |               |             |
| Maryland.....           | 61                              |                                     | 7        | 19       | 22        | 7          | 4           | 1           | 1             |             |
| Southern states.....    | 33                              | 1                                   | 4        | 17       | 9         | 1          |             |             | 1             |             |
| West Virginia.....      | 3                               | 1                                   |          | 1        | 1         |            |             |             |               |             |
| Virginia.....           | 2                               |                                     |          |          | 1         |            | 1           |             |               |             |
| North Carolina.....     | 1                               |                                     |          | 1        |           |            |             |             |               |             |
| South Carolina.....     | 1                               |                                     |          |          |           |            |             |             |               |             |
| Kentucky.....           | 9                               |                                     | 1        | 7        | 1         |            |             |             |               |             |
| Tennessee.....          | 2                               |                                     |          | 1        | 1         |            |             |             |               |             |
| Louisiana.....          | 14                              |                                     | 3        | 6        | 4         |            |             |             | 1             |             |
| Texas.....              | 1                               |                                     |          |          | 1         |            |             |             |               |             |
| Central states.....     | 412                             | 12                                  | 50       | 163      | 78        | 52         | 39          | 17          | 1             |             |
| Ohio.....               | 126                             | 7                                   | 29       | 48       | 10        | 12         | 12          | 8           |               |             |
| Michigan.....           | 31                              |                                     | 2        | 9        | 9         | 5          | 4           | 2           |               |             |
| Indiana.....            | 14                              |                                     |          | 1        | 4         | 3          | 3           | 3           |               |             |
| Illinois.....           | 169                             | 5                                   | 17       | 75       | 40        | 20         | 9           | 2           | 1             |             |
| Wisconsin.....          | 9                               |                                     |          | 3        | 2         | 3          | 1           |             |               |             |
| Minnesota.....          | 8                               |                                     |          | 2        | 2         | 1          | 3           |             |               |             |
| Iowa.....               | 7                               |                                     | 1        | 5        | 1         | 1          |             |             |               |             |
| Missouri.....           | 48                              |                                     | 1        | 20       | 11        | 7          | 7           | 2           |               |             |
| Western states.....     | 3                               |                                     |          |          | 3         |            |             |             |               |             |
| Nebraska.....           | 1                               |                                     |          |          | 1         |            |             |             |               |             |
| Colorado.....           | 2                               |                                     |          |          | 2         |            |             |             |               |             |
| Pacific states.....     | 75                              | 3                                   | 17       | 39       | 4         | 6          | 6           |             |               |             |
| Washington.....         | 9                               |                                     | 8        | 1        |           |            |             |             |               |             |
| Oregon.....             | 7                               | 1                                   | 2        | 4        |           |            |             |             |               |             |
| California.....         | 59                              | 2                                   | 7        | 34       | 4         | 6          | 6           |             |               |             |

By comparing Table 17 with Table 4 (men's clothing) the difference in conditions under which the manufacture of clothing was carried on in its two branches becomes apparent. In this branch of the industry only 363 establishments, or 13.4 per cent of the total, either did not employ any help or employed less than 5 persons. Although the small shops employing between 5 and 20 persons here also constituted the largest proportion, being 1,008 establishments, or 37.3 per cent of the total, they constituted a relatively smaller percentage, while the establishments employing 21 to 50 persons showed a

considerable increase over those in the other branch of the industry, being 748, or 27.7 per cent. A still more noticeable difference was shown in the establishments having between 51 and 250 employees, where the total was 514, or 19 per cent of the total. Sixty-eight factories, or 2.5 per cent of the total, employed over 250 hands.

Table 18 shows the total number of wage-earners and their wages, the number of men, women, and children, with their wages, and the per cent of each to the total number, by geographic divisions, for 1900.

TABLE 18.—CLOTHING, WOMEN'S, FACTORY PRODUCT: WAGE-EARNERS AND WAGES, BY GEOGRAPHIC DIVISIONS, 1900.

|                         | Total average number. | Per cent of total average number. | Total wages. | MEN.            |                                   |              | WOMEN.          |                                   |              | CHILDREN.     |                                   |              |
|-------------------------|-----------------------|-----------------------------------|--------------|-----------------|-----------------------------------|--------------|-----------------|-----------------------------------|--------------|---------------|-----------------------------------|--------------|
|                         |                       |                                   |              | Average number. | Per cent of total average number. | Total wages. | Average number. | Per cent of total average number. | Total wages. | Total number. | Per cent of total average number. | Total wages. |
| United States.....      | 88,739                | 100.0                             | \$32,586,101 | 26,109          | 31.2                              | \$15,790,572 | 56,866          | 67.9                              | \$16,675,390 | 764           | 0.9                               | \$120,139    |
| New England states..... | 4,956                 | 5.9                               | 1,549,168    | 540             | 10.9                              | 808,466      | 4,388           | 88.5                              | 1,236,252    | 28            | 0.6                               | 4,450        |
| Middle states.....      | 61,630                | 78.6                              | 25,310,054   | 22,238          | 36.1                              | 13,665,778   | 38,313          | 68.0                              | 12,052,084   | 574           | 0.9                               | 92,192       |
| Southern states.....    | 782                   | 0.9                               | 292,707      | 24              | 3.1                               | 11,316       | 781             | 98.5                              | 277,381      | 27            | 3.4                               | 4,010        |
| Central states.....     | 14,925                | 17.8                              | 4,452,045    | 2,906           | 19.5                              | 1,601,113    | 11,897          | 79.7                              | 2,333,573    | 122           | 0.8                               | 17,359       |
| Western states.....     | 58                    | 0.1                               | 18,660       | 7               | 12.1                              | 3,710        | 51              | 87.9                              | 14,950       |               |                                   |              |
| Pacific states.....     | 1,388                 | 1.7                               | 463,467      | 394             | 28.4                              | 200,189      | 981             | 70.7                              | 261,150      | 18            | 0.9                               | 2,123        |

The total number of wage-earners was 83,739 and the total wages \$32,586,101. Of this total 26,109, or 31.2 per cent, were men, receiving \$15,790,572 in wages; 56,866, or 67.9 per cent, were women, receiving \$16,675,390 in wages; and 764, or nine-tenths of 1 per cent, were children, receiving \$120,139 in wages. As a comparatively small part of the work in this branch of the industry was done in the homes, these figures may be taken as a fair estimate of the average number of persons employed in making women's clothing, factory product. The number of wage-earners in the Middle states was 61,630, or 73.6 per cent of the total, who produced 77.7 per cent of the product for the industry;

while in the Central states the number of wage-earners was 14,925, or 17.8 per cent, producing 15.6 per cent of the product. In the New England states 4,956 persons, or 5.9 per cent, were employed in the industry, producing 4.3 per cent of the product. It should be noted that in this industry the workers as a rule do not work full time more than about seven months in a year; the balance of the year they either work short hours or are idle.

Table 19 presents a comparison between the number of establishments, capital, and value of products for 1890 and 1900, by states, arranged geographically; also the percentage of total and of increase of each item.

TABLE 19.—CLOTHING, WOMEN'S, FACTORY PRODUCT: NUMBER OF ESTABLISHMENTS, CAPITAL, AND VALUE OF PRODUCTS, BY STATES, ARRANGED GEOGRAPHICALLY, WITH PERCENTAGES, 1890 AND 1900.

|                                   | 1900             |                    |              |                    |               |                    | 1890             |                    |              |                    |              |                    | PER CENT OF INCREASE, 1890 TO 1900. |          |           |
|-----------------------------------|------------------|--------------------|--------------|--------------------|---------------|--------------------|------------------|--------------------|--------------|--------------------|--------------|--------------------|-------------------------------------|----------|-----------|
|                                   | Establishments.  |                    | Capital.     |                    | Products.     |                    | Establishments.  |                    | Capital.     |                    | Products.    |                    | Number of establishments.           | Capital. | Products. |
|                                   | Number.          | Per cent of total. | Amount.      | Per cent of total. | Value.        | Per cent of total. | Number.          | Per cent of total. | Amount.      | Per cent of total. | Value.       | Per cent of total. |                                     |          |           |
| United States.....                | 2,701            | 100.0              | \$48,431,544 | 100.0              | \$159,399,539 | 100.0              | 1,224            | 100.0              | \$21,259,528 | 100.0              | \$68,164,019 | 100.0              | 120.7                               | 127.8    | 133.7     |
| New England states....            | 154              | 5.7                | 2,232,723    | 4.6                | 6,907,184     | 4.3                | 55               | 4.5                | 701,993      | 3.3                | 2,385,754    | 3.5                | 180.0                               | 218.0    | 189.5     |
| Maine.....                        | 9                | 0.3                | 193,050      | 0.4                | 237,749       | 0.2                | 3                | 0.2                | 23,286       | 0.1                | 55,237       | 0.1                | 200.0                               | 729.0    | 420.9     |
| Vermont.....                      | 5                | 0.2                | 47,420       | 0.1                | 197,995       | 0.1                | 4                | 0.3                | 592,161      | 2.8                | 1,868,517    | 2.7                | 170.5                               | 173.1    | 179.1     |
| Massachusetts.....                | 119              | 4.4                | 1,616,991    | 3.3                | 5,201,650     | 3.2                | 44               | 3.6                | 58,646       | 0.2                | 262,800      | 0.4                | 366.7                               | 262.0    | 134.0     |
| Connecticut.....                  | 14               | 0.5                | 194,200      | 0.4                | 614,855       | 0.4                | 3                | 0.3                | 32,900       | 0.2                | 204,200      | 0.3                | 40.0                                | 450.3    | 196.2     |
| All other New England states..... | 17               | 0.3                | 181,062      | 0.4                | 604,935       | 0.4                | 25               | 0.4                | 13,938,987   | 65.5               | 50,580,318   | 74.2               | 118.3                               | 162.9    | 144.9     |
| Middle states.....                | 2,024            | 74.9               | 36,629,596   | 75.6               | 123,851,890   | 77.7               | 927              | 75.7               | 11,381,635   | 53.5               | 45,087,394   | 66.1               | 107.8                               | 157.3    | 137.1     |
| New York.....                     | 1,678            | 61.9               | 29,238,205   | 60.5               | 106,892,390   | 67.1               | 805              | 65.8               | 254,650      | 1.2                | 718,647      | 1.1                | 171.4                               | 410.0    | 256.4     |
| New Jersey.....                   | 57               | 2.1                | 1,298,827    | 2.7                | 2,561,034     | 1.6                | 21               | 1.7                | 1,819,002    | 8.6                | 3,903,596    | 5.7                | 187.5                               | 185.7    | 199.6     |
| Pennsylvania.....                 | 230              | 8.5                | 5,197,094    | 10.7               | 11,694,680    | 7.4                | 80               | 6.5                | 478,700      | 2.2                | 870,681      | 1.3                | 190.5                               | 75.8     | 208.4     |
| Delaware.....                     | 3                | 0.1                | 9,125        | ( <sup>3</sup> )   | 18,310        | ( <sup>3</sup> )   | 21               | 1.7                | 160,372      | 0.8                | 551,728      | 0.8                | 13.8                                | 282.7    | 167.3     |
| Maryland.....                     | 61               | 2.3                | 841,345      | 1.7                | 2,685,576     | 1.6                | 29               | 2.4                | 18,875       | 0.1                | 46,900       | 0.1                | 35.7                                | 83.8     | 57.2      |
| Southern states.....              | 38               | 1.2                | 613,745      | 1.3                | 1,474,579     | 0.9                | 29               | 2.4                | 110,077      | 0.5                | 805,850      | 0.4                | 35.7                                | 83.8     | 57.2      |
| West Virginia.....                | 3                | 0.1                | 61,000       | 0.1                | 255,000       | 0.2                | 3                | 0.2                | 86,420       | 0.2                | 198,978      | 0.3                | 16.7                                | 1,168.8  | 327.1     |
| Virginia.....                     | ( <sup>4</sup> ) | 0.3                | 17,875       | ( <sup>3</sup> )   | 130,756       | 0.1                | 14               | 1.1                | 290,000      | 0.1                | 290,000      | 0.1                | .....                               | .....    | .....     |
| Kentucky.....                     | 9                | 0.3                | 17,875       | ( <sup>3</sup> )   | 130,756       | 0.1                | 14               | 1.1                | 110,077      | 0.5                | 805,850      | 0.4                | 35.7                                | 83.8     | 57.2      |
| Louisiana.....                    | 14               | 0.5                | 460,295      | 1.0                | 849,823       | 0.5                | 12               | 1.0                | .....        | .....              | .....        | .....              | .....                               | .....    | .....     |
| All other Southern states.....    | 7                | 0.3                | 74,575       | 0.2                | 290,000       | 0.1                | .....            | .....              | .....        | .....              | .....        | .....              | .....                               | .....    | .....     |
| Central states.....               | 412              | 15.3               | 8,203,506    | 17.0               | 24,869,229    | 15.6               | 128              | 10.5               | 5,507,717    | 25.9               | 12,102,806   | 17.8               | 221.9                               | 48.9     | 105.5     |
| Ohio.....                         | 120              | 4.7                | 2,865,351    | 5.9                | 7,772,771     | 4.9                | 31               | 2.5                | 2,056,455    | 9.7                | 4,852,098    | 6.4                | 306.5                               | 39.4     | 78.6      |
| Michigan.....                     | 31               | 1.1                | 599,194      | 1.2                | 2,194,078     | 1.4                | 5                | 0.4                | 187,399      | 0.9                | 323,661      | 0.5                | 520.0                               | 219.7    | 577.9     |
| Indiana.....                      | 14               | 0.5                | 521,039      | 1.1                | 1,256,716     | 0.8                | 3                | 0.3                | 13,860       | 0.1                | 34,666       | 0.1                | 366.7                               | 2,737.9  | 8,525.2   |
| Illinois.....                     | 168              | 6.3                | 2,946,454    | 6.2                | 9,774,774     | 6.1                | 71               | 5.8                | 2,793,112    | 13.1               | 6,422,481    | 9.4                | 138.0                               | 5.5      | 32.2      |
| Wisconsin.....                    | 9                | 0.3                | 141,750      | 0.3                | 271,991       | 0.2                | 4                | 0.3                | 140,095      | 0.7                | 410,630      | 0.6                | 125.0                               | 1.2      | 33.8      |
| Minnesota.....                    | 3                | 0.3                | 85,863       | 0.2                | 427,000       | 0.3                | ( <sup>5</sup> ) | .....              | .....        | .....              | .....        | .....              | .....                               | .....    | .....     |
| Iowa.....                         | 7                | 0.3                | 23,839       | ( <sup>3</sup> )   | 46,998        | ( <sup>3</sup> )   | ( <sup>6</sup> ) | .....              | .....        | .....              | .....        | .....              | .....                               | .....    | .....     |
| Missouri.....                     | 48               | 1.8                | 1,019,456    | 2.1                | 3,124,901     | 1.9                | 11               | 0.9                | 300,520      | 1.4                | 541,894      | 0.8                | 336.4                               | 239.2    | 476.7     |
| All other Central states.....     | .....            | .....              | .....        | .....              | .....         | .....              | 83               | 0.3                | 11,776       | ( <sup>2</sup> )   | 17,426       | ( <sup>3</sup> )   | .....                               | .....    | .....     |
| Western states.....               | 93               | 0.1                | 14,028       | ( <sup>3</sup> )   | 93,880        | 0.1                | 104              | 0.3                | 235,664      | 1.1                | 642,760      | 0.9                | 25.0                                | 594.1    | 85.4      |
| Pacific states.....               | 75               | 2.8                | 737,946      | 1.5                | 2,142,777     | 1.4                | 81               | 6.6                | 719,795      | 3.4                | 1,900,658    | 2.8                | 57.4                                | 2.5      | 12.7      |
| Washington.....                   | 9                | 0.3                | 25,700       | 0.1                | 93,694        | 0.1                | 3                | 0.2                | 74,400       | 0.4                | 149,220      | 0.2                | 133.3                               | 672.6    | 654.5     |
| Oregon.....                       | 7                | 0.3                | 20,403       | ( <sup>3</sup> )   | 67,947        | ( <sup>3</sup> )   | 8                | 0.2                | 645,895      | 3.0                | 1,751,433    | 2.6                | 24.4                                | 7.2      | 13.1      |
| California.....                   | 59               | 2.2                | 691,843      | 1.4                | 1,981,136     | 1.3                | 78               | 6.4                | .....        | .....              | .....        | .....              | .....                               | .....    | .....     |

<sup>1</sup> Includes establishments distributed as follows: New Hampshire, 5; Rhode Island, 2.

<sup>2</sup> Includes establishments distributed as follows: New Hampshire, 1; Rhode Island, 4.

<sup>3</sup> Less than one-tenth of 1 per cent.

<sup>4</sup> See "all other Southern states."

<sup>5</sup> Decrease.

<sup>6</sup> Includes establishments distributed as follows: North Carolina, 1; South Carolina, 1; Tennessee, 2; Texas, 1; Virginia, 2.

<sup>7</sup> See "all other Central states."

<sup>8</sup> Includes establishments distributed as follows: Iowa, 1; Minnesota, 2.

<sup>9</sup> Includes establishments distributed as follows: Colorado, 2; Nebraska, 1.

<sup>10</sup> Includes 4 establishments in Colorado.

As in 1890, almost the entire industry was located in the Middle and Central states. The 5 states in the first-mentioned group reported more than 75 per cent of the aggregate product in 1900. The number of establishments increased from 927 in 1890 to 2,024 in 1900, or more than double; the capital, which in 1890 was \$13,933,987, or 65.6 per cent of the aggregate capital for the United States, increased \$22,695,609, or 162.9 per cent, and constituted 75.6 per cent of the aggregate. The increase in the value of products was almost as large; in 1890 it amounted to \$50,580,318, or 74.2 of the aggregate; in 1900 it had increased \$73,271,572, or 144.9 per cent, to \$123,851,890, and constituted 77.7 per cent of the aggregate.

In the Central states the ratio of increase in the number of establishments was greater than in the Middle states, increasing from 128 to 412, or 221.9 per cent; but the capital increased only 48.9, from \$5,507,717 to \$8,203,506, and its proportion of the aggregate decreased from 25.9 to 17. The value of products, however, more than doubled, increasing from \$12,102,806 to \$24,869,229; in 1890 it was 17.8 per cent of the aggregate for the industry, and in 1900 it had decreased to 15.6 per cent.

The New England states showed a great advance in this industry. The number of establishments increased from 55 to 154; the capital from \$701,993 to \$2,232,723, and the value of products from \$2,385,754 to \$6,907,184. The relative position of this group remained, however, almost unchanged. Only a small percentage of the industry was carried on in the Southern, Western, and Pacific states.

Among the Middle states the increase was distributed evenly. In 1890 New York reported 65.8 per cent of the aggregate number of establishments; in 1900 the percentage had decreased to 61.9; the capital invested increased 157.3 per cent during the decade, and was 60.5 per cent of the aggregate in 1900, against 53.5 per cent in 1890; the value of products increased 137.1 per cent, and from 66.3 per cent of the aggregate in 1890 to 67.1 per cent in 1900. In Pennsylvania the percentage of the number of establishments increased in the decade from 6.5 to 8.5, of capital from 8.6 to 10.7, and of products from 5.7 to 7.3. In both New Jersey and Maryland the industry more than doubled during the decade.

Among the Central states Illinois retained its position as first. In 1890 the number of establishments constituted 5.8 per cent of the aggregate, and in 1900, 6.3; the percentage of capital, however, showed a decided decrease, being 13.1 in 1890 and 6.2 in 1900; and the percentage of the value of products decreased from 9.4 to 6.1. Ohio also showed a relative decrease. The capital in 1890 was 9.7 per cent of the aggregate, and in 1900, 5.9; the value of products was 6.4 per cent in 1890 and 4.9 per cent in 1900. With the exception of Wisconsin,

all the other states in this group showed a slight increase in their percentage of the aggregate product.

All the states in the New England group showed slight increases in their percentage of production to the total production of the United States.

Table 20 is a comparative summary of capital for 1890 and 1900, with the percentage which each item formed of the total, and the per cent of increase for the decade.

TABLE 20.—CLOTHING, WOMEN'S, FACTORY PRODUCT: COMPARATIVE SUMMARY, CAPITAL, 1890 AND 1900.

|  | 1900         |                    | 1890         |                    | Per cent of increase. |
|--|--------------|--------------------|--------------|--------------------|-----------------------|
|  | Amount.      | Per cent of total. | Amount.      | Per cent of total. |                       |
| Total.....                                 | \$48,431,544 | 100.0              | \$21,259,528 | 100.0              | 127.8                 |
| Land.....                                  | 948,980      | 2.0                | 554,050      | 2.6                | 70.4                  |
| Buildings.....                             | 1,268,870    | 2.6                | 617,500      | 2.9                | 105.5                 |
| Machinery, tools, and imple-<br>ments..... | 4,321,240    | 8.9                | 1,729,228    | 8.1                | 149.9                 |
| Cash and sundries.....                     | 41,897,454   | 86.5               | 18,358,750   | 86.4               | 128.2                 |

In contradistinction to the other branch of the industry, the capital in this branch increased at even a greater rate than the number of establishments. During the decade it increased \$27,172,016, or 127.8 per cent, from \$21,259,528 to \$48,431,544. The reason for this contradiction lies in the different methods of carrying on the business. In 1900 a comparatively small proportion of women's clothing was made by contractors, needing hardly any capital. This, and the fact that, with few exceptions, it was never customary for the manufacturers of ladies' suits and cloaks to carry large stocks of ready-made garments, explains the inconsistency between the two branches of the industry. Thus capital was always required to carry on this manufacture, and while the majority of the establishments which started to manufacture during the decade were small concerns, few were contractors, and, therefore, all of them found it necessary to have the required capital, which was often borrowed from the banks in order to carry the manufacturer over the season. This accounts in part for the small difference in the average capital used, which in 1890 was \$17,369, and in 1900, \$17,931.

The largest item was that of cash on hand and sundries, which increased \$23,538,704, or 128.2 per cent, from \$18,358,750 to \$41,897,454. The largest relative increase was in the item for machinery, tools, and implements, which increased \$2,592,012, or 149.9 per cent, from \$1,729,228 to \$4,321,240. The value of land and buildings remained insignificant, as most of the manufacture was still carried on in rented buildings. The proportion of the different items to the total remained almost unchanged.

Table 21 shows the miscellaneous expenses for 1900, together with the per cent of each item to the total.

TABLE 21.—CLOTHING, WOMEN'S, FACTORY PRODUCT:  
MISCELLANEOUS EXPENSES, 1900.

|  | Amount.      | Per cent of total. |
|--|--------------|--------------------|
| Total .....  | \$11,733,695 | 100.0              |
| Rent of works .....  | 2,593,750    | 22.1               |
| Taxes, not including internal revenue .....  | 83,139       | 0.7                |
| Rent of offices, interest, insurance, repairs, advertising, and other sundries ..... | 3,901,643    | 33.3               |
| Contract work .....  | 5,155,163    | 43.9               |

In the decade from 1890 to 1900, the miscellaneous expenses increased \$8,113,653, or 224.1 per cent, from \$3,620,042 to \$11,733,695. Of the latter amount \$5,155,163, or 43.9 per cent, was expended for contract work. In this item the difference was very marked between this branch of the industry and the other. While the contract work for men's clothing amounted to 59.5 per cent of the total wages paid, it did not amount to more than 15.8 per cent for women's clothing. The amount expended for rent of works amounted to \$2,593,750, or 22.1 per cent of the total, which indicates that in the manufacture of women's clothing the manufacturers themselves pay the rent, while in the other branch of the industry the most of this burden falls on the contractors.

Table 22 shows the cost of the different materials used in the manufacture of women's clothing, factory

product, in 1900, with the per cent each item formed of the total cost of materials.

TABLE 22.—CLOTHING, WOMEN'S, FACTORY PRODUCT:  
COST OF MATERIALS, 1900.

|   | Amount.      | Per cent of total. |
|---|--------------|--------------------|
| Total .....   | \$84,704,592 | 100.0              |
| Purchased in partially manufactured form <sup>1</sup> ..... | 84,024,360   | 99.2               |
| Fuel .....  | 156,488      | 0.2                |
| Rent of power and heat .....                                | 240,271      | 0.3                |
| Freight .....   | 283,473      | 0.3                |

<sup>1</sup>Includes mill supplies, which are shown separately in Table 23.

The total cost of materials was \$84,704,592 in 1900, as compared with \$34,277,219 in 1890, an increase of \$50,427,373, or 147.1 per cent. For materials purchased in partially manufactured form \$84,024,360, or 99.2 per cent of the total, was expended. These materials ranged from the cheapest muslin to expensive broadcloth, but there was no way by which the value of the different materials could be ascertained. The amount expended for fuel and rent of power and heat was \$396,759, or five-tenths of 1 per cent of the total. As in the other branch of the industry, this low percentage depends upon the fact that in many instances the cost of power was included in the rent.

Table 23 presents, in detail, the statistics for the manufacture of women's clothing, factory product, for 1900.

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TABLE 23.—CLOTHING, WOMEN'S,

|    | United States.   | California.  | Connecticut. | Delaware. | Illinois. | Indiana.    | Iowa.     | Kentucky. | Louisiana. | Maine.    | Maryland. |           |
|----|--|--------------|--------------|-----------|-----------|-------------|-----------|-----------|------------|-----------|-----------|-----------|
| 1  | Number of establishments.....  | 2,701        | 59           | 14        | 3         | 169         | 14        | 7         | 9          | 14        | 9         | 61        |
|    | Character of organization:   |              |              |           |           |             |           |           |            |           |           |           |
| 2  | Individual.....  | 1,454        | 19           | 12        | 2         | 97          | 3         | 2         | 6          | 12        | 5         | 29        |
| 3  | Firm and limited partnership.....  | 1,117        | 36           | 2         | 1         | 55          | 4         | 4         | 3          | 1         | 2         | 31        |
| 4  | Incorporated company.....  | 129          | 4            |           |           | 17          | 7         | 1         |            | 1         | 2         | 1         |
| 5  | Miscellaneous.....   | 1            |              |           |           |             |           |           |            |           |           |           |
|    | Capital:   |              |              |           |           |             |           |           |            |           |           |           |
| 6  | Total.....   | \$48,431,544 | \$691,843    | \$194,200 | \$9,125   | \$2,946,454 | \$521,039 | \$23,899  | \$17,875   | \$460,295 | \$193,050 | \$841,345 |
| 7  | Land.....  | \$943,980    |              | \$15,000  | \$125     | \$20,500    | \$1,750   |           |            | \$202,400 |           | \$9,000   |
| 8  | Buildings.....   | \$1,268,870  |              | \$27,500  | \$500     | \$28,600    | \$8,466   |           |            | \$155,500 |           | \$12,500  |
| 9  | Machinery, tools, and implements.....  | \$4,321,240  | \$50,321     | \$23,650  | \$5,400   | \$222,711   | \$40,549  | \$4,300   | \$3,575    | \$19,570  | \$13,300  | \$91,052  |
| 10 | Cash and sundries.....   | \$41,897,454 | \$641,522    | \$128,050 | \$3,100   | \$2,674,648 | \$470,274 | \$19,599  | \$14,300   | \$82,825  | \$179,750 | \$734,793 |
| 11 | Proprietors and firm members.....  | 3,997        | 182          | 16        | 4         | 218         | 11        | 11        | 15         | 15        | 11        | 100       |
|    | Salaries:  |              |              |           |           |             |           |           |            |           |           |           |
| 12 | Total number.....  | 6,715        | 67           | 13        | 1         | 559         | 64        | 10        | 3          | 18        | 23        | 151       |
| 13 | Total salaries.....  | \$6,573,618  | \$51,006     | \$12,216  | \$624     | \$603,004   | \$68,341  | \$3,520   | \$2,190    | \$16,310  | \$11,800  | \$127,041 |
|    | Officers of corporations—  |              |              |           |           |             |           |           |            |           |           |           |
| 14 | Number.....  | 168          | 3            |           |           | 28          | 7         |           |            |           | 4         | 1         |
| 15 | Salaries.....  | \$363,993    | \$12,000     |           |           | \$39,080    | \$13,800  |           |            |           | \$9,000   | \$1,200   |
|    | General superintendents, managers, clerks, etc.—                                     |              |              |           |           |             |           |           |            |           |           |           |
| 16 | Total number.....  | 6,547        | 64           | 13        | 1         | 531         | 57        | 10        | 3          | 18        | 19        | 150       |
| 17 | Total salaries.....  | \$6,209,625  | \$39,006     | \$12,216  | \$624     | \$563,924   | \$49,541  | \$3,520   | \$2,190    | \$16,310  | \$8,800   | \$123,741 |
|    | Men—   |              |              |           |           |             |           |           |            |           |           |           |
| 18 | Number.....  | 5,361        | 35           | 6         |           | 439         | 47        | 9         | 3          | 4         | 9         | 136       |
| 19 | Salaries.....  | \$5,621,466  | \$30,626     | \$8,200   |           | \$528,749   | \$45,885  | \$3,200   | \$2,190    | \$4,700   | \$4,600   | \$121,616 |
|    | Women—   |              |              |           |           |             |           |           |            |           |           |           |
| 20 | Number.....  | 1,186        | 29           | 7         | 1         | 92          | 10        | 1         |            | 14        | 10        | 11        |
| 21 | Salaries.....  | \$888,159    | \$8,380      | \$4,016   | \$624     | \$35,175    | \$4,156   | \$320     |            | \$11,610  | \$4,200   | \$5,125   |
|    | Wage-earners:  |              |              |           |           |             |           |           |            |           |           |           |
| 22 | Greatest number employed at any one time during the year.....                        | 108,532      | 1,671        | 586       | 90        | 6,174       | 1,864     | 83        | 118        | 809       | 393       | 2,747     |
| 23 | Least number employed at any one time during the year.....                           | 65,078       | 1,025        | 420       | 75        | 3,286       | 717       | 73        | 88         | 304       | 200       | 1,565     |
|    | Average number of wage-earners and total wages:                                      |              |              |           |           |             |           |           |            |           |           |           |
| 24 | Total average number.....  | 83,739       | 1,311        | 494       | 38        | 4,402       | 1,264     | 65        | 91         | 509       | 290       | 2,175     |
| 25 | Total wages.....   | \$32,586,101 | \$437,367    | \$182,337 | \$9,030   | \$1,492,295 | \$266,245 | \$9,706   | \$21,844   | \$232,409 | \$72,679  | \$562,719 |
|    | Men, 16 years and over—  |              |              |           |           |             |           |           |            |           |           |           |
| 26 | Average number.....  | 26,109       | 346          | 58        |           | 915         | 55        | 4         | 10         |           | 7         | 392       |
| 27 | Wages.....   | \$15,790,572 | \$178,889    | \$35,410  |           | \$506,797   | \$41,013  | \$2,466   | \$4,400    |           | \$3,800   | \$214,974 |
|    | Women, 16 years and over—  |              |              |           |           |             |           |           |            |           |           |           |
| 28 | Average number.....  | 56,866       | 954          | 436       | 38        | 3,441       | 1,209     | 61        | 81         | 482       | 283       | 1,742     |
| 29 | Wages.....   | \$16,675,390 | \$256,584    | \$146,927 | \$9,030   | \$889,045   | \$225,232 | \$7,240   | \$17,444   | \$228,399 | \$68,879  | \$342,337 |
|    | Children, under 16 years—  |              |              |           |           |             |           |           |            |           |           |           |
| 30 | Average number.....  | 764          | 11           |           |           | 46          |           |           |            | 27        |           | 41        |
| 31 | Wages.....   | \$120,139    | \$1,894      |           |           | \$6,458     |           |           |            | \$4,010   |           | \$4,799   |
|    | Average number of wage-earners, including piece workers, employed during each month: |              |              |           |           |             |           |           |            |           |           |           |
|    | Men, 16 years and over—  |              |              |           |           |             |           |           |            |           |           |           |
| 32 | January.....   | 24,962       | 354          | 49        |           | 801         | 61        | 4         | 10         |           | 8         | 339       |
| 33 | February.....  | 28,492       | 353          | 51        |           | 900         | 62        | 4         | 10         |           | 8         | 363       |
| 34 | March.....   | 30,379       | 372          | 61        |           | 1,022       | 64        | 4         | 10         |           | 7         | 382       |
| 35 | April.....   | 29,179       | 396          | 66        |           | 939         | 64        | 4         | 10         |           | 6         | 399       |
| 36 | May.....   | 25,785       | 346          | 60        |           | 968         | 64        | 4         | 10         |           | 7         | 384       |
| 37 | June.....  | 21,197       | 297          | 66        |           | 846         | 49        | 4         | 11         |           | 7         | 371       |
| 38 | July.....  | 21,300       | 305          | 56        |           | 888         | 45        | 4         | 9          |           | 7         | 402       |
| 39 | August.....  | 21,578       | 316          | 48        |           | 962         | 47        | 4         | 9          |           | 6         | 425       |
| 40 | September.....   | 28,915       | 326          | 61        |           | 1,010       | 52        | 4         | 9          |           | 7         | 461       |
| 41 | October.....   | 29,765       | 342          | 55        |           | 1,025       | 51        | 4         | 9          |           | 7         | 443       |
| 42 | November.....  | 27,948       | 386          | 68        |           | 906         | 44        | 4         | 9          |           | 7         | 406       |
| 43 | December.....  | 23,808       | 365          | 63        |           | 729         | 54        | 4         | 9          |           | 8         | 337       |
|    | Women, 16 years and over—  |              |              |           |           |             |           |           |            |           |           |           |
| 44 | January.....   | 57,156       | 838          | 371       | 32        | 3,437       | 1,538     | 53        | 65         | 760       | 308       | 1,927     |
| 45 | February.....  | 61,775       | 948          | 380       | 31        | 3,981       | 1,702     | 56        | 61         | 652       | 316       | 2,007     |
| 46 | March.....   | 65,024       | 1,076        | 442       | 30        | 4,251       | 1,738     | 56        | 71         | 583       | 334       | 2,083     |
| 47 | April.....   | 63,549       | 1,067        | 459       | 30        | 4,071       | 1,733     | 67        | 80         | 513       | 264       | 2,004     |
| 48 | May.....   | 58,500       | 981          | 516       | 17        | 3,326       | 1,498     | 67        | 82         | 411       | 292       | 1,877     |
| 49 | June.....  | 49,486       | 701          | 503       |           | 2,706       | 802       | 57        | 107        | 398       | 269       | 1,519     |
| 50 | July.....  | 45,419       | 724          | 427       | 65        | 2,864       | 599       | 60        | 97         | 297       | 215       | 1,293     |
| 51 | August.....  | 49,513       | 989          | 377       | 65        | 3,185       | 688       | 62        | 84         | 297       | 208       | 1,401     |
| 52 | September.....   | 57,094       | 1,050        | 485       | 65        | 3,541       | 825       | 62        | 83         | 313       | 231       | 1,619     |
| 53 | October.....   | 60,069       | 1,100        | 498       | 65        | 3,425       | 1,094     | 62        | 83         | 406       | 283       | 1,677     |
| 54 | November.....  | 59,000       | 1,067        | 389       | 30        | 3,257       | 1,074     | 62        | 83         | 472       | 333       | 1,709     |
| 55 | December.....  | 55,807       | 908          | 383       | 30        | 3,248       | 1,218     | 63        | 75         | 685       | 354       | 1,791     |
|    | Children, under 16 years—  |              |              |           |           |             |           |           |            |           |           |           |
| 56 | January.....   | 762          | 11           |           |           | 53          |           |           |            | 27        |           | 43        |
| 57 | February.....  | 785          | 11           |           |           | 57          |           |           |            | 27        |           | 44        |
| 58 | March.....   | 807          | 11           |           |           | 58          |           |           |            | 27        |           | 44        |
| 59 | April.....   | 812          | 11           |           |           | 63          |           |           |            | 27        |           | 42        |
| 60 | May.....   | 782          | 11           |           |           | 50          |           |           |            | 27        |           | 41        |
| 61 | June.....  | 717          | 11           |           |           | 33          |           |           |            | 27        |           | 41        |
| 62 | July.....  | 693          | 11           |           |           | 43          |           |           |            | 27        |           | 40        |
| 63 | August.....  | 721          | 11           |           |           | 46          |           |           |            | 27        |           | 40        |
| 64 | September.....   | 774          | 11           |           |           | 42          |           |           |            | 27        |           | 39        |
| 65 | October.....   | 780          | 11           |           |           | 37          |           |           |            | 27        |           | 39        |
| 66 | November.....  | 784          | 11           |           |           | 47          |           |           |            | 27        |           | 39        |
| 67 | December.....  | 751          | 11           |           |           | 39          |           |           |            | 27        |           | 39        |
|    | Miscellaneous expenses:  |              |              |           |           |             |           |           |            |           |           |           |
| 68 | Total.....   | \$11,783,695 | \$62,300     | \$12,717  | \$375     | \$1,143,662 | \$30,471  | \$1,639   | \$3,131    | \$15,545  | \$7,410   | \$162,851 |
| 69 | Rent of works.....   | \$2,595,750  | \$45,400     | \$4,600   | \$288     | \$166,599   | \$8,988   | \$983     | \$1,683    | \$2,724   | \$3,292   | \$46,032  |
| 70 | Taxes, not including internal revenue.....   | \$33,139     | \$1,763      | \$819     | \$25      | \$12,507    | \$1,336   | \$3       |            | \$378     | \$243     | \$2,340   |
| 71 | Rent of offices, interest, etc.....  | \$3,901,643  | \$13,937     | \$7,218   | \$62      | \$342,498   | \$20,147  | \$550     | \$6,433    | \$12,448  | \$3,875   | \$78,829  |
| 72 | Contract work.....   | \$5,155,163  | \$1,200      | \$80      |           | \$622,068   |           | \$103     | \$15       |           |           | \$35,660  |

FACTORY PRODUCT: BY STATES, 1900.

| Massachu-<br>setts. | Michi-<br>gan. | Minne-<br>sota. | Missouri.   | New Hamp-<br>shire. | New Jer-<br>sey. | New York.    | Ohio.       | Oregon.  | Pennsyl-<br>vania. | Ver-<br>mont. | Wash-<br>ington. | West<br>Virginia. | Wiscon-<br>sin. | All other<br>states. <sup>1</sup> |    |
|---------------------|----------------|-----------------|-------------|---------------------|------------------|--------------|-------------|----------|--------------------|---------------|------------------|-------------------|-----------------|-----------------------------------|----|
| 119                 | 31             | 8               | 48          | 5                   | 57               | 1,673        | 126         | 7        | 230                | 5             | 9                | 3                 | 9               | 12                                | 1  |
| 61                  | 7              | 1               | 17          | .....               | 30               | 933          | 79          | 1        | 125                | 2             | 1                | 1                 | 3               | 6                                 | 2  |
| 51                  | 15             | 6               | 19          | .....               | 22               | 708          | 81          | 6        | 100                | 2             | 7                | .....             | 5               | 6                                 | 3  |
| 7                   | 9              | 1               | 12          | .....               | 5                | 31           | 16          | .....    | 5                  | 1             | 1                | .....             | 1               | .....                             | 4  |
| .....               | .....          | .....           | .....       | .....               | .....            | 1            | .....       | .....    | .....              | .....         | .....            | .....             | .....           | .....                             | 5  |
| \$1,616,991         | \$599,194      | \$85,863        | \$1,019,456 | \$146,762           | \$1,298,827      | \$29,283,205 | \$2,865,851 | \$20,403 | \$5,107,094        | \$47,420      | \$25,700         | \$61,000          | \$141,750       | \$122,903                         | 6  |
| \$16,400            | \$8,750        | .....           | \$6,500     | \$4,200             | \$72,300         | \$519,250    | \$30,055    | .....    | \$40,650           | \$600         | .....            | .....             | .....           | \$2,500                           | 7  |
| \$63,800            | \$22,600       | .....           | \$4,000     | \$18,136            | \$169,119        | \$525,480    | \$140,870   | .....    | \$30,900           | \$1,900       | .....            | .....             | .....           | \$9,000                           | 8  |
| \$242,054           | \$100,945      | .....           | \$99,751    | \$19,272            | \$135,706        | \$2,431,048  | \$173,376   | .....    | \$525,376          | \$8,100       | \$1,400          | \$53,000          | \$16,025        | \$11,175                          | 9  |
| \$1,294,737         | \$466,899      | \$50,272        | \$909,205   | \$105,155           | \$921,702        | \$25,806,827 | \$2,521,550 | \$19,010 | \$4,549,168        | \$36,820      | \$24,300         | \$8,000           | \$125,725       | \$100,228                         | 10 |
| 159                 | 43             | 17              | 56          | .....               | 73               | 2,466        | 159         | .....    | 346                | 6             | 25               | .....             | 14              | 18                                | 11 |
| 140                 | 120            | 17              | 190         | 23                  | 144              | 4,152        | 348         | 4        | 596                | 10            | 5                | 1                 | 21              | 35                                | 12 |
| \$145,254           | \$122,499      | \$12,760        | \$191,051   | \$25,689            | \$125,420        | \$4,097,946  | \$384,277   | \$1,890  | \$524,528          | \$5,005       | \$2,100          | \$1,200           | \$18,150        | \$23,897                          | 13 |
| 8                   | 11             | 3               | 17          | 6                   | 12               | 38           | 18          | .....    | 7                  | 1             | 2                | 1                 | 1               | .....                             | 14 |
| \$31,400            | \$24,810       | \$600           | \$23,550    | \$7,288             | \$36,700         | \$109,625    | \$40,740    | .....    | \$14,900           | \$1,000       | \$1,100          | \$1,200           | \$2,000         | .....                             | 15 |
| 132                 | 109            | 14              | 173         | 17                  | 132              | 4,114        | 380         | 4        | 589                | 9             | 3                | .....             | 20              | 35                                | 16 |
| \$113,854           | \$97,689       | \$12,160        | \$167,501   | \$18,401            | \$88,720         | \$3,988,321  | \$343,537   | \$1,890  | \$509,628          | \$4,005       | \$1,000          | .....             | \$16,150        | \$23,897                          | 17 |
| 96                  | 85             | 12              | 158         | 15                  | 105              | 3,333        | 285         | 4        | 480                | 9             | 3                | .....             | 19              | 19                                | 18 |
| \$92,968            | \$84,437       | \$11,080        | \$159,939   | \$17,533            | \$77,631         | \$3,606,267  | \$323,303   | \$1,890  | \$459,687          | \$4,005       | \$1,000          | .....             | \$15,700        | \$16,660                          | 19 |
| 36                  | 24             | 2               | 15          | 2                   | 27               | 731          | 45          | .....    | 109                | .....         | .....            | .....             | 1               | 16                                | 20 |
| \$20,856            | \$18,252       | \$1,080         | \$7,512     | \$368               | \$11,039         | \$382,054    | \$20,234    | .....    | \$49,941           | .....         | .....            | .....             | \$450           | \$7,237                           | 21 |
| 4,445               | 2,204          | 652             | 2,607       | 486                 | 2,744            | 62,412       | 6,261       | 51       | 11,063             | 227           | 36               | 52                | 403             | 354                               | 22 |
| 2,512               | 1,087          | 383             | 1,660       | 373                 | 1,953            | 38,666       | 3,777       | 36       | 6,184              | 162           | 31               | 52                | 171             | 228                               | 23 |
| 8,443               | 1,540          | 516             | 2,063       | 434                 | 2,389            | 48,717       | 4,817       | 44       | 3,311              | 202           | 33               | 52                | 253             | 281                               | 24 |
| \$1,083,002         | \$391,623      | \$128,020       | \$504,385   | \$134,027           | \$614,394        | \$21,987,896 | \$1,518,355 | \$12,700 | \$2,606,024        | \$53,123      | \$13,400         | \$10,100          | \$80,816        | \$71,014                          | 25 |
| 418                 | 153            | 19              | 378         | 25                  | 212              | 19,673       | 1,345       | 17       | 1,961              | 26            | 31               | 2                 | 37              | 26                                | 26 |
| \$244,031           | \$63,463       | \$14,980        | \$162,236   | \$14,630            | \$85,895         | \$12,307,231 | \$687,558   | \$8,620  | \$1,057,678        | \$7,475       | \$12,680         | \$1,100           | \$27,600        | \$13,046                          | 27 |
| 2,997               | 1,383          | 492             | 1,632       | 409                 | 2,099            | 28,751       | 3,463       | 25       | 6,188              | 176           | 2                | 50                | 216             | 256                               | 28 |
| \$834,521           | \$322,272      | \$113,030       | \$393,994   | \$119,307           | \$547,693        | \$9,627,931  | \$829,544   | \$3,846  | \$1,524,493        | \$45,648      | \$720            | \$9,000           | \$53,216        | \$53,368                          | 29 |
| 28                  | 4              | 5               | 58          | .....               | 78               | 293          | 9           | 2        | 162                | .....         | .....            | .....             | .....           | .....                             | 30 |
| \$4,450             | \$888          | \$610           | \$8,165     | .....               | \$10,806         | \$52,734     | \$1,253     | \$234    | \$23,853           | .....         | .....            | .....             | .....           | .....                             | 31 |
| 401                 | 174            | 21              | 352         | 24                  | 215              | 18,988       | 1,155       | 19       | 1,870              | 33            | 32               | 2                 | 30              | 25                                | 32 |
| 419                 | 178            | 22              | 419         | 25                  | 218              | 22,019       | 1,241       | 19       | 2,055              | 33            | 32               | 2                 | 34              | 25                                | 33 |
| 424                 | 178            | 22              | 402         | 23                  | 235              | 23,469       | 1,353       | 19       | 2,201              | 33            | 32               | 2                 | 30              | 25                                | 34 |
| 435                 | 178            | 20              | 394         | 25                  | 233              | 22,543       | 1,233       | 15       | 2,108              | 32            | 32               | 2                 | 40              | 25                                | 35 |
| 441                 | 178            | 20              | 302         | 26                  | 233              | 19,467       | 1,232       | 15       | 1,903              | 17            | 31               | 2                 | 40              | 25                                | 36 |
| 410                 | 166            | 19              | 333         | 25                  | 202              | 15,311       | 1,279       | 15       | 1,634              | 16            | 31               | 2                 | 34              | 25                                | 37 |
| 855                 | 60             | 15              | 394         | 23                  | 160              | 15,281       | 1,464       | 16       | 1,713              | 33            | 28               | 2                 | 35              | 25                                | 38 |
| 877                 | 54             | 16              | 413         | 24                  | 209              | 15,168       | 1,482       | 16       | 1,890              | 16            | 31               | 2                 | 39              | 25                                | 39 |
| 425                 | 160            | 17              | 429         | 25                  | 222              | 21,053       | 1,578       | 14       | 2,045              | 17            | 31               | 2                 | 43              | 25                                | 40 |
| 463                 | 169            | 17              | 414         | 26                  | 227              | 22,608       | 1,579       | 13       | 2,189              | 17            | 32               | 2                 | 38              | 25                                | 41 |
| 454                 | 171            | 21              | 393         | 26                  | 222              | 21,186       | 1,397       | 19       | 2,106              | 33            | 33               | 2                 | 35              | 25                                | 42 |
| 417                 | 165            | 21              | 353         | 24                  | 170              | 18,079       | 1,099       | 19       | 1,762              | 31            | 33               | 2                 | 39              | 25                                | 43 |
| 2,315               | 1,656          | 541             | 1,568       | 410                 | 2,145            | 28,633       | 2,971       | 23       | 6,417              | 185           | 2                | 50                | 180             | 231                               | 44 |
| 3,135               | 1,738          | 585             | 1,680       | 427                 | 2,233            | 30,942       | 3,403       | 23       | 6,721              | 189           | 2                | 50                | 243             | 258                               | 45 |
| 3,260               | 1,699          | 581             | 1,836       | 428                 | 2,321            | 32,575       | 3,725       | 23       | 7,140              | 192           | 2                | 50                | 248             | 275                               | 46 |
| 3,303               | 1,596          | 553             | 1,623       | 442                 | 2,332            | 31,817       | 3,778       | 23       | 6,994              | 190           | 2                | 50                | 260             | 293                               | 47 |
| 3,214               | 1,450          | 473             | 1,526       | 409                 | 2,218            | 29,264       | 3,505       | 23       | 6,615              | 184           | 2                | 50                | 257             | 238                               | 48 |
| 2,934               | 1,173          | 372             | 1,451       | 378                 | 1,876            | 24,560       | 3,176       | 21       | 5,867              | 160           | 2                | 50                | 132             | 227                               | 49 |
| 2,396               | 823            | 385             | 1,529       | 356                 | 1,709            | 22,972       | 3,473       | 21       | 4,576              | 145           | 2                | 50                | 200             | 231                               | 50 |
| 2,290               | 879            | 408             | 1,584       | 376                 | 1,736            | 25,620       | 3,503       | 23       | 5,033              | 161           | 2                | 50                | 234             | 258                               | 51 |
| 2,993               | 1,127          | 455             | 1,740       | 403                 | 2,016            | 29,568       | 3,833       | 21       | 5,926              | 170           | 2                | 50                | 233             | 273                               | 52 |
| 3,178               | 1,493          | 493             | 1,783       | 413                 | 2,202            | 30,889       | 3,866       | 21       | 6,304              | 187           | 2                | 50                | 195             | 255                               | 53 |
| 3,331               | 1,495          | 540             | 1,697       | 435                 | 2,205            | 29,917       | 3,518       | 23       | 6,607              | 173           | 2                | 50                | 173             | 263                               | 54 |
| 3,115               | 1,471          | 513             | 1,659       | 424                 | 2,196            | 28,268       | 2,799       | 23       | 6,059              | 172           | 2                | 50                | 183             | 228                               | 55 |
| 17                  | 5              | 4               | 57          | .....               | 75               | 290          | 7           | 2        | 171                | .....         | .....            | .....             | .....           | .....                             | 56 |
| 24                  | 5              | 5               | 57          | .....               | 76               | 295          | 8           | 2        | 174                | .....         | .....            | .....             | .....           | .....                             | 57 |
| 27                  | 6              | 5               | 58          | .....               | 77               | 307          | 9           | 2        | 177                | .....         | .....            | .....             | .....           | .....                             | 58 |
| 27                  | 6              | 5               | 58          | .....               | 77               | 309          | 10          | 2        | 175                | .....         | .....            | .....             | .....           | .....                             | 59 |
| 30                  | 7              | 5               | 58          | .....               | 77               | 295          | 13          | 2        | 166                | .....         | .....            | .....             | .....           | .....                             | 60 |
| 31                  | 4              | 4               | 58          | .....               | 79               | 270          | 9           | 2        | 148                | .....         | .....            | .....             | .....           | .....                             | 61 |
| 31                  | 3              | 4               | 57          | .....               | 78               | 259          | 8           | 2        | 130                | .....         | .....            | .....             | .....           | .....                             | 62 |
| 32                  | 1              | 4               | 58          | .....               | 78               | 273          | 8           | 2        | 141                | .....         | .....            | .....             | .....           | .....                             | 63 |
| 32                  | 4              | 5               | 59          | .....               | 79               | 303          | 8           | 2        | 163                | .....         | .....            | .....             | .....           | .....                             | 64 |
| 32                  | 4              | 5               | 59          | .....               | 79               | 308          | 9           | 2        | 168                | .....         | .....            | .....             | .....           | .....                             | 65 |
| 26                  | 4              | 4               | 57          | .....               | 79               | 308          | 9           | 2        | 170                | .....         | .....            | .....             | .....           | .....                             | 66 |
| 24                  | 4              | 5               | 57          | .....               | 79               | 294          | 6           | 2        | 165                | .....         | .....            | .....             | .....           | .....                             | 67 |
| \$261,597           | \$155,264      | \$23,899        | \$135,795   | \$7,576             | \$135,612        | \$8,407,495  | \$467,188   | \$4,214  | \$629,266          | \$2,076       | \$4,188          | \$22,640          | \$17,626        | \$14,158                          | 68 |
| \$32,599            | \$11,710       | \$6,186         | \$48,957    | \$720               | \$19,633         | \$1,901,971  | \$74,922    | \$2,522  | \$151,184          | \$375         | \$2,956          | \$300             | \$4,296         | \$4,790                           | 69 |
| \$9,302             | \$3,072        | \$213           | \$3,809     | \$460               | \$4,456          | \$25,695     | \$8,062     | \$145    | \$6,772            | \$126         | \$102            | \$50              | \$446           | \$1,020                           | 70 |
| \$135,024           | \$124,471      | \$17,410        | \$37,819    | \$6,396             | \$103,055        | \$2,444,860  | \$154,157   | \$1,397  | \$370,030          | \$1,575       | \$1,130          | \$2,290           | \$12,684        | \$3,348                           | 71 |
| \$34,672            | \$16,011       | \$90            | \$45,210    | .....               | \$8,418          | \$4,034,969  | \$230,047   | .....    | \$101,280          | .....         | \$20,000         | .....             | \$5,000         | .....                             | 72 |

<sup>1</sup>Includes establishments distributed as follows: Colorado, 2; Nebraska, 1; North Carolina, 1; Rhode Island, 2; South Carolina, 1; Tennessee, 2; Texas, 1; Virginia, 2.

TABLE 23.—CLOTHING, WOMEN'S, FACTORY

|  | United States. | California. | Connecticut. | Delaware. | Illinois.   | Indiana.    | Iowa.    | Kentucky. | Louisiana. | Maine.    | Maryland.   |
|--|----------------|-------------|--------------|-----------|-------------|-------------|----------|-----------|------------|-----------|-------------|
| 73 Cost of material used:  |                |             |              |           |             |             |          |           |            |           |             |
| 74 Total.....  | \$84,704,592   | \$1,007,871 | \$225,498    | \$4,296   | \$5,019,054 | \$650,040   | \$25,284 | \$78,300  | \$485,681  | \$154,455 | \$1,873,980 |
| Purchased in partially manufactured form (including "all other materials").....                      | \$83,974,025   | \$986,914   | \$220,948    | \$3,835   | \$4,940,108 | \$636,270   | \$24,163 | \$77,378  | \$478,625  | \$152,133 | \$1,856,691 |
| 75 Fuel.....   | \$156,488      | \$79        | \$1,293      | \$90      | \$7,770     | \$2,029     | \$90     | \$184     | \$120      | \$90      | \$1,862     |
| 76 Rent of power and heat.....   | \$240,271      | \$5,840     | \$694        | \$170     | \$13,426    | \$1,730     | \$396    | \$198     | \$150      | \$907     | \$2,667     |
| 77 Mill supplies.....  | \$50,835       | \$597       | \$215        | \$25      | \$2,969     | \$327       | \$115    | \$40      |            | \$250     | \$3,638     |
| 78 Freight.....  | \$283,478      | \$14,444    | \$2,348      | \$176     | \$54,781    | \$9,684     | \$520    | \$500     | \$6,736    | \$1,075   | \$6,080     |
| 79 Products, total value.....  | \$159,339,539  | \$1,981,136 | \$614,855    | \$18,310  | \$9,774,774 | \$1,256,716 | \$46,998 | \$130,756 | \$849,823  | \$287,749 | \$2,685,676 |
| 80 Comparison of products:   |                |             |              |           |             |             |          |           |            |           |             |
| Number of establishments reporting for both years.....   | 2,007          | 47          | 10           | 1         | 115         | 9           | 5        | 7         | 11         | 9         | 45          |
| 81 Census year.....  | 139,168,582    | 1,880,291   | 589,170      | 12,000    | 8,693,831   | 1,099,529   | 36,843   | 122,756   | 822,350    | 287,749   | 2,466,801   |
| 82 Preceding business year.....  | 120,809,617    | 1,652,102   | 486,223      | 12,000    | 7,783,282   | 981,106     | 36,650   | 41,650    | 808,200    | 205,157   | 2,232,815   |
| 83 Power:  |                |             |              |           |             |             |          |           |            |           |             |
| Number of establishments reporting.....  | 979            | 23          | 5            | 3         | 75          | 13          | 4        | 3         | 1          | 2         | 24          |
| 84 Total horsepower.....   | 10,245         | 68          | 69           | 13        | 600         | 1,392       | 11       | 19        | 3          | 22        | 248         |
| Owned—   |                |             |              |           |             |             |          |           |            |           |             |
| Engines—   |                |             |              |           |             |             |          |           |            |           |             |
| Steam—   |                |             |              |           |             |             |          |           |            |           |             |
| 85 Number.....   | 97             |             | 1            |           | 7           | 3           |          |           |            |           | 2           |
| 86 Horsepower.....   | 2,822          |             | 60           |           | 190         | 93          |          |           |            |           | 45          |
| Gas or gasoline—   |                |             |              |           |             |             |          |           |            |           |             |
| 87 Number.....   | 117            | 1           |              | 4         | 15          | 4           | 1        |           |            |           | 14          |
| 88 Horsepower.....   | 1,989          | 1           |              | 8         | 49          | 1,262       | 3        |           |            |           | 70          |
| Electric motors—   |                |             |              |           |             |             |          |           |            |           |             |
| 89 Number.....   | 28             |             |              |           | 7           |             |          |           |            | 1         | 1           |
| 90 Horsepower.....   | 283            |             |              |           | 22          |             |          |           |            | 4         | 1           |
| Other power—   |                |             |              |           |             |             |          |           |            |           |             |
| 91 Number.....   | 6              |             |              |           |             |             |          |           |            |           |             |
| 92 Horsepower.....   | 87             |             |              |           |             |             |          |           |            |           |             |
| Water wheels—  |                |             |              |           |             |             |          |           |            |           |             |
| 93 Number.....   | 12             |             |              |           |             |             |          |           |            |           |             |
| 94 Horsepower.....   | 519            |             |              |           |             |             |          |           |            |           |             |
| Rented—  |                |             |              |           |             |             |          |           |            |           |             |
| 95 Total horsepower.....   | 4,545          | 67          | 9            | 5         | 339         | 37          | 8        | 19        | 3          | 18        | 132         |
| 96 Electric.....   | 3,093          | 61          | 9            | 2         | 136         | 37          | 8        | 19        | 3          | 8         | 14          |
| 97 Other kind.....   | 1,452          | 6           |              | 3         | 153         |             |          |           |            | 10        | 118         |
| 98 Horsepower furnished to other establishments.   | 88             |             |              |           | 4           |             |          |           |            |           |             |
| Establishments classified by number of persons employed, not including proprietors and firm members: |                |             |              |           |             |             |          |           |            |           |             |
| 99 Total number of establishments.....   | 2,701          | 50          | 14           | 3         | 169         | 14          | 7        | 9         | 14         | 9         | 61          |
| 100 No employees.....  | 48             | 2           |              |           | 5           |             |          |           |            |           | 7           |
| 101 Under 5.....   | 315            | 7           | 5            |           | 17          |             | 1        | 1         | 3          |           | 7           |
| 102 5 to 20.....   | 1,008          | 34          | 6            |           | 75          | 1           | 5        | 7         | 6          | 6         | 19          |
| 103 21 to 50.....  | 748            | 4           | 1            | 3         | 40          | 4           |          | 1         | 4          | 1         | 21          |
| 104 51 to 100.....   | 326            | 6           | 1            |           | 20          | 3           |          |           |            |           | 7           |
| 105 101 to 250.....  | 188            | 6           |              |           | 9           | 3           |          |           |            | 2         | 4           |
| 106 251 to 500.....  | 53             |             | 1            |           | 2           | 3           |          |           |            |           | 1           |
| 107 501 to 1,000.....  | 12             |             |              |           | 1           |             |          |           |            |           | 1           |
| 108 Over 1,000.....  | 1              |             |              |           |             |             |          |           | 1          |           |             |

CLOTHING

PRODUCT: BY STATES, 1900—Continued.

| Massachu-<br>setts. | Michi-<br>gan. | Minne-<br>sota. | Missouri.   | New<br>Hamp-<br>shire. | New Jer-<br>sey. | New York.     | Ohio.       | Oregon.  | Pennsyl-<br>vania. | Ver-<br>mont. | Wash-<br>ington. | West<br>Virginia. | Wiscon-<br>sin. | All other<br>states. <sup>1</sup> |       |
|---------------------|----------------|-----------------|-------------|------------------------|------------------|---------------|-------------|----------|--------------------|---------------|------------------|-------------------|-----------------|-----------------------------------|-------|
| \$2,795,143         | \$1,219,429    | \$185,510       | \$1,739,310 | \$324,991              | \$1,156,341      | \$56,848,074  | \$4,449,451 | \$36,831 | \$6,269,950        | 115,429       | \$39,800         | \$160,192         | \$100,542       | \$239,187                         | 73    |
| \$2,761,304         | \$1,191,548    | \$181,500       | \$1,695,869 | \$320,753              | \$1,187,008      | \$56,547,272  | \$4,879,816 | \$36,894 | \$6,205,081        | \$113,742     | \$38,860         | \$155,775         | \$97,851        | \$284,184                         | 74    |
| \$6,907             | \$5,368        | \$1,040         | \$3,642     | \$2,351                | \$6,168          | \$94,469      | \$6,030     | \$187    | \$11,207           | \$725         | \$65             | \$112             | \$897           | \$763                             | 75    |
| \$13,154            | \$3,624        | \$830           | \$9,922     | \$640                  | \$6,087          | \$133,233     | \$15,444    | -----    | \$23,927           | \$156         | -----            | -----             | \$922           | \$1,204                           | 76    |
| \$1,723             | \$3,213        | \$365           | \$1,123     | \$490                  | \$2,093          | \$25,168      | \$2,536     | -----    | \$4,842            | \$195         | -----            | \$30              | \$132           | \$219                             | 77    |
| \$12,055            | \$15,676       | \$1,775         | \$28,754    | \$767                  | \$5,035          | \$47,932      | \$45,625    | \$300    | \$19,393           | \$611         | \$875            | \$4,275           | \$740           | \$2,817                           | 78    |
| \$5,201,650         | \$2,194,078    | \$427,000       | \$3,124,901 | \$519,735              | \$2,561,034      | \$106,892,390 | \$7,772,771 | \$67,947 | \$11,694,580       | \$197,995     | \$93,694         | \$255,000         | \$271,991       | \$418,080                         | 79    |
| 84                  | 20             | 5               | 38          | 3                      | 40               | 1,275         | 99          | 5        | 153                | 3             | 8                | 1                 | 4               | 10                                | 80    |
| 4,180,752           | 1,758,869      | 287,000         | 2,733,961   | 429,056                | 2,054,303        | 94,594,164    | 7,047,521   | 57,000   | 9,074,649          | 184,570       | 72,694           | 200,000           | 162,141         | 370,080                           | 81    |
| 3,466,823           | 1,521,438      | 208,000         | 2,262,604   | 371,200                | 1,777,486        | 81,530,553    | 5,991,133   | 33,700   | 8,005,960          | 167,000       | 60,000           | 200,000           | 188,250         | 231,200                           | 82    |
| 79                  | 27             | 5               | 36          | 5                      | 44               | 425           | 54          | -----    | 133                | 5             | -----            | 2                 | 6               | 5                                 | 83    |
| 539                 | 461            | 67              | 221         | 163                    | 443              | 4,066         | 690         | -----    | 867                | 182           | -----            | 7                 | 27              | 62                                | 84    |
| 8                   | 3              | 1               | 3           | 1                      | 10               | 43            | 1           | -----    | 12                 | -----         | -----            | -----             | 1               | 1                                 | 85    |
| 235                 | 300            | 30              | 95          | 35                     | 293              | 1,098         | 80          | -----    | 222                | -----         | -----            | -----             | 6               | 40                                | 86    |
| 2                   | 8              | -----           | -----       | -----                  | 10               | 43            | 9           | -----    | 3                  | 1             | -----            | 2                 | -----           | -----                             | 87    |
| 14                  | 64             | -----           | -----       | -----                  | 50               | 263           | 174         | -----    | 19                 | 5             | -----            | 7                 | -----           | -----                             | 88    |
| -----               | -----          | -----           | 1           | -----                  | 2                | 10            | 4           | -----    | 2                  | -----         | -----            | -----             | -----           | -----                             | 89    |
| -----               | -----          | -----           | 6           | -----                  | 16               | 152           | 77          | -----    | 5                  | -----         | -----            | -----             | -----           | -----                             | 90    |
| 1                   | -----          | -----           | -----       | -----                  | 2                | 3             | -----       | -----    | -----              | -----         | -----            | -----             | -----           | -----                             | 91    |
| 60                  | -----          | -----           | -----       | -----                  | 12               | 15            | -----       | -----    | -----              | -----         | -----            | -----             | -----           | -----                             | 92    |
| -----               | 1              | -----           | -----       | 3                      | 1                | 3             | -----       | -----    | 1                  | 3             | -----            | -----             | -----           | -----                             | 93    |
| -----               | 20             | -----           | -----       | 120                    | 40               | 165           | -----       | -----    | 4                  | 170           | -----            | -----             | -----           | -----                             | 94    |
| 230                 | 77             | 37              | 120         | 13                     | 32               | 2,373         | 359         | -----    | 617                | 7             | -----            | -----             | 21              | 22                                | 95    |
| 172                 | 59             | 20              | 120         | 13                     | 22               | 1,629         | 275         | -----    | 389                | 7             | -----            | -----             | 18              | 22                                | 96    |
| 58                  | 18             | 17              | -----       | -----                  | 10               | 744           | 84          | -----    | 223                | -----         | -----            | -----             | 3               | -----                             | 97    |
| -----               | -----          | -----           | 40          | -----                  | 4                | -----         | -----       | -----    | -----              | 30            | -----            | -----             | -----           | 10                                | 98    |
| -----               | -----          | -----           | -----       | -----                  | -----            | -----         | -----       | -----    | -----              | -----         | -----            | -----             | -----           | -----                             | ----- |
| 119                 | 31             | 8               | 48          | 5                      | 57               | 1,673         | 126         | 7        | 230                | 5             | 9                | 3                 | 9               | 12                                | 99    |
| -----               | -----          | -----           | -----       | -----                  | 1                | 28            | 7           | 1        | 3                  | -----         | -----            | 1                 | -----           | -----                             | 100   |
| 13                  | 2              | -----           | 1           | -----                  | 6                | 187           | 29          | 2        | 26                 | -----         | 8                | -----             | -----           | -----                             | 101   |
| 44                  | 9              | 2               | 20          | -----                  | 17               | 602           | 48          | 4        | 91                 | 3             | 1                | -----             | 3               | 4                                 | 102   |
| 40                  | 9              | 2               | 11          | 2                      | 18               | 519           | 10          | -----    | 43                 | -----         | 1                | -----             | 2               | 6                                 | 103   |
| 12                  | 5              | 1               | 7           | 2                      | 9                | 198           | 12          | -----    | 35                 | 2             | -----            | -----             | 3               | 2                                 | 104   |
| 8                   | 4              | 3               | 7           | -----                  | 3                | 109           | 12          | -----    | 17                 | -----         | -----            | -----             | 1               | -----                             | 105   |
| 2                   | 2              | -----           | 2           | 1                      | 3                | 22            | 8           | -----    | 8                  | -----         | -----            | -----             | -----           | -----                             | 106   |
| -----               | -----          | -----           | -----       | -----                  | -----            | 7             | -----       | -----    | 2                  | -----         | -----            | -----             | -----           | -----                             | 107   |
| -----               | -----          | -----           | -----       | -----                  | -----            | 1             | -----       | -----    | -----              | -----         | -----            | -----             | -----           | -----                             | 108   |

<sup>1</sup>Includes establishments distributed as follows: Colorado, 2; Nebraska, 1; North Carolina, 1; Rhode Island, 2; South Carolina, 1; Tennessee, 2; Texas, 1; Virginia, 2.

## HISTORICAL AND DESCRIPTIVE.

## MEN'S CLOTHING.

The manufacture of ready-made clothing as an industry worth noting is of comparatively recent date. There are no records available of the earliest days of the industry in this country; however, the industry came into being during the second decade of the Nineteenth century, and George Opdyke, once mayor of New York, was one of the first to engage in it. About 1831 he commenced to manufacture clothing in Hudson street, New York city.<sup>1</sup> About 1835 the wholesale manufacture of medium-grade ready-made clothing for men began in New York on a small scale. Prior to this time it was usual for stores in the seaport cities to manufacture and keep in stock outfits of clothing from which sailors could replenish their wardrobes. These garments consisted principally of the so-called "slopwork." At first almost all the clothing was manufactured to supply the trade in the South and the West. Gradually the wholesale houses in New York began to manufacture better grades of ready-made clothing. The quantities manufactured were small and everything was made by hand. From this obscure beginning has grown the enormous industry of to-day.

The invention of the sewing machine in 1850 gave a great impetus to the manufacture of clothing.

The sewing machine made it possible to manufacture clothing on a larger scale, but a stronger impetus to the wholesale production of ready-made clothing was given by the Civil War, when the Government suddenly faced the necessity of providing clothing for hundreds of thousands of men. Since that time the volume of this industry has steadily increased.

The methods prevailing in the manufacture of men's (including children's) clothing have changed greatly during the last half century. Before 1850 it was mainly a household industry and there were but few manufacturers who ran factories of their own. After the sewing machine came into general use, the making of ready-made clothing was principally carried on by the journeymen tailors. During the seasons they worked for the custom tailors, and between the seasons they could be found in the shops of the manufacturers. At that time each tailor was a skilled workman, who made the entire garment. The majority of these tailors were English, Scotch, and American. Soon after 1850 the Irish came largely into the trade. Next the Germans entered into the manufacture of ready-made clothing and by them was introduced a division of labor in the making of the garments. The garments were made in homes, the father doing the machine work, while mother and children assisted in the basting, finishing, and making of the buttonholes.

Prior to 1876 there was little change in the methods

of manufacture, but following the great influx of Russian Jews, which began about that time, the task system was introduced into the manufacture of men's ready-made clothing.

The introduction of the task system revolutionized the ready-made clothing industry. It was no longer necessary for the worker to be a skilled workman, and the journeyman tailor was driven out of this branch of tailoring trade. This system has only been applied in the making of coats. When the task system was started, the journeyman tailor received \$2.50 to \$3 for making a ready-made coat on which he performed all the work, principally by hand. In the task shop the same coat would be produced by five persons at a cost of \$1.50 to \$2, and as much as possible of the work was done on the sewing machine. Through the task system the division of labor was carried into the shops. The peculiar features of this system are the "team" work and the "task" price. The work is done in the following manner: Each team consists of three men—an operator, a baster, and a finisher. Outside the team there is, as a rule, a presser and a girl for sewing on buttons and making buttonholes. Each member of the team has his particular part of the coat to make, and in a short time gains such an efficiency in his work that the team is able to turn out an increasing number of coats. When the system was first introduced, a task of overcoats would consist of about 50 coats per week, for the completion of which the operator would receive \$18; the baster, \$16; the finisher, \$11; and the presser, \$12. The girl was paid by the week, and received about \$4.50. The contractor would, as a rule, be a member of the team, until he started to run three or more teams in his shop, when he became the bushelman or overseer. The contractor would obtain the goods from the manufacturer and be responsible for them. When times were hard and labor plentiful the manufacturer would tell the contractor that he could get the work done at a lower figure. The contractor would be compelled to take the work at a reduced figure or go without it. He would tell his employees of this state of things, and, in order not to have their wages reduced the workers would agree to increase the task; thus in time the task, which at first consisted of 8 or 9 coats per day was gradually increased until it reached as high as 20. In order to finish a task in a day it became necessary to work longer hours, but it soon became impossible to finish a day's work even by working twenty hours, and it would frequently take more than thirty hours to finish a day's task. As the workers received always the same price for a task, whether it consisted of 8 coats or 20, they did not consider that their wages had been reduced. Thus it will be seen that a more obnoxious exemplification of the so-called sweating system can not be conceived.

Public attention was first called to the sweating system in the winter of 1847-1848, when, during a period

<sup>1</sup>One Hundred Years of American Commerce, Vol. II, page 561.

of acute distress among the workingmen of England, the "Morning Chronicle," of London, sent a commission to investigate the condition of the industrial classes.

The origin of this system was probably the giving out of work by the manufacturer to the journeyman tailor who did the work at his home. Though the "sweating system" has been debated for years it is hard to find a satisfactory definition of the term. It may be said to be a system where the wholesale firm, which is styled manufacturer, lets the work to contractors who undertake to do it in their own houses or small workshops, or who, in turn, sublet it to other contractors or parcel it out to individuals. Each of these contractors employs workers to do the work, making a profit for himself by the difference between the contract price and the wages he pays to his employees.

The only part of the work which is performed on the premises of the "manufacturer" is the cutting of the cloth and the linings. He does not have to pay rent for a factory which the conditions of the trade would not permit him to run more than about two-thirds of the time, and he does not have to supply machinery and power. The fact that hardly any capital is needed for a person to start a sweat shop and become a contractor has been an important factor in the competition. A clever man working for a contractor will soon find out from whom his employer gets his work and the price he receives. Then he will go to the manufacturer and inform him that he is doing the work for the contractor and he is willing to do it direct at a lower price. The manufacturer accepts his offer, the worker becomes a contractor, and soon one of his own workers will repeat his own action.

The result is inevitable. To be able to make a profit the contractor must reduce his expenses—that is, his outlay for wages and rent of shop. Before the enactment of recent laws he would use his living room for a workshop, in which the workers would be packed to a limit that is appalling, or he would rent a room in a basement or rear tenement, in which the work would be done under almost as bad conditions. In place of steam or electric power for operating the machines, there would almost invariably be substituted the foot power of the workers, which, when used to the excess which is common in these shops, will ruin the health of the worker in a very short term of years. The wages which the workers received would naturally be as low as human beings were willing to accept.

One of the most objectionable features of the contracting system is the subcontractor. This is a man who does not perform any work and does not employ any labor. He procures the work from the manufacturer and takes his profit by subletting the work to another contractor, who does the manufacturing. In this instance two profits must be deducted from the contract price before the employee gets anything.

The sweating system is made possible through the

unlimited oversupply of cheap labor, created by the hordes of illiterate persons who immigrate to this country, and who on their arrival are not fit for any work which requires skill. Coming here without means of subsistence, they naturally drift into work which requires no previous experience and no knowledge of the language. Formerly it required several years to learn the trade, but under the present system when one person performs only a very minute detail of the work, the clothing industry has become a haven of refuge for these people, as they are able to learn it in a very short time. When manufacturers learn that their interests will be better served by having their work done under their own supervision in factories of their own, the conditions under which ready-made clothing is now produced will gradually be improved.

A trend toward better conditions has appeared during the last few years. Though the largest part of the ready-made clothing is still made by contractors, the system of subcontracting has been in part abolished, and the contractors have been compelled to furnish healthier work-rooms for their workers. Several large manufacturers have begun making their clothing in their own factories. The advantages of the substitution of factory for contract work are far reaching. The former sweater or contractor becomes a foreman, and the operators look to the responsible firm for their wages. The hours are regulated by law; the machines are generally run by steam or electric power, and, as a rule, work is more regularly distributed over the entire year.

In contradistinction to the task system, which originated and was peculiar to New York city and surroundings, and which could only thrive in the tenement or small shop, the most modern system is called the "Boston" or "factory" system, though it is not confined to Boston, but is found in Philadelphia, Chicago, and elsewhere. Even in New York, where it has had much to overcome in its fight against the task system, it has been slowly gaining foothold. Under this system the subdivision of labor has been extended to a minute detail far beyond that used in the task system. Where under the latter system 20 persons are employed in a shop, the factory will employ 200. The "set" work of the task system can be extended indefinitely; instead of the five people whom it requires to produce a coat under the task system, almost any number can be used in the production of one under the Boston system. Factories exist where more than 100 persons are engaged in the making of one coat, a procedure whereby it is possible to introduce a large number of unskilled workers to work with a few skilled ones. As each worker has only a limited task to perform, he soon becomes efficient in it and is able to turn out his work with extraordinary speed; at the same time he is not able to make any other part of a garment. This specialization of work, while it makes it possible for the worker to learn his trade in a short time, puts him under complete control of the manu-

facturer, who is more independent of a worker making only a small detail of the garment than of one making the entire garment. The advantages of this system, however, are very pronounced. Weekly wages take the place of the task or piece price; the hours are consequently better regulated, as it would not benefit the worker to work longer hours, and, as a rule, the working places are kept in a better condition.

The most obnoxious of all systems under which clothing is produced is the "home work." Before the shops of the sweating and Boston systems came into existence, nearly all the goods were taken into the living rooms of the workers and made up into clothing. Thus the garments were exposed to the filth and possible disease which sometimes prevailed in these homes, and the hours of work could be extended without limit. One of the objectionable features of the ready-made clothing industry is that in very few shops are the garments entirely finished; instead of being finished in the shops they are usually taken into the homes of Italian women, where trousers and coats are felled and finished and buttons are sewed on. Certain kinds of the home work have had a very demoralizing influence on the wages of the industry. In many cities married women in comfortable circumstances are willing to do sewing to earn "pin money." Not being dependent on the work for a living, they will do it for a mere pittance. The number of women doing this is so considerable that it has had its effect on the wages paid in the industry.

While the conditions in the clothing industry are still far from satisfactory, a considerable change for the better has taken place during the latter part of the last decade. This change is attributable to several causes, but chiefly to the enactment and enforcing of laws for the regulation of the places where the manufacture of clothing is carried on.

The greatest objection to the sweating system is the distribution of the material over a wide territory, whereby the clothing is manufactured under unsanitary conditions. The great difficulty has always been to frame legislative acts in such a manner that the heart of the evil—the home work—could be reached. The first state to pass laws regulating the sweating system was Massachusetts, and the laws of that state have been copied to some extent by the states of New York and Pennsylvania.

The first law enacted in Massachusetts was in 1891. It was amended in 1894 and again in 1898. The principal features of the law as it now stands are the following: That no manufacturing of clothing shall take place in any room in a tenement unless a license is procured; that the factory inspector shall ascertain the condition of such room before the license is granted; that every firm employing a person to manufacture clothing in any room in a tenement shall keep a register of the names and addresses of the persons employed and shall be satisfied that they have obtained a license; that only

members of the family can be employed in such room; and finally that whoever sells or exposes for sale any clothing made in a tenement house used as a workshop shall have affixed to each garment a tag or label upon which shall be legibly printed or written the words "tenement made." The enforcement of this law, and especially of the last feature of it, has had the effect not only of putting a stop to the evils of the sweating system, except as far as wages are concerned, in the city of Boston, but also of driving the manufacture of clothing away from the state of Massachusetts, where it formerly flourished, and into the neighboring states, especially the state of New York.

In the state of New York a law similar to the one in force in Massachusetts has been enacted, with the exception of the compulsory label. Instead of this the New York law requires that when clothing is found in unlicensed places or in places where the law as to the number of workers or sanitary conditions is violated, the factory inspector shall affix a label containing the words "tenement made." When the law is complied with or the abuses corrected, the inspector removes the label. One of the features of the New York law is the legalizing of home work by providing that the factory inspector shall issue a license to anyone whose premises can stand preliminary inspection. Thus the material for the clothing is legally sent into thousands of tenements. The enforcement of this law in New York has had the effect of driving the largest part of the actual manufacture of clothing out of the tenements and into shops used only for manufacture, and at the same time of distributing the so-called "finishing" of pants and coats over a still greater area than formerly. The new tenement law in New York has also had a beneficial influence over the conditions under which clothing is manufactured, as the inspectors under this law report violations of the sanitary laws and thus effectively reduce the work of the factory inspectors.

The law of Pennsylvania contains nearly the same features as the New York law, with the addition that the factory inspector may seize and destroy any clothing that is being made in an unsanitary place. The strict enforcement of this law has greatly improved the conditions in Philadelphia. The result has been that many of the manufacturers who used to manufacture in their own factories have given up so doing and send all their goods out to be manufactured in small shops. In a certain respect, however, they are held responsible, as they are obliged to supply the factory inspector with a list of the places to which they give work, and upon advice from the inspector that the law is violated in any place the manufacturers are held responsible if they give more work to the place.

As the laws of New Jersey are not as strict as those of Pennsylvania, Philadelphia clothing manufacturers now send their goods into New Jersey to be manufactured.

The laws of Illinois and Missouri, while differing very little from those of New York, do not give the inspector the power that it is essential he should have to be able to enforce the law. The only other states which have any laws pertaining to the manufacture of clothing are Ohio, Maryland, Michigan, and New Jersey.

The manufacture of men's and children's clothing as a factory product is now subdivided into the following classes: Coats, vests, pants, knee-pants, and children's coats. As a rule a contractor will manufacture only one of these classes at a time. It is very rare to find a shop where the entire suit is made. The coats may be made in New York city, the vests in Williamsburg, N. Y., and the pants in Newark, N. J., and the different garments will be assembled into one suit when they reach the wholesale merchant. When the manufacturer does his own manufacturing, the entire suit is, as a rule, made inside the factory. When the coats and pants are made by contractors, the "finishing" is almost without exception done in the tenements. Probably half the number of coats produced are still made under the task system.

Machines for cutting the cloth were introduced about 1870. The first of these were long knives operating perpendicularly like saws and cutting through a number of thicknesses of cloth; later, these knives were replaced with circular disks, operating like buzz saws, which will cut through almost any number of thicknesses that may be required.

Many devices have been added to the sewing machines, whereby the work can be performed in a much shorter time than formerly. The most important change, however, is from machines driven by foot power to those driven by steam, electric, or other power. The substitution of artificial for human power has been very slow, but as can be seen from the figures given in Table 11, a great improvement has taken place during the last decade. Of 4,867 establishments in 1890 only 404, or 8.3 per cent, used artificial power. The total number of horsepower then reported was 6,230, or an average of 15 horsepower for each establishment using power. Out of 5,731 establishments in 1900, 1,519, or 26.5 per cent, reported power, and the number of horsepower was 14,178, making an average of 9 horsepower for each establishment using power. Thus, while the number of establishments increased only 17.7 per cent, the number of horsepower employed in the industry increased 127.6 per cent. In New York it is only in the largest factories and shops that such a substitution has taken place, and one can find large buildings occupied entirely by shops for the manufacture of clothing, where the power for the drift of the machines is entirely supplied by the operators. Philadelphia has been more progressive in this respect, and the majority of the shops there are now supplied with power.

In all the smaller shops the pressing is still done by

irons heated on open stoves, which contribute to the vitiation and oppressiveness of the atmosphere. In the factories and in many of the larger shops pressing irons heated by gas or electricity are now used.

The manner in which the manufacture of clothing has been revolutionized by the introduction of machinery and improved methods, enabling a smaller number of workers to turn out a considerably larger quantity of clothing in a much shorter time than formerly, is forcibly illustrated by the following comparison between the results obtained in a factory using modern methods and an old-fashioned shop.<sup>1</sup> As these modern methods can be successfully applied only in the larger shops they would seem to be a conclusive argument in favor of the manufacturers running their own factories instead of giving out the work to contractors. As examples for comparison were taken medium grade coats, cheap grade jackets, overalls, medium grade trousers, cottonade trousers, and medium grade vests.

Considering the medium-grade garments first, it was found that in the operation of shrinking the cloth a steam sponging machine was used in the factory instead of the sponge and flatiron used under the hand method of production. By the use of this machine the cloth for 100 coats was prepared by two persons in one hour and forty-eight minutes, as against eleven hours and forty minutes required by the hand method. For 100 pairs of trousers the time was one hour and eight minutes, as against eight hours and twenty minutes by the hand method. For a like number of vests the time required was twenty minutes, against three hours and twenty minutes. By using cutting machines cutting 16 thicknesses the three persons engaged would use four hours and thirty-two and five-tenths minutes in cutting the cloth for the coats, against thirty-three hours and twenty minutes when the material was cut by hand. For the trousers the respective times required would be two hours and fifty-eight minutes and sixteen hours and forty minutes, and for the vests one hour and thirty-four minutes and eleven hours and forty minutes. The sewing of the seams shows, of course, the greatest saving. While it required one thousand hours to sew the coats by hand, it took only sixty-six hours and forty minutes when the same seams were made by the use of the sewing machine. For the trousers the time consumed by the machine and hand methods was four hundred and thirty-three hours and twenty minutes and sixty-four hours and seventeen and one-tenth minutes, respectively, and for the vests four hundred and sixteen hours and forty minutes, and sixty-four hours and thirty-five minutes. In cutting the buttonholes the saving in time on the coats was from three hours and twenty minutes to seventeen and five-tenths minutes, and for the vests from three hours and twenty minutes to twenty-one and three-tenths minutes. Working buttonholes by hand required two hundred and seventy-

<sup>1</sup>Report of the Commissioner of Labor for 1898, Part 1, page 197.

five hours for the coats, and when done by machine the time occupied was but six hours and seventeen and eight-tenths minutes; for the trousers, the time was reduced by the new method from sixty-three hours and twenty minutes to two hours and forty-three and three-tenths minutes; and for the vests from seventy-five hours to four hours and ten minutes. The time for certain other operations was correspondingly reduced. One device may be specially mentioned: the machine for putting buttons on trousers, by which the time required for this operation was reduced from fifty hours to six hours and one and seven-tenths minutes.

In the cheaper grades of clothing the comparison was made for 12 dozen jackets, 12 dozen overalls, and 12 dozen cottonade trousers. Considering the jackets first, the cutting required thirty-six hours under the hand method, as against four hours and thirty minutes under the machine method. The making of the garments by hand occupied seven hundred and twenty hours, while by using the sewing machine less than one-tenth of the time, or seventy hours, was required. Buttonholes were cut and worked in sixty hours, and buttons sewed on in twenty-four hours under hand methods, while machines performed the same work in four hours and thirty minutes, and six hours, respectively.

For overalls the reductions were as follows: Cutting, from twelve to three hours; making of garments, from six hundred and thirty-six to forty-eight hours; making the buttonholes, from fifty-four to four hours and ten minutes; and putting on the buttons, from eighteen to four hours and thirty minutes.

The saving in time in making the cottonade trousers was considerable. The cutting of the material required forty-eight hours under the hand method as against five hours and twenty-four minutes under the machine method. The making of the garments required one thousand one hundred and fifty-two hours by hand work, while with the sewing machines, driven by artificial power, the work was accomplished in ninety hours. The making of the buttonholes took ninety-six hours by hand and three hours and thirty-six minutes by machine. It took thirty-six hours to sew on buttons, while they were riveted on by the button machine in four hours and forty-eight minutes.

Counting all operations in the manufacture, the time required for making 12 dozen overalls was reduced from seven hundred and twenty to seventy-one hours and ten minutes, and for the cheaper grades of trousers from one thousand four hundred and forty hours to one hundred and forty-eight hours and thirty minutes. The reduction in the time required for making 12 dozen jackets was from eight hundred and forty hours to ninety-seven hours and fifteen minutes. In the medium grades the saving in time on the vests was from nine hundred and twenty-one hours and forty

minutes to two hundred and sixty hours and twenty-eight and six-tenths minutes; on trousers from one thousand one hundred and twenty-five hours and forty minutes to four hundred and seventeen hours and fifty-two minutes; and on coats from three thousand three hundred and one hours and forty-three and three-tenths minutes to one thousand three hundred and seventy-five hours and twenty and three-tenths minutes.

#### WOMEN'S CLOTHING.

The manufacture of women's clothing as an industry of any importance did not start until the early sixties; at that time only outer garments, like cloaks and mantillas, were manufactured. Prior to 1880 the trade of women's ready-made clothing was confined almost entirely to cloaks. In the beginning of the eighties an additional branch of the industry, known as ladies' suits, was established. During the last decade not only ladies' suits and cloaks but all the different articles which go under the collective name of lingerie have been put on the market ready-made, and of the last class only a very small proportion is now custom made.

The manufacture of women's clothing as a factory-made article is carried on under very different conditions from that of men's, although the development of the industry has been on lines somewhat similar to those prevailing in the other branch of the clothing industry.

At first only the cheapest grade was manufactured, but before long expensive material was made up into ready-to-wear garments, and at the present time garments, varying in price from the cheapest to the most expensive, can be bought at a moment's notice. Another branch of the industry which has developed during the last decade is the manufacture of shirt waists. All grades of women's underwear is now almost exclusively produced as a factory product.

The conditions in the cloak industry differ materially from those existing in the ready-made clothing industry. The task system has never been applied in the making of ladies' cloaks. The work is mostly piece-work, but work by the week is also common. Most of the cloaks are manufactured in small shops.

An important change in the management of this branch of the industry has taken place during the last decade. A considerable number of those who in 1890 were contractors working for the manufacturers have become manufacturers themselves. Very little capital is required to start in the business of a cloak manufacturer. The contractor with experience in the trade starts a shop and manufactures the goods as it is ordered by the retail trade. When the season approaches he will borrow enough money to enable him to buy the needed materials, giving a mortgage on orders as security. As he will not be under an expense even approaching that incurred by the larger manufacturer, who has to pay large salaries to designers and cutters, he is able

to undersell him to a considerable degree. The result of this has been that many of the larger cloak manufacturers have been either driven out of the business or have opened retail stores for the sale of their own manufacture.

A greater degree of skill is required of the workers in this branch of the industry than in the branch which has to do with the manufacture of men's clothing, but, nevertheless, a large number of immigrants have entered it, depressing the wages to a considerable extent. During the last decade shops employing Polish and Bohemian women have been started by contractors in Chicago. The women have almost entirely displaced the men on all the cheaper grades of work, as they work for about two-thirds the wages paid the men.

The cloak makers have been organized with more or less success since 1884.

Another branch of the industry that the former contractors have taken up is the making of women's suits, the manufacture of which has increased to a large extent during the last ten years. In this industry the garments are also made in different shops; thus the waists are made in one place and the skirts in another. Shirt waists are generally made in larger shops, as is also ladies' underwear. The shirt-waist workers, who are generally women, work in sets. As a rule it takes 10 persons to produce the waists in the factories.

Seven machine operators make different parts, one girl sews on the buttons, one makes the buttonholes, and one irons the waists.

In the manufacture of women's clothing, as in the other main branch of the industry, artificial power gained considerable ground during the decade. In almost all factories for shirt waists and underwear steam or electric power is now used. Of 1,224 establishments in 1890, only 138, or 11.3 per cent, used artificial power, having 1,478 horsepower. In 1900, out of 2,701 establishments not less than 979, or 36.2 per cent, used power, having 10,245 horsepower. The average horsepower per establishment was 10.7 in 1890, and 10.4 in 1900.

Taking the manufacture of ready-made clothing for men, women, and children as a whole, there has been a considerable change for the better during the latter part of the last decade, but as long as it remains an industry which is carried on to a large extent by the contracting system, there can be no certainty that the improvements will be of a lasting character. The remedies which have proven themselves most effective have been strict factory and license laws.

In conclusion, Table 24 is presented, which is a comparative summary for 1890 and 1900 of all the branches of textile clothing manufacture, including tailoring and dressmaking.

TABLE 24.—COMPARATIVE SUMMARY: TEXTILE CLOTHING MANUFACTURE, 1890 AND 1900.

|  | Year. | United States. | Total men's.  | Clothing, men's, factory product. | Clothing, men's, custom work and repairing. | Shirts.      | Furnishing goods, men's. |
|--|-------|----------------|---------------|-----------------------------------|---|--------------|--------------------------|
| Number of establishments .....                 | 1900  | 48,497         | 29,470        | 5,781                             | 22,184                                      | 986          | 470                      |
|  | 1890  | 42,485         | 20,113        | 4,867                             | 13,591                                      | 869          | 586                      |
| Capital .....                                  | 1900  | \$384,969,694  | \$213,510,177 | \$120,620,351                     | \$52,167,653                                | \$20,312,412 | \$20,163,222             |
|  | 1890  | \$311,820,617  | \$209,125,560 | \$128,253,547                     | \$54,100,273                                | \$14,273,611 | \$12,299,011             |
| Salaried officials, clerks, etc., number ..... | 1900  | 30,206         | 18,326        | 10,002                            | 4,187                                       | 2,041        | 2,135                    |
|  | 1890  | 54,420         | 29,563        | 11,415                            | 14,064                                      | 1,543        | 1,433                    |
| Salaries .....                                 | 1900  | \$29,765,995   | \$17,618,002  | \$10,404,409                      | \$3,313,029                                 | \$1,734,814  | \$2,160,142              |
|  | 1890  | \$42,596,195   | \$26,697,789  | \$11,235,807                      | \$12,305,448                                | \$1,511,108  | \$1,511,823              |
| Wage-earners, average number .....             | 1900  | 506,809        | 259,751       | 120,950                           | 69,149                                      | 33,492       | 30,216                   |
|  | 1890  | 446,222        | 269,255       | 144,926                           | 71,170                                      | 31,207       | 20,778                   |
| Total wages .....                              | 1900  | \$186,995,568  | \$100,540,110 | \$45,505,773                      | \$33,596,967                                | \$11,425,101 | \$9,630,077              |
|  | 1890  | \$162,074,704  | \$102,985,835 | \$51,075,837                      | \$36,245,655                                | \$9,193,495  | \$6,078,026              |
| Men, 16 years and over .....                   | 1900  | 180,615        | 108,166       | 48,077                            | 48,748                                      | 6,604        | 4,311                    |
|  | 1890  | 176,280        | 128,701       | 67,786                            | 50,854                                      | 5,437        | 4,152                    |
| Wages .....                                    | 1900  | \$99,694,642   | \$60,851,445  | \$27,323,965                      | \$27,900,632                                | \$3,213,291  | \$2,214,487              |
|  | 1890  | \$93,180,848   | \$63,551,874  | \$33,292,293                      | \$30,601,235                                | \$2,558,079  | \$1,897,994              |
| Women, 16 years and over .....                 | 1900  | 310,050        | 146,231       | 69,802                            | 19,533                                      | 31,074       | 25,233                   |
|  | 1890  | 262,433        | 188,055       | 75,621                            | 19,779                                      | 25,563       | 16,415                   |
| Wages .....                                    | 1900  | \$85,074,601   | \$38,932,639  | \$17,766,507                      | \$5,570,961                                 | \$3,102,976  | \$7,364,769              |
|  | 1890  | \$67,885,889   | \$34,131,186  | \$17,634,858                      | \$5,551,245                                 | \$6,608,890  | \$4,147,993              |
| Children, under 16 years .....                 | 1900  | 15,644         | 5,354         | 3,011                             | 368   | 814          | 622                      |
|  | 1890  | 7,509          | 2,499         | 1,519                             | 546   | 207          | 211                      |
| Wages .....                                    | 1900  | \$2,226,325    | \$756,026     | \$415,305                         | \$125,874                                   | \$108,834    | \$100,821                |
|  | 1890  | \$1,007,967    | \$303,275     | \$148,636                         | \$93,175                                    | \$27,026     | \$32,039                 |
| Miscellaneous expenses .....                   | 1900  | \$33,943,737   | \$59,614,238  | \$37,509,253                      | \$14,639,332                                | \$4,918,576  | \$2,460,838              |
|  | 1890  | \$45,234,094   | \$32,933,049  | \$20,460,045                      | \$7,913,423                                 | \$2,183,265  | \$2,330,360              |
| Cost of materials used .....                   | 1900  | \$423,676,821  | \$244,800,353 | \$145,295,243                     | \$52,348,641                                | \$23,662,317 | \$23,404,969             |
|  | 1890  | \$322,994,842  | \$210,410,586 | \$123,846,857                     | \$50,494,637                                | \$15,704,353 | \$15,230,572             |
| Value of products .....                        | 1900  | \$364,509,370  | \$508,181,398 | \$276,861,607                     | \$137,714,232                               | \$49,022,845 | \$43,902,162             |
|  | 1890  | \$276,856,413  | \$441,532,354 | \$251,019,609                     | \$126,219,151                               | \$33,633,593 | \$29,870,946             |

<sup>1</sup>Includes proprietors and firm members with their salaries; number only reported in 1900, but not included in this table.

<sup>2</sup>Includes custom work and repairing.

TABLE 24.—COMPARATIVE SUMMARY: TEXTILE CLOTHING MANUFACTURE, 1890 AND 1900—Continued.

|   | Year. | Clothing,<br>men's, fac-<br>tory product,<br>buttonholes. | Total,<br>women's. | Clothing,<br>women's, fac-<br>tory product. | Clothing,<br>women's,<br>dressmak-<br>ing. | Total mis-<br>cellaneous. | Hosiery and<br>knit goods. <sup>3</sup> | Hats<br>and caps. <sup>4</sup> |
|---|-------|---|--------------------|---|--|---------------------------|---|--------------------------------|
| Number of establishments .....                | 1900  | 149   | 17,180             | 2,701                                       | 14,479                                     | 1,847                     | 1,007                                   | 840                            |
|   | 1890  | 200   | 20,811             | 1,224                                       | 19,587                                     | 1,561                     | 824                                     | 737                            |
| Capital .....                                 | 1900  | \$246,539   | \$62,246,705       | \$48,431,544                                | \$13,815,221                               | \$109,212,692             | \$82,066,092                            | \$27,146,600                   |
|   | 1890  | \$190,118   | \$84,142,625       | \$21,259,528                                | \$12,883,097                               | \$68,552,432              | \$50,686,206                            | \$17,866,226                   |
| Salaried officials, clerks, etc., number..... | 1900  | 11  | 7,623              | 6,715                                       | 908  | 4,257                     | 2,831                                   | 1,426                          |
|   | 1890  | 208   | 21,844             | 2,859                                       | 18,985                                     | 3,013                     | 1,659                                   | 1,334                          |
| Salaries.....                                 | 1900  | \$5,608   | \$7,324,276        | \$6,573,618                                 | \$750,658                                  | \$4,823,717               | \$3,138,160                             | \$1,685,557                    |
|   | 1890  | \$134,103   | \$12,612,317       | \$3,384,515                                 | \$9,227,802                                | \$3,286,039               | \$1,711,291                             | \$1,574,728                    |
| Wage-earners, average number .....            | 1900  | 944   | 129,384            | 83,739                                      | 45,595                                     | 117,224                   | 83,691                                  | 33,533                         |
|   | 1890  | 1,165   | 87,762             | 39,149                                      | 48,613                                     | 89,205                    | 59,774                                  | 29,431                         |
| Total wages .....                             | 1900  | \$332,187   | \$46,988,554       | \$32,586,101                                | \$14,352,453                               | \$39,516,904              | \$24,434,497                            | \$15,082,467                   |
|   | 1890  | \$392,822   | \$28,574,006       | \$15,428,272                                | \$13,145,734                               | \$30,514,863              | \$16,613,970                            | \$13,900,893                   |
| Men, 16 years and over.....                   | 1900  | 426   | 30,488             | 26,109                                      | 4,379                                      | 41,961                    | 21,197                                  | 20,764                         |
|   | 1890  | 472   | 14,019             | 12,963                                      | 1,056                                      | 33,500                    | 14,375                                  | 18,685                         |
| Wages.....                                    | 1900  | \$199,069   | \$18,733,747       | \$15,790,572                                | \$2,943,175                                | \$20,109,450              | \$8,913,647                             | \$11,195,803                   |
|   | 1890  | \$201,773   | \$3,003,393        | \$7,386,955                                 | \$616,438                                  | \$16,626,031              | \$6,063,337                             | \$10,572,694                   |
| Women, 16 years and over.....                 | 1900  | 479   | 97,701             | 56,866                                      | 40,835                                     | 66,118                    | 53,825                                  | 12,253                         |
|   | 1890  | 677   | 37,077             | 25,913                                      | 47,104                                     | 51,301                    | 40,975                                  | 10,326                         |
| Wages.....                                    | 1900  | \$127,426   | \$28,039,073       | \$16,675,390                                | \$11,363,683                               | \$18,102,889              | \$14,295,602                            | \$3,806,287                    |
|   | 1890  | \$138,700   | \$20,476,565       | \$7,994,203                                 | \$12,482,362                               | \$13,278,133              | \$10,029,244                            | \$3,248,394                    |
| Children, under 16 years .....                | 1900  | 39  | 1,145              | 764   | 381  | 9,145                     | 8,669                                   | 476                            |
|   | 1890  | 16  | 606                | 273   | 393  | 4,344                     | 3,924                                   | 429                            |
| Wages.....                                    | 1900  | \$5,692   | \$165,734          | \$120,139                                   | \$45,595                                   | \$1,304,565               | \$1,224,248                             | \$30,317                       |
|   | 1890  | \$2,349   | \$94,048           | \$47,114                                    | \$46,934                                   | \$610,644                 | \$531,339                               | \$79,366                       |
| Miscellaneous expenses .....                  | 1900  | \$36,234  | \$15,075,888       | \$11,738,695                                | \$3,342,143                                | \$9,253,711               | \$6,627,724                             | \$2,625,887                    |
|   | 1890  | \$45,956  | \$6,797,612        | \$3,620,042                                 | \$3,177,570                                | \$5,548,433               | \$3,647,597                             | \$1,900,836                    |
| Cost of materials used.....                   | 1900  | \$98,178  | \$101,208,346      | \$84,704,592                                | \$16,503,754                               | \$77,659,122              | \$51,195,868                            | \$26,463,254                   |
|   | 1890  | \$84,167  | \$57,671,048       | \$34,277,219                                | \$23,393,329                               | \$54,912,708              | \$35,949,865                            | \$18,962,843                   |
| Value of products .....                       | 1900  | \$680,502   | \$207,695,573      | \$159,339,539                               | \$48,356,034                               | \$148,632,399             | \$95,834,792                            | \$52,797,697                   |
|   | 1890  | \$784,055   | \$125,235,751      | \$63,164,019                                | \$57,071,732                               | \$110,088,308             | \$67,446,788                            | \$42,641,529                   |

<sup>1</sup> Includes proprietors and firm members with their salaries; number only reported in 1900, but not included in this table.

<sup>2</sup> Includes custom work and repairing.

<sup>3</sup> Includes hand-knit goods.

<sup>4</sup> Includes fur hats and wool hats.

Table 24 shows that the total number of establishments in the United States engaged in the manufacture of textile clothing as a factory product, with the tailoring and dressmaking trades added, had increased 6,012 during the decade, from 42,435 to 48,497. The capital increased \$73,149,035, from \$311,820,599 to \$384,969,634; the total number of wage-earners, 60,087, from 446,222 to 506,309; the total wages paid, \$24,920,864, from \$162,074,704 to \$186,995,568; the miscellaneous expenses \$38,659,693, from \$45,234,094 to \$83,943,787; the cost of all materials used \$100,682,479, from \$322,994,342 to \$423,676,821, and the value of all products \$187,652,957, from \$676,856,413 to \$864,509,370.

A decrease in the number of establishments appeared in men's furnishing goods, buttonholes, and dressmak-

ing, while all the other branches showed an increase. It must be remembered that a very small proportion of buttonholes is made in separate factories. With the exception of men's clothing, factory product, and custom work, there was an increase in the capital employed in all the branches. The number of wage-earners increased in all the branches of the industry with the exception of men's clothing, factory product, custom work, and buttonholes, and women's clothing, dressmaking. With the exception of buttonholes and dressmaking, there was a considerable increase in the value of products for all the other branches of the industry. The decrease in the value of products for dressmaking was caused by the large increase in women's ready-made clothing.

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COLLARS AND CUFFS.

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# COLLARS AND CUFFS.

By ARTHUR L. HUNT.

The statistics presented in the following tables relate to establishments engaged in the manufacture of collars and cuffs, composed in whole or in part of linen, during the census year ending May 31, 1900. There was no separate classification for the manufacture of so-called linen collars and cuffs, the returns being included under one of two classifications, "shirts," or "furnishing goods, men's," and it was necessary to withdraw the schedules from these classifications in order to show separate data. Therefore, it is impossible to show comparative statistics for this industry for previous censuses.

In this connection it should be stated that the statistics presented in this report pertain exclusively to establishments engaged primarily in the manufacture of collars and cuffs, and reporting the same as their predominating product, and do not include returns from establishments engaged principally in the manufacture of shirts and men's furnishing goods, but manufacturing collars and cuffs as a subsidiary product. The number of dozens of shirts reported represents only such as were manufactured in connection with the collar and cuff industry. Owing to the fact that there was no separate classification for the industry, there was some difficulty encountered in the preparation of this report in presenting the entire number of establishments for which the value of collars and cuffs represented the predominating product. For this reason, the totals given in this report may not include the returns for every collar and cuff establishment, as such. Nevertheless, the figures given may be taken as fairly representing the totals for the industry.

Table 1 presents the principal features of the industry as returned for 1900.

TABLE 1.—SUMMARY: 1900.

|  |              |
|--|--------------|
| Number of establishments .....                 | 57           |
| Capital .....                                  | \$10,216,317 |
| Salaried officials, clerks, etc., number ..... | 508          |
| Salaries .....                                 | \$588,087    |
| Wage-earners, average number .....             | 17,115       |
| Total wages .....                              | \$5,658,969  |
| Men, 16 years and over, number .....           | 2,391        |
| Wages .....                                    | \$1,115,685  |
| Women, 16 years and over, number .....         | 14,543       |
| Wages .....                                    | \$4,515,856  |
| Children, under 16 years, number .....         | 181          |
| Wages .....                                    | \$27,428     |
| Miscellaneous expenses .....                   | \$1,128,887  |
| Cost of materials used .....                   | \$6,011,556  |
| Value of products .....                        | \$15,769,132 |

The industry became of commercial importance some years previous to 1850, and its growth since that date is demonstrated by reference to the number of establishments, capital invested, number of wage-earners, and

the value of the products, as given in Table 1. The size and general character of the establishments may be inferred from a computation of the averages for the above items. The average capital per establishment was \$179,234; the average number of wage-earners, 300, distributed as follows: Men, 42; women, 255; and children, 3; and the average value of product \$276,651. These averages indicate that in general the establishments engaged in this industry were of goodly proportions. This fact is further shown by Table 2, which is a summary of the establishments, grouped according to the number of wage-earners employed.

TABLE 2.—ESTABLISHMENTS CLASSIFIED BY NUMBER OF WAGE-EARNERS EMPLOYED, BY STATES: 1900.

|                                      | United States. | New York. | All other states. <sup>1</sup> |
|--------------------------------------|----------------|-----------|--------------------------------|
| Total number of establishments ..... | 57             | 54        | 3                              |
| No employees .....                   |                |           |                                |
| Under 5 .....                        | 5              | 5         |                                |
| 5 to 20 .....                        | 8              | 6         | 2                              |
| 21 to 50 .....                       | 11             | 11        |                                |
| 51 to 100 .....                      | 7              | 7         |                                |
| 101 to 250 .....                     | 8              | 7         | 1                              |
| 251 to 500 .....                     | 7              | 7         |                                |
| 501 to 1,000 .....                   | 6              | 6         |                                |
| Over 1,000 .....                     | 5              | 5         |                                |

<sup>1</sup> Includes establishments distributed as follows: Pennsylvania, 2; Vermont, 1.

Table 2 indicates that there was but one large establishment outside of the state of New York. The largest number, 11, was reported for the class employing 21 to 50 wage-earners. There were 8 establishments in each of the classes, 5 to 20, and 101 to 250; 7 each in the classes 51 to 100, and 251 to 500; 6 in the class, 501 to 1,000; and 5 employing over 1,000 wage-earners.

The firm and limited partnership form of organization predominates in this industry. Of the total number of establishments, 29, or 50.9 per cent were operated by firms or limited partnerships; 20, or 35.1 per cent, were conducted by individuals; and 8, or 14 per cent, were operated by incorporated companies.

Table 3 is a summary of the statistics of capital, with the per cent of each item to the total, for 1900.

TABLE 3.—CAPITAL: 1900.

|  | Amount.      | Per cent of total. |
|--|--------------|--------------------|
| Total .....                            | \$10,216,317 | 100.0              |
| Land .....                             | 808,347      | 8.0                |
| Buildings .....                        | 1,113,140    | 10.9               |
| Machinery, tools, and implements ..... | 964,863      | 9.4                |
| Cash and sundries .....                | 7,835,467    | 76.7               |

The sum reported for cash and sundries, including cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, constituted the principal item of capital, and formed 76.7 per cent of the total. The large per cent which this item formed of the total is due to the nature of the industry. Manufacturers are under the necessity of purchasing large quantities of cloth at the various seasons in order to keep abreast of the almost numberless changes in styles and designs. This, together with the numerous other items included under this subdivision, made it by far the largest item of capital. The value of machinery, tools, and implements, land, and buildings, all formed comparatively small per cents of the total. The use of machines has supplanted hand labor in nearly every department of the industry, not only in the factory but also in the laundry, and the value of machinery, tools, and implements in 1900 formed a

larger per cent of the total than did the value of buildings. A number of companies rented their works, as is evidenced by Table 5, and this fact is partially accountable for the comparatively small valuation of land and buildings. Furthermore, the nature of the business is such that but little heavy machinery is required, and factories may be many stories in height, obviating the necessity of much ground space; and as there is not much vibration to the machinery, the buildings are not necessarily of expensive construction. The figures given in Table 3 do not represent the capital stock of the establishments, but simply the actual value of the plants, together with the amounts required for working capital. It appears that to produce \$1 of gross products required 65 cents of capital.

Table 4 shows the total number of wage-earners, with wages, the number of men, women, and children, with wages, and the per cent of each to the total number for 1900.

TABLE 4.—WAGE-EARNERS: 1900.

| TOTAL, ALL CLASSES. |             | MEN, 16 YEARS AND OVER. |                    |             | WOMEN, 16 YEARS AND OVER. |                    |             | CHILDREN, UNDER 16 YEARS. |                    |          |
|---------------------|-------------|-------------------------|--------------------|-------------|---------------------------|--------------------|-------------|---------------------------|--------------------|----------|
| Average number.     | Wages.      | Average number.         | Per cent of total. | Wages.      | Average number.           | Per cent of total. | Wages.      | Average number.           | Per cent of total. | Wages.   |
| 17,115              | \$5,658,969 | 2,391                   | 14.0               | \$1,115,685 | 14,543                    | 85.0               | \$4,515,856 | 181                       | 1.0                | \$27,428 |

The general character of the industry relative to wage-earners is shown in Table 4. As indicated therein, the industry gives employment to few children. Collar and cuff making, with the exception of the cutting, upon which the men are engaged, is done mostly by women. It should be stated in this connection that the great majority of wage-earners are employed by the piece, and consequently any deductions regarding the average rate of wages from the figures presented in Table 4 would be inaccurate and misleading.

The making by home workers of some part of the collar or cuff is a peculiar and interesting phase of the manufacture. Since the inception of the industry, much of the work has been done at the homes of families, the members of which were either unable, on account of household duties, to take employment in a factory, or were unwilling to do so. It is stated that there is not a town within a radius of 30 miles of Troy, N. Y., wherein a portion of the female population is not engaged in some part of collar and cuff manufacture. It is estimated that at least one-half of the population of Lansingburg, which is now a part of Troy, are directly dependent on collars, cuffs, and shirts for labor. In West Troy, Bath, and Greenbush, large numbers of females are engaged at home on collar work. Albany also receives large quantities of work to be distributed to women and girls residing within the city limits.

The work sent to these places is usually "turning" and "pasting," as this work must be carefully handled on its return, whereas if sent to more distant places the "turning" would be valueless on account of being pressed out of shape. The people of more distant points are employed mostly in "buttonholing." This work goes to Salem, Greenwich, and Cambridge, in Washington county; as far as Chatham, in Columbia county; and to Pittstown, Valley Falls, Hoosic Falls, Sandlake, Grafton, Stephentown, and various villages between these places. Transportation of the goods to and from the factories is effected either by stage drivers or by carriers who collect the work and come to town to deliver it.

The personnel of the operatives in the factories of Troy is much above the average. The women and girls employed are bright and intelligent, and nearly all of them are natives of Troy or of the immediate vicinity. They seem to have collars and cuffs bred in the bone, and many of them have been trained for years to perfect some little detail of collar or cuff making which may give to that make a superiority that is characteristic of the brand. To these facts may be attributed, to a large extent, the localization of the industry in and about Troy.

Table 5 shows the several items of miscellaneous expenses, with the per cent of each to the total, for 1900.

TABLE 5.—MISCELLANEOUS EXPENSES: 1900.

|  | Amount.     | Per cent of total. |
|--|-------------|--------------------|
| Total .....  | \$1,128,887 | 100.0              |
| Rent of works .....  | 78,588      | 7.0                |
| Taxes, not including internal revenue .....  | 14,188      | 1.2                |
| Rent of offices, insurance, interest, repairs, advertising, and other sundries ..... | 672,829     | 59.6               |
| Contract work .....  | 363,282     | 32.2               |

The successful manufacture of collars and cuffs necessitates the expenditure of large sums for advertising purposes. Further, nearly all of the large establishments maintain offices in several of the larger cities of the country. Quite naturally, then, the amount paid for rent of offices and all other sundries not elsewhere reported, including advertising, formed the major part of miscellaneous expenses. That the amount paid for contract work constituted nearly one-third of the total reported for miscellaneous expenses is a noteworthy fact and is characteristic of the industry. This item does not include the amounts paid to home workers for piecework, as described in connection with Table 4.

Table 6 is a summary of the quantity and cost of the different materials, with the per cent of each item to the total quantity and cost, for 1900.

TABLE 6.—QUANTITY AND COST OF MATERIALS: 1900.

|  | Square yards. | Cost.       | Per cent of total |       |
|--|---------------|-------------|-------------------|-------|
|  |               |             | Quantity.         | Cost. |
| Total .....                              |               | \$6,011,556 |                   | 100.0 |
| Cloth .....                              | 60,817,101    | 5,251,237   | 100.0             | 87.4  |
| Cotton .....                             | 57,602,200    | 4,255,930   | 94.7              | 70.8  |
| Linen .....                              | 3,214,901     | 995,307     | 5.3               | 16.6  |
| Buttons, thread, ribbon, tape, etc. .... | 199,240       | 199,240     |                   | 3.3   |
| Fuel .....                               |               | 64,862      |                   | 1.1   |
| Rent of power and heat .....             |               | 8,941       |                   | 0.1   |
| Mill supplies .....                      |               | 50,459      |                   | 0.8   |
| All other materials .....                |               | 306,955     |                   | 5.1   |
| Freight .....                            |               | 129,862     |                   | 2.2   |

In the manufacture of collars, cuffs, and shirts both cotton and linen are used. Table 6 shows that the quantity of cotton cloth formed 94.7 per cent of the total number of square yards of cloth used. Attention should be called to the fact that, as indicated in Table 7, the value of shirts constituted over one-third of the value of products, and in their manufacture cotton cloth is the principal material used. The average cost of cotton cloth per square yard was 7.4 cents and of linen cloth 31 cents. The average cost is obtained from the totals of the whole number of establishments

from which reports were received; in many instances the materials were bought delivered, and therefore the average can not be assumed to be the price paid by any particular establishment.

The cost of "All other materials" included the amount expended for boxes, cases, and numerous other incidentals required to prepare the product for the market.

Table 7 is a summary of the value of products, the number of dozens, and the value of collars and cuffs, shirts, and shirt waists, and the per cent of each to the total value for 1900.

TABLE 7.—QUANTITY AND VALUE OF PRODUCTS: 1900.

|                          | Quantity (dozens). | Value.       | Per cent of total value. |
|--------------------------|--------------------|--------------|--------------------------|
| Total .....              |                    | \$15,769,132 | 100.0                    |
| Collars and cuffs .....  | 10,086,045         | 9,077,700    | 57.6                     |
| Shirts .....             | 858,868            | 5,864,671    | 37.2                     |
| Shirt waists .....       | 81,948             | 650,228      | 4.1                      |
| All other products ..... |                    | 176,533      | 1.1                      |

As shown by Table 7, the total value of products was \$15,769,132. The extent to which the manufacture of shirts is carried on in connection with the collar and cuff industry is exemplified by this table. The value of collars and cuffs was \$9,077,700, or 57.6 per cent of the total, and the value of shirts was \$5,864,671, or 37.2 per cent of the total. The number of collars and cuffs was 10,086,045 dozens, or in actual numbers, 121,032,540, and the number of shirts was 858,868 dozens, or 10,306,416. Attention should again be directed to the fact that the above figures do not represent the total quantities of collars and cuffs manufactured during the census year, but only those made by establishments which reported collars and cuffs as their principal product. No attempt was made to secure the quantities manufactured by establishments engaged primarily in the manufacture of shirts, as collars and cuffs are principally made by them to match the shirt. Further, the number of dozens of shirts represents only the quantity manufactured in connection with the collar and cuff industry, and therefore constituted only a small percentage of the total number manufactured by establishments engaged principally in the manufacture of shirts. The value of shirt waists and "all other products" formed but relatively small per cents of the total.

Table 8 shows the totals for Troy and other cities in New York, in comparison with the state as a whole, and with the United States.

TABLE 8.—COMPARATIVE SUMMARY OF STATISTICS FOR TROY AND OTHER CITIES OF NEW YORK, FOR NEW YORK STATE, AND FOR THE UNITED STATES: 1900.

|  | United States. | NEW YORK STATE, |                                  |              |                          |                            |                          |
|--|----------------|-----------------|----------------------------------|--------------|--------------------------|----------------------------|--------------------------|
|  |                | Total.          | Per cent of United States total. | Troy.        |                          | Other cities. <sup>1</sup> |                          |
|  |                |                 |                                  | Total.       | Per cent of state total. | Total.                     | Per cent of state total. |
| Number of establishments .....                 | 57             | 54              | 94.7                             | 29           | 53.7                     | 25                         | 46.3                     |
| Capital .....                                  | \$10,216,317   | \$10,176,067    | 99.6                             | \$8,768,337  | 86.2                     | \$1,407,730                | 13.8                     |
| Salaried officials, clerks, etc., number ..... | 508            | 499             | 98.2                             | 412          | 82.6                     | 87                         | 17.4                     |
| Salaries .....                                 | \$588,087      | \$574,850       | 98.6                             | \$489,939    | 85.2                     | \$84,911                   | 14.8                     |
| Wage-earners, average number .....             | 17,115         | 17,012          | 99.4                             | 14,822       | 87.1                     | 2,190                      | 12.9                     |
| Total wages .....                              | \$5,658,969    | \$5,638,035     | 99.5                             | \$4,956,427  | 88.0                     | \$876,608                  | 12.0                     |
| Men, 16 years and over, average number .....   | 2,391          | 2,374           | 99.3                             | 2,013        | 84.8                     | 361                        | 15.2                     |
| Wages .....                                    | \$1,115,685    | \$1,106,907     | 99.2                             | \$941,500    | 85.1                     | \$165,407                  | 14.9                     |
| Women, 16 years and over, average number ..... | 14,543         | 14,459          | 99.4                             | 12,666       | 87.6                     | 1,793                      | 12.4                     |
| Wages .....                                    | \$4,513,850    | \$4,499,133     | 99.6                             | \$3,993,309  | 88.8                     | \$505,824                  | 11.2                     |
| Children, under 16 years, average number ..... | 181            | 179             | 98.9                             | 143          | 79.9                     | 36                         | 20.1                     |
| Wages .....                                    | \$27,428       | \$27,055        | 98.6                             | \$21,618     | 79.9                     | \$5,437                    | 20.1                     |
| Miscellaneous expenses .....                   | \$1,128,887    | \$1,118,903     | 99.1                             | \$984,507    | 88.0                     | \$134,396                  | 12.0                     |
| Cost of materials used .....                   | \$6,011,556    | \$5,992,425     | 99.7                             | \$5,064,539  | 84.5                     | \$927,886                  | 15.5                     |
| Value of products .....                        | \$15,769,132   | \$15,703,641    | 99.6                             | \$13,400,196 | 85.7                     | \$2,243,345                | 14.3                     |
| Collars and cuffs:                             |                |                 |                                  |              |                          |                            |                          |
| Value .....                                    | \$9,077,700    | \$9,020,562     | 99.4                             | \$8,073,271  | 89.5                     | \$947,291                  | 10.5                     |
| Dozen .....                                    | 10,086,045     | 10,011,650      | 99.3                             | 8,881,400    | 88.7                     | 1,130,250                  | 11.3                     |
| All other products .....                       | \$6,691,432    | \$6,682,979     | 99.9                             | \$5,386,925  | 80.6                     | \$1,296,054                | 19.4                     |

<sup>1</sup>Includes establishments distributed as follows: Albany, 9; Glens Falls, 6; New York, 7; Cohoes, 1; Malone, 1; Schenectady, 1. (See Table 9.)

Table 8 indicates the extent to which the industry is local and peculiar to the state of New York, and especially to Troy. The industry is practically confined to the state of New York and is localized in and about Troy. Of the total number of establishments returned for the state, 29, or 53.7 per cent, were located in that city. The capital reported for Troy was \$8,768,337, or 86.2 per cent, and the wage-earners formed 87.1 per cent of the state total. Of the remaining items not one formed less than 80 per cent of the state total. The large per cent of the total capital and number of wage-earners in comparison with the smaller per cent of the number of establishments shows the size of the Troy establishments in comparison with those of the rest of the state.

The average capital and average number of wage-earners of the establishments located in Troy and in the other cities shed further light upon this subject. The average capital per establishment for Troy was \$302,356 and the average number of wage-earners 511, as compared with an average capital of \$17,159 and an average number of wage-earners of 88 for the other cities of the state. The value of products formed 85.7 per cent, and the number and value of collars and cuffs was 89.5 per cent, of the total for the state.

This industry resembles the manufacture of leather gloves and mittens in its tendency to centralize in one community; and the causes of the localization are analogous, as both were due to the circumstances connected with the inception of the industries in this country. The historical sketch which follows indicates that the first collars and cuffs were made in Troy, and as the industry became a factor in the commercial world, the number of families which became dependent upon it steadily increased, until nearly every one within a radius of 25 or 30 miles was vitally interested in the manufacture of collars and cuffs. Nearly every factory is either owned or controlled by residents of Troy, most of whom were at one time employed in the factories, and who, by their enterprise and energy, have become managers or owners of establishments. The young women, even after leaving the factory to assume the responsibilities of the household, continue to "turn," "paste," or "buttonhole" collars and cuffs during their leisure hours. Thus circumstances have continued to make this industry local.

Collars and cuffs are manufactured in other cities in New York to some extent, but principally within a short distance of Troy. The statistics for these cities are shown in Table 9.

TABLE 9.—STATISTICS OF CITIES OF NEW YORK STATE, EXCLUSIVE OF TROY: 1900.

|                                 | Rank, by value of products. | Number of establishments. | Capital.    | SALARIED OFFICIALS, CLERKS, ETC. |           | WAGE-EARNERS.   |           |
|---------------------------------|-----------------------------|---------------------------|-------------|----------------------------------|-----------|-----------------|-----------|
|                                 |                             |                           |             | Number.                          | Salaries. | Average number. | Wages.    |
| Total .....                     |                             | 25                        | \$1,407,730 | 87                               | \$84,911  | 2,190           | \$676,608 |
| Glens Falls .....               | 1                           | 6                         | 518,462     | 46                               | 37,597    | 878             | 200,034   |
| Albany .....                    | 2                           | 9                         | 373,549     | 15                               | 16,804    | 591             | 193,268   |
| New York .....                  | 3                           | 7                         | 140,148     | 22                               | 18,160    | 189             | 77,922    |
| Other cities <sup>1</sup> ..... |                             | 3                         | 375,571     | 4                                | 12,350    | 532             | 205,444   |

TABLE 9.—STATISTICS OF CITIES OF NEW YORK STATE, EXCLUSIVE OF TROY: 1900—Continued.

|                                 | Miscellaneous expenses. | Cost of materials used. | PRODUCTS.    |                    |           |         |             |                     |
|---------------------------------|-------------------------|-------------------------|--------------|--------------------|-----------|---------|-------------|---------------------|
|                                 |                         |                         | Total value. | Collars and cuffs. |           | Shirts. |             | All other products. |
|                                 |                         |                         |              | Dozens.            | Value.    | Dozens. | Value.      | Value.              |
| Total .....                     | \$134,396               | \$927,886               | \$2,243,345  | 1,130,250          | \$947,291 | 183,622 | \$1,094,849 | \$201,205           |
| Glens Falls .....               | 46,196                  | 284,591                 | 720,982      | 453,069            | 897,912   | 35,762  | 292,370     | 30,700              |
| Albany .....                    | 25,725                  | 200,107                 | 602,808      | 281,744            | 210,679   | 61,440  | 244,104     | 143,025             |
| New York .....                  | 19,343                  | 150,365                 | 297,415      | 194,437            | 147,250   | 85,720  | 128,625     | 21,540              |
| Other cities <sup>1</sup> ..... | 43,132                  | 292,823                 | 622,140      | 201,000            | 191,450   | 50,700  | 429,750     | 940                 |

<sup>1</sup> Includes establishments distributed as follows: Cohoes, 1; Malone, 1; Schenectady, 1.

Table 9 shows that Glens Falls led the remaining cities in the value of products, although Albany ranked first in the number of establishments. New York followed Albany in the number of establishments and also in the value of products. The total output of collars and cuffs for these cities is insignificant in comparison with the number reported for Troy.

Table 10 shows the imports of collars and cuffs, composed in whole or in part of linen, for each year from 1890 to 1900, inclusive, according to the reports of the Bureau of Statistics, Treasury Department.

TABLE 10.—COLLARS AND CUFFS, COMPOSED IN WHOLE OR IN PART OF LINEN, IMPORTS FOR CONSUMPTION: 1890 TO 1900, INCLUSIVE.

| YEARS.    | Dozens. | Value.   | YEARS.    | Dozens. | Value.    |
|-----------|---------|----------|-----------|---------|-----------|
| 1900..... | 48,280  | \$56,388 | 1897..... | 97,575  | \$103,608 |
| 1899..... | 55,448  | 60,479   | 1896..... | 107,849 | 120,017   |
| 1898..... | 66,839  | 70,008   | 1895..... | 111,136 | 133,457   |

TABLE 10.—COLLARS AND CUFFS, COMPOSED IN WHOLE OR IN PART OF LINEN, IMPORTS FOR CONSUMPTION: 1890 TO 1900, INCLUSIVE—Continued.

| YEARS.    | Dozens. | Value.   | YEARS.    | Dozens.          | Value.           |
|-----------|---------|----------|-----------|------------------|------------------|
| 1894..... | 83,679  | \$87,854 | 1891..... | 40,089           | \$45,022         |
| 1893..... | 89,138  | 93,705   | 1890..... | ( <sup>1</sup> ) | ( <sup>1</sup> ) |
| 1892..... | 78,328  | 87,285   |           |                  |                  |

<sup>1</sup> Not separately reported prior to 1891.

The fluctuations in the imports of collars and cuffs are shown in the above table. It appears that from 1891 to 1895, inclusive, with the exception of 1894, the imports steadily increased. Since 1895 the decrease has been more rapid than was the increase prior to that date, until in 1900 the figures were only slightly in excess of those reported for 1891. They are so insignificant compared with the American manufacture that it may be said that nearly all of the collars and cuffs used in this country are of home manufacture.

HISTORICAL AND DESCRIPTIVE.

The history of collar manufacture in this country dates from its inception in Troy, N. Y., about seventy-five years ago. At that date shirts were made with collars attached; and it is stated that the wife of a Troy blacksmith made for sale the first separate collar, which was cut with scissors on a paper pattern. The making of detachable collars was naturally regarded as a great reform in men's wear, and it attracted the attention of Mr. Ebenezer Brown, a retired Methodist minister, who at that time was the proprietor of a small dry goods store. He it was who first conceived the idea of making collars in commercial quantities, and their manufacture formed an important branch of his business.

At first the collars were made by the female members of his household, the linen being cut to shape with scissors, hand stitched, and starched and ironed upon the kitchen table. Soon the increasing demand for his "store collars" encouraged him to engage the services of the wives and daughters of his neighbors. The material was cut at his store on a wooden pattern, which presaged the modern cutting table, and was the first notable advance in the process of manufacture. The material being ready, the workers took it to their homes and agreed to "make, wash, starch, and iron

the collars," and to receive merchandise as their compensation. It is stated that a card containing the following statement of the former preacher accompanied each installment of work: "In pay you buy my goods at my prices."

The collars were tied around the neck of the wearer with tape string, and were commonly referred to as "string collars." They were two-ply, of heavy linen, made somewhat stiff with starch, and were supported by haircloth stocks buckled at the back of the neck.<sup>1</sup> Their immediate success and popularity caused others to engage in the manufacture. For a time they followed Mr. Brown's methods, and conducted a collar business in connection with other lines of industry; and it was not until 1843 that the manufacture of linen collars and shirt bosoms was engaged in as a separate business.

The following year another independent stock and collar maker appeared, and a few years later he added a laundry to his factory and laundered the goods of other collar makers in addition to those of his own manufacture. The operation of a laundry in connection with collar manufacture had a stimulating effect

<sup>1</sup> City of Troy and Its Manufacturing, by Arthur James Weise, 1886, page 74.

upon the industry, and caused the establishment of additional collar factories.

The manufacture of collars was an organized industry some years previous to that of cuffs and shirts. It was not until the year 1845 that the latter industry was begun in Troy, and it was a natural outgrowth of the collar industry. That the collar industry was at that time in a prosperous condition may be judged from the fact that previous to the introduction of the sewing machine, manufacturers were unable to fill their orders for lack of a sufficient number of skilled operators.

It appears that the introduction of the sewing machine for the manufacture of collars and cuffs is credited to both Mr. O. W. Edson and Mr. Jefferson Gardner. At first there was much opposition to the use of the machine, both on the part of the employer and employee, the former having little faith in its efficiency and the latter fearing that the machine would displace his labor. Mr. Edson, however, purchased a number of sewing machines, and at his home instructed the girls in his employ how to operate them; and as soon as the operator became proficient the machine was transferred to his factory. Mr. Gardner also installed machines in his establishment at about the same time. The advantages of machine over hand work were soon seen and appreciated, and other manufacturers began to adopt them. The application of steam power was another great advance in the industry and not only caused the erection of new establishments, but greatly reduced the cost of production, and also caused a proportionate decrease in the price to the consumer.

In general there are two classes of collars, the standing and the turn down, and, of course, there are endless varieties of each class, each manufacturer originating a number of styles for which his firm is usually widely known. After an examination of the strength, weight, and color of the linen and muslin, the goods are sent to the cutter, who stretches the webs back and forth upon the table until the desired number of thicknesses is obtained, when iron weights are placed at intervals to keep the cloth in position. The cutter, after arranging block patterns of the desired size and style, begins at the edge of the cloth nearest to him and so cuts away from him across the goods. The back and front of a collar are cut together, and a second operation is required for cutting the interlinings. In a straight standing collar the facing is usually of cambrie muslin, except in the case of an all-linen collar, and it must conform to the shape of the front of the collar. The interlining in a four-ply collar is cut in one piece and doubled over.

As soon as the separate parts of a collar are ready to be put together the facings are sent to the "stampers," or girls who stamp the name, brand, and size on the facings. After this operation the constituent parts of the collar are arranged by the "pasters," who properly arrange the parts with paste in preparation for the

"turners." At this stage the interlining is without, and the front and back are on the inside. The pieces are stitched at the top and sides by the "runners," after which they are ready for the "turners." The reversing or turning of the collar requires a certain degree of skill and experience and is mostly done by "home workers" and not as a factory employment, although machinery is now doing this work to some extent. The collar is then ready to be sent to the stitching room proper, where the final sewing is done, after which the buttonholes are made.

The making of a turn-down collar is somewhat more complicated than that of a standing collar, as it is composed of two parts, the top and the band, whereas the standing collar in most instances is all one piece. The band itself is made up of three pieces, front, back, and interlining, and in a number of factories they are cut by stamping dies. On this style of collar the name, size, and brand are stamped on the front of the band. The parts comprising the top and front, back, and interlining are fitted together, overseamed, and run. The stitchers prepare the top for joining to the band. Inasmuch as the top and band have to be carefully fitted to each other, the curved line of one exactly coinciding with the curve of the other, "banding" requires considerable skill. The interlining and the back of the band are stitched to one side of the "top" and the "front" is stitched to the other side, and the band is then turned to its proper shape. The buttonholes are next made, and the collar is complete. The processes employed in cuff manufacture are similar to those used in the manufacture of collars.

After the collars and cuffs are finished they are sorted and counted, prior to being sent to the laundry. Many of the larger manufacturers operate laundries in connection with their factories, while others send their goods to outside laundry establishments. Wonderful improvements have been made in laundry machinery and apparatus, and both starching and ironing are now extensively done by machinery, although hand starching is still in vogue. From the establishment of the United States Patent Office to January 1, 1902, there have been issued, in connection with the laundry industry, 8,762 patents, classified as follows:

| Patents.                      | Number. | Patents.  | Number. |
|-------------------------------|---------|---|---------|
| Total.....                    | 8,762   | Wash boilers.....                                   | 493     |
| Bosom boards.....             | 163     | Washing-machine agitator.....                       | 268     |
| Clamps.....                   | 14      | Washing machine and bed.....                        | 628     |
| Clothes driers.....           | 821     | Washing-machine boiler.....                         | 200     |
| Clothesline fasteners.....    | 110     | Washing machine, combined washing and wringing..... | 50      |
| Clothesline reels.....        | 82      | Washing-machine cylinder.....                       | 269     |
| Clotheslines.....             | 209     | Washing machines, miscellaneous.....                | 72      |
| Clothes pounders.....         | 230     | Washing-machine pounder.....                        | 797     |
| Clothes sticks and tongs..... | 41      | Washing-machine reciprocating rubber.....           | 931     |
| Fluting irons.....            | 160     | Washing machine, rocking.....                       | 191     |
| Hand rubbers.....             | 43      | Washing-machine roller.....                         | 122     |
| Ironing machines.....         | 400     | Washing-machine rotary rubber.....                  | 167     |
| Ironing tables.....           | 559     | Washtubs.....                                       | 61      |
| Laundries.....                | 22      | Wringer rolls.....                                  | 98      |
| Mangles.....                  | 96      | Wringers.....                                       | 624     |
| Sadiron holder.....           | 98      |   |         |
| Sadiron.....                  | 493     |   |         |
| Starching machines.....       | 91      |   |         |
| Wash benches.....             | 111     |   |         |
| Washboards.....               | 318     |   |         |

After being received in the laundry the goods are first washed in large revolving wash wheels, which are located in the basement. They are then sent upstairs to be smoothed out preparatory to starching, which is the next process. After this operation they are smoothed out by hand, before being sent to the dry room to be made ready for the ironing machine. After coming from the laundry they are examined for any damages or manufacturing imperfections hitherto overlooked. They are then boxed and prepared for shipment.

Table 11, which follows, shows in detail the statistics relating to the manufacture of collars and cuffs, as returned by the 57 establishments engaged in the industry in 1900.

TABLE 11.—COLLARS AND CUFFS, BY STATES: 1900.

|   | United States. | New York.    | All other states. <sup>1</sup> |
|---|----------------|--------------|--------------------------------|
| Number of establishments  | 57             | 54           | 3                              |
| Character of organization:  |                |              |                                |
| Individual  | 20             | 18           | 2                              |
| Firm and limited partnership  | 29             | 29           | 2                              |
| Incorporated company  | 8              | 7            | 1                              |
| Capital:  |                |              |                                |
| Total   | \$10,216,317   | \$10,176,067 | \$40,250                       |
| Land  | \$303,347      | \$302,397    | \$450                          |
| Buildings   | \$1,113,140    | \$1,105,940  | \$7,200                        |
| Machinery, tools, and implements  | \$964,363      | \$957,063    | \$7,300                        |
| Cash and sundries   | \$7,835,467    | \$7,810,167  | \$25,300                       |
| Proprietors and firm members  | 104            | 102          | 2                              |
| Salaried officials, clerks, etc.:   |                |              |                                |
| Total number  | 508            | 499          | 9                              |
| Total salaries  | \$583,037      | \$574,850    | \$8,237                        |
| Officers of corporations—   |                |              |                                |
| Number  | 19             | 19           | —                              |
| Salaries  | \$73,730       | \$73,730     | —                              |
| General superintendents, managers, clerks, etc.—                                    |                |              |                                |
| Total number  | 489            | 480          | 9                              |
| Total salaries  | \$509,357      | \$501,120    | \$8,237                        |
| Men—  |                |              |                                |
| Number  | 429            | 422          | 7                              |
| Salaries  | \$481,591      | \$474,412    | \$7,179                        |
| Women—  |                |              |                                |
| Number  | 80             | 58           | 2                              |
| Salaries  | \$27,766       | \$26,708     | \$1,058                        |
| Wage-earners, including pieceworkers:   |                |              |                                |
| Greatest number employed at any one time during the year                            | 18,419         | 18,230       | 189                            |
| Least number employed at any one time during the year                               | 14,854         | 14,795       | 59                             |
| Average number  | 17,135         | 17,032       | 103                            |
| Total wages   | \$5,658,969    | \$5,638,095  | \$25,874                       |
| Men, 16 years and over—   |                |              |                                |
| Average number  | 2,391          | 2,374        | 17                             |
| Wages   | \$1,115,685    | \$1,106,907  | \$8,778                        |
| Women, 16 years and over—   |                |              |                                |
| Average number  | 14,568         | 14,479       | 84                             |
| Wages   | \$4,515,856    | \$4,499,133  | \$16,728                       |
| Children, under 16 years—   |                |              |                                |
| Average number  | 181            | 179          | 2                              |
| Wages   | \$27,428       | \$27,055     | \$373                          |
| Average number of wage-earners, including pieceworkers, employed during each month: |                |              |                                |
| Men, 16 years and over—   |                |              |                                |
| January   | 2,507          | 2,495        | 12                             |
| February  | 2,545          | 2,531        | 14                             |
| March   | 2,615          | 2,601        | 14                             |
| April   | 2,587          | 2,572        | 15                             |
| May   | 2,377          | 2,358        | 19                             |
| June  | 2,340          | 2,322        | 18                             |
| July  | 2,274          | 2,256        | 18                             |
| August  | 2,006          | 2,045        | 21                             |
| September   | 2,241          | 2,221        | 20                             |
| October   | 2,297          | 2,278        | 19                             |
| November  | 2,442          | 2,423        | 19                             |
| December  | 2,405          | 2,386        | 19                             |
| Women, 16 years and over—   |                |              |                                |
| January   | 14,937         | 14,900       | 37                             |
| February  | 15,518         | 15,479       | 39                             |
| March   | 15,856         | 15,806       | 48                             |
| April   | 15,617         | 15,561       | 56                             |
| May   | 14,737         | 14,728       | 64                             |

<sup>1</sup>Includes establishments distributed as follows: Pennsylvania, 2; Vermont, 1.

TABLE 11.—COLLARS AND CUFFS, BY STATES: 1900—Continued.

|  | United States. | New York.    | All other states. <sup>1</sup> |
|--|----------------|--------------|--------------------------------|
| Average number of wage-earners, including pieceworkers, employed during each month—Continued.        |                |              |                                |
| Women, 16 years and over—Continued.  |                |              |                                |
| June   | 14,487         | 14,422       | 65                             |
| July   | 13,709         | 13,615       | 94                             |
| August   | 13,217         | 13,087       | 130                            |
| September  | 13,602         | 13,468       | 134                            |
| October  | 13,925         | 13,807       | 118                            |
| November   | 14,439         | 14,341       | 98                             |
| December   | 14,656         | 14,542       | 114                            |
| Children, under 16 years—  |                |              |                                |
| January  | 172            | 170          | 2                              |
| February   | 178            | 176          | 2                              |
| March  | 182            | 180          | 2                              |
| April  | 182            | 180          | 2                              |
| May  | 198            | 194          | 4                              |
| June   | 211            | 209          | 2                              |
| July   | 193            | 192          | 1                              |
| August   | 173            | 171          | 2                              |
| September  | 178            | 176          | 2                              |
| October  | 175            | 173          | 2                              |
| November   | 178            | 175          | 3                              |
| December   | 164            | 163          | 1                              |
| Miscellaneous expenses:  |                |              |                                |
| Total  | \$1,128,887    | \$1,118,903  | \$9,984                        |
| Rent of works  | \$78,588       | \$78,588     | \$195                          |
| Taxes, not including internal revenue  | \$14,188       | \$14,174     | \$14                           |
| Rent of offices, insurance, interest, etc.   | \$672,829      | \$670,452    | \$2,377                        |
| Contract work  | \$363,282      | \$355,384    | \$7,898                        |
| Materials used:  |                |              |                                |
| Total cost   | \$6,011,566    | \$5,992,425  | \$19,131                       |
| Cloth—   |                |              |                                |
| Total square yards   | 60,817,101     | 60,626,403   | 190,698                        |
| Total cost   | \$5,251,237    | \$5,235,255  | \$15,982                       |
| Cotton, square yards   | 57,602,200     | 57,421,002   | 181,198                        |
| Cost   | \$4,255,950    | \$4,242,893  | \$13,032                       |
| Linen, square yards  | 3,214,901      | 3,205,401    | 9,500                          |
| Cost   | \$995,807      | \$992,857    | \$2,950                        |
| Buttons, thread, ribbon, tape, etc., cost  | \$199,240      | \$193,395    | \$5,845                        |
| Fuel   | \$64,862       | \$64,486     | \$376                          |
| Rent of power and heat   | \$8,941        | \$8,914      | \$27                           |
| Mill supplies  | \$50,459       | \$50,376     | \$83                           |
| All other materials  | \$308,955      | \$305,393    | \$3,562                        |
| Freight  | \$129,862      | \$129,606    | \$256                          |
| Products:  |                |              |                                |
| Aggregate value  | \$15,769,132   | \$15,703,541 | \$65,591                       |
| Collars, cuffs, shirts, and shirt waists:  |                |              |                                |
| Total value  | \$15,592,599   | \$15,535,461 | \$57,138                       |
| Collars and cuffs, dozens  | 10,038,045     | 10,011,650   | 26,395                         |
| Value  | \$9,077,700    | \$9,020,562  | \$57,138                       |
| Shirts, dozens   | 858,868        | 858,868      | —                              |
| Value  | \$5,864,671    | \$5,864,671  | —                              |
| Shirt waists, dozens   | 81,948         | 81,948       | —                              |
| Value  | \$660,228      | \$660,228    | —                              |
| All other products, value  | \$176,523      | \$168,080    | \$8,463                        |
| Comparison of products:  |                |              |                                |
| Number of establishments reporting for both years  | 44             | 42           | 2                              |
| Value for census year  | \$13,185,880   | \$13,120,439 | \$64,941                       |
| Value for preceding business year  | \$11,994,237   | \$11,965,637 | \$28,600                       |
| Power:   |                |              |                                |
| Number of establishments reporting   | 48             | 48           | —                              |
| Total horsepower   | 2,304          | 2,269        | 35                             |
| Owned—   |                |              |                                |
| Engines—   |                |              |                                |
| Steam, number  | 29             | 27           | 2                              |
| Horsepower   | 1,782          | 1,749        | 33                             |
| Water wheels, number   | 3              | 3            | —                              |
| Horsepower   | 140            | 140          | —                              |
| Electric motors, number  | 1              | 1            | —                              |
| Horsepower   | 2              | 2            | —                              |
| Rented—  |                |              |                                |
| Electric horsepower  | 141            | 141          | —                              |
| All other, horsepower  | 239            | 237          | 2                              |
| Furnished to other establishments, horsepower  | 45             | 45           | —                              |
| Establishments classified by number of persons employed, not including proprietors and firm members: |                |              |                                |
| Total number of establishments   | 57             | 54           | 3                              |
| Under 5  | 5              | 5            | —                              |
| 5 to 20  | 8              | 6            | 2                              |
| 21 to 50   | 11             | 11           | —                              |
| 51 to 100  | 7              | 7            | —                              |
| 101 to 250   | 8              | 7            | 1                              |
| 251 to 500   | 7              | 7            | —                              |
| 501 to 1,000   | 6              | 6            | —                              |
| Over 1,000   | 5              | 5            | —                              |

<sup>1</sup>Includes establishments distributed as follows: Pennsylvania, 2; Vermont, 1.

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BUTTONS.

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# BUTTONS.

By AXEL JOSEPHSSON.

Table 1 is a comparative summary of the statistics for | of 1850 to 1900, inclusive, with the percentages of in-  
the manufacture of buttons as returned at the censuses | crease for each decade.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

|   | DATE OF CENSUS. |                        |                  |                  |                  |                  | PER CENT OF INCREASE. |                    |                    |                    |                    |
|---|-----------------|------------------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|
|   | 1900            | 1890                   | 1880             | 1870             | 1860             | 1850             | 1900<br>to<br>1900    | 1890<br>to<br>1890 | 1870<br>to<br>1880 | 1860<br>to<br>1870 | 1850<br>to<br>1860 |
| Number of establishments.....                 | 238             | 106                    | 124              | 64               | 43               | 59               | 124.5                 | 114.5              | 93.8               | 48.8               | 127.1              |
| Capital.....                                  | \$4,212,568     | \$3,089,265            | \$2,013,350      | \$1,013,700      | \$553,550        | \$393,000        | 36.4                  | 53.4               | 98.6               | 81.5               | 42.1               |
| Salaried officials, clerks, etc., number..... | 339             | <sup>2</sup> 205       | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 65.4                  |                    |                    |                    |                    |
| Salaries.....                                 | \$296,358       | <sup>2</sup> \$262,787 | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 12.8                  |                    |                    |                    |                    |
| Wage-earners, average number.....             | 8,685           | 3,831                  | 5,825            | 1,912            | 1,161            | 1,088            | 126.7                 | 134.2              | 204.7              | 64.7               | 6.7                |
| Total wages.....                              | \$2,826,238     | \$1,411,089            | \$1,645,180      | \$680,380        | \$260,206        | \$225,120        | 100.3                 | 114.2              | 188.5              | 123.0              | 15.6               |
| Men, 16 years and over.....                   | 4,036           | 1,544                  | 2,128            | 617              | 487              | 467              | 164.6                 | 127.4              | 244.9              | 26.7               | 4.3                |
| Wages.....                                    | \$1,763,133     | \$805,782              | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 117.6                 |                    |                    |                    |                    |
| Women, 16 years and over.....                 | 4,131           | 2,176                  | 3,052            | 949              | 674              | 621              | 89.8                  | 128.7              | 221.6              | 40.8               | 8.5                |
| Wages.....                                    | \$907,857       | \$588,901              | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 69.4                  |                    |                    |                    |                    |
| Children, under 16 years.....                 | 468             | 111                    | 645              | 346              | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 321.6                 | 182.8              | 86.4               |                    |                    |
| Wages.....                                    | \$75,248        | \$16,406               | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | ( <sup>3</sup> ) | 358.7                 |                    |                    |                    |                    |
| Miscellaneous expenses.....                   | \$398,862       | \$256,846              | ( <sup>4</sup> ) | ( <sup>4</sup> ) | ( <sup>4</sup> ) | ( <sup>4</sup> ) | 53.3                  |                    |                    |                    |                    |
| Cost of materials used.....                   | \$2,803,246     | \$1,551,603            | \$1,792,391      | \$751,183        | \$358,385        | \$324,837        | 80.7                  | 113.5              | 138.7              | 109.6              | 10.3               |
| Value of products.....                        | \$7,695,910     | \$4,216,795            | \$4,449,542      | \$1,778,393      | \$949,408        | \$964,359        | 82.5                  | 15.2               | 150.1              | 87.4               | 11.6               |

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table. (See Table 11.)

<sup>3</sup> Not reported separately.

<sup>4</sup> Not reported.

The figures for 1900 in the above table do not include 20 establishments having a product of less than \$500 each. The combined capital of these establishments was \$10,405, and the total value of their products was \$3,798. They were not included in this table in order to preserve the basis of comparison with previous censuses, at which such establishments were not reported.

Although the manufacture of buttons in the United States began prior to 1810 and statistics for the industry appeared for the first time in the census reports of that year, the census of 1850 was the first at which statistics of a sufficiently uniform character to be compared were presented. The general progress of the industry during the past half century is shown by Table 1. The number of establishments increased from 59 to 238; the capital, from \$393,000 to \$4,212,568; the average number of wage-earners, from 1,088 to 8,685; the amount of wages paid, from \$225,120 to \$2,826,238; the cost of materials used, from \$324,837 to \$2,803,246; and the value of products, from \$964,359 to \$7,695,910. The greatest growth was that during the decade ending in 1880, when the increase in value of products was

150.1 per cent. From 1880 to 1890 there was a decrease in every particular except that of capital, the value of products, however, showing the least diminution, 5.2 per cent. The last decade showed an increase of 82.5 per cent in value of products. These statistics, while reflecting the increase in the value of products, do not indicate the real growth in the quantity of products manufactured, which has increased in far greater proportions on account of the introduction of new methods of manufacture, whereby prices have been considerably reduced.

A comparison of the statistics for 1900 and 1890 shows the growth of the industry during the decade and its present condition. The number of establishments increased from 106 in 1890 to 238 in 1900, or 124.5 per cent, while the capital increased only from \$3,089,265 to \$4,212,568, or 36.4 per cent. The button industry, in contrast with most of the larger industries, shows a considerable decrease in the average capital per establishment, the average being \$29,144 for 1890 and only \$17,700 for 1900. This decrease is due in part to the number of establishments engaged in the manufacture

MANUFACTURES.

of fresh-water pearl button blanks, a branch of the industry which has sprung into existence since 1890 and requires a comparatively small capital. Statistics for the establishments engaged exclusively in this manufacture are separately shown in Table 4, and if the capital for these establishments were deducted from the total capital as presented in Table 1, the average capital for establishments engaged principally in the manufacture of buttons would be \$21,797. The largest increase during the decade appears in the average number of wage-earners, which increased from 3,831 to 8,685, or 126.7 per cent. The amount of wages paid more than doubled. The cost of materials used increased from \$1,551,603 to \$2,803,246, or 80.7 per cent, and the value of products from \$4,216,795 to \$7,695,910, or 82.5 per cent.

Table 2 presents, by states, the number of active establishments in 1900 and 1890, with the increase.

TABLE 2.—COMPARATIVE SUMMARY: NUMBER OF ACTIVE ESTABLISHMENTS, 1900 AND 1890, AND INCREASE DURING DECADE, BY STATES, ARRANGED GEOGRAPHICALLY.

| STATES.                   | 1900  | 1890  | Increase. |
|---------------------------|-------|-------|-----------|
| United States.....        | 288   | 106   | 182       |
| New England states.....   | 28    | 34    | 16        |
| New Hampshire.....        | 1     | ..... | 1         |
| Massachusetts.....        | 13    | 16    | 13        |
| Rhode Island.....         | 3     | 4     | 11        |
| Connecticut.....          | 11    | 14    | 13        |
| Middle states.....        | 106   | 67    | 39        |
| New York.....             | 49    | 34    | 15        |
| New Jersey.....           | 34    | 17    | 17        |
| Pennsylvania.....         | 21    | 14    | 7         |
| Maryland.....             | 2     | ..... | 1         |
| District of Columbia..... | ..... | 1     | 11        |

<sup>1</sup>Decrease.

TABLE 2.—COMPARATIVE SUMMARY: NUMBER OF ACTIVE ESTABLISHMENTS, 1900 AND 1890, ETC.—Continued.

| STATES.              | 1900 | 1890  | Increase. |
|----------------------|------|-------|-----------|
| Southern states..... | 2    | 1     | 1         |
| Kentucky.....        | 1    | 1     | .....     |
| Arkansas.....        | 1    | ..... | 1         |
| Central states.....  | 95   | 4     | 91        |
| Ohio.....            | 4    | ..... | 4         |
| Michigan.....        | 2    | ..... | 2         |
| Illinois.....        | 14   | 4     | 10        |
| Wisconsin.....       | 9    | ..... | 9         |
| Minnesota.....       | 2    | ..... | 2         |
| Iowa.....            | 53   | ..... | 53        |
| Missouri.....        | 11   | ..... | 11        |
| Western states.....  | 2    | ..... | 2         |
| Nebraska.....        | 2    | ..... | 2         |
| Pacific states.....  | 5    | ..... | 5         |
| California.....      | 5    | ..... | 5         |

Table 2 shows that while in 1890 establishments were found in only 9 states and 1 territory, in 1900 they were distributed over 19 states. Iowa led in number, New York was second, and New Jersey third. Of the new plants, 53 were located in Iowa, where none were reported ten years before. Besides Iowa, 9 of the states reporting button factories in 1900 had none in 1890. In New Jersey 17 establishments began operations during the decade. New York came next with 15, followed by Illinois with 10 establishments.

Table 3 is a summary of the industry, by states, for 1900. In 1890 only 7 states could be shown separately, because in these only was the number of establishments 3 or more; in 1900 there were 12 states having 3 or more. In 1900, 7 states reported fewer than 3 establishments each, and in order that the operations of individual establishments may not be disclosed, they are included under "all other states."

TABLE 3.—SUMMARY BY STATES: 1900.

|   | United States. | California. | Connecticut. | Illinois. | Iowa.     | Massachusetts. | Missouri. | New Jersey. | New York.   | Ohio.    | Pennsylvania. | Rhode Island. | Wisconsin. | All other states. <sup>1</sup> |
|---|----------------|-------------|--------------|-----------|-----------|----------------|-----------|-------------|-------------|----------|---------------|---------------|------------|--------------------------------|
| Number of establishments.                     | 288            | 5           | 11           | 14        | 53        | 13             | 11        | 34          | 49          | 4        | 21            | 3             | 9          | 11                             |
| Capital:                                      |                |             |              |           |           |                |           |             |             |          |               |               |            |                                |
| Total.....                                    | \$4,212,568    | \$6,487     | \$532,178    | \$53,498  | \$324,315 | \$626,439      | \$39,495  | \$509,681   | \$1,195,343 | \$49,045 | \$557,488     | \$29,116      | \$34,499   | \$254,339                      |
| Land.....                                     | \$145,260      | .....       | \$46,400     | \$525     | \$15,685  | \$33,300       | \$600     | \$6,250     | \$13,100    | .....    | \$24,500      | .....         | \$1,300    | \$3,100                        |
| Buildings.....                                | \$433,268      | .....       | \$96,000     | \$1,450   | \$24,991  | \$105,300      | \$3,150   | \$34,672    | \$46,900    | .....    | \$47,500      | .....         | \$4,595    | \$38,630                       |
| Machinery, tools, and implements.             | \$1,310,442    | \$725       | \$164,728    | \$14,271  | \$111,727 | \$122,669      | \$12,188  | \$154,036   | \$395,107   | \$15,500 | \$200,052     | \$20,500      | \$12,539   | \$36,400                       |
| Cash and sundries.                            | \$2,323,598    | \$5,762     | \$225,050    | \$37,247  | \$171,912 | \$364,670      | \$23,557  | \$314,723   | \$740,236   | \$34,145 | \$285,356     | \$8,616       | \$16,065   | \$36,259                       |
| Salaried officials, clerks, etc., number..... | 336            | 1           | 24           | 14        | 42        | 19             | 4         | 53          | 105         | 7        | 42            | 4             | 4          | 20                             |
| Salaries.....                                 | \$296,358      | \$1,200     | \$80,812     | \$7,629   | \$26,306  | \$31,164       | \$1,236   | \$50,299    | \$38,195    | \$4,786  | \$39,152      | \$2,404       | \$1,425    | \$16,690                       |
| Wage-earners, average number.....             | 8,685          | 6           | 800          | 272       | 1,402     | 772            | 83        | 1,169       | 2,647       | 72       | 1,140         | 28            | 106        | 183                            |
| Total wages.....                              | \$2,826,238    | \$988       | \$305,687    | \$101,039 | \$458,036 | \$276,202      | \$23,831  | \$410,056   | \$812,978   | \$18,268 | \$321,473     | \$8,501       | \$32,108   | \$56,971                       |
| Men, 16 years and over.                       | 4,086          | .....       | 805          | 210       | 887       | 302            | 56        | 551         | 1,167       | 29       | 847           | 19            | 74         | 117                            |
| Wages.....                                    | \$1,758,133    | .....       | \$169,763    | \$86,174  | \$361,062 | \$141,049      | \$19,133  | \$258,119   | \$404,518   | \$10,504 | \$166,892     | \$5,730       | \$26,083   | \$44,101                       |
| Women, 16 years and over.....                 | 4,131          | 2           | 460          | 48        | 441       | 443            | 21        | 544         | 1,349       | 40       | 711           | 9             | 28         | 37                             |
| Wages.....                                    | \$997,857      | \$336       | \$132,018    | \$11,302  | \$86,550  | \$131,929      | \$4,220   | \$135,610   | \$326,130   | \$7,140  | \$141,601     | \$2,771       | \$5,830    | \$12,370                       |
| Children, under 16 years.....                 | 468            | 4           | 35           | 14        | 74        | 27             | 4         | 74          | 141         | 3        | 82            | .....         | 6          | 4                              |
| Wages.....                                    | \$75,248       | \$652       | \$3,906      | \$3,563   | \$10,474  | \$5,224        | \$528     | \$16,327    | \$22,330    | \$624    | \$12,930      | .....         | \$140      | \$500                          |
| Miscellaneous expenses.....                   | \$393,862      | \$1,277     | \$117,643    | \$11,329  | \$37,252  | \$27,505       | \$10,738  | \$37,379    | \$110,717   | \$5,701  | \$17,683      | \$4,893       | \$1,330    | \$9,865                        |
| Cost of materials used.....                   | \$2,803,246    | \$2,795     | \$480,187    | \$66,213  | \$196,842 | \$237,835      | \$26,679  | \$398,616   | \$943,432   | \$20,946 | \$403,106     | \$9,040       | \$18,751   | \$48,301                       |
| Value of products.....                        | \$7,695,910    | \$3,870     | \$1,037,235  | \$242,444 | \$366,538 | \$681,081      | \$85,440  | \$1,025,544 | \$2,371,196 | \$58,878 | \$999,356     | \$33,539      | \$63,125   | \$172,611                      |

<sup>1</sup>Includes establishments distributed as follows: Arkansas, 1; Kentucky, 1; Maryland, 2; Michigan, 2; Minnesota, 2; Nebraska, 2; New Hampshire, 1.

Since the census of 1890 an entirely new branch of the industry has been introduced—the manufacture of fresh-water pearl button blanks. The statistics for the 52 establishments reporting these products exclusively in 1900 are included in Tables 1 and 3, but in view of the great interest taken in the development of this

branch, Table 4 is given, showing the statistics, by states, of establishments, number of salaried officials, clerks, etc., and their salaries, average number of wage-earners and their wages, miscellaneous expenses, cost of materials used, and value of products.

TABLE 4.—SUMMARY: ESTABLISHMENTS MANUFACTURING FRESH-WATER PEARL BUTTON BLANKS, BY STATES: 1900.

| STATES.                             | Number of establishments. | Capital.  | SALARIED OFFICIALS, CLERKS, ETC. |           | WAGE-EARNERS.   |              | Miscellaneous expenses. | Cost of materials used. | Value of products. |
|-------------------------------------|---------------------------|-----------|----------------------------------|-----------|-----------------|--------------|-------------------------|-------------------------|--------------------|
|                                     |                           |           | Number.                          | Salaries. | Average number. | Total wages. |                         |                         |                    |
| United States .....                 | 52                        | \$158,373 | 36                               | \$16,124  | 771             | \$304,984    | \$12,044                | \$161,038               | \$656,036          |
| Illinois.....                       | 7                         | 16,893    | 9                                | 4,924     | 138             | 53,052       | 1,009                   | 25,824                  | 134,104            |
| Iowa.....                           | 35                        | 102,135   | 20                               | 9,365     | 561             | 227,937      | 9,521                   | 114,478                 | 467,351            |
| Missouri.....                       | 5                         | 14,390    | 1                                | 300       | 35              | 11,340       | 1,016                   | 8,529                   | 23,090             |
| All other states <sup>1</sup> ..... | 5                         | 24,955    | 6                                | 1,535     | 37              | 12,655       | 498                     | 12,207                  | 81,491             |

<sup>1</sup> Includes establishments distributed as follows: Arkansas, 1; Minnesota, 1; Wisconsin, 3.

Table 4 shows a total of 52 establishments, with a capital of \$158,373, 771 wage-earners, and products valued at \$656,036. Iowa led with 35 establishments, and products valued at \$467,351, or 71.2 per cent of the total. Illinois ranked next with 7 establishments, and products valued at \$134,104, or 20.4 per cent of the total.

Table 5 is a comparative summary of capital for 1900 and 1890, with the percentage each item was of the total, and the per cent of increase for the decade.

TABLE 5.—COMPARATIVE SUMMARY: CAPITAL, 1890 AND 1900, WITH PER CENT OF INCREASE.

|                                       | 1900        |                    | 1890        |                    | Per cent of increase. |
|---------------------------------------|-------------|--------------------|-------------|--------------------|-----------------------|
|                                       | Amount.     | Per cent of total. | Amount.     | Per cent of total. |                       |
| Total.....                            | \$4,212,568 | 100.0              | \$3,089,265 | 100.0              | 36.4                  |
| Land.....                             | 145,260     | 3.4                | 98,664      | 3.2                | 47.2                  |
| Buildings.....                        | 433,268     | 10.3               | 208,185     | 6.7                | 108.1                 |
| Machinery, tools, and implements..... | 1,310,442   | 31.1               | 956,094     | 31.0               | 37.1                  |
| Cash and sundries.....                | 2,323,598   | 55.2               | 1,826,322   | 59.1               | 27.2                  |

Table 5 shows that the percentages of land, buildings, machinery, and live capital in 1900 did not differ materially from the corresponding percentages in 1890, although the rates of increase in the different items varied considerably, being largest for buildings. The total capital increased from \$3,089,265 to \$4,212,568, or 36.4 per cent. The value of land increased from \$98,664 to \$145,260, or 47.2 per cent; of buildings from \$208,185 to \$433,268, or 108.1 per cent; of machinery, tools, and implements from \$956,094 to \$1,310,442, or 37.1 per cent; and the live capital from \$1,826,322 to \$2,323,598, or 27.2 per cent.

The miscellaneous expenses increased from \$256,846 in 1890 to \$393,862 in 1900, or 53.3 per cent. Of this, \$207,107, paid for rent of offices, insurance, repairs of buildings and machinery, advertising, and all other sun-

dries not reported under the head of materials, constituted the principal item, or 52.6 per cent. This amount did not include expense of new equipment, machinery, and other apparatus, but only the amount expended for repair of buildings, machinery, and other incidental expenses. The amount of interest in this item did not include the interest paid on bonds by incorporated companies, but only the comparatively insignificant sums necessary for money or credit incidental to the conduct of the business. The amount expended for contract work, \$88,040, formed 22.4 per cent and the \$84,279 expended for rent of works 21.4 per cent of the total. The amount paid for taxes, \$14,436, was a relatively small per cent.

Table 6 gives the cost of the different materials used in 1900, with the per cent each item was of the total.

TABLE 6.—COST OF MATERIALS: 1900.

|   | 1900        |                    |
|---|-------------|--------------------|
|   | Amount.     | Per cent of total. |
| Total.....                                    | \$2,803,246 | 100.0              |
| Purchased in raw state.....                   | 1,232,938   | 44.0               |
| Purchased in partially manufactured form..... | 1,437,982   | 51.3               |
| Fuel.....                                     | 46,665      | 1.6                |
| Rent of power and heat.....                   | 33,375      | 1.2                |
| Freight.....                                  | 52,286      | 1.9                |

The total cost of materials used in 1890 was \$1,551,603, and in 1900, \$2,803,246, an increase of 80.7 per cent, of which \$1,232,938, or 44 per cent, was expended for raw materials. The three principal items that went to make up this total were mother-of-pearl shells, fresh-water mussel shells, and vegetable ivory. The quantity of mother-of-pearl (ocean pearl) shells used was 1,748,856 pounds, costing \$620,584; of fresh-water mussel shells, 4,830,112 pounds, costing \$238,046; and of vegetable ivory, 12,382,720 pounds, costing \$275,226. The average cost per pound of mother-of-pearl shells was 35.5 cents; of fresh-water shells, 4.9

cents; and of vegetable ivory, 2.2 cents. Vegetable ivory and mother-of-pearl shells are imported, and statistics for the year ending June 30, 1900, show importations of 16,036,389 pounds of vegetable ivory, valued at \$243,548, and shells to the value of \$1,016,728.

The value of materials purchased in partially manufactured form was \$1,437,982, or 51.3 per cent of the total reported. Among the partly manufactured materials are brass, tin, iron, horn, bone, cloth, and linen hanks and tufts. The fuel, rent of power and heat, and freight constituted 4.7 per cent of the total cost of materials.

In connection with Table 6 attention is directed to a duplication which occurs in the two principal items of materials. The establishments employed in cutting button blanks from mussel shells used a large proportion of the fresh-water shells included under raw material, while of their products, amounting to \$656,036, not less than \$561,985 reappeared as purchased in partially manufactured form by other factories. The remaining \$94,051 of blanks were not made into buttons during the census year.

Table 7 gives the quantity and value of the different varieties of buttons manufactured, with the percentage that each variety is of the total, and the average prices.

TABLE 7.—NUMBER OF GROSS, VALUE, PER CENT OF VALUE OF DIFFERENT KINDS OF TOTAL VALUE, AND AVERAGE PRICE PER GROSS: 1900.

| KINDS.                   | QUANTITY.  |                    | VALUE.      |                    | Average price per gross. |
|--------------------------|------------|--------------------|-------------|--------------------|--------------------------|
|                          | Gross.     | Per cent of total. | Amount.     | Per cent of total. |                          |
| Total.....               | 21,254,018 | 100.0              | \$6,467,373 | 100.0              | \$0.30                   |
| Bone.....                | 297,180    | 1.4                | 137,401     | 2.1                | 0.46                     |
| Cloth.....               | 1,872,870  | 6.5                | 408,121     | 7.2                | 0.34                     |
| Composition.....         | 2,407,319  | 11.3               | 246,410     | 3.8                | 0.10                     |
| Horn.....                | 717,047    | 3.4                | 237,874     | 3.7                | 0.33                     |
| Metal:                   |            |                    |             |                    |                          |
| Total.....               | 4,759,671  | 22.4               | 887,521     | 13.7               | 0.19                     |
| Brass.....               | 3,713,144  | 17.5               | 739,922     | 11.4               | 0.20                     |
| All other metals.....    | 1,046,527  | 4.9                | 147,599     | 2.3                | 0.14                     |
| Pearl, fresh-water.....  | 4,308,584  | 20.3               | 1,176,285   | 18.2               | 0.27                     |
| Pearl, ocean.....        | 4,049,452  | 19.0               | 1,951,553   | 30.2               | 0.48                     |
| Vegetable ivory.....     | 2,661,823  | 12.5               | 1,144,677   | 17.7               | 0.43                     |
| Wood.....                | 78,200     | 0.4                | 9,600       | 0.2                | 0.12                     |
| Celluloid and photo..... | 105,086    | 0.5                | 77,570      | 1.2                | 0.74                     |
| Paper and all other..... | 496,786    | 2.3                | 130,356     | 2.0                | 0.26                     |

To obtain the aggregate value of all products for the button industry, there should be added to the value of buttons given in Table 7 the value of button blanks and of all other products. During the census year 5,432,246 gross of fresh-water pearl button blanks were manufactured, valued at \$656,036, making the value of buttons and button blanks \$7,123,409, or 92.6 per cent of the aggregate; the value of all other products amounted to \$572,501, or 7.4 per cent. The fresh-water blanks constituted 8.5 per cent of the aggregate. A total of 21,254,018 gross of buttons was manufactured, giving an average value of 30.4 cents per gross.

Ocean pearl buttons outclassed all others, constituting 30.2 per cent of the total value. Fresh-water pearl buttons stood next with 18.2 per cent, while the vegetable ivory buttons ranked third with a percentage of 17.7. Metal buttons of all kinds formed 13.7 per cent of the total, brass buttons alone constituting 11.4 per cent. Covered or cloth buttons comprised 7.2 per cent of the total value. Composition and horn buttons were nearly equal in importance, forming, respectively, 3.8 and 3.7 per cent of the total value. Last on the list came buttons made from wood, constituting only two-tenths of 1 per cent of the total value. While the price for each kind of buttons varies considerably according to quality and size, it is interesting to note the average price for the different kinds.

To the totals in Table 7 should be added 105,500 gross of buttons, valued at \$42,790, obtained from two establishments reporting buttons as a by-product. Of these 72,500 gross were horn, 3,000 metal, and 30,000 rubber buttons. There are, no doubt, a number of manufactories producing buttons as a by-product, but as they have not specified buttons separately, but have included them in "all other products," it is impossible to give any figures for them.

The growth of the button industry, by geographical divisions, is shown in Tables 8 and 9.

Table 8 shows, by states, the number of establishments and value of products in 1850, 1860, 1870, and 1880. Five states practically monopolized the industry in those years, only an insignificant percentage of product being reported from "all other states."

TABLE 8.—COMPARATIVE SUMMARY: NUMBER OF ESTABLISHMENTS AND VALUE OF PRODUCTS, BY STATES, 1850 TO 1880, INCLUSIVE.

| STATES.               | 1880                      |                    | 1870                      |                    | 1860                      |                    | 1850                      |                    |
|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|
|                       | Number of establishments. | Value of products. |
| United States.....    | 124                       | \$4,449,542        | 64                        | \$1,778,893        | 43                        | \$949,408          | 59                        | \$964,359          |
| Connecticut.....      | 26                        | 1,110,653          | 21                        | 563,433            | 28                        | 547,482            | 29                        | 562,274            |
| Massachusetts.....    | 28                        | 1,085,864          | 9                         | 511,175            | 9                         | 275,700            | 14                        | 284,925            |
| New Jersey.....       | 25                        | 797,205            | 8                         | 190,885            | .....                     | .....              | 3                         | 22,692             |
| New York.....         | 18                        | 916,262            | 7                         | 141,500            | 5                         | 120,666            | 7                         | 64,000             |
| Pennsylvania.....     | 18                        | 387,564            | 13                        | 369,200            | 1                         | 5,560              | 3                         | 23,123             |
| All other states..... | 19                        | 152,004            | 21                        | 2,700              | .....                     | .....              | 3                         | 6,640              |

<sup>1</sup> Includes establishments distributed as follows: Illinois, 3; Kentucky, 1; Minnesota, 1; Rhode Island, 1; Tennessee, 1; Vermont, 2.

<sup>2</sup> Missouri.

<sup>3</sup> Includes establishments distributed as follows: Maryland, 1; Ohio, 1; Vermont, 1.

Table 9 presents a comparison between the number of establishments, capital, and value of products for 1890 and 1900, by states, arranged geographically; also the percentage of total and of increase of each item.

TABLE 9.—COMPARATIVE SUMMARY: NUMBER OF ESTABLISHMENTS, CAPITAL, AND VALUE OF PRODUCTS, BY STATES, ARRANGED GEOGRAPHICALLY, WITH PERCENTAGES, 1890 AND 1900.

| STATES.                             | 1900            |                    |             |                    |                               |             |                          | 1890            |                    |             |                    |             |                          |         | PER CENT OF INCREASE IN—  |          |                    |
|-------------------------------------|-----------------|--------------------|-------------|--------------------|-------------------------------|-------------|--------------------------|-----------------|--------------------|-------------|--------------------|-------------|--------------------------|---------|---------------------------|----------|--------------------|
|                                     | Establishments. |                    | Capital.    |                    | Products.                     |             |                          | Establishments. |                    | Capital.    |                    | Products.   |                          |         | Number of establishments. | Capital. | Value of products. |
|                                     | Number.         | Per cent of total. | Amount.     | Per cent of total. | Number of gross. <sup>1</sup> | Value.      | Per cent of total value. | Number.         | Per cent of total. | Amount.     | Per cent of total. | Value.      | Per cent of total value. |         |                           |          |                    |
| United States .....                 | 238             | 100.0              | \$4,212,568 | 100.0              | 26,686,264                    | \$7,695,910 | 100.0                    | 106             | 100.0              | \$3,089,265 | 100.0              | \$4,216,795 | 100.0                    | 124.5   | 36.4                      | 82.5     |                    |
| New England states....              | 28              | 11.8               | 1,377,222   | 32.7               | 7,273,370                     | 1,902,527   | 24.7                     | 34              | 32.1               | 1,761,254   | 57.0               | 2,181,572   | 50.6                     | 217.6   | 221.8                     | 210.7    |                    |
| Massachusetts.....                  | 13              | 5.5                | 626,439     | 14.9               | 2,127,345                     | 681,081     | 8.9                      | 16              | 15.1               | 779,135     | 25.2               | 1,071,687   | 25.4                     | 218.8   | 219.6                     | 286.4    |                    |
| Connecticut.....                    | 11              | 4.6                | 532,178     | 12.6               | 4,668,359                     | 1,087,235   | 14.1                     | 14              | 13.2               | 914,796     | 29.6               | 928,028     | 22.0                     | 221.4   | 241.8                     | 17.2     |                    |
| All others <sup>2</sup> .....       | 4               | 1.7                | 218,605     | 5.2                | 477,666                       | 134,211     | 1.7                      | 44              | 8.8                | 67,823      | 2.2                | 181,857     | 3.2                      | .....   | 224.7                     | 1.8      |                    |
| Middle states .....                 | 104             | 43.7               | 2,262,512   | 53.7               | 11,898,171                    | 4,396,095   | 57.1                     | 65              | 61.3               | 1,244,126   | 40.3               | 1,996,013   | 47.3                     | 60.0    | 81.9                      | 120.2    |                    |
| New York.....                       | 49              | 20.6               | 1,195,343   | 28.4               | 6,779,482                     | 2,371,196   | 30.8                     | 34              | 32.1               | 653,215     | 21.1               | 1,012,694   | 24.0                     | 44.1    | 83.0                      | 134.2    |                    |
| New Jersey.....                     | 34              | 14.3               | 509,681     | 12.1               | 2,155,025                     | 1,025,544   | 13.3                     | 17              | 16.0               | 295,555     | 9.6                | 596,600     | 14.1                     | 100.0   | 72.4                      | 71.9     |                    |
| Pennsylvania.....                   | 21              | 8.8                | 557,488     | 13.2               | 2,963,664                     | 999,355     | 13.0                     | 14              | 13.2               | 295,356     | 9.6                | 386,719     | 9.2                      | 50.0    | 88.8                      | 138.4    |                    |
| Central states.....                 | 95              | 39.9               | 511,397     | 12.1               | 7,233,893                     | 1,326,888   | 17.3                     | 4               | 3.8                | 42,725      | 1.4                | 46,860      | 1.1                      | 2,275.0 | 1,097.0                   | 2,731.6  |                    |
| Ohio.....                           | 4               | 1.7                | 49,645      | 1.2                | 128,372                       | 58,373      | 0.8                      | .....           | .....              | .....       | .....              | .....       | .....                    | .....   | .....                     | .....    |                    |
| Illinois.....                       | 14              | 5.9                | 53,493      | 1.3                | 851,098                       | 242,444     | 3.2                      | 4               | 3.8                | 42,725      | 1.4                | 46,860      | 1.1                      | 250.0   | 25.2                      | 417.4    |                    |
| Wisconsin.....                      | 9               | 3.8                | 34,499      | 0.8                | 366,556                       | 63,125      | 0.8                      | .....           | .....              | .....       | .....              | .....       | .....                    | .....   | .....                     | .....    |                    |
| Iowa.....                           | 53              | 22.2               | 324,315     | 7.7                | 5,413,130                     | 866,538     | 11.3                     | .....           | .....              | .....       | .....              | .....       | .....                    | .....   | .....                     | .....    |                    |
| Missouri.....                       | 11              | 4.6                | 39,495      | 0.9                | 440,360                       | 85,449      | 1.1                      | .....           | .....              | .....       | .....              | .....       | .....                    | .....   | .....                     | .....    |                    |
| All others <sup>3</sup> .....       | 4               | 1.7                | 9,950       | 0.2                | 34,377                        | 10,459      | 0.1                      | .....           | .....              | .....       | .....              | .....       | .....                    | .....   | .....                     | .....    |                    |
| All other states <sup>4</sup> ..... | 11              | 4.6                | 61,437      | 1.5                | 280,830                       | 70,400      | 0.9                      | 73              | 2.8                | 41,160      | 1.3                | 42,350      | 1.0                      | 266.7   | 49.3                      | 66.2     |                    |

<sup>1</sup> Includes 5,432,246 gross of fresh-water pearl button blanks.  
<sup>2</sup> Decrease.

<sup>3</sup> Includes establishments distributed as follows: New Hampshire, 1; Rhode Island, 3.

<sup>4</sup> Includes establishments distributed as follows: Rhode Island, 4.

<sup>5</sup> Includes establishments distributed as follows: Michigan, 2; Minnesota, 2.

<sup>6</sup> Includes establishments distributed as follows: Arkansas, 1; California, 5; Kentucky, 1; Maryland, 2; Nebraska, 2.

<sup>7</sup> Includes establishments distributed as follows: District of Columbia, 1; Kentucky, 1; Maryland, 1.

From the beginning of button manufacture in this country down to 1890, almost the entire industry was carried on in the New England and Middle states. The census of 1810 was the first at which the manufacture was shown, and then only 3 states reported products: Connecticut, 155,000 gross, value \$102,125; Pennsylvania, 11,608 gross, value \$3,494; and Virginia, \$300; the total value of products for the industry being \$105,919. At the census of 1890 the New England and Middle states reported 93.4 per cent of the establishments, 97.3 per cent of the capital, and 97.9 per cent of the products.

The statistics for 1900 show a great change. The Central states, which in 1890 were credited with 4 establishments, or 3.8 per cent of the aggregate, reported 95, or 39.9 per cent. The capital invested in this group increased from \$42,725, or 1.4 per cent of the aggregate, to \$511,397, or 12.1 per cent, and the value of products increased from \$46,860, or 1.1 per cent of the aggregate, to \$1,326,888, or 17.3 per cent. In 1890 Illinois was the only state in this group reporting the manufacture of buttons; 4 establishments there having products valued at \$46,860. In 1900 the state had 14 establishments and products valued at \$242,444. Iowa contributed 53 new plants, with products valued at \$866,538, or 65.3 per cent of the total for the division. Thus, as to number of establishments, Iowa has taken the first place among all the states. The states of Ohio, Wisconsin, Michigan, Minnesota, Missouri, and Nebraska also engaged in the manufacture for the first time.

The number of establishments in the New England and Middle states increased from 99 in 1890 to 132 in 1900, or 33.3 per cent, but the percentage which they formed of the total number of establishments in the United States decreased from 93.4 in 1890 to 55.5 in 1900. The decrease in the proportion of the capital was not so marked. In 1890 the total capital for these two groups was \$3,005,380, or 97.3 per cent of the aggregate; in 1900 it was \$3,639,734, or 86.4 per cent of the aggregate, an increase of 21.1 per cent. In 1890 the value of products was \$4,127,585, or 97.9 per cent of the aggregate; in 1900 it was \$6,298,622, showing an increase of 52.6 per cent, although forming only 81.8 per cent of the aggregate value.

The growth of the industry outside of the New England and Middle states was chiefly in the manufacture of fresh-water pearl buttons and blanks—a branch of the industry, which, as already pointed out, requires a relatively small amount of capital per establishment. This explains why there was a greater reduction in the percentage of establishments reported for the New England and Middle states than in that of capital and products.

In 1900 New York held the first place in value of products, having displaced Massachusetts, which was first in 1890; Connecticut held the second place, New Jersey the third, Pennsylvania the fourth, Iowa the fifth, and Massachusetts the sixth. The number of establishments in New York increased from 7 in 1850 to 49 in 1900; and the value of products from \$64,600 to \$2,371,196.

The number of establishments in "all other states" was 3 in 1890, or 2.8 per cent of the aggregate; their capital was \$41,160, or 1.3 per cent of the aggregate; and the value of their products amounted to \$42,350, or 1 per cent of the aggregate. While the number of establishments reported at the census of 1900 was 11, an increase of 266.7 per cent, the capital had increased only 49.3 per cent, being 1.5 per cent of the aggregate, and the value of products increased only 66.2 per cent, forming nine-tenths of 1 per cent of the aggregate.

The New England states produced in 1900, 7,273,370 gross, or 27.3 per cent of the aggregate; the Middle states 11,898,171 gross, or 44.6 per cent; the Central states 7,233,893 gross, or 27.1 per cent; while all other divisions produced only 280,830 gross, or 1 per cent.

The centers of the different branches of the industry are located as follows:

- Bone buttons, Pennsylvania.
- Brass buttons, Connecticut, New York.
- Cloth buttons, Massachusetts.
- Composition buttons, Pennsylvania, New York.
- Fresh-water pearl button blanks, Iowa, Illinois.
- Fresh-water pearl buttons, New York, Iowa, Pennsylvania.
- Horn buttons, Connecticut.
- Ocean-pearl buttons, New York, New Jersey, Pennsylvania.
- Paper buttons, New Hampshire.
- Tin buttons, New Jersey.
- Vegetable ivory buttons, New York, Massachusetts, New Jersey.

Table 10 presents the kinds and value of buttons and button forms imported, 1891 to 1900, inclusive.

TABLE 10.—BUTTONS AND BUTTON FORMS, VALUE OF IMPORTS FOR CONSUMPTION, 1891 TO 1900, INCLUSIVE.<sup>1</sup>

| KINDS.   | 1900             | 1890             | 1898             | 1897             | 1896             | 1895             | 1894             | 1893             | 1892             | 1891             |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Total.....   | \$600,982        | \$450,958        | \$426,125        | \$953,235        | \$1,393,224      | \$1,034,836      | \$480,905        | \$1,393,046      | \$1,346,247      | \$2,176,046      |
| Agate buttons.....   | 103,745          | 81,162           | 59,736           | 229,083          | 240,410          | 195,737          | 130,183          | 191,538          | 161,848          | 322,003          |
| Bone buttons.....  | 12,450           | 4,256            | 2,001            | ( <sup>2</sup> ) |
| Collar and cuff buttons and studs.....   | 156,576          | 131,081          | 113,896          | ( <sup>2</sup> ) |
| Glass buttons.....   | 27,937           | 89,701           | 5,725            | 31,221           | 132,553          | 66,463           | 8,843            | 51,022           | 104,676          | ( <sup>2</sup> ) |
| Horn and vegetable ivory buttons.....  | 71,452           | 30,158           | 103,158          | \$258,599        | \$293,041        | \$207,456        | \$156,811        | \$471,075        | \$407,472        | \$175,343        |
| Metal buttons, not specially provided for.....   | 58,189           | 64,548           | 29,738           | 110,428          | 295,298          | 79,749           | 41,998           | 195,696          | 133,728          | ( <sup>2</sup> ) |
| Nickel bar buttons.....  | 1,044            | 821              | 400              | ( <sup>2</sup> ) |
| Pearl or shell buttons.....  | 36,262           | 24,239           | 36,557           | 259,278          | 332,210          | 378,886          | 38,284           | 276,216          | 292,332          | 100,001          |
| Shoe buttons of paper, board, etc.....   | 425              | 549              | 2,004            | 8,333            | 12,235           | 12,914           | 2,552            | 7,703            | 12,100           | 6,811            |
| Silk buttons.....  | 805              | 1,140            | 1,371            | ( <sup>2</sup> ) | 1,820            | 1,097            | 480              | 1,762            | 8,731            | 17,539           |
| Trousers buttons:  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Steel.....   | 182              | 329              | 1,477            | ( <sup>2</sup> ) |
| Other metal.....   | 530              | 925              | 1,903            | ( <sup>2</sup> ) |
| Other buttons, not specially provided for.....   | 18,426           | 7,913            | 6,677            | ( <sup>2</sup> ) |
| Button forms, lastings, mohair cloth, silk, or other manufactures of cloth, made or cut in such manner as to be fit for buttons exclusively..... | 112,959          | 64,181           | 67,487           | 55,293           | 85,612           | 85,534           | 52,299           | 199,034          | 225,360          | 599,848          |
| Not specially provided for, not including brass, gilt, or silk buttons.....  | ( <sup>2</sup> ) | 954,131          |

<sup>1</sup> Commerce and Navigation of the United States, United States Treasury Department.  
<sup>2</sup> Not reported separately.

<sup>3</sup> Includes values of bone buttons.

These imports were not classified until 1891. While the imports fell from \$3,899,132 in 1886 to \$3,155,500 in 1890, or only 19.1 per cent, the decrease from 1890 to 1900 was from \$3,155,500 to \$600,982, or 81 per cent. In 1886 and 1890 brass and gilt buttons were included under the manufactures of brass, and could not be separated. As they were included in the total for 1900, the decrease was in reality still larger than the above figures indicate.

The classification of button imports for 1891 was incomplete. The very large amount of "all other kinds" included metal, glass, and probably some pearl buttons, the value given under the separate heading "pearl buttons" being abnormally low. The importations of pearl buttons, which previous to 1891 constituted the largest part of the imports, had almost ceased in 1900. In this connection extracts from three reports of the United States consuls-general at Vienna, Austria, are interesting.

On December 30, 1887, Consul-General Jussen reported as follows: "The manufacture of pearl buttons is not an industry of the United States, and probably never will be. The reason why this industry can not thrive in the United States is quite obvious. Pearl

buttons can not be manufactured by machinery, but, owing to the brittle nature of the raw material, they must of necessity be made by hand. As this hand labor is performed at the low rate of from \$2 to \$2.80 per week, the competition of the American laborer is out of the question. The declared value of pearl buttons exported from Austria to the United States during the year 1886 amounted to \$1,681,747." On December 31, 1889, Consul-General Goldschmidt reported the exports of pearl buttons from Austria to the United States as follows: 1884, \$1,496,000; 1887, \$1,612,000; 1888, \$1,558,000; and 1889, \$1,352,000. Two years later, in 1891, the total importation of pearl buttons into the United States had fallen to \$100,001. In 1895 it was \$375,886, but in 1900 it amounted to only \$36,262. On April 29, 1898, Consul-General Hurst reported as follows: "The pearl button industry of Austria-Hungary, which in former years occupied a prominent place among the flourishing industries of the monarchy, has dwindled of late to such an insignificant figure that pearl buttons can no longer be regarded as one of the principal articles of export to the United States. This may be attributed to the development of the industry in the United States."

The principal kinds of buttons imported are agate

buttons, which are not manufactured in the United States: the higher grades of collar and cuff buttons; ivory buttons; and button coverings, including linen hanks and tufts. The importation of this last class decreased from \$599,848 in 1891 to \$112,959 in 1900, or 81.2 per cent. The importation of silk buttons had practically ceased. In 1886 it amounted to \$55,583, and in 1900 to \$805, or a decrease of 98.6 per cent.

Previous to 1890 there were no exports of buttons from the United States, but during the last few years considerable quantities have been sent abroad. The value of these exports can not be given, as they are not classified as buttons in the Treasury Department's schedule, but according to the material, or, in many instances, as "notions."

#### HISTORICAL AND DESCRIPTIVE.

The button, which to-day is one of the indispensable parts of civilized wearing apparel, is an article of comparatively modern invention. Its earliest appearance, in its modern application, is found in the time of Edward I. As a trade of any importance the making of buttons dates back no further than the reign of Elizabeth, when, in connection with the newly invented buttonhole, buttons were often used as a means of holding garments together. These buttons were wholly a product of needlework, with the exception of the wooden mold. A manufactory for the making of brass buttons was established at Birmingham, England, in 1689, and that city soon became the center of the industry, remaining so to this day. From that time buttons have been divided into three general classes: shank buttons, hole buttons, and covered buttons. As late as the beginning of the Nineteenth century covered buttons were made by hand by covering a wooden mold or form with the desired materials. This mode of manufacture was revolutionized by B. Sanders, a Dane, who emigrated to Birmingham after having lost all his property by the bombardment of Copenhagen in 1807. Mr. Sanders conceived the idea of making the button in two parts. Two disks or molds were made of sheet brass or tin. The upper disk, after having its edge turned up, was covered with cloth. The under disk, which was smaller than the upper and convex in shape, had a wire shank put inside. The material which was to keep this shank in place was inserted, and the two disks were pressed together, the turned edges interlocking, making a perfect button. A son of Mr. Sanders made the seemingly trivial, but, for practical purposes, very important improvement of substituting a canvas or cloth tuft for the metal shank. Though many improvements have been made in the process of manufacturing covered buttons, the principle of Mr. Sanders' invention has not been superseded.

It is stated that Casper Wistar manufactured brass buttons in Philadelphia prior to 1750.<sup>1</sup> This is the earliest mention of button manufacture in the United

States. Soon after that Henry Witeman set up the manufacture of metal buttons near the Fly Market in New York.<sup>1</sup> Another pioneer was Benjamin Randolph, at the Golden Eagle, on Chestnut street, Philadelphia, who, toward the end of the Eighteenth century, manufactured wooden buttons "of apple, holly, and laurel wood, hard and clear," but as late as 1797 there were only two button factories in Philadelphia.<sup>2</sup> The soldiers of the Revolution wore metal buttons of prescribed patterns, but these were imported from France.

The first button factory in Waterbury, Conn.,—now the center of the metal-button industry—of which there is any record, was established just before 1800 by Henry, Samuel, and Silas Grilley.<sup>3</sup> Their buttons were made of block tin or pewter and cast iron molds. About 1800 great improvements were made in Europe in the making and attaching of shanks or eyes to metal buttons, and in 1802 the firm of Abel Porter & Co. was organized for the manufacture of metal buttons in Waterbury. It took this concern eighteen months to get started, and when ready for business it employed 13 men, of whom 4 were members of the firm. The copper was obtained by the purchase of old stills, teakettles, etc., which were cast into ingots and taken to an iron mill in Bradleyville to be rolled into sheets. These were afterwards finished at the button factory on a pair of rolls 2 inches wide, driven by horsepower. The capital of this concern had been exhausted during the long period of experiments, and the establishment soon changed hands. Little progress was made until 1820, when an Englishman, James Croft, who had a thorough knowledge of the business, was employed, and thereafter the development of the metal-button industry was comparatively rapid.

Metal buttons, whether oval or flat, are made from rolled brass plate. Originally the flat buttons were solid and struck out as blanks from a thick plate; the shank was soldered on afterwards, and the whole was then finished by gilding or silvering. Later, when Mr. Sanders' principle was applied in making metal buttons, the upper blank was driven by a heavy pressure into a die of hardened steel, which gave it the desired shape and pattern. The under blank was similarly pressed in another die, which also riveted the shank into the plate. The two dies were then pressed together and the button was complete except the finishing, which process was accomplished by electroplating.

The manufacture of covered buttons by machinery had not been attempted in the United States until about 1827. Samuel Williston was the founder of the industry. In his home at Easthampton, Mass., he and his wife commenced covering buttons by hand. By the gradual introduction of machinery the business grew, until about 1834 he associated with himself Joel and Josiah Hayden, of Haydenville, with the object of improving the machines. At first they met with failure, but later on, with the

<sup>1</sup> History of American Manufactures, by J. L. Bishop, Part I, page 574.

<sup>2</sup> History of American Manufactures, by J. L. Bishop, Part I, page 575.

<sup>3</sup> Ibid., Part III, page 360.

assistance of Francis Sidney, who had worked in button factories in England, they succeeded in producing fairly good machinery. Inventors have been constantly introducing labor- and time-saving machinery, and to-day the greater part of the work is done automatically. At the present time nearly all the lastings and other parts used to cover the buttons are manufactured in the United States, but before 1892 they were imported from Europe.

Aaron Benedict started to manufacture ivory and horn buttons in Waterbury, Conn., about 1812. The raw material of the horn button is generally the hoofs of cattle. The hoofs are boiled in large kettles, which process softens them; then they are cut by machines into pieces, which other machines form into buttons. These go under a hydraulic press, which stamps the desired patterns upon them. Still different machines are used for boring holes and for polishing.

The vegetable ivory button industry was introduced into the United States in 1859, when A. W. Critchlow, an Englishman, started a factory at Leeds, Mass. The raw material is the seed of the fruit of *Phytelephas Macrocarpa*, a low-growing palm of South America; the principal shipping point for which is Colon, Colombia. The seed is commonly known as the ivory nut, and is about the size of a hen's egg. The albumen is close-grained and very hard, resembling the finest ivory in texture and color. These nuts are either cut in halves, from which the buttons are sawed out, or sawed in small blocks, from which the larger buttons are formed. The vegetable ivory is especially adapted to the application of colors. The methods of manufacture of the vegetable ivory buttons have changed very little since the time of its introduction here, but great progress has been made in the dyeing of the buttons in various colors and patterns, and also in the finish, and to-day the products of the home factories rival the European product. This branch of the industry ranks third.

In 1862 attempts were made in Newark, N. J., to manufacture composition buttons, but owing to mechanical difficulties which seemed insurmountable, the enterprise was soon abandoned. Twelve years later an attempt was made in New York City to start this industry, but, though more successful than the preceding ones, it had to be abandoned after one year. In 1875, however, Isaac Smith, of New York, associated himself with the Dickinson Hard Rubber Company, of Springfield, Mass., and this concern solved the mechanical difficulties and made the manufacture of composition buttons a success. These buttons, which closely resemble those manufactured from vegetable ivory, are made of plastic material, i. e., a mass which softens under the influence of heat and becomes hard when cold. The ingredients used are certain fossil and vegetable gums, combined with finely comminuted carbonate of lime, feldspar, mica, or kindred minerals. These ingredients are thoroughly mixed in steam-heated grinders. When the minerals are properly amalgamated with the gums, the mass is run off in sheets and allowed to cool. Later

these sheets are placed on hot platens, contact with which softens them, and facilitates cutting into strips of convenient form for placing in the dies.

Soon after 1875 a tremendous impetus was given to this branch of the button industry by the fashion, then coming into vogue, of trimming ladies' garments lavishly with buttons, not merely for fastening purposes but also for ornamentation. Such was the demand of the trade that the manufacturers were unable to supply it. This demand stimulated inventive genius, and several epoch-making inventions followed. Among these were the use of templates in making dies, invented by Charles R. Wickes and patented by him in 1877, and the pin plate to mold buttons with holes, invented by Mr. Wickes and Philip L. Sylvester and patented by them in 1878. Previous to this time all holes had to be bored by hand after the button had been molded. In 1880 hydraulic presses were introduced, and in 1882 one of the most progressive steps in the making of composition buttons was taken when the automatic button machine was invented by Mr. Sylvester. By the use of this machine the possible production of buttons was largely increased. The method of mixing and preparing the plastic material was greatly improved by another invention of Mr. Sylvester, as described in letters patent issued March, 1900. There are only 5 factories in the United States producing composition buttons, but 2 of them, located in Pennsylvania and New York, are among the largest in the world.

A peculiar branch of the button industry in the United States is the manufacture of campaign and society buttons, mostly from celluloid. Another kind which has been manufactured in large quantities during the last few years is the photo button. Buttons are also made from potatoes, and can not be distinguished from horn, ivory, and bone buttons save by a careful examination.<sup>1</sup> It is not commonly known that if the common Irish potato be treated with certain acids it becomes almost as hard as stone. A few years ago there was a factory in Brooklyn, N. Y., at which buttons, etc., were made from potatoes, but there is no record of its present existence. Buttons made from skim milk—casein—were introduced in London some years ago, and small quantities have been made in the United States. Buttons made from blood have also been on the market, and during the last decade buttons were made in Massachusetts from *Lamaniaria*, a brown seaweed. From the establishment of the United States Patent Office until the year 1900, 348 patents were granted for button machines and 1,355 for the making of buttons.

The most important branch of the button industry of to-day in the United States is the manufacture of pearl buttons. It embraces buttons made from mother-of-pearl and from the shells of the Unios, which are so abundant in the Mississippi River. In value the production of these varieties of buttons in 1900 formed 48.4 per cent of the product reported for the entire button industry (Table 7.) The making of buttons from

<sup>1</sup> Cole's Dictionary of Dry Goods.

mother-of-pearl was introduced into the United States on a small scale about 1855. At that time, and for many years thereafter, the shells were brought from China, but now the markets of the world are supplied principally from South Australia and from the South Sea Islands. The technical name for buttons made of mother-of-pearl is "ocean pearl," while those made from the shell of the *Unio* are called "fresh-water pearl" buttons. The higher grades of pearl buttons are still manufactured from the ocean shell, and the production of these far outranked that of all other kinds, constituting 30.2 per cent of the total value of buttons manufactured in the United States.

In 1890 there was not a single fresh-water pearl button made in the United States. In 1900 the making of these buttons constituted the second most important branch of the button industry. In Europe shells of the mussels found in rivers have been utilized for button making for the last fifty years. To Mr. J. F. Boepple, of Muscatine, Iowa, belongs the credit of having started the industry in the United States, and now it is the source of income for thousands of persons. In 1891 Mr. Boepple, who is a native of Hamburg, Germany, where he learned the trade of making pearl buttons, formed a partnership for the manufacture of buttons from the "*Unio*," or "niggerhead" shells, as they are called locally, which were banked up for miles along the river in front of Muscatine. After experimenting for some time this concern found the business unprofitable and it was dissolved. Nothing daunted, Mr. Boepple continued making the buttons, on a small scale, at his home. He finally organized a company which, by the process of manufacture and machinery utilized in Austria and Germany, succeeded in making the enterprise a success. The tools needed in the manufacture of shell buttons were of the simplest character, consisting, for the most part, of turning lathes worked by steam or foot power; consequently it was not long before the Mississippi River was lined with button factories all the way from Red Wing, Minn., to Louisiana, Mo. Muscatine, Iowa, became the center of this new industry. A few years ago there were more than 40 factories in that city for the cutting of blanks and for the making of buttons, but the tendency toward concentration has made itself felt, as has also the need of improved machinery and large capital to withstand the tremendous competition, and all along the river the smaller concerns are being eliminated. The difference in price between the ocean shells and the *Unios* has been an important factor in the development of the fresh-water button industry. A few years ago the mussel shells were delivered at the factories at about 50 to 60 cents per 100 pounds, while at the same time ocean shells were worth from \$30 to \$60 for the same quantity. In February, 1898, prices went up to \$18 to \$20 per ton for "niggerheads," but in July of the same year they were cheaper than ever before or since, selling at 30 cents per 100 pounds. The cheapest grade of ocean

shells are the Panama, which sell at 10½ cents per pound.

The improvements in machinery in recent years have been so rapid that some manufacturers have exchanged their machines three times in three years, each time practically reequipping the entire plants.

The following is a short résumé of the mode of making pearl buttons: After the mussels have been cooked and the meat removed, the shells are taken to the factories and stored in sheds. They are then sorted into three different sizes and soaked in barrels of water from three to six days to render them less brittle. They must be used while wet, otherwise they crumble under the saw. The next step is the cutting or sawing of the rough blanks. The shells are usually held with pliers while being cut, but some sawers hold them in their hands. The saws are hollow, cylindrical pieces of steel, 2 inches wide, and with a diameter corresponding to the size of the button. At one end these cylinders are provided with fine teeth; they are adjusted to lathes in which they revolve. As the sawer holds the shell against the saw, the blanks are cut out and passed back into the saw and saw holder and drop into a receiver. The next step is the dressing or grinding of the back of the blank to remove the skin and make an even surface. To accomplish this, each blank has to be held with the finger against a revolving emery wheel. Then comes the turning, by which the front of the button is given its form, including the central depression. When the holes are drilled the button is complete, with the exception of the polishing process, which brings out the natural luster which was lost in the grinding. It is this luster which gives the buttons their chief value. The polishing is effected by placing the buttons in bulk in large wooden tumblers or kegs, in which they are subjected to the action of a chemical fluid as the tumblers revolve. By mutual contact, combined with the effect of the fluid, the buttons become highly lustrous. Then they are washed, dried, and sorted into sizes and grades of quality. After being sewed on cards and packed in pasteboard boxes, the buttons are ready for the market.

The majority of the factories in the West do not finish the buttons, but merely cut the blanks. These are then sent to the factories in the East, which are supplied with improved machinery for the finishing of the buttons. Some of these Eastern factories formerly made buttons out of imported mother-of-pearl shells, but now their principal work is the finishing of the home product.

Notwithstanding the enormous progress this branch of the industry has made during the last five years, it is yet in its infancy. The only disquieting circumstance is the injudicious and wanton depredation of the shell deposits. The beds in front of Muscatine, Iowa, are already exhausted, and unless something is done to protect the mussels, it will not be long before the raw material for this industry will be exhausted.

Table 11 shows in detail the statistics relating to the manufacture of buttons as returned in 1900.

TABLE 11.—BUTTONS,

|     | United States.  | California. | Connecticut. | Illinois.   |           |
|-----|---|-------------|--------------|-------------|-----------|
| 1   | Number of establishments .....  | 288         | 5            | 11          | 14        |
| 2   | Character of organization:  |             |              |             |           |
| 3   | Individual .....  | 116         | 5            | 6           | 10        |
| 4   | Firm and limited partnership .....  | 70          |              | 1           | 2         |
| 5   | Incorporated company .....  | 52          |              | 4           | 2         |
| 6   | Capital:  |             |              |             |           |
| 7   | Total .....   | \$4,212,568 | \$6,487      | \$592,178   | \$53,493  |
| 8   | Land .....  | \$145,270   |              | \$16,400    | \$525     |
| 9   | Buildings .....   | \$433,268   |              | \$96,000    | \$1,450   |
| 10  | Machinery, tools, and implements .....  | \$1,310,442 | \$725        | \$164,723   | \$14,271  |
| 11  | Cash and sundries .....   | \$2,323,598 | \$5,762      | \$225,050   | \$87,247  |
| 12  | Proprietors and firm members .....  | 267         | 6            | 10          | 15        |
| 13  | Salaried officials, clerks, etc.:   |             |              |             |           |
| 14  | Total number .....  | 339         | 1            | 24          | 14        |
| 15  | Total salaries .....  | \$296,358   | \$1,200      | \$30,812    | \$7,629   |
| 16  | Officers of corporations—   |             |              |             |           |
| 17  | Number .....  | 51          |              | 4           |           |
| 18  | Salaries .....  | \$76,966    |              | \$9,000     |           |
| 19  | General superintendents, managers, clerks, etc.—  |             |              |             |           |
| 20  | Total number .....  | 288         | 1            | 20          | 14        |
| 21  | Total salaries .....  | \$219,392   | \$1,200      | \$21,812    | \$7,629   |
| 22  | Men—  |             |              |             |           |
| 23  | Number .....  | 235         |              | 16          | 13        |
| 24  | Salaries .....  | \$190,625   |              | \$20,248    | \$7,213   |
| 25  | Women—  |             |              |             |           |
| 26  | Number .....  | 58          | 1            | 4           | 1         |
| 27  | Salaries .....  | \$22,767    | \$1,200      | \$1,564     | \$416     |
| 28  | Wage-earners, including pieceworkers, and total wages:                                    |             |              |             |           |
| 29  | Greatest number employed at any one time during the year .....                            | 10,490      | 6            | 876         | 314       |
| 30  | Least number employed at any one time during the year .....                               | 7,708       | 6            | 668         | 234       |
| 31  | Average number .....  | 8,685       | 6            | 800         | 272       |
| 32  | Wages .....   | \$2,323,238 | \$938        | \$305,687   | \$101,039 |
| 33  | Men, 16 years and over—   |             |              |             |           |
| 34  | Average number .....  | 4,086       |              | 305         | 210       |
| 35  | Wages .....   | \$1,753,133 |              | \$169,763   | \$86,174  |
| 36  | Women, 16 years and over—   |             |              |             |           |
| 37  | Average number .....  | 4,131       | 2            | 460         | 49        |
| 38  | Wages .....   | \$997,857   | \$336        | \$132,018   | \$11,302  |
| 39  | Children, under 16 years—   |             |              |             |           |
| 40  | Average number .....  | 468         | 4            | 85          | 14        |
| 41  | Wages .....   | \$75,248    | \$652        | \$3,906     | \$3,563   |
| 42  | Average number of wage-earners, including pieceworkers, employed during each month:       |             |              |             |           |
| 43  | Men, 16 years and over—   |             |              |             |           |
| 44  | January .....   | 4,216       |              | 270         | 229       |
| 45  | February .....  | 4,271       |              | 306         | 219       |
| 46  | March .....   | 4,363       |              | 291         | 226       |
| 47  | April .....   | 4,401       |              | 304         | 242       |
| 48  | May .....   | 4,271       |              | 311         | 219       |
| 49  | June .....  | 3,766       |              | 311         | 191       |
| 50  | July .....  | 3,707       |              | 296         | 194       |
| 51  | August .....  | 3,837       |              | 307         | 189       |
| 52  | September .....   | 3,908       |              | 318         | 192       |
| 53  | October .....   | 4,042       |              | 317         | 197       |
| 54  | November .....  | 4,121       |              | 314         | 201       |
| 55  | December .....  | 4,129       |              | 312         | 221       |
| 56  | Women, 16 years and over—   |             |              |             |           |
| 57  | January .....   | 4,071       | 2            | 388         | 51        |
| 58  | February .....  | 4,136       | 2            | 468         | 51        |
| 59  | March .....   | 4,299       | 2            | 448         | 51        |
| 60  | April .....   | 4,330       | 2            | 469         | 51        |
| 61  | May .....   | 4,196       | 2            | 487         | 47        |
| 62  | June .....  | 4,068       | 2            | 475         | 47        |
| 63  | July .....  | 3,880       | 2            | 426         | 47        |
| 64  | August .....  | 3,950       | 2            | 443         | 47        |
| 65  | September .....   | 4,068       | 2            | 485         | 47        |
| 66  | October .....   | 4,207       | 2            | 487         | 47        |
| 67  | November .....  | 4,259       | 2            | 482         | 47        |
| 68  | December .....  | 4,108       | 2            | 472         | 47        |
| 69  | Children, under 16 years—   |             |              |             |           |
| 70  | January .....   | 459         | 4            | 31          | 14        |
| 71  | February .....  | 449         | 4            | 35          | 14        |
| 72  | March .....   | 450         | 4            | 36          | 14        |
| 73  | April .....   | 478         | 4            | 37          | 14        |
| 74  | May .....   | 462         | 4            | 39          | 14        |
| 75  | June .....  | 475         | 4            | 34          | 14        |
| 76  | July .....  | 455         | 4            | 34          | 14        |
| 77  | August .....  | 458         | 4            | 36          | 14        |
| 78  | September .....   | 477         | 4            | 36          | 14        |
| 79  | October .....   | 492         | 4            | 36          | 14        |
| 80  | November .....  | 493         | 4            | 34          | 14        |
| 81  | December .....  | 468         | 4            | 37          | 14        |
| 82  | Miscellaneous expenses:   |             |              |             |           |
| 83  | Total .....   | \$393,862   | \$1,277      | \$117,643   | \$11,329  |
| 84  | Rent of works .....   | \$84,279    | \$635        | \$3,979     | \$3,487   |
| 85  | Taxes, not including internal revenue .....   | \$14,436    | \$50         | \$9,681     | \$95      |
| 86  | Rent of offices, interest, insurance, and all sundry expenses not hitherto included ..... | \$207,107   | \$502        | \$37,751    | \$7,747   |
| 87  | Contract work .....   | \$88,040    |              | \$72,232    |           |
| 88  | Materials used:   |             |              |             |           |
| 89  | Total cost .....  | \$2,303,246 | \$2,795      | \$430,137   | \$66,213  |
| 90  | Principal materials .....   | \$2,386,696 | \$2,567      | \$287,404   | \$60,824  |
| 91  | Fuel .....  | \$46,665    | \$2          | \$9,462     | \$2,023   |
| 92  | Rent of power and heat .....  | \$23,375    | \$48         | \$1,895     | \$530     |
| 93  | Mill supplies .....   | \$31,728    | \$10         | \$2,034     | \$714     |
| 94  | All other materials .....   | \$252,496   | \$138        | \$120,709   | \$1,350   |
| 95  | Freight .....   | \$52,286    | \$30         | \$8,680     | \$772     |
| 96  | Products:   |             |              |             |           |
| 97  | Aggregate value .....   | \$7,695,910 | \$8,870      | \$1,087,235 | \$242,444 |
| 98  | Buttons—  |             |              |             |           |
| 99  | Total number of gross .....   | 21,254,018  | 23,570       | 4,668,359   | 220,155   |
| 100 | Total value .....   | \$6,487,373 | \$7,250      | \$860,808   | \$101,640 |
| 101 | Bone—   |             |              |             |           |
| 102 | Gross .....   | 297,180     | 2,500        |             |           |
| 103 | Value .....   | \$137,401   | \$500        |             |           |
| 104 | Cloth—  |             |              |             |           |
| 105 | Gross .....   | 1,372,870   | 20,600       | 232,141     | 57,700    |
| 106 | Value .....   | \$468,121   | \$5,750      | \$55,990    | \$10,740  |

<sup>1</sup>Includes establishments distributed as follows: Arkansas, 1; Kentucky, 1; Maryland, 2; Michigan, 2; Minnesota, 2; Nebraska, 2; New Hampshire, 1.

BUTTONS.

BY STATES: 1900.

| Iowa.       | Massachusetts. | Missouri. | New Jersey.   | New York.     | Ohio.     | Pennsylvania. | Rhode Island. | Wisconsin. | All other states. <sup>1</sup> |    |
|-------------|----------------|-----------|---------------|---------------|-----------|---------------|---------------|------------|--------------------------------|----|
| 58          | 13             | 11        | 34            | 49            | 4         | 21            | 3             | 9          | 11                             | 1  |
| 21          | 6              | 5         | 20            | 24            | 1         | 8             | 2             | 4          | 4                              | 2  |
| 21          | 3              | 4         | 11            | 12            | 2         | 9             | 3             | 3          | 2                              | 3  |
| 11          | 4              | 2         | 8             | 18            | 1         | 4             | 1             | 2          | 5                              | 4  |
| \$324, 815  | \$626, 439     | \$39, 495 | \$509, 681    | \$1, 195, 343 | \$49, 645 | \$557, 488    | \$29, 116     | \$34, 499  | \$254, 389                     | 5  |
| \$15, 685   | \$33, 800      | \$600     | \$6, 250      | \$13, 100     |           | \$24, 500     |               | \$1, 300   | \$3, 100                       | 6  |
| \$24, 991   | \$105, 300     | \$3, 150  | \$34, 672     | \$46, 900     |           | \$47, 580     |               | \$4, 595   | \$68, 630                      | 7  |
| \$111, 727  | \$122, 669     | \$12, 188 | \$154, 086    | \$395, 107    | \$15, 500 | \$200, 062    | \$20, 500     | \$12, 539  | \$86, 400                      | 8  |
| \$171, 912  | \$364, 670     | \$23, 557 | \$314, 723    | \$740, 286    | \$34, 145 | \$285, 356    | \$8, 616      | \$16, 065  | \$96, 259                      | 9  |
| 61          | 12             | 15        | 48            | 48            | 6         | 30            | 2             | 9          | 11                             | 10 |
| 42          | 19             | 4         | 53            | 105           | 7         | 42            | 4             | 4          | 20                             | 11 |
| \$26, 306   | \$31, 164      | \$1, 236  | \$50, 299     | \$33, 195     | \$4, 786  | \$39, 152     | \$2, 464      | \$1, 425   | \$16, 690                      | 12 |
| 5           | 4              |           | 8             | 13            | 1         | 7             |               | 3          | 6                              | 13 |
| \$5, 120    | \$13, 900      |           | \$13, 025     | \$14, 216     | \$2, 500  | \$11, 760     |               | \$1, 325   | \$6, 120                       | 14 |
| 87          | 15             | 4         | 45            | 92            | 6         | 35            | 4             | 1          | 14                             | 15 |
| \$21, 186   | \$17, 264      | \$1, 236  | \$37, 274     | \$68, 979     | \$2, 286  | \$27, 392     | \$2, 464      | \$100      | \$10, 570                      | 16 |
| 33          | 9              | 1         | 42            | 77            | 5         | 25            | 2             | 1          | 11                             | 17 |
| \$20, 238   | \$15, 200      | \$300     | \$36, 213     | \$62, 547     | \$1, 870  | \$22, 332     | \$1, 564      | \$100      | \$8, 750                       | 18 |
| 4           | 6              | 3         | 3             | 15            | 1         | 10            |               |            | 3                              | 19 |
| \$898       | \$2, 064       | \$936     | \$1, 061      | \$6, 432      | \$416     | \$5, 060      | \$900         |            | \$1, 820                       | 20 |
| 1, 392      | 871            | 143       | 1, 363        | 3, 134        | 109       | 1, 278        | 62            | 150        | 242                            | 21 |
| 1, 308      | 679            | 118       | 956           | 2, 292        | 68        | 1, 074        | 19            | 106        | 157                            | 22 |
| 1, 402      | 772            | 83        | 1, 169        | 2, 647        | 72        | 1, 140        | 28            | 106        | 188                            | 23 |
| \$458, 086  | \$276, 202     | \$23, 881 | \$410, 056    | \$312, 978    | \$13, 268 | \$321, 478    | \$3, 501      | \$32, 108  | \$56, 971                      | 24 |
| 387         | 302            | 58        | 551           | 1, 157        | 29        | 347           | 19            | 74         | 147                            | 25 |
| \$361, 062  | \$141, 049     | \$19, 133 | \$258, 119    | \$464, 512    | \$10, 504 | \$166, 892    | \$5, 780      | \$26, 038  | \$44, 101                      | 26 |
| 441         | 443            | 21        | 544           | 1, 349        | 40        | 711           | 9             | 26         | 37                             | 27 |
| \$36, 550   | \$131, 929     | \$4, 220  | \$135, 610    | \$325, 130    | \$7, 140  | \$141, 601    | \$2, 771      | \$5, 880   | \$12, 370                      | 28 |
| 74          | 27             | 4         | 74            | 141           | 3         | 82            |               | 6          | 4                              | 29 |
| \$10, 474   | \$3, 224       | \$528     | \$16, 327     | \$22, 830     | \$624     | \$12, 980     |               | \$140      | \$500                          | 30 |
| 1, 016      | 296            | 76        | 507           | 1, 185        | 31        | 355           | 16            | 89         | 146                            | 31 |
| 988         | 292            | 80        | 535           | 1, 214        | 31        | 357           | 25            | 90         | 134                            | 32 |
| 1, 005      | 295            | 96        | 550           | 1, 224        | 31        | 371           | 34            | 85         | 155                            | 33 |
| 969         | 300            | 97        | 555           | 1, 281        | 31        | 356           | 22            | 85         | 159                            | 34 |
| 890         | 293            | 87        | 550           | 1, 248        | 34        | 355           | 17            | 90         | 172                            | 35 |
| 749         | 291            | 40        | 549           | 1, 052        | 27        | 336           | 11            | 67         | 142                            | 36 |
| 797         | 303            | 21        | 531           | 1, 024        | 27        | 325           | 11            | 44         | 134                            | 37 |
| 801         | 296            | 21        | 533           | 1, 118        | 27        | 334           | 21            | 50         | 135                            | 38 |
| 800         | 304            | 86        | 530           | 1, 105        | 27        | 338           | 16            | 61         | 131                            | 39 |
| 841         | 313            | 46        | 531           | 1, 146        | 28        | 338           | 16            | 71         | 143                            | 40 |
| 898         | 313            | 51        | 575           | 1, 159        | 28        | 348           | 13            | 74         | 147                            | 41 |
| 919         | 319            | 51        | 556           | 1, 129        | 28        | 348           | 20            | 76         | 150                            | 42 |
| 442         | 456            | 24        | 518           | 1, 402        | 35        | 693           | 6             | 24         | 35                             | 43 |
| 342         | 457            | 27        | 562           | 1, 334        | 33        | 744           | 10            | 25         | 31                             | 44 |
| 420         | 446            | 27        | 564           | 1, 401        | 47        | 812           | 18            | 26         | 37                             | 45 |
| 427         | 463            | 23        | 573           | 1, 419        | 53        | 763           | 21            | 27         | 39                             | 46 |
| 463         | 446            | 21        | 498           | 1, 414        | 65        | 684           | 8             | 26         | 35                             | 47 |
| 432         | 443            | 24        | 537           | 1, 314        | 35        | 688           | 3             | 27         | 36                             | 48 |
| 450         | 457            | 9         | 504           | 1, 206        | 35        | 681           | 4             | 24         | 35                             | 49 |
| 458         | 434            | 9         | 518           | 1, 232        | 35        | 704           | 11            | 23         | 34                             | 50 |
| 454         | 443            | 13        | 540           | 1, 298        | 36        | 633           | 7             | 27         | 33                             | 51 |
| 471         | 423            | 18        | 571           | 1, 387        | 34        | 694           | 8             | 28         | 37                             | 52 |
| 479         | 426            | 27        | 532           | 1, 399        | 34        | 703           | 9             | 27         | 42                             | 53 |
| 452         | 413            | 31        | 556           | 1, 335        | 34        | 633           | 7             | 28         | 48                             | 54 |
| 73          | 24             | 4         | 76            | 139           | 2         | 82            |               | 6          | 4                              | 55 |
| 67          | 25             | 4         | 77            | 127           | 2         | 84            |               | 6          | 4                              | 56 |
| 72          | 26             | 4         | 73            | 126           | 2         | 83            |               | 6          | 4                              | 57 |
| 71          | 23             | 4         | 75            | 154           | 2         | 80            |               | 6          | 3                              | 58 |
| 71          | 26             | 4         | 66            | 139           | 6         | 83            |               | 6          | 4                              | 59 |
| 76          | 23             | 3         | 68            | 150           | 4         | 84            |               | 6          | 4                              | 60 |
| 76          | 30             | 3         | 73            | 125           | 4         | 82            |               | 6          | 4                              | 61 |
| 76          | 26             | 3         | 74            | 131           | 2         | 83            |               | 6          | 3                              | 62 |
| 76          | 29             | 3         | 80            | 143           | 2         | 80            |               | 6          | 4                              | 63 |
| 82          | 23             | 3         | 84            | 150           | 2         | 79            |               | 6          | 4                              | 64 |
| 77          | 23             | 4         | 79            | 159           | 2         | 82            |               | 6          | 4                              | 65 |
| 73          | 30             | 4         | 67            | 148           | 2         | 79            |               | 6          | 4                              | 66 |
| \$37, 252   | \$27, 505      | \$10, 788 | \$37, 379     | \$110, 717    | \$5, 701  | \$17, 633     | \$4, 393      | \$1, 330   | \$9, 865                       | 67 |
| \$4, 024    | \$4, 176       | \$2, 640  | \$16, 521     | \$35, 932     | \$1, 470  | \$7, 715      | \$1, 400      | \$480      | \$1, 220                       | 68 |
| \$1, 255    | \$5, 392       | \$74      | \$1, 453      | \$363         | \$68      | \$1, 233      |               | \$58       | \$209                          | 69 |
| \$26, 753   | \$17, 777      | \$7, 374  | \$19, 900     | \$63, 322     | \$4, 163  | \$8, 555      | \$2, 993      | \$1, 292   | \$3, 338                       | 70 |
| \$4, 620    | \$160          | \$200     |               | \$10, 600     |           | \$180         |               |            | \$43                           | 71 |
| \$196, 342  | \$237, 335     | \$26, 679 | \$398, 616    | \$943, 432    | \$20, 946 | \$403, 106    | \$9, 040      | \$13, 751  | \$48, 804                      | 72 |
| \$162, 545  | \$193, 273     | \$22, 233 | \$353, 452    | \$859, 698    | \$13, 204 | \$372, 631    | \$3, 170      | \$13, 788  | \$31, 852                      | 73 |
| \$7, 598    | \$7, 180       | \$1, 273  | \$4, 920      | \$7, 665      | \$25      | \$1, 861      | \$60          | \$1, 344   | \$3, 252                       | 74 |
| \$5, 434    | \$1, 539       | \$1, 777  | \$5, 342      | \$11, 733     | \$770     | \$4, 770      | \$300         | \$366      | \$438                          | 75 |
| \$6, 931    | \$4, 705       | \$257     | \$2, 237      | \$7, 673      | \$390     | \$1, 733      | \$200         | \$303      | \$4, 691                       | 76 |
| \$8, 850    | \$27, 403      | \$2, 194  | \$29, 593     | \$41, 746     | \$1, 515  | \$11, 542     | \$310         | \$2, 162   | \$4, 934                       | 77 |
| \$5, 434    | \$3, 730       | \$495     | \$3, 022      | \$14, 917     | \$342     | \$10, 519     |               | \$758      | \$3, 537                       | 78 |
| \$366, 538  | \$381, 081     | \$35, 449 | \$1, 025, 544 | \$2, 371, 196 | \$53, 373 | \$399, 355    | \$33, 539     | \$33, 125  | \$172, 611                     | 79 |
| 1, 268, 338 | 2, 127, 345    | 97, 060   | 2, 155, 025   | 6, 779, 432   | 123, 372  | 2, 963, 664   | 114, 200      | 69, 450    | 638, 953                       | 80 |
| \$395, 815  | \$374, 655     | \$43, 396 | \$379, 328    | \$2, 293, 796 | \$37, 503 | \$349, 973    | \$29, 029     | \$33, 434  | \$134, 741                     | 81 |
|             |                | 1, 520    |               | 32, 230       |           | 260, 880      |               |            |                                | 82 |
|             |                | \$347     |               | \$19, 366     |           | \$116, 938    |               |            |                                | 83 |
|             | 534, 310       | 6, 125    | 170, 000      | 150, 000      | 12, 000   | 172, 344      | 2, 000        |            | 15, 150                        | 84 |
|             | \$231, 562     | \$2, 205  | \$43, 000     | \$34, 000     | \$1, 500  | \$49, 344     | \$1, 000      |            | \$3, 030                       | 85 |

TABLE 11.—BUTTONS,

|  | United States. | California. | Connecticut. | Illinois. |
|--|----------------|-------------|--------------|-----------|
| Products—Continued:  |                |             |              |           |
| Aggregate value—Continued—   |                |             |              |           |
| Buttons—Continued—   |                |             |              |           |
| Total value—Continued—   |                |             |              |           |
| Composition—   |                |             |              |           |
| 86 Gross .....   | 2,407,819      |             |              |           |
| 87 Value .....   | \$246,410      |             |              |           |
| Horn—  |                |             |              |           |
| 88 Gross .....   | 717,047        |             | 306,867      |           |
| 89 Value .....   | \$287,874      |             | \$178,405    |           |
| Metal—   |                |             |              |           |
| Brass—   |                |             |              |           |
| 90 Gross .....   | 3,718,144      |             | 2,995,784    |           |
| 91 Value .....   | \$789,922      |             | \$449,378    |           |
| All other metal—   |                |             |              |           |
| 92 Gross .....   | 1,046,527      |             | 377,100      | 15,000    |
| 93 Value .....   | \$147,599      |             | \$17,913     | \$22,000  |
| Pearl, fresh-water—  |                |             |              |           |
| 94 Gross .....   | 4,308,584      |             |              | 187,000   |
| 95 Value .....   | \$1,176,285    |             |              | \$87,500  |
| Pearl, ocean—  |                |             |              |           |
| 96 Gross .....   | 4,049,452      |             |              | 4,900     |
| 97 Value .....   | \$1,951,558    |             |              | \$7,400   |
| Vegetable ivory—   |                |             |              |           |
| 98 Gross .....   | 2,661,823      | 470         | 744,467      |           |
| 99 Value .....   | \$1,144,677    | \$1,000     | \$160,127    |           |
| All other kinds—   |                |             |              |           |
| 100 Gross .....  | 680,072        |             | 12,000       | 5,555     |
| 101 Value .....  | \$217,528      |             | \$4,000      | \$24,000  |
| Blanks, fresh-water pearl—   |                |             |              |           |
| 102 Gross .....  | 5,432,246      |             |              | 680,948   |
| 103 Value .....  | \$656,036      |             |              | \$184,101 |
| 104 Value of all other products .....  | \$572,501      | \$1,620     | \$226,427    | \$6,700   |
| Comparison of products:  |                |             |              |           |
| 105 Number of establishments reporting for both years .....  | 154            | 4           | 10           | 10        |
| 106 Value for census year .....  | \$6,671,943    | \$6,870     | \$1,060,159  | \$181,038 |
| 107 Value for preceding business year .....  | \$5,492,921    | \$5,215     | \$1,020,879  | \$154,375 |
| Power:   |                |             |              |           |
| 108 Number of establishments reporting .....   | 201            | 1           | 11           | 9         |
| 109 Total horsepower .....   | 4,285          | 1           | 546          | 121       |
| Owned—   |                |             |              |           |
| Engines—   |                |             |              |           |
| Steam—   |                |             |              |           |
| 110 Number .....   | 70             |             | 8            | 3         |
| 111 Horsepower .....   | 2,305          |             | 310          | 91        |
| Gas or gasoline—   |                |             |              |           |
| 112 Number .....   | 28             |             |              | 3         |
| 113 Horsepower .....   | 263            |             |              | 20        |
| Water wheels—  |                |             |              |           |
| 114 Number .....   | 8              |             | 3            |           |
| 115 Horsepower .....   | 144            |             | 45           |           |
| Electric motors—   |                |             |              |           |
| 116 Number .....   | 6              |             | 3            |           |
| 117 Horsepower .....   | 70             |             | 55           |           |
| Other power—   |                |             |              |           |
| 118 Number .....   | 1              |             |              |           |
| 119 Horsepower .....   | 25             |             |              |           |
| Rented—  |                |             |              |           |
| 120 Electric horsepower .....  | 117            | 1           | 20           |           |
| 121 All other horsepower .....   | 1,811          |             | 116          | 10        |
| 122 Furnished to other establishments, horsepower .....  | 99             |             |              |           |
| Establishments classified by number of persons employed, not including proprietors and firm members: |                |             |              |           |
| 123 Total number of establishments .....   | 238            | 5           | 11           | 14        |
| 124 No employees .....   | 1              | 1           |              |           |
| 125 Under 5 .....  | 35             | 4           |              | 1         |
| 126 5 to 20 .....  | 78             |             | 2            | 7         |
| 127 21 to 50 .....   | 59             |             | 4            | 4         |
| 128 51 to 100 .....  | 37             |             | 8            | 2         |
| 129 101 to 250 .....   | 22             |             | 1            |           |
| 130 251 to 500 .....   | 6              |             | 1            |           |

BUTTONS.

BY STATES: 1900—Continued.

| Iowa.     | Massachusetts. | Missouri. | New Jersey. | New York.   | Ohio.    | Pennsylvania | Rhode Island. | Wisconsin. | All other states. |     |
|-----------|----------------|-----------|-------------|-------------|----------|--------------|---------------|------------|-------------------|-----|
|           | 824,401        |           |             | 900,000     |          | 1,182,918    |               |            |                   | 86  |
|           | \$14,610       |           |             | \$106,000   |          | \$125,800    |               |            |                   | 87  |
|           | 410,180        |           |             |             |          |              |               |            |                   | 88  |
|           | \$64,469       |           |             |             |          |              |               |            |                   | 89  |
|           |                |           | 369,160     | 282,000     |          |              | 47,200        |            | 19,000            | 90  |
|           |                |           | \$45,820    | \$215,200   |          |              | \$28,029      |            | \$6,500           | 91  |
|           |                |           | 492,550     |             |          |              |               |            | 161,877           | 92  |
|           |                |           | \$85,727    |             |          |              |               |            | \$21,959          | 93  |
| 1,268,388 | 110,000        | 55,500    | 60,700      | 1,757,865   | 84,961   | 688,865      |               | 65,850     | 79,460            | 94  |
| \$995,815 | \$31,400       | \$11,439  | \$27,291    | \$397,388   | \$30,358 | \$191,462    |               | \$29,907   | \$28,780          | 95  |
|           | 10,000         |           | 400,964     | 2,959,777   | 31,411   | 688,800      |               | 3,600      |                   | 96  |
|           | \$7,000        |           | \$489,837   | \$1,083,335 | \$25,650 | \$354,809    |               | \$8,527    |                   | 97  |
|           | 622,000        | 6,125     | 580,651     | 690,110     |          | 18,000       |               |            |                   | 98  |
|           | \$292,280      | \$2,205   | \$271,153   | \$407,912   |          | \$10,000     |               |            |                   | 99  |
|           | 115,954        | 27,790    | 81,000      | 7,450       |          | 1,857        | 65,000        |            | 363,466           | 100 |
|           | \$33,334       | \$27,500  | \$37,000    | \$5,600     |          | \$1,570      | \$5,000       |            | \$79,622          | 101 |
| 4,144,747 |                | 343,300   |             |             |          |              |               | 297,106    | 16,150            | 102 |
| \$467,351 |                | \$23,090  |             |             |          |              |               | \$29,691   | \$1,800           | 103 |
| \$8,372   | \$6,426        | \$18,463  | \$45,716    | \$72,400    | \$1,365  | \$149,382    | \$4,560       |            | \$36,070          | 104 |
| 21        | 11             | 8         | 31          | 34          | 2        | 18           |               | 2          | 7                 | 105 |
| \$581,912 | \$647,081      | \$50,920  | \$992,244   | \$2,040,245 | \$37,865 | \$968,271    | \$5,000       | \$12,527   | \$137,811         | 106 |
| \$896,867 | \$501,275      | \$43,500  | \$502,418   | \$1,562,929 | \$28,200 | \$339,184    | \$4,200       | \$12,000   | \$121,879         | 107 |
| 58        | 11             | 9         | 27          | 40          | 3        | 18           |               | 8          | 9                 | 108 |
| 688       | 473            | 60        | 441         | 998         | 40       | 471          | 2             | 110        | 297               | 109 |
|           |                |           |             |             |          |              |               |            |                   |     |
| 27        | 8              | 3         | 6           | 6           |          | 8            |               | 4          | 2                 | 110 |
| 450       | 433            | 28        | 243         | 250         |          | 181          |               | 69         | 250               | 111 |
|           |                |           |             |             |          |              |               |            |                   |     |
| 9         |                | 3         | 3           | 3           |          | 2            |               | 2          | 8                 | 112 |
| 50        |                | 19        | 42          | 45          |          | 40           |               | 25         | 22                | 113 |
|           |                |           |             |             |          |              |               |            |                   |     |
|           | 1              |           |             | 3           |          |              |               |            | 1                 | 114 |
|           | 15             |           |             | 83          |          |              |               |            | 1                 | 115 |
|           |                |           |             |             |          |              |               |            |                   |     |
|           | 2              |           |             | 1           |          |              |               |            |                   | 116 |
|           | 10             |           |             | 5           |          |              |               |            |                   | 117 |
|           |                |           |             |             |          |              |               |            |                   |     |
|           |                |           |             | 1           |          |              |               |            |                   | 118 |
|           |                |           |             | 25          |          |              |               |            |                   | 119 |
|           |                |           |             |             |          |              |               |            |                   |     |
| 67        |                | 7         |             | 2           |          | 10           |               | 1          | 5                 | 120 |
| 101       | 15             | 6         | 156         | 588         |          | 80           |               | 15         | 19                | 121 |
|           | 65             |           | 4           | 10          |          | 245          | 9             |            | 20                | 122 |
|           |                |           |             |             |          |              |               |            |                   |     |
| 53        | 18             | 11        | 34          | 49          |          | 21           | 3             | 9          | 11                | 123 |
|           |                |           |             |             |          |              |               |            |                   |     |
| 6         | 4              | 1         | 6           | 5           |          | 2            | 1             | 2          | 3                 | 124 |
| 17        | 2              | 8         | 9           | 14          |          | 8            |               | 4          | 5                 | 125 |
| 17        | 5              | 2         | 9           | 7           |          | 4            | 1             | 3          |                   | 126 |
| 8         |                |           | 6           | 12          |          | 3            |               |            | 3                 | 127 |
| 5         |                |           | 4           | 9           |          | 3            |               |            |                   | 128 |
|           |                |           |             | 9           |          | 3            |               |            |                   | 129 |
|           | 2              |           |             | 2           |          | 1            |               |            |                   | 130 |

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# COTTON GINNING.

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# COTTON GINNING.

[Crops of 1899, 1900, and 1901.]

By DANIEL C. ROPER, *Expert Special Agent.*

Table 1 presents a summarized statement of the cotton crops of 1899, 1900, and 1901, as ascertained from the reports of ginners. In this table are shown, by states and territories, the amount of cotton ginned, the per cent which the state crop forms of the total crop, and the increase or decrease in the crops of 1900 and 1901 as compared with that of 1899.

TABLE 1.—QUANTITY OF COTTON GINNED FROM THE CROPS OF 1899, 1900, AND 1901: COMPARATIVE SUMMARY, BY STATES AND TERRITORIES, WITH PER CENT, WHICH QUANTITY GINNED BY EACH STATE AND TERRITORY, FORMS OF THE TOTAL CROP AND PER CENT OF INCREASE SINCE 1899.

| STATES AND TERRITORIES. | CROP OF 1899.     |           |         |             |                             | CROP OF 1900.     |           |         |             |  |
|-------------------------|-------------------|-----------|---------|-------------|-----------------------------|-------------------|-----------|---------|-------------|--|
|                         | Commercial bales. |           |         |             | Equivalent 500-pound bales. | Commercial bales. |           |         |             | Equivalent 500-pound bales. <sup>1</sup> |
|                         | Total.            | Square.   | Round.  | Sea-island. |                             | Total.            | Square.   | Round.  | Sea-island. |  |
| United States.....      | 9,645,974         | 9,043,231 | 505,464 | 97,279      | 9,345,391                   | 10,486,148        | 9,629,762 | 763,092 | 88,294      | 10,123,027                               |
| Alabama.....            | 1,103,690         | 1,069,644 | 34,046  | .....       | 1,078,519                   | 1,061,678         | 995,602   | 66,076  | .....       | 1,023,802                                |
| Arkansas.....           | 719,453           | 685,570   | 33,883  | .....       | 705,583                     | 828,820           | 773,247   | 55,573  | .....       | 812,984                                  |
| Florida.....            | 56,821            | 25,583    | .....   | 31,238      | 49,359                      | 55,696            | 27,690    | .....   | 28,066      | 48,616                                   |
| Georgia.....            | 1,296,844         | 1,220,117 | 18,915  | 57,812      | 1,281,060                   | 1,270,597         | 1,191,125 | 27,393  | 52,079      | 1,203,308                                |
| Indian Territory.....   | 160,224           | 121,785   | 38,539  | .....       | 143,608                     | 238,114           | 197,704   | 90,410  | .....       | 249,935                                  |
| Kansas.....             | 121               | 121       | .....   | .....       | 121                         | 151               | 151       | .....   | .....       | 151                                      |
| Kentucky.....           | 84                | 84        | .....   | .....       | 79                          | 133               | 133       | .....   | .....       | 133                                      |
| Louisiana.....          | 708,508           | 694,816   | 13,692  | .....       | 700,352                     | 714,073           | 696,049   | 18,024  | .....       | 705,767                                  |
| Mississippi.....        | 1,264,048         | 1,214,699 | 49,349  | .....       | 1,237,666                   | 1,056,968         | 1,018,090 | 37,878  | .....       | 1,046,700                                |
| Missouri.....           | 19,377            | 19,377    | .....   | .....       | 20,275                      | 27,980            | 25,712    | 2,268   | .....       | 27,871                                   |
| North Carolina.....     | 473,155           | 472,385   | 770     | .....       | 440,400                     | 509,341           | 507,263   | 2,078   | .....       | 477,269                                  |
| Oklahoma.....           | 34,035            | 58,077    | 30,958  | .....       | 71,933                      | 116,875           | 89,782    | 27,093  | .....       | 106,707                                  |
| South Carolina.....     | 876,545           | 864,714   | 3,602   | 8,229       | 837,105                     | 780,782           | 770,767   | 1,866   | 8,149       | 748,726                                  |
| Tennessee.....          | 215,175           | 199,926   | 15,249  | .....       | 211,641                     | 227,601           | 203,149   | 24,462  | .....       | 221,619                                  |
| Texas.....              | 2,658,555         | 2,392,094 | 266,461 | .....       | 2,609,018                   | 3,536,506         | 3,121,525 | 414,981 | .....       | 3,438,386                                |
| Utah <sup>5</sup> ..... | .....             | .....     | .....   | .....       | .....                       | .....             | .....     | .....   | .....       | 31                                       |
| Virginia.....           | 9,239             | 9,239     | .....   | .....       | 8,622                       | 11,833            | 11,833    | .....   | .....       | 11,022                                   |

| STATES AND TERRITORIES. | CROP OF 1901.     |           |         |             |  | INCREASE OVER 1899 CROP.    |           |                             |           | PER CENT OF TOTAL GINNED. <sup>3</sup> |       |       |
|-------------------------|-------------------|-----------|---------|-------------|--|-----------------------------|-----------|-----------------------------|-----------|--|-------|-------|
|                         | Commercial bales. |           |         |             | Equivalent 500-pound bales. <sup>2</sup> | 1900.                       |           | 1901.                       |           | 1899                                   | 1900  | 1901  |
|                         | Total.            | Square.   | Round.  | Sea-island. |  | Equivalent 500-pound bales. | Per cent. | Equivalent 500-pound bales. | Per cent. |  |       |       |
| United States.....      | 9,954,945         | 9,182,215 | 744,851 | 77,879      | 9,509,745                                | 777,636                     | 8.3       | 164,354                     | 1.8       | 100.0                                  | 100.0 | 100.0 |
| Alabama.....            | 1,156,812         | 1,068,972 | 87,840  | .....       | 1,101,227                                | 454,717                     | 45.1      | 22,708                      | 2.1       | 11.5                                   | 10.1  | 11.6  |
| Arkansas.....           | 738,080           | 686,303   | 51,777  | .....       | 718,313                                  | 107,401                     | 15.2      | 12,735                      | 1.8       | 7.6                                    | 8.0   | 7.6   |
| Florida.....            | 57,144            | 29,379    | .....   | 27,765      | 49,981                                   | 473                         | 41.5      | 632                         | 1.3       | 0.5                                    | 0.5   | 0.6   |
| Georgia.....            | 1,405,082         | 1,300,125 | 62,470  | 42,497      | 1,314,831                                | 427,752                     | 42.8      | 83,821                      | 6.8       | 13.2                                   | 11.9  | 13.8  |
| Indian Territory.....   | 284,170           | 199,049   | 85,121  | .....       | 247,073                                  | 106,327                     | 74.0      | 103,465                     | 72.0      | 1.5                                    | 2.5   | 2.6   |
| Kansas.....             | 170               | 170       | .....   | .....       | 157                                      | 30                          | 24.8      | 36                          | 29.8      | .....                                  | ..... | ..... |
| Kentucky.....           | 140               | 140       | .....   | .....       | 172                                      | 54                          | 68.4      | 93                          | 117.7     | .....                                  | ..... | ..... |
| Louisiana.....          | 860,848           | 807,248   | 53,600  | .....       | 840,476                                  | 5,415                       | 0.8       | 140,124                     | 20.0      | 7.5                                    | 7.0   | 8.8   |
| Mississippi.....        | 1,275,439         | 1,230,016 | 45,423  | .....       | 1,254,863                                | 4190,966                    | 415.4     | 17,197                      | 1.4       | 13.2                                   | 10.3  | 13.2  |
| Missouri.....           | 30,837            | 28,445    | 2,392   | .....       | 30,890                                   | 7,696                       | 27.5      | 10,615                      | 32.4      | 0.2                                    | 0.3   | 0.3   |
| North Carolina.....     | 451,441           | 448,314   | 3,127   | .....       | 415,808                                  | 86,369                      | 8.4       | 424,592                     | 45.6      | 4.7                                    | 4.7   | 4.4   |
| Oklahoma.....           | 149,094           | 109,778   | 39,288  | .....       | 131,413                                  | 34,724                      | 48.2      | 59,450                      | 32.6      | 0.8                                    | 1.0   | 1.4   |
| South Carolina.....     | 732,719           | 722,786   | 2,916   | 7,617       | 692,261                                  | 483,379                     | 410.6     | 414,844                     | 417.3     | 9.0                                    | 7.4   | 7.3   |
| Tennessee.....          | 204,538           | 185,157   | 19,381  | .....       | 197,133                                  | 9,978                       | 4.7       | 414,508                     | 46.9      | 2.3                                    | 2.2   | 2.1   |
| Texas.....              | 2,594,442         | 2,301,226 | 293,216 | .....       | 2,502,166                                | 329,368                     | 31.8      | 4106,852                    | 44.1      | 27.9                                   | 34.0  | 26.3  |
| Utah <sup>6</sup> ..... | .....             | .....     | .....   | .....       | .....                                    | 81                          | .....     | .....                       | .....     | .....                                  | ..... | ..... |
| Virginia.....           | 14,009            | 14,009    | .....   | .....       | 12,916                                   | 2,400                       | 27.8      | 4,294                       | 49.8      | 0.1                                    | 0.1   | 0.1   |

<sup>1</sup> Includes 10,000 pounds in Tennessee and 15,560 pounds in Utah not baled.

<sup>2</sup> Includes 16,000 pounds in Kentucky, 5,000 pounds in North Carolina, 11,050 pounds in Tennessee, and 5,000 pounds in Virginia not baled.

<sup>3</sup> Percentages calculated on basis of 500-pound bales.

<sup>4</sup> Decrease.

<sup>5</sup> No report of cotton ginned in 1899 and 1901.

As shown by this table, the crop of 1901 exceeded that of 1899 by 308,971 commercial bales, while the crop of 1900 exceeded that of the preceding year by 840,174. Compared with 1899 the crop of 1900 increased by 8.3 per cent, and that of 1901 by 1.8 per cent. East of the Mississippi River production decreased from 5,094,451 bales in 1899 to 4,781,195 in 1900, or 313,256 commercial bales. This was more than offset by the increased production west of the Mississippi, where the yield in commercial bales was 5,341,832 in 1900, against 4,250,940 in 1899, an increase of 1,090,892, or 25.7 per cent.

Texas is the great marvel of the cotton belt. It has shown an ability to increase or decrease its crop by practically a million bales without any grave disturbance of its equilibrium in the commercial community. In 1899 the crop of this state was 2,609,018 bales (500-pound standard); that of 1900 was 3,438,386 bales, an increase of 829,368 bales. This increase is the more noteworthy when the great disaster resulting from the storm of September, 1900, is taken into consideration.

In the 31 counties lying in the wake of this storm, the production fell off from 491,236 bales in 1899 to 273,866 bales in 1900, a loss of 217,370 bales as compared with the crop of 1899. It thus appears that in the remaining counties of Texas, the actual increase was 1,046,738 bales. In 1900 Texas produced 34 per cent, or more than one-third of the entire American cotton crop, and about one-fourth of all the cotton grown in the world. The conditions which affected the crop east and west of the Mississippi River in 1901 were quite the reverse of those in 1900. In 1901 there was excessive rainfall in the territory east of the Mississippi, and insufficient rainfall west of the Mississippi, and to this, for Texas, must be added the destructive effects of the boll weevil in 1901. Texas in 1901 lost 942,064 commercial bales, as compared with its production in 1900.

Table 2 presents, by states and territories, the quantity in pounds of cotton ginned from the crops grown in 1899, 1900, and 1901, and the average weight of square, round, and sea-island bales.

TABLE 2.—TOTAL WEIGHT OF COTTON GINNED FROM CROPS OF 1899, 1900, AND 1901, WITH AVERAGE WEIGHT OF BALES, BY STATES AND TERRITORIES.

| STATES AND TERRITORIES. | CROP OF 1899.                    |  |        | CROP OF 1900. |                                  |  | CROP OF 1901. |             |                                  |  |        |             |
|-------------------------|----------------------------------|--|--------|---------------|----------------------------------|--|---------------|-------------|----------------------------------|--|--------|-------------|
|                         | Aggregate gross weight (pounds). | Average gross weight of bale (pounds). |        |               | Aggregate gross weight (pounds). | Average gross weight of bale (pounds). |               |             | Aggregate gross weight (pounds). | Average gross weight of bale (pounds). |        |             |
|                         |                                  | Square.                                | Round. | Sea-island.   |                                  | Square.                                | Round.        | Sea-island. |                                  | Square.                                | Round. | Sea-island. |
| United States.....      | 4,672,695,500                    | 498                                    | 259    | 388           | 5,061,518,294                    | 501                                    | 263           | 385         | 4,754,872,521                    | 496                                    | 258    | 384         |
| Alabama.....            | 589,259,644                      | 495                                    | 276    | .....         | 511,900,714                      | 496                                    | 278           | .....       | 550,618,616                      | 494                                    | 261    | .....       |
| Arkansas.....           | 852,791,736                      | 502                                    | 263    | .....         | 406,491,938                      | 506                                    | 268           | .....       | 359,158,831                      | 508                                    | 264    | .....       |
| Florida.....            | 24,679,337                       | 492                                    | .....  | 387           | 24,808,127                       | 491                                    | .....         | 383         | 24,995,285                       | 487                                    | .....  | 385         |
| Georgia.....            | 615,529,844                      | 482                                    | 256    | 394           | 601,654,189                      | 482                                    | 261           | 392         | 657,440,656                      | 481                                    | 250    | 389         |
| Indian Territory.....   | 71,808,832                       | 508                                    | 259    | .....         | 124,967,426                      | 515                                    | 257           | .....       | 128,536,505                      | 510                                    | 258    | .....       |
| Kansas.....             | 60,500                           | 500                                    | .....  | .....         | 75,500                           | 500                                    | .....         | .....       | 78,500                           | 462                                    | .....  | .....       |
| Kentucky.....           | 39,600                           | 471                                    | .....  | .....         | 66,500                           | 500                                    | .....         | .....       | 86,000                           | 500                                    | .....  | .....       |
| Louisiana.....          | 350,176,196                      | 499                                    | 263    | .....         | 852,883,228                      | 500                                    | 261           | .....       | 420,238,220                      | 504                                    | 255    | .....       |
| Mississippi.....        | 618,833,461                      | 499                                    | 258    | .....         | 523,350,037                      | 503                                    | 289           | .....       | 627,431,459                      | 500                                    | 269    | .....       |
| Missouri.....           | 10,137,502                       | 523                                    | .....  | .....         | 13,935,257                       | 518                                    | 270           | .....       | 15,445,118                       | 522                                    | 250    | .....       |
| North Carolina.....     | 220,199,727                      | 466                                    | 253    | .....         | 233,634,615                      | 469                                    | 270           | .....       | 207,903,958                      | 462                                    | 255    | .....       |
| Oklahoma.....           | 35,991,448                       | 518                                    | 274    | .....         | 53,353,661                       | 513                                    | 269           | .....       | 65,706,521                       | 506                                    | 258    | .....       |
| South Carolina.....     | 418,552,594                      | 491                                    | 257    | 347           | 374,362,722                      | 481                                    | 250           | 354         | 346,130,637                      | 474                                    | 249    | 352         |
| Tennessee.....          | 105,820,457                      | 510                                    | 254    | .....         | 110,809,694                      | 514                                    | 264           | .....       | 98,566,265                       | 506                                    | 255    | .....       |
| Texas.....              | 1,304,508,732                    | 517                                    | 256    | .....         | 1,719,193,091                    | 516                                    | 259           | .....       | 1,251,033,134                    | 511                                    | 256    | .....       |
| Utah.....               | .....                            | .....                                  | .....  | .....         | 15,560                           | .....                                  | .....         | .....       | .....                            | .....                                  | .....  | .....       |
| Virginia.....           | 4,310,840                        | 467                                    | .....  | .....         | 5,511,040                        | 466                                    | .....         | .....       | 6,457,766                        | 461                                    | .....  | .....       |

In the preparation of the tables of this report, the following method has been employed: The number of pounds of cotton ginned by an establishment is obtained by multiplying the number of bales by the average bale weight reported by that establishment. The average bale weight for the United States, and the state, is then obtained by dividing the total number of pounds by the total number of bales. The average weight of the square bale for the United States, as found by this method, was 498 pounds in 1899, 501 pounds in 1900, and 496 pounds in 1901; that of the sea-island bale for 1899, 1900, and 1901 was, respectively, 388, 385, and 384 pounds; while the average weight of the round bale for the same years was respectively 259, 263, and 258 pounds. The average weight for the entire

country was 485 pounds in 1899, 483 in 1900, and 478 in 1901.

The number of round bales ginned from the crop of 1899 was 505,469, exclusive of sea-island cotton; in 1900 the number was 768,092, and in 1901 it was 744,851. Because of the introduction of round-bale systems in some states and the retention of light square bales in others, the number of commercial bales (bales as reported by ginners) does not credit the several states with their proper quota of the cotton crop. In view of this condition, while the number of commercial bales is given in each instance, the crop of each county, state, and for the United States, is given also in equivalent bales of a 500-pound standard. Where bales are mentioned in the comparative statements of this report,

without giving the standard it will be understood that this standard is employed. However, in stating the average number of bales handled per establishment, given in Table 3, the commercial bale is employed as the unit.

Table 3 presents a summarized statement, by states, of the number of ginneries reported for the three crops mentioned and the average number of bales handled per establishment.

TABLE 3.—ACTIVE GINNERIES, AND AVERAGE NUMBER OF BALES GINNED PER ESTABLISHMENT, 1899, 1900, AND 1901, WITH AVERAGE NUMBER OF MONTHS IN OPERATION AND AVERAGE COST PER BALE FOR GINNING AND BALING IN 1899: BY STATES AND TERRITORIES.

| STATES AND TERRITORIES. | CROP OF 1899. |  |   |        |             |   | CROP OF 1900. |   | CROP OF 1901. |   |
|-------------------------|---------------|--|---|--------|-------------|---|---------------|---|---------------|---|
|                         | Total number. | Average number of months in operation. | Average cost per bale for ginning and baling. |        |             | Average number of bales ginned per establishment. | Total number. | Average number of bales ginned per establishment. | Total number. | Average number of bales ginned per establishment. |
|                         |               |  | Square.                                       | Round. | Sea-island. |   |               |   |               |   |
| United States.....      | 29,620        | 3                                      | \$2.03  | \$1.15 | \$4.90      | 326   | 29,214        | 359   | 29,254        | 340   |
| Alabama.....            | 4,084         | 3                                      | 1.47  | 0.90   | .....       | 274   | 4,044         | 263   | 4,161         | 278   |
| Arkansas.....           | 2,630         | 3                                      | 1.98  | 1.24   | .....       | 274   | 2,678         | 321   | 2,393         | 308   |
| Florida.....            | 236           | 3                                      | 1.62  | .....  | 3.78        | 241   | 246           | 226   | 272           | 210   |
| Georgia.....            | 4,729         | 4                                      | 1.26  | 0.90   | 3.59        | 274   | 4,670         | 272   | 4,793         | 293   |
| Indian Territory.....   | 297           | 4                                      | 2.61  | 1.15   | .....       | 540   | 301           | 967   | 323           | 380   |
| Kansas.....             | 2             | 2                                      | 3.00  | .....  | .....       | 61  | 1             | 151   | 2             | 85  |
| Kentucky.....           | 2             | 1                                      | 2.25  | .....  | .....       | 42  | 2             | 67  | 1             | 140   |
| Louisiana.....          | 2,148         | 3                                      | 1.75  | 1.32   | .....       | 330   | 2,089         | 342   | 2,207         | 390   |
| Mississippi.....        | 3,976         | 4                                      | 1.78  | 1.14   | .....       | 318   | 3,934         | 268   | 4,146         | 308   |
| Missouri.....           | 56            | 3                                      | 2.66  | .....  | .....       | 346   | 66            | 424   | 68            | 458   |
| North Carolina.....     | 2,573         | 3                                      | 1.53  | 0.83   | .....       | 184   | 2,659         | 192   | 2,578         | 175   |
| Oklahoma.....           | 133           | 3                                      | 2.09  | 1.52   | .....       | 632   | 137           | 353   | 155           | 962   |
| South Carolina.....     | 3,368         | 3                                      | 1.29  | 1.00   | 7.34        | 260   | 3,193         | 245   | 3,013         | 243   |
| Tennessee.....          | 834           | 3                                      | 2.63  | 1.41   | .....       | 258   | 826           | 276   | 810           | 253   |
| Texas.....              | 4,514         | 4                                      | 2.19  | 1.19   | .....       | 589   | 4,379         | 309   | 4,232         | 613   |
| Utah.....               | .....         | .....                                  | .....   | .....  | .....       | .....   | 1             | ( <sup>1</sup> )                                  | .....         | .....   |
| Virginia.....           | 88            | 3                                      | 2.30  | .....  | .....       | 105   | 97            | 122   | 95            | 146   |

<sup>1</sup> Cotton not baled.

Table 3 shows the active ginneries in the United States to have been 29,620 in 1899, 29,214 in 1900, and 29,254 in 1901. In excess of the number annually reported as active, there are about 1,000 private plantation establishments which fluctuate between active and idle, as light or heavy production influences their operations. From 5 to 10 per cent of the active number must be revised annually as to ownership or operation. The loss from season to season, by establishments going out of business, is considerable, but is offset by those reported as new or revived for the current crop.

The average number of bales ginned per establishment from the crop of 1899 was 326, in 1900 the average was 359, and in 1901 it was 340. The size of the ginning establishments in Texas and the territories as compared with those of other states is noteworthy. For example, the average capacity of establishments in Texas for the crop of 1899 was 589 bales; in the Indian Territory, 540 bales; and in Oklahoma, 632 bales; while

in North Carolina and Georgia it was 184 and 274 bales, respectively. The scarcity of labor in Texas and the territories has had an important bearing on the introduction into those sections of modern systems of handling seed cotton. With 4,514 active ginneries in 1899, or 15.2 per cent of the number reported for the United States, Texas handled 27.6 per cent of the entire American crop, expressed in commercial bales, while Georgia, with 4,729, or 16 per cent of the entire number of the United States, handled only 13.4 per cent of the crop. The ginneries east of the Mississippi River handled 54.9 per cent from the crop of 1899, 47.4 per cent from the crop of 1900, and 53.2 per cent from the crop of 1901.

Table 4 presents a comparative summary, by states, of the quantity of sea-island cotton ginned in the United States from the crops grown in 1899, 1900, and 1901, the average gross weight of bale, and the per cent each state ginned of the total.

TABLE 4.—QUANTITY OF SEA-ISLAND COTTON GINNED FROM CROPS OF 1899, 1900, AND 1901, AVERAGE GROSS WEIGHT OF BALES, BY STATES, AND PER CENT OF THE TOTAL WHICH EACH STATE GINNED.

| STATES.             | CROP OF 1899.                 |                  |  | CROP OF 1900.                |                  |  | CROP OF 1901.                 |                  |  | PER CENT OF TOTAL. |       |       |
|---------------------|-------------------------------|------------------|--|------------------------------|------------------|--|-------------------------------|------------------|--|--------------------|-------|-------|
|                     | Total gross weight in pounds. | Number of bales. | Average gross weight of bale (pounds). | Total gross weight (pounds). | Number of bales. | Average gross weight of bale (pounds). | Total gross weight in pounds. | Number of bales. | Average gross weight of bale (pounds). | 1899               | 1900  | 1901  |
| United States.....  | 87,723,308                    | 97,279           | 388                                    | 84,037,152                   | 88,294           | 385                                    | 29,901,308                    | 77,879           | 384                                    | 100.0              | 100.0 | 100.0 |
| Florida.....        | 12,033,847                    | 31,238           | 387                                    | 10,740,340                   | 28,066           | 383                                    | 10,676,521                    | 27,765           | 385                                    | 32.1               | 31.8  | 35.6  |
| Georgia.....        | 22,776,852                    | 57,812           | 394                                    | 20,411,288                   | 52,079           | 392                                    | 16,541,649                    | 42,497           | 389                                    | 59.4               | 59.0  | 54.6  |
| South Carolina..... | 2,862,609                     | 8,229            | 347                                    | 2,885,524                    | 8,149            | 354                                    | 2,633,638                     | 7,617            | 352                                    | 8.5                | 9.2   | 9.8   |

The sea-island cotton crop of 1900 is shown to have been 8,985 bales less than that of 1899. This loss was practically confined to Florida and Georgia, where losses of 3,172 and 5,733 bales, respectively, were reported. In 1901 the sea-island crop is shown to have been 19,400 less than that of 1899, the loss for this year being again confined to Florida and Georgia, where losses of 3,473 and 15,315 bales, respectively, were reported.

The question is often asked why more long cotton is not produced in the United States. The answer that the territory adapted to its culture is very limited, and that its yield per acre is less than that of short cotton, is not entirely satisfactory when it is known that the producing capacity of the sea-island belt is not at present greatly taxed, and when the difference in price of long and short cotton is taken into consideration. Probably the most satisfactory explanation of this condition is found in the fact that cotton growers have been reluctant to grow this cotton, for the reason that no gin of the desired capacity has ever been invented which would separate the lint from the seed without injuring the fiber.

The ancient roller gin, which is now employed only for

the treatment of sea-island cotton, has the disadvantage of lack of capacity. The best of these gins yield less than one-tenth of the quantity of cotton turned out by the saw gin. On the other hand, the application of the saw gin to the treatment of sea-island cotton is not satisfactory, as it tends to break and otherwise injure the fiber, a matter of especial importance in the preparation of this staple for market. Much effort has recently been made to invent a gin which will overcome the objections mentioned and combine the advantages of both machines. There exists at this time some promise of thus revolutionizing the roller gin by greatly increasing its capacity without detriment to the product, and at the same time making it equally applicable to the treatment of all cottons. It is conceded that such an improvement would have important economic results in enhancing the value of all cotton treated by such a machine, and in inducing growers to plant sea-island and other superior varieties.

Table 5 shows, by states, the value and quantity of upland and sea-island cottons and of the cottonseed of the crops of 1899 and 1900. The value of the cotton and seed combined gives the total value of the cotton crop, which appears in the first column of the table.

TABLE 5.—QUANTITY AND VALUE OF UPLAND AND SEA-ISLAND COTTON AND SEED, AND TOTAL VALUE OF CROPS GROWN IN 1899 AND IN 1900: BY STATES AND TERRITORIES.

| STATES AND TERRITORIES. | Year. | Total value of cotton crop. | COTTON.          |                                 |                  |                                 | COTTONSEED.    |                  |              |
|-------------------------|-------|-----------------------------|------------------|---------------------------------|------------------|---------------------------------|----------------|------------------|--------------|
|                         |       |                             | Total value.     | Upland.                         |                  | Sea-island.                     |                | Quantity (tons). | Value.       |
|                         |       |                             |                  | Quantity (pounds). <sup>1</sup> | Value.           | Quantity (pounds). <sup>1</sup> | Value.         |                  |              |
| United States.....      | 1899  | \$376,766,152.37            | \$324,602,952.37 | 4,484,504,718                   | \$319,284,339.70 | 36,750,518                      | \$5,318,612.07 | 4,471,255        | \$52,164,200 |
|                         | 1900  | 515,828,559.33              | 483,285,023.33   | 4,813,317,102                   | 431,694,377.59   | 33,154,212                      | 6,590,645.74   | 4,846,471        | 77,543,536   |
| Alabama.....            | 1899  | 43,173,305.34               | 37,125,024.34    | 515,625,338                     | 37,125,024.34    |                                 |                | 515,625          | 6,048,251    |
|                         | 1900  | 51,765,653.52               | 43,928,869.52    | 489,799,242                     | 43,928,869.52    |                                 |                | 489,799          | 7,866,784    |
| Arkansas.....           | 1899  | 28,298,270.38               | 24,307,743.38    | 337,607,547                     | 24,307,743.38    |                                 |                | 337,608          | 3,993,627    |
|                         | 1900  | 41,145,603.64               | 34,916,579.64    | 389,313,780                     | 34,916,579.64    |                                 |                | 389,314          | 6,229,624    |
| Florida.....            | 1899  | 2,910,578.86                | 2,632,071.86     | 12,032,664                      | 866,351.81       | 11,771,467                      | 1,765,720.05   | 23,804           | 278,507      |
|                         | 1900  | 3,628,999.45                | 3,254,279.45     | 12,959,927                      | 1,162,343.45     | 10,459,680                      | 2,091,936.00   | 23,420           | 374,729      |
| Georgia.....            | 1899  | 50,759,634.28               | 43,738,293.28    | 565,853,678                     | 40,741,464.46    | 22,193,732                      | 2,906,828.82   | 588,052          | 7,021,311    |
|                         | 1900  | 62,749,344.36               | 53,551,808.36    | 554,955,972                     | 49,772,613.74    | 19,890,498                      | 3,779,194.62   | 574,846          | 9,197,536    |
| Indian Territory.....   | 1899  | 5,747,066.04                | 4,968,644.04     | 69,008,945                      | 4,968,644.04     |                                 |                | 69,009           | 778,432      |
|                         | 1900  | 12,719,147.37               | 10,793,595.37    | 120,346,708                     | 10,793,595.37    |                                 |                | 120,347          | 1,925,552    |
| Kansas.....             | 1899  | 4,843.34                    | 4,164.34         | 57,838                          | 4,164.34         |                                 |                | 58               | 679          |
|                         | 1900  | 7,625.47                    | 6,473.47         | 72,178                          | 6,473.47         |                                 |                | 72               | 1,162        |
| Kentucky.....           | 1899  | 3,163.14                    | 2,718.14         | 37,752                          | 2,718.14         |                                 |                | 38               | 445          |
|                         | 1900  | 6,709.79                    | 5,701.79         | 63,574                          | 5,701.79         |                                 |                | 63               | 1,098        |
| Louisiana.....          | 1899  | 27,889,585.10               | 24,109,140.10    | 334,849,168                     | 24,109,140.10    |                                 |                | 334,849          | 3,780,445    |
|                         | 1900  | 35,671,223.25               | 30,270,973.25    | 337,516,078                     | 30,270,973.25    |                                 |                | 337,516          | 5,409,259    |
| Mississippi.....        | 1899  | 49,488,025.59               | 42,621,266.59    | 591,962,036                     | 42,621,266.59    |                                 |                | 591,962          | 6,866,759    |
|                         | 1900  | 52,932,354.06               | 44,918,946.06    | 500,838,423                     | 44,918,946.06    |                                 |                | 500,838          | 8,013,408    |
| Missouri.....           | 1899  | 812,825.98                  | 699,206.98       | 9,711,208                       | 699,206.98       |                                 |                | 9,711            | 113,619      |
|                         | 1900  | 1,412,283.14                | 1,198,475.14     | 13,362,789                      | 1,198,475.14     |                                 |                | 13,363           | 213,808      |
| North Carolina.....     | 1899  | 17,665,577.18               | 15,105,956.18    | 209,804,947                     | 15,105,956.18    |                                 |                | 209,805          | 2,559,621    |
|                         | 1900  | 24,040,593.62               | 20,401,089.62    | 227,468,595                     | 20,401,089.62    |                                 |                | 227,469          | 3,639,501    |
| Oklahoma.....           | 1899  | 2,826,052.36                | 2,500,623.36     | 34,780,880                      | 2,500,623.36     |                                 |                | 34,731           | 325,429      |
|                         | 1900  | 5,421,467.65                | 4,600,715.65     | 51,297,173                      | 4,600,715.65     |                                 |                | 51,297           | 820,752      |
| South Carolina.....     | 1899  | 34,691,334.71               | 29,115,257.71    | 396,655,471                     | 28,559,193.01    | 2,780,319                       | 556,063.80     | 399,436          | 5,576,127    |
|                         | 1900  | 38,232,153.61               | 32,515,054.61    | 354,514,726                     | 31,795,539.49    | 2,804,034                       | 719,515.12     | 357,319          | 5,717,104    |
| Tennessee.....          | 1899  | 8,412,204.34                | 7,299,096.34     | 101,376,338                     | 7,299,096.34     |                                 |                | 1,113,376        | 1,113,108    |
|                         | 1900  | 11,231,038.94               | 9,530,826.94     | 106,267,080                     | 9,530,826.94     |                                 |                | 106,267          | 1,700,272    |
| Texas.....              | 1899  | 103,739,825.83              | 90,077,999.83    | 1,251,083,381                   | 90,077,999.83    |                                 |                | 1,251,083        | 13,661,826   |
|                         | 1900  | 174,307,715.51              | 147,919,315.51   | 1,649,274,598                   | 147,919,315.51   |                                 |                | 1,649,275        | 26,388,400   |
| Utah.....               | 1899  |                             |                  |                                 |                  |                                 |                |                  |              |
|                         | 1900  | 1,635.54                    | 1,395.54         | 15,560                          | 1,395.54         |                                 |                | 15               | 240          |
| Virginia.....           | 1899  | 343,809.90                  | 295,745.90       | 4,107,532                       | 295,745.90       |                                 |                | 4,108            | 48,064       |
|                         | 1900  | 554,939.41                  | 470,923.41       | 5,250,714                       | 470,923.41       |                                 |                | 5,251            | 84,016       |

<sup>1</sup>Exclusive of weight of bagging and ties.

In ascertaining the value of the cotton crops, the quantities of cotton produced, as reported by the ginners, have been multiplied by the average prices per pound, 7.2 cents for upland and 15, 13.5, and 20 cents for sea-island in Florida, Georgia, and South Carolina, respectively, for the crop of 1899,<sup>1</sup> and \$0.0896875<sup>2</sup> for middling upland and \$0.20, \$0.19, and \$0.2566 for sea island in Florida, Georgia, and South Carolina,<sup>3</sup> respectively, for the crop of 1900. It is impossible to show the value of the crop of 1901, as the commercial year for that crop does not end until August 31, 1902.

The quantity of seed produced has been determined by multiplying the number of pounds of lint cotton by 2, it being an authenticated fact that seed cotton on an average "thirds itself" at the gin; that is, one-third of

<sup>1</sup>"The Cotton Crop of 1899-1900," issued by the United States Department of Agriculture, page 30.

<sup>2</sup>The Census Office is indebted to Messrs. Latham, Alexander & Co., of New York city, for the average price of middling upland cotton in the New York market for the year ending August 31, 1901, and to the following sea-island cotton factors for valuable information as to the prices of this cotton in the three states producing it: Mr. R. M. Butler, of Savannah, Ga.; Mr. L. Gourdin Young, of Savannah, Ga.; and Messrs. Henry W. Frost & Co., of Charleston, S. C.

<sup>3</sup>"The Cotton Crop of 1899-1900," issued by the United States Department of Agriculture, page 30.

the cotton's weight before it is ginned is lint cotton and the remaining two-thirds seed. The value of the seed has been determined by multiplying the total quantities produced by the average prices at which the portions marketed in the respective states were purchased by the cotton-seed oil mills, as shown in the report on Cottonseed Products, page 585. The average price of cottonseed in 1900 was \$16 per ton of 2,000 pounds delivered at the mills.<sup>4</sup> In the reports of ginners the gross weight of the bale was given, and in ascertaining the net quantity of cotton produced, as shown in Table 5, 22 pounds per bale for square bales have been deducted to cover the weight of bagging and ties; and for sea-island and round bales 10 and 3 pounds per bale, respectively, have been deducted to cover the weight of wrapping, as reported by the ginners themselves.

Table 6 shows the number of counties forming the cotton-producing states, number of cotton-producing counties, and production and per cent of total crop ginned by counties of 5,000 and 10,000 bales, respectively.

<sup>4</sup>The price of cottonseed for the crop of 1900 has been determined from information furnished by the Oil, Paint and Drug Reporter, and the American Cotton Oil Company, as well as by various cotton-seed oil mills located in the several cotton states.

TABLE 6.—COTTON-PRODUCING STATES, TOTAL NUMBER OF COUNTIES, AND NUMBER REPORTING COTTON GINNING, WITH QUANTITY AND PERCENTAGE OF TOTAL CROP GINNED BY COUNTIES REPORTING 5,000 BALES AND OVER AND 10,000 BALES AND OVER, RESPECTIVELY, 1901.

| STATES AND TERRITORIES. | Total number counties. | COUNTIES REPORTING COTTON GINNING. |                          | COUNTIES REPORTING 5,000 BALES AND OVER. |                          |                           | COUNTIES REPORTING 10,000 BALES AND OVER. |                          |                           |
|-------------------------|------------------------|------------------------------------|--------------------------|--|--------------------------|---------------------------|---|--------------------------|---------------------------|
|                         |                        | Number.                            | Quantity ginned (bales). | Number.                                  | Quantity ginned (bales). | Per cent of total ginned. | Number.                                   | Quantity ginned (bales). | Per cent of total ginned. |
| United States .....     | 1,408                  | 767                                | 9,954,945                | 532                                      | 9,515,168                | 95.6                      | 364                                       | 8,316,292                | 83.5                      |
| Alabama .....           | 66                     | 66                                 | 1,156,812                | 62                                       | 1,149,330                | 99.4                      | 51  | 1,070,881                | 92.6                      |
| Arkansas .....          | 75                     | 71                                 | 738,080                  | 48                                       | 676,034                  | 91.6                      | 33  | 576,435                  | 78.1                      |
| Florida .....           | 45                     | 24                                 | 87,144                   | 5  | 40,816                   | 71.4                      | 1   | 12,575                   | 22.0                      |
| Georgia .....           | 137                    | 126                                | 1,405,032                | 102                                      | 1,361,524                | 96.9                      | 59  | 1,034,694                | 78.6                      |
| Indian Territory .....  | 9                      | 5                                  | 284,170                  | 4  | 282,570                  | 99.4                      | 4   | 282,570                  | 99.4                      |
| Kansas .....            | 106                    | 1                                  | 170                      |  |                          |                           |   |                          |                           |
| Kentucky .....          | 119                    | 2                                  | 1,140                    |  |                          |                           |   |                          |                           |
| Louisiana .....         | 59                     | 48                                 | 800,848                  | 44                                       | 854,516                  | 99.3                      | 30  | 751,784                  | 87.3                      |
| Mississippi .....       | 75                     | 73                                 | 1,275,489                | 68                                       | 1,268,635                | 99.5                      | 48  | 1,116,215                | 87.5                      |
| Missouri .....          | 115                    | 9                                  | 30,837                   | 1  | 19,760                   | 64.1                      | 1   | 19,760                   | 64.1                      |
| North Carolina .....    | 97                     | 70                                 | 2,451,441                | 33                                       | 371,323                  | 82.3                      | 17  | 269,788                  | 57.8                      |
| Oklahoma .....          | 23                     | 15                                 | 149,064                  | 8  | 137,249                  | 92.1                      | 7   | 130,700                  | 87.7                      |
| South Carolina .....    | 40                     | 40                                 | 732,719                  | 38                                       | 686,892                  | 95.1                      | 30  | 663,576                  | 90.6                      |
| Tennessee .....         | 96                     | 41                                 | 3,204,538                | 16                                       | 181,313                  | 88.6                      | 8   | 124,285                  | 60.8                      |
| Texas .....             | 246                    | 166                                | 2,594,442                | 103                                      | 2,475,000                | 95.4                      | 76  | 2,272,129                | 87.6                      |
| Virginia .....          | 100                    | 10                                 | 14,009                   |  |                          |                           |   |                          |                           |

<sup>1</sup> Does not include 16,000 pounds ginned in Graves county but not baled.

<sup>2</sup> Does not include 5,000 pounds ginned in Caldwell county but not baled.

<sup>3</sup> Does not include cotton ginned, but not baled, as follows: Bledsoe county, 1,500 pounds; Dickson county, 2,500 pounds; Monroe county, 1,150 pounds; and White county, 6,000 pounds.

<sup>4</sup> Does not include 5,000 pounds ginned in Pittsylvania county but not baled.

From Table 6 it is seen that of the 1,408 counties forming the 16 cotton-producing states for the crop of 1901, 767, or 54.5 per cent, are cotton-producing counties. Five hundred and thirty-two counties, or 69.4 per cent of the total number producing cotton, reported 5,000 commercial bales and over, and a total crop of 9,515,168 bales, or 95.6 per cent of the entire

crop; and 364 counties, or 47.5 per cent of the cotton-producing counties, reported a production of 10,000 bales and over, and a total production of 8,316,292 bales, or 83.5 per cent of the total crop.

Table 8 shows the distribution of the cotton crops of 1899, 1900, and 1901, by counties, expressed both in commercial and equivalent 500-pound bales.

## HISTORICAL AND DESCRIPTIVE.

Since the introduction of cotton into the commercial world as a product of importance the crop as marketed has been accepted as identical with that grown, except for census years when an enumeration was made through a personal canvass of the farms. An adequate conception of the commercial method of making the count is obtained from the plan of the "Commercial and Financial Chronicle," an accepted authority, which computes the crop from three sources: First, receipts at United States ports; second, shipments from the interior direct to the United States consumers and to Canada; and third, cotton consumed by mills located in the Southern states. The Chronicle counts the port receipts only, taking it for granted that the amount of cotton in the interior at the end of each season, whether in the towns or in the hands of the farmers, is a fixed and unvarying quantity. It is obvious, however, that unless the amount of cotton remaining in the interior towns, and in the hands of the farmers at the end of the season, is the same each year, this method of counting the crop is likely to be erroneous, and the error is necessarily measured by the variation in the quantity of cotton left at the end of the season in the hands of the planters, and in the interior towns.

The first item which enters this count is what is known as net port receipts. With a view of avoiding liability of duplication, the various cotton exchanges try to keep an accurate record of the shipments from one port to another, and thus differentiate port receipts as "net" and "gross." The gross port receipts include all cotton received at the ports, whether shipped from the interior or coastwise from other ports, and the net receipts are those shipped directly from the interior to the ports. The cotton exchanges and the various bureaus that keep count of the cotton movement are dependent upon the fidelity and accuracy of transportation companies to discriminate between gross and net shipments. It is readily seen that in making this discrimination considerable liability to error must arise.

The next factor in this count is "shipments from the interior direct to northern consumers and to Canada." The portion of the crop so counted is technically known as the "overland movement," and is arrived at by taking the shipments passing out of the cotton belt across a theoretical cordon drawn about it, the points of railroad intersection selected for the count being St. Louis, Cairo, Paducah, Rock Island, Louisville, Cincinnati, and minor towns. It is obvious that the cotton shipped via St. Louis to New York will, upon its arrival at New York, be counted as part of the port receipts, and if it is again counted as part of the overland movement there will be duplication. To avoid this there is deducted from the gross overland movement "shipments to ports and from ports to inland mills," and the remainder which is called the "net overland movement" is

reckoned as an integral part of the crop. It is needless to point out the difficulties involved in keeping accurately such a complicated record. It becomes necessary to devise machinery that will accurately count all the cotton moved by rail out of the cotton belt, and to differentiate between the cotton so shipped which is designated for interior or seaboard points. It is further necessary to keep an accurate record of all cotton which is shipped from seaboard points by rail to the interior, and which, in so being shipped, may again pass the arbitrary and theoretical cordon drawn around the cotton belt. While credit is given to the authorities for their conscientiousness of purpose in attempting to keep this record, it is impracticable for them to get the facts accurately.

The third item in this count is southern consumption, which, of necessity, is estimated. There are many reasons why it is impossible to secure from each southern mill its actual cotton consumption during a given season.

In addition to the factors already enumerated, there should be taken into consideration the quantity of linters obtained from re-ginning the cottonseed by the oil mills and reported to the various exchanges in the commercial movement by the transportation companies. Again, there is a clear case of duplication in the rebaling of cotton samples, known as "city crop." A bale of cotton is sampled several times in its progress from the producer to the consumer. These samples, with the cotton torn from the bales, either at the compresses or in handling, are gathered up and rebaled. From a careful inquiry into this subject, it would appear that as much as 150,000 bales are thus duplicated annually.

It is safe to assume that the disparagement between the quantity of cotton grown in 1901 and that commercially moved between September 1, 1901, and August 31, 1902, might equal 450,000 bales, distributed as follows: Reduction in the reserve of cotton produced in previous years, but marketed with this crop on account of scarcity of cotton and advance in prices, 150,000 bales; rebaled samples, 150,000; linters, 150,000, making a total of 450,000 bales.

Statistics collected through this commercial system, however accurately compiled, fall short of the demands of both the producer and manufacturer, first, in that they cover the quantity of cotton marketed between September 1 of one year and August 31 of the following year, and are not statistics of a crop grown in any one year; and, second, the liability to error involved in the count. It is evident that nothing short of an annual census of the crop grown, taken sufficiently early to form a basis of prices, will entirely satisfy the cotton grower or manufacturer. The manner of attaining this end received careful consideration in taking the Twelfth Census.)

(Believing that reports of cotton ginners, showing the number and average weight of the bales passing through their hands during a given year, would afford trustworthy statistics of the crop of that year, the Census Office had its special agents and enumerators visit every cotton-ginning establishment in the country and obtain a report from each of the cotton ginned from the crop of 1899. The report of the crop of 1899 satisfactorily determined the trustworthiness of ginners' returns as to the volume of the cotton crop. But as the data for this first report were gathered by the enumerators, it remained to be demonstrated whether it would be possible to obtain similar facts through the mails. The Census Office, in its reports of the crops of 1900 and 1901, has twice demonstrated that this is a possible method of canvass. Every ginning establishment in the United States, as shown by the mailing list made up from the enumerators' returns of the crop of 1899, has been heard from either directly or indirectly. Wherever there was failure on the part of the ginners to respond to the inquiries of the Census Office, the cooperation of the local postmasters was secured through the courtesy of the Postmaster-General, and in this way the product of every ginners was obtained or the fact ascertained that it had not been in operation. The Census Office, through the individual cooperation of the ginners, has been able to keep its mailing list in perfect condition, by the elimination of abandoned establishments and the addition of new ones.

Conformity between the statistics as reported by the ginners and those measuring the commercial movement of the crop is not possible. The ginners are requested to report only the quantity of cotton ginned from the growth of one year, while statistics of the commercial movement have to do with the cotton marketed between September 1 of one year and August 31 of the following year, thus touching portions of at least two actual crops.

The Agricultural Division of the Census Office, collecting data through a personal canvass of the farms by the enumerators, reported the cotton crop of 1899 at 9,434,345 bales of an equivalent standard of 500 pounds, which is a variance from the crop as reported by the ginners of only 88,939 bales, or nine-tenths of 1 per cent. This is a remarkable verification of the reliability of ginners' reports in ascertaining the volume of the cotton crop. The county distribution made by the two reports differs, because large and important gineries, located near county lines, attract cotton from adjoining counties, or because cotton is grown only to a limited extent in some counties and their entire production is ginned and reported in a neighboring county.

The recent development of cotton manufacture, by mills located near the cotton fields, becomes an important factor in the demand for a change in the methods heretofore employed in estimating the annual American

production of cotton. Thousands of bales which never touch a transportation line are consumed by these mills, and the annual consumption through this source is rapidly increasing. In this connection the following statistics are of value:

COTTON PRODUCTION AND CONSUMPTION OF THE UNITED STATES, 1870 TO 1890, BY DECADES, AND PER CENT CONSUMED IN SOUTHERN MILLS.

| CROP OF—   | TOTAL CROP. | MILL CONSUMPTION. |           |           | PER CENT CONSUMED IN SOUTHERN MILLS. |                                |
|------------|-------------|-------------------|-----------|-----------|--------------------------------------|--------------------------------|
|            |             | North.            | South.    | Total.    | Of total crop.                       | Of total American consumption. |
| 1869 ..... | 2,650,556   | 687,915           | 68,702    | 756,617   | 2.60                                 | 9.08                           |
| 1879 ..... | 5,214,355   | 1,331,630         | 169,058   | 1,500,688 | 3.24                                 | 11.27                          |
| 1889 ..... | 7,128,391   | 1,734,217         | 501,675   | 2,235,892 | 7.04                                 | 22.44                          |
| 1899 ..... | 9,345,390   | 2,219,603         | 1,415,684 | 3,635,287 | 15.15                                | 38.94                          |

The statistics of the above table, covering both the crop and the mill consumption, have been obtained by reducing census figures to an equivalent standard of 500 pounds. The crop given is of the growth of the year indicated, while the consumption statistics are for the year ending May 31, following.

In the census classification, the following states constitute the division known as "Southern states:" Alabama, Arkansas, Florida, Georgia, Indian Territory, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. All other cotton-consuming states, for the purpose of this comparison, are classed as "Northern."

In 1870 the consumption of cotton by southern mills was 68,702 bales, or 9.08 per cent of the American consumption, being only 2.6 per cent of the American production. The consumption of these mills in 1900, as shown by this table, was 1,415,684 bales, or 38.94 per cent of the total consumption and 15.15 per cent of the total American crop.

TABLE 7.—QUANTITY OF COTTON GROWN IN THE UNITED STATES IN THE YEARS GIVEN, BETWEEN 1790 AND 1900.

| CROP OF—   | Production (bales). | Average weight of bale (pounds). | Total gross weight (pounds). | Increase in gross weight over preceding year given (pounds). |
|------------|---------------------|----------------------------------|------------------------------|--|
| 1790 ..... | 8,889               | 225                              | 2,000,025                    | .....  |
| 1800 ..... | 177,778             | 225                              | 40,000,050                   | 38,000,025   |
| 1810 ..... | 320,900             | 250                              | 80,000,000                   | 39,999,950   |
| 1820 ..... | 631,319             | 254                              | 160,000,216                  | 100,000,216  |
| 1830 ..... | 1,312,685           | 339                              | 445,000,215                  | 284,999,798  |
| 1839 ..... | 2,053,193           | 385                              | 790,479,805                  | 345,479,690  |
| 1849 ..... | 2,469,098           | 400                              | 987,637,200                  | 197,157,395  |
| 1859 ..... | 5,337,052           | 445                              | 2,397,238,140                | 1,409,600,940  |
| 1869 ..... | 3,011,996           | 440                              | 1,325,278,240                | 1,071,958,900  |
| 1879 ..... | 5,755,359           | 453                              | 2,607,177,627                | 1,281,899,387  |
| 1889 ..... | 7,472,511           | 477                              | 3,564,887,747                | 957,710,120  |
| 1899 ..... | 9,645,974           | 485                              | 4,672,695,500                | 1,108,807,753  |

<sup>1</sup> Decrease.

The preceding table is interesting as showing the rapid increase in the cotton production of the United States during the past century and the gradual growth of the cotton bale.

The census of 1840, collecting statistics of the crop of 1839, marked the beginning of the inclusion of agricultural statistics in census inquiries. The statistics given in Table 7 for 1839, and for years subsequent thereto, are the results of special census investigations. The cotton production of the United States from 1790 to 1829, inclusive, as shown in this table, is based upon a report to the Speaker of the House of Representatives in 1836, by the Hon. Levi Woodbury, Secretary of the Treasury.

Early settlers north of the Ohio River planted cotton for domestic uses between 1849 and 1880. The census of 1860 found in Illinois 1,482 bales, or 659,490 pounds of cotton. Stimulated by the high prices following the civil war, the cultivation of cotton was conducted to a limited extent in California, Illinois, Indiana, Nevada, Utah, and West Virginia. With the coming of low prices cotton culture gradually disappeared from these sections not peculiarly adapted to it, and censuses after 1870 credited none to California, Illinois, Indiana, Nevada, Utah, or West Virginia. Natural selection continues to eliminate the industry from sections less favored by climatic conditions. To illustrate, Kentucky is credited by the censuses of 1880 and 1890 with 1,367 and 873 bales, respectively, but at the census of 1900 the ginner reported for this state only 84 bales.

The loss of these states lying along the northern border of the cotton belt is more than offset by the increase found in the territory west and southwest of the Mississippi River. According to the Eleventh Census, 2,872,524 bales, or 38 per cent of the entire American crop of 1889, was grown in that region, while in the census of 1900, in the same territory the production, according to the ginner, reached 4,250,940 bales, or 45 per cent of the whole crop. This increase was practically confined to Texas, Oklahoma, and Indian Territory, Texas alone producing 28 per cent of the entire cotton crop. The census of 1890 credited the Indian Territory with 34,115 bales and Oklahoma with 425 bales. The census of 1900 gave these territories respectively 143,608 and 71,983 bales (500-pound standard).

Prior to the invention of the cotton gin by Eli Whitney in 1794 the separation of the seed from the lint cotton was so difficult as to limit the cultivation of cotton. This separation of the seed from the lint had to be done by hand, a task being 4 pounds of lint cotton per week for each head of the family, working at night in addition to the usual field work. Thus it would take one person two years to turn out the quantity of cotton contained in one average standard bale. One machine will gin from three to fifteen 500-pound bales per day, dependent upon its power and saw capacity. While

several machines had been invented for the seeding of cotton, it was reserved for Eli Whitney to inaugurate, by his invention, the era which was to perfect the industry of "cotton ginning" and revolutionize the culture and commerce of the staple.

The primitive saw gin was operated by hand and of necessity exceedingly limited in capacity. The first very substantial advancement, resulting from years of research, was the horse-power attachment for ginning and baling, which brought the old fashioned cotton gin and screw. The motive power for this ginner consisted of 2, 4, or more horses or mules. The cotton was hauled in wagons to the gin house, unloaded by hand into bins, carried again by hand to a platform, and thence fed by hand into the gin. By the old fashioned ginner and screw the lint cotton was blown by a brush from the saw gin into a lint room, where it was often allowed to accumulate, awaiting a rainy day or other opportune occasion for baling. It was then conveyed in baskets or sheets to the single press box of the old "wooden screw," which was located some 30 or 40 feet from the ginhouse. There it was dumped into the box and trampled by foot until a sufficient quantity was inclosed to make a bale. By means of a horse at the lever or wing of the press the follow block, upon which the screw was pivoted, was forced down or up, as the case might be, until the desired bale density was attained. Jute bagging was generally used as a wrapping, and the shape of the bale was preserved, at first by the use of rope, and later by means of iron bands, called "ties."

A few of these "landmarks" are yet found throughout the country, though they are now curiosities. It is scarcely necessary to say that this old method of handling cotton at the gin was exceedingly laborious, wasteful, and unhealthy, and that nothing but cheap labor and high prices for the staple allowed it to continue as long as it did.

Much time, labor, and money have been expended in efforts to combine ginning and baling plants, to the end that greater speed might be gained, labor economized, and other desired reforms attained in handling seed cotton. The outcome is automatic ginneries, practically doing away with labor, and yielding from five to ten times as much lint cotton per day as was possible by the earlier processes.

A modern ginner containing 4 gins of 70 saws each with a double square-bale press and suction apparatus attached requires an 80-horsepower engine. Such a plant in constant operation will yield from 40 to 60 bales of cotton per day. The wagon, loaded with seed cotton, is driven under a flexible slip of a joint pipe, and the cotton is drawn up by the suction created by an exhaust fan which is connected with the rear of the vacuum separator and cleaner. By this separator and cleaner the dust, sand, and leaf trash are sifted and drawn through by suction, and thus freed from impurities the cotton is conveyed through a distributor

to the automatic gin feeders. After filling all of the feeders the surplus cotton falls out at the end of the automatic tube and drops upon the floor or into a bin. When the cotton is all out of the wagon or bin, as the case may be, the ginner, by means of a simple lever, cause the suction to change from the direction of the wagon to that of the overflow, and the overflow cotton is conveyed to the gin feeders. From all the gins the cotton is conducted by a flue system to a condenser, and fed into one box of the self-packing revolving double press. In this way lint is ginned into one box while the bale is being pressed out of the other. Thus, the cotton need not be touched by hand from the time it leaves the wagon or bin until it is delivered, a perfect bale, upon the platform where it is loaded ready for market.

Thus, from the "hand seeder," yielding about 4 pounds of lint cotton per week, advance has been made to the saw gin, which, with a 40-saw capacity and horsepower, yielded about 2,000 pounds per day, and finally to the complete battery ginnery, carrying in some instances as many as 15 70-saw gins, operated by steam and having a possible capacity of 150 bales, or 75,000 pounds, in twelve hours. The condenser and automatic press feed have superseded the old "wooden screw." The laborious handling of the seed is avoided, it being blown either into a distant seed room or into the waiting wagon of the owner. In this way the life and value of the seed are preserved in conformity with the requirements of the oil mill. Thus, the arduous labor heretofore attached to the cotton ginnery has been wonderfully reduced, and life, limb, and property marvelously protected.

Possibly no invention ever caused so rapid a development of the industry with which it was associated as that brought through the saw cotton gin. In 1793 the exportation of cotton from the United States was 487,500 pounds, or 975 bales of an average weight of 500 pounds. In 1794, the year in which the Whitney gin was patented, the number of pounds of cotton exported from the United States was 1,600,000, equivalent to 3,200 bales of a 500-pound standard. This large production so frightened the cotton farmers, in anticipation of an overproduction of the crop, as to cause them to pledge themselves to desist from its production. One of these farmers, looking upon his crop gathered for that year, exclaimed, "I have done with the cultivation of cotton; there is enough in that gin-house to make stockings for all the people in America." And yet within one hundred years, 1800 to 1900, the production of cotton in the United States has increased from, approximately, 80,000 to 9,345,391 bales, 500-pound standard.

The art of pressing cotton has presented to inventors unusual difficulties. Among the recent and more economic methods of baling cotton is the introduction of a bale of uniform size and weight, and possessing greater density. With many of those who advocate

the square bale there is a belief that the density of that package may be so increased as to avoid the present necessity of recompression. Already inventions have been made promising this result, but none have as yet come into general use. The present accepted square bale of commerce is 54 inches in length, varying in breadth from 24 to 27 inches, and pressed down to a thickness of 28 to 30 inches.

Out of the efforts to devise superior systems of preparing lint cotton for market have come a great number of inventions for producing packages of various shapes and weights. But of the scores of presses invented during the past five years for baling cotton in cylindrical form, there have been only two put into practical operation. One of these is called the Bessonette, or Round Lap system. By this system, the lint, as it comes from the gin, is blown into a storage reservoir and bat former, where it is converted into a continuous bat of even thickness, and wound around a cone under a pressure which, light at first, is gradually increased automatically by two rollers operating at opposite sides, until the bale attains its full density. By this steady exertion of an even pressure gradually applied to all the cotton in detail, bales are produced 22 inches in diameter, and 35 and 48 inches in length, weighing on an average 270 and 425 pounds, respectively. The bales require no further compression, as they possess a density of 35 pounds per cubic foot as compared with a density of 22.5 pounds in the old compressed square bale. This package is self-containing, holding its form and density by adhesion of fiber to fiber and layer to layer, thus avoiding the necessity of iron bands to preserve its shape. The first round lap bale press was set up in the United States in 1894. Its product was much heavier than the present bale, reaching as great a weight as 500 pounds.

The other round bale press which has come into practical use is known as the Lowry system, and consists in feeding the lint cotton loose from the gin into a tube surrounded by a cap plate with a number of slots therein radiating from the center to the circumference. The bale is first started in the tube by packing cotton therein by hand. When this is done, and a relative revolution of the cap plate and tube is established, the loose cotton thrown on top comes in contact with that inside the tube and is drawn in through the slots, and the bale is thus built up endwise. In the Bessonette system, pressure is applied from end to end of the bale at two points along the outside circumference, while in the Lowry system pressure is applied only to the end of the bale. The bale turned out by the Lowry press, in its earlier history, like that of the Bessonette press, reached a weight of 500 pounds, but with this press also there has been a gradual tendency toward the lighter-weight package, until at this time the average weight of the bale of its new pattern is but 250 pounds. The bale is of uniform size, 18 inches in

diameter and 36 inches in length, and possesses a density of about 45 pounds per cubic foot, against 22.5 pounds attained in the compressed square bale.

It is interesting to note that this press is being advantageously employed for baling hay and other fibrous

commodities. There have also been other more or less successful experiments in ginning cotton with the device, converting the press into a roller gin. Its successful cotton-packing history may be said to be confined to the past three seasons.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES.

ALABAMA.

| COUNTIES.       | CROP OF 1899.     |           |        |                |   | CROP OF 1900.     |         |        |                |   | CROP OF 1901.     |           |        |                |   |
|-----------------|-------------------|-----------|--------|----------------|---|-------------------|---------|--------|----------------|---|-------------------|-----------|--------|----------------|---|
|                 | Commercial bales. |           |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | Commercial bales. |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | Commercial bales. |           |        |                | Equiva-<br>lent 500-<br>pound<br>bales. |
|                 | Total.            | Square.   | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square.   | Round. | Sea<br>island. |   |
| The State.....  | 1,103,690         | 1,069,644 | 34,046 | .....          | 1,078,519                               | 1,061,678         | 995,802 | 66,076 | .....          | 1,023,802                               | 1,156,812         | 1,068,972 | 87,840 | .....          | 1,101,227                               |
| Autauga.....    | 13,555            | 12,521    | 1,034  | .....          | 13,210                                  | 12,185            | 11,981  | 154    | .....          | 12,101                                  | 15,834            | 15,053    | 281    | .....          | 14,773                                  |
| Baldwin.....    | 509               | 509       | .....  | .....          | 511                                     | 301               | 301     | .....  | 306            | 476                                     | 476               | .....     | .....  | .....          | 482                                     |
| Barbour.....    | 32,622            | 32,622    | .....  | .....          | 32,503                                  | 29,141            | 27,649  | 1,492  | .....          | 28,115                                  | 28,673            | 27,673    | 1,000  | .....          | 27,773                                  |
| Bibb.....       | 5,418             | 5,418     | .....  | .....          | 5,515                                   | 5,340             | 5,340   | .....  | 5,407          | 6,710                                   | 6,710             | .....     | .....  | .....          | 6,616                                   |
| Blount.....     | 11,443            | 11,443    | .....  | .....          | 11,295                                  | 12,155            | 12,155  | .....  | 11,937         | 12,255                                  | 12,255            | .....     | .....  | .....          | 11,936                                  |
| Bullock.....    | 33,126            | 33,126    | .....  | .....          | 33,161                                  | 30,313            | 27,059  | 3,254  | .....          | 28,898                                  | 27,555            | 25,203    | 2,202  | .....          | 26,667                                  |
| Butler.....     | 20,793            | 14,979    | 5,814  | .....          | 18,273                                  | 19,518            | 13,644  | 5,974  | .....          | 16,824                                  | 23,172            | 16,292    | 6,880  | .....          | 20,102                                  |
| Calhoun.....    | 13,870            | 13,870    | .....  | .....          | 13,585                                  | 12,995            | 12,995  | .....  | 12,837         | 18,737                                  | 18,737            | .....     | .....  | .....          | 18,474                                  |
| Chambers.....   | 34,127            | 34,127    | .....  | .....          | 34,015                                  | 30,252            | 30,252  | .....  | 28,092         | 33,326                                  | 33,326            | .....     | .....  | .....          | 31,902                                  |
| Cherokee.....   | 14,492            | 14,492    | .....  | .....          | 14,072                                  | 14,115            | 14,115  | .....  | 13,460         | 13,351                                  | 13,351            | .....     | .....  | .....          | 13,353                                  |
| Chilton.....    | 10,036            | 10,036    | .....  | .....          | 10,085                                  | 12,008            | 12,008  | .....  | 12,030         | 15,560                                  | 15,226            | 334       | .....  | .....          | 16,290                                  |
| Choctaw.....    | 12,181            | 12,181    | .....  | .....          | 12,193                                  | 11,374            | 11,374  | .....  | 11,374         | 13,193                                  | 13,193            | .....     | .....  | .....          | 13,353                                  |
| Clarke.....     | 13,112            | 13,112    | .....  | .....          | 13,123                                  | 16,068            | 16,068  | .....  | 16,159         | 17,463                                  | 17,463            | .....     | .....  | .....          | 17,421                                  |
| Clay.....       | 10,819            | 10,819    | .....  | .....          | 10,301                                  | 11,874            | 11,874  | .....  | 11,875         | 12,147                                  | 12,147            | .....     | .....  | .....          | 11,422                                  |
| Cleburne.....   | 5,513             | 5,513     | .....  | .....          | 4,948                                   | 6,161             | 6,161   | .....  | 5,630          | 6,834                                   | 6,834             | .....     | .....  | .....          | 6,099                                   |
| Coffee.....     | 18,646            | 18,646    | .....  | .....          | 18,409                                  | 18,870            | 17,897  | 973    | .....          | 17,951                                  | 18,901            | 18,898    | 3      | .....          | 17,821                                  |
| Colbert.....    | 10,272            | 7,732     | 2,540  | .....          | 9,284                                   | 10,394            | 8,001   | 2,393  | .....          | 9,447                                   | 10,309            | 9,158     | 1,151  | .....          | 10,656                                  |
| Conecuh.....    | 9,070             | 9,070     | .....  | .....          | 9,085                                   | 10,383            | 8,881   | 1,502  | .....          | 9,741                                   | 13,622            | 10,593    | 3,024  | .....          | 12,474                                  |
| Coosa.....      | 12,385            | 12,385    | .....  | .....          | 11,868                                  | 12,762            | 12,762  | .....  | 12,210         | 14,457                                  | 14,457            | .....     | .....  | .....          | 13,713                                  |
| Covington.....  | 6,310             | 6,310     | .....  | .....          | 6,119                                   | 4,949             | 4,244   | 705    | .....          | 4,484                                   | 7,537             | 5,886     | 1,651  | .....          | 6,719                                   |
| Crenshaw.....   | 17,963            | 17,963    | .....  | .....          | 17,953                                  | 18,241            | 17,473  | 768    | .....          | 17,811                                  | 20,578            | 19,078    | 1,500  | .....          | 19,863                                  |
| Cullman.....    | 9,243             | 7,247     | 2,001  | .....          | 8,135                                   | 10,851            | 8,747   | 2,104  | .....          | 9,768                                   | 13,881            | 10,093    | 3,788  | .....          | 11,824                                  |
| Dale.....       | 17,002            | 17,002    | .....  | .....          | 16,070                                  | 15,702            | 15,702  | .....  | 15,042         | 18,439                                  | 18,439            | .....     | .....  | .....          | 18,051                                  |
| Dallas.....     | 43,350            | 43,350    | .....  | .....          | 43,503                                  | 42,203            | 42,203  | .....  | 42,203         | 38,299                                  | 38,299            | .....     | .....  | .....          | 38,969                                  |
| Dekalb.....     | 10,353            | 10,353    | .....  | .....          | 9,915                                   | 12,133            | 12,133  | .....  | 11,615         | 12,800                                  | 12,800            | .....     | .....  | .....          | 12,073                                  |
| Elmore.....     | 17,142            | 17,142    | .....  | .....          | 16,862                                  | 18,561            | 18,561  | .....  | 18,272         | 22,916                                  | 22,916            | .....     | .....  | .....          | 22,285                                  |
| Escambia.....   | 540               | 540       | .....  | .....          | 547                                     | 930               | 930     | .....  | 921            | 2,125                                   | 2,125             | .....     | .....  | .....          | 2,102                                   |
| Etowah.....     | 11,058            | 11,058    | .....  | .....          | 10,667                                  | 11,185            | 11,185  | .....  | 10,789         | 12,928                                  | 12,928            | .....     | .....  | .....          | 13,101                                  |
| Fayette.....    | 7,833             | 7,833     | .....  | .....          | 7,684                                   | 5,859             | 5,859   | .....  | 5,911          | 7,684                                   | 7,684             | .....     | .....  | .....          | 7,589                                   |
| Franklin.....   | 6,506             | 6,506     | .....  | .....          | 6,553                                   | 8,129             | 8,129   | .....  | 8,173          | 7,797                                   | 7,797             | .....     | .....  | .....          | 7,833                                   |
| Geneva.....     | 9,587             | 9,587     | .....  | .....          | 9,287                                   | 8,520             | 8,520   | .....  | 8,294          | 12,588                                  | 12,588            | .....     | .....  | .....          | 12,210                                  |
| Greene.....     | 21,661            | 20,161    | 1,500  | .....          | 20,664                                  | 14,118            | 13,891  | 227    | .....          | 13,620                                  | 21,475            | 19,128    | 2,347  | .....          | 20,163                                  |
| Hale.....       | 27,601            | 27,601    | .....  | .....          | 27,430                                  | 27,424            | 27,424  | .....  | 27,225         | 24,671                                  | 24,671            | .....     | .....  | .....          | 23,893                                  |
| Henry.....      | 26,287            | 26,287    | .....  | .....          | 26,068                                  | 25,510            | 23,105  | 2,405  | .....          | 24,060                                  | 29,754            | 27,388    | 2,371  | .....          | 27,825                                  |
| Jackson.....    | 5,202             | 5,202     | .....  | .....          | 5,166                                   | 7,009             | 7,009   | .....  | 7,097          | 6,945                                   | 6,945             | .....     | .....  | .....          | 7,017                                   |
| Jefferson.....  | 7,303             | 7,303     | .....  | .....          | 7,324                                   | 6,965             | 6,965   | .....  | 7,005          | 7,716                                   | 7,716             | .....     | .....  | .....          | 7,627                                   |
| Lamar.....      | 11,722            | 11,722    | .....  | .....          | 11,502                                  | 8,622             | 8,622   | .....  | 8,622          | 10,530                                  | 10,530            | .....     | .....  | .....          | 10,533                                  |
| Lauderdale..... | 9,567             | 9,567     | .....  | .....          | 9,432                                   | 10,959            | 9,141   | 1,818  | .....          | 10,048                                  | 12,056            | 9,753     | 2,303  | .....          | 10,742                                  |
| Lawrence.....   | 14,353            | 11,903    | 2,455  | .....          | 13,314                                  | 16,092            | 12,762  | 3,330  | .....          | 14,872                                  | 18,594            | 9,950     | 3,635  | .....          | 11,984                                  |
| Lee.....        | 23,458            | 23,458    | .....  | .....          | 23,084                                  | 26,149            | 26,149  | .....  | 25,957         | 30,610                                  | 30,610            | .....     | .....  | .....          | 30,013                                  |
| Limestone.....  | 13,799            | 12,798    | 1,001  | .....          | 13,588                                  | 16,457            | 14,491  | 1,966  | .....          | 16,088                                  | 16,360            | 15,185    | 1,175  | .....          | 16,087                                  |
| Lowndes.....    | 37,556            | 35,106    | 2,450  | .....          | 36,478                                  | 36,023            | 30,534  | 5,489  | .....          | 33,854                                  | 85,229            | 25,468    | 6,761  | .....          | 31,624                                  |
| Macon.....      | 21,565            | 21,185    | 380    | .....          | 21,245                                  | 21,045            | 20,025  | 1,020  | .....          | 20,362                                  | 23,595            | 21,143    | 2,452  | .....          | 22,171                                  |
| Madison.....    | 16,692            | 13,790    | 2,902  | .....          | 15,824                                  | 20,255            | 15,923  | 4,332  | .....          | 18,906                                  | 23,962            | 18,273    | 5,684  | .....          | 21,687                                  |
| Marengo.....    | 34,437            | 32,254    | 2,183  | .....          | 32,911                                  | 32,400            | 28,170  | 4,230  | .....          | 30,957                                  | 31,981            | 25,481    | 6,500  | .....          | 29,495                                  |
| Marion.....     | 5,805             | 5,805     | .....  | .....          | 5,832                                   | 5,378             | 5,378   | .....  | 5,454          | 6,910                                   | 6,910             | .....     | .....  | .....          | 7,065                                   |
| Marshall.....   | 13,795            | 13,795    | .....  | .....          | 13,284                                  | 16,808            | 16,808  | .....  | 16,090         | 18,293                                  | 14,475            | 3,818     | .....  | .....          | 15,236                                  |
| Mobile.....     | 360               | 360       | .....  | .....          | 360                                     | 20                | 20      | .....  | 20             | 2,924                                   | 60                | 2,864     | .....  | .....          | 1,572                                   |
| Monroe.....     | 17,214            | 17,214    | .....  | .....          | 18,475                                  | 15,837            | 15,837  | .....  | 16,206         | 19,354                                  | 19,354            | .....     | .....  | .....          | 19,837                                  |
| Montgomery..... | 43,158            | 38,408    | 4,750  | .....          | 41,133                                  | 47,002            | 32,750  | 14,252 | .....          | 40,717                                  | 45,190            | 33,079    | 12,111 | .....          | 40,259                                  |
| Morgan.....     | 10,578            | 8,542     | 2,236  | .....          | 10,370                                  | 12,822            | 9,200   | 3,622  | .....          | 12,465                                  | 13,816            | 10,811    | 2,505  | .....          | 12,211                                  |
| Perry.....      | 30,990            | 30,990    | .....  | .....          | 31,566                                  | 27,321            | 27,321  | .....  | 27,849         | 25,844                                  | 24,184            | 1,660     | .....  | .....          | 25,514                                  |
| Pickens.....    | 19,230            | 19,230    | .....  | .....          | 19,227                                  | 17,443            | 17,443  | .....  | 17,307         | 18,172                                  | 18,172            | .....     | .....  | .....          | 17,546                                  |
| Pike.....       | 34,768            | 34,768    | .....  | .....          | 34,927                                  | 27,338            | 25,673  | 1,710  | .....          | 26,756                                  | 29,715            | 26,914    | 2,801  | .....          | 28,270                                  |
| Randolph.....   | 18,088            | 18,088    | .....  | .....          | 16,866                                  | 17,943            | 17,943  | .....  | 16,909         | 18,326                                  | 18,326            | .....     | .....  | .....          | 16,639                                  |
| Russell.....    | 23,725            | 23,725    | .....  | .....          | 23,335                                  | 23,964            | 23,789  | 225    | .....          | 23,291                                  | 24,495            | 24,495    | .....  | .....          | 23,852                                  |
| St. Clair.....  | 9,605             | 9,605     | .....  | .....          | 9,408                                   | 10,128            | 10,128  | .....  | 10,081         | 9,896                                   | 9,896             | .....     | .....  | .....          | 9,744                                   |
| Shelby.....     | 11,628            | 11,628    | .....  | .....          | 11,604                                  | 9,510             | 9,510   | .....  | 9,535          | 11,642                                  | 10,484            | 1,058     | .....  | .....          | 11,015                                  |
| Sumter.....     | 32,994            | 32,994    | .....  | .....          | 32,392                                  | 20,475            | 20,475  | .....  | 20,726         | 23,123                                  | 23,123            | .....     | .....  | .....          | 23,006                                  |
| Talladega.....  | 26,746            | 26,746    | .....  | .....          | 24,478                                  | 22,501            | 22,501  | .....  | 22,014         | 27,910                                  | 27,128            | 782       | .....  | .....          | 26,012                                  |
| Tallapoosa..... | 28,323            | 28,323    | .....  | .....          | 27,188                                  | 28,084            | 28,084  | .....  | 26,951         | 31,001                                  | 31,001            | .....     | .....  | .....          | 29,485                                  |
| Tuscaloosa..... | 19,573            | 16,773    | 2,800  | .....          | 18,288                                  | 14,626            | 13,261  | 1,365  | .....          | 14,149                                  | 21,599            | 18,560    | 3,039  | .....          | 20,493                                  |
| Walker.....     | 5,207             | 5,207     | .....  | .....          | 5,200                                   | 4,520             | 4,520   | .....  | 4,592          | 5,051                                   | 5,051             | .....     | .....  | .....          | 5,084                                   |
| Washington..... | 1,793             | 1,793     | .....  | .....          | 1,820                                   | 1,786             | 1,786   | .....  | 1,951          | 1,951                                   | 1,951             | .....     | .....  | .....          | 1,869                                   |
| Wilcox.....     | 34,690            | 34,690    | .....  | .....          | 34,725                                  | 32,154            | 31,448  | 706    | .....          | 31,946                                  | 28,700            | 26,600    | 2,100  | .....          | 27,325                                  |
| Winston.....    | 4,826             | 4,826     | .....  | .....          | 4,781                                   | 3,463             | 3,463   | .....  | 3,086          | 5,375                                   | 5,375             | .....     | .....  | .....          | 5,080                                   |

# COTTON GINNING.

TABLE S.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—  
Continued.

## ARKANSAS.

| COUNTIES.         | CROP OF 1899.     |         |        |             | CROP OF 1900.               |                   |         |        |             | CROP OF 1901.               |                   |         |        |             |                             |
|-------------------|-------------------|---------|--------|-------------|-----------------------------|-------------------|---------|--------|-------------|-----------------------------|-------------------|---------|--------|-------------|-----------------------------|
|                   | Commercial bales. |         |        |             | EQUIVALENT 500-POUND BALES. | Commercial bales. |         |        |             | EQUIVALENT 500-POUND BALES. | Commercial bales. |         |        |             | EQUIVALENT 500-POUND BALES. |
|                   | Total.            | Square. | Round. | Sea island. |                             | Total.            | Square. | Round. | Sea island. |                             | Total.            | Square. | Round. | Sea island. |                             |
| The State.....    | 719,453           | 685,570 | 33,883 | .....       | 705,583                     | 828,820           | 778,247 | 55,573 | .....       | 812,984                     | 738,080           | 686,903 | 51,177 | .....       | 718,318                     |
| Arkansas.....     | 8,014             | 8,014   | .....  | .....       | 8,057                       | 7,207             | 7,207   | .....  | .....       | 7,887                       | 4,799             | 4,799   | .....  | .....       | 4,858                       |
| Ashley.....       | 26,790            | 23,207  | 3,583  | .....       | 25,087                      | 21,925            | 18,621  | 3,304  | .....       | 20,787                      | 25,126            | 20,065  | 3,061  | .....       | 23,402                      |
| Baxter.....       | 1,891             | 1,891   | .....  | .....       | 1,922                       | 2,393             | 2,393   | .....  | .....       | 2,448                       | 1,500             | 1,500   | .....  | .....       | 1,563                       |
| Boone.....        | 585               | 585     | .....  | .....       | 587                         | 629               | 629     | .....  | .....       | 649                         | 846               | 846     | .....  | .....       | 845                         |
| Bradley.....      | 4,360             | 4,360   | .....  | .....       | 4,336                       | 4,641             | 4,641   | .....  | .....       | 4,686                       | 5,256             | 5,256   | .....  | .....       | 5,198                       |
| Callhoun.....     | 3,853             | 3,853   | .....  | .....       | 3,815                       | 4,454             | 4,454   | .....  | .....       | 4,386                       | 4,406             | 4,406   | .....  | .....       | 4,300                       |
| Chicot.....       | 25,832            | 25,832  | .....  | .....       | 23,859                      | 24,363            | 24,294  | 69     | .....       | 24,247                      | 24,399            | 24,399  | .....  | .....       | 24,805                      |
| Clark.....        | 10,330            | 10,330  | .....  | .....       | 10,375                      | 15,352            | 15,352  | .....  | .....       | 15,642                      | 15,276            | 15,276  | .....  | .....       | 15,402                      |
| Clay.....         | 5,580             | 3,681   | 1,899  | .....       | 4,739                       | 6,988             | 4,826   | 2,162  | .....       | 6,182                       | 5,305             | 4,321   | 984    | .....       | 4,869                       |
| Cleburne.....     | 3,846             | 3,846   | .....  | .....       | 3,830                       | 4,608             | 4,608   | .....  | .....       | 4,696                       | 2,919             | 2,919   | .....  | .....       | 2,949                       |
| Cleveland.....    | 4,764             | 4,764   | .....  | .....       | 4,637                       | 6,978             | 6,978   | .....  | .....       | 6,840                       | 4,716             | 4,716   | .....  | .....       | 4,595                       |
| Columbia.....     | 18,370            | 18,370  | .....  | .....       | 18,216                      | 23,189            | 23,189  | .....  | .....       | 22,674                      | 19,708            | 19,708  | .....  | .....       | 19,471                      |
| Conway.....       | 16,790            | 12,117  | 4,673  | .....       | 14,671                      | 23,030            | 17,218  | 10,812 | .....       | 22,591                      | 18,838            | 12,680  | 5,958  | .....       | 16,352                      |
| Crawhead.....     | 4,889             | 4,889   | .....  | .....       | 4,931                       | 5,833             | 5,833   | .....  | .....       | 5,987                       | 5,181             | 5,181   | .....  | .....       | 5,200                       |
| Crawford.....     | 9,326             | 9,326   | .....  | .....       | 9,439                       | 16,484            | 16,484  | .....  | .....       | 16,992                      | 19,091            | 19,091  | .....  | .....       | 19,350                      |
| Crittenden.....   | 22,943            | 22,943  | .....  | .....       | 22,773                      | 20,333            | 20,333  | .....  | .....       | 20,561                      | 17,609            | 17,609  | .....  | .....       | 17,447                      |
| Cross.....        | 4,407             | 4,407   | .....  | .....       | 4,430                       | 4,687             | 4,687   | .....  | .....       | 4,738                       | 4,030             | 4,030   | .....  | .....       | 4,065                       |
| Dallas.....       | 4,586             | 4,586   | .....  | .....       | 4,512                       | 5,785             | 5,785   | .....  | .....       | 5,701                       | 4,464             | 4,464   | .....  | .....       | 4,418                       |
| Desha.....        | 18,857            | 18,857  | .....  | .....       | 19,196                      | 17,399            | 17,399  | .....  | .....       | 17,521                      | 17,294            | 17,294  | .....  | .....       | 17,544                      |
| Draw.....         | 15,252            | 15,252  | .....  | .....       | 14,955                      | 18,123            | 17,346  | 777    | .....       | 17,810                      | 13,798            | 13,798  | .....  | .....       | 18,606                      |
| Faulkner.....     | 16,220            | 15,024  | 1,196  | .....       | 15,909                      | 18,013            | 17,325  | 688    | .....       | 18,109                      | 13,716            | 620     | .....  | .....       | 14,090                      |
| Franklin.....     | 8,009             | 8,009   | .....  | .....       | 8,097                       | 11,352            | 11,352  | .....  | .....       | 11,606                      | 13,235            | 13,235  | .....  | .....       | 13,424                      |
| Fulton.....       | 1,860             | 1,860   | .....  | .....       | 1,863                       | 2,283             | 2,283   | .....  | .....       | 1,188                       | 2,268             | 2,268   | .....  | .....       | 1,170                       |
| Garland.....      | 700               | 700     | .....  | .....       | 681                         | 1,303             | 1,303   | .....  | .....       | 1,302                       | 953               | 953     | .....  | .....       | 958                         |
| Grant.....        | 2,590             | 2,590   | .....  | .....       | 2,495                       | 3,283             | 3,283   | .....  | .....       | 3,170                       | 3,353             | 3,353   | .....  | .....       | 3,162                       |
| Greene.....       | 2,961             | 2,961   | .....  | .....       | 3,017                       | 5,670             | 5,670   | .....  | .....       | 5,743                       | 5,066             | 5,066   | .....  | .....       | 5,213                       |
| Hempstead.....    | 16,431            | 16,431  | .....  | .....       | 16,459                      | 21,324            | 21,324  | .....  | .....       | 21,595                      | 19,698            | 19,698  | .....  | .....       | 19,937                      |
| Hot Spring.....   | 3,678             | 3,678   | .....  | .....       | 3,615                       | 4,177             | 4,177   | .....  | .....       | 4,193                       | 4,888             | 4,888   | .....  | .....       | 4,908                       |
| Howard.....       | 8,659             | 8,659   | .....  | .....       | 8,696                       | 10,346            | 10,346  | .....  | .....       | 10,464                      | 10,304            | 10,304  | .....  | .....       | 10,463                      |
| Independence..... | 13,873            | 13,683  | 190    | .....       | 13,915                      | 13,155            | 12,202  | 953    | .....       | 12,947                      | 8,181             | 7,794   | 387    | .....       | 7,990                       |
| Izard.....        | 4,848             | 4,848   | .....  | .....       | 4,859                       | 5,626             | 5,626   | .....  | .....       | 5,717                       | 3,336             | 3,336   | .....  | .....       | 3,330                       |
| Jackson.....      | 18,301            | 18,051  | 250    | .....       | 18,346                      | 18,570            | 15,715  | 2,855  | .....       | 17,541                      | 16,250            | 13,454  | 2,796  | .....       | 15,088                      |
| Jefferson.....    | 43,392            | 43,072  | 320    | .....       | 43,320                      | 45,225            | 45,225  | .....  | .....       | 45,743                      | 42,462            | 39,062  | 3,400  | .....       | 41,137                      |
| Johnson.....      | 7,021             | 7,021   | .....  | .....       | 7,001                       | 10,700            | 10,700  | .....  | .....       | 10,910                      | 10,502            | 10,502  | .....  | .....       | 10,548                      |
| Lafayette.....    | 8,153             | 8,153   | .....  | .....       | 8,185                       | 9,521             | 9,521   | .....  | .....       | 9,687                       | 8,991             | 8,991   | .....  | .....       | 8,913                       |
| Lawrence.....     | 7,576             | 5,574   | 2,002  | .....       | 6,775                       | 9,389             | 6,348   | 3,041  | .....       | 8,243                       | 11,580            | 6,989   | 4,591  | .....       | 9,817                       |
| Lee.....          | 21,635            | 21,249  | 386    | .....       | 22,017                      | 20,911            | 20,057  | 854    | .....       | 21,517                      | 18,185            | 17,244  | 941    | .....       | 18,091                      |
| Lincoln.....      | 16,076            | 16,076  | .....  | .....       | 16,029                      | 16,975            | 16,975  | .....  | .....       | 17,120                      | 13,255            | 13,255  | .....  | .....       | 13,246                      |
| Little River..... | 10,627            | 10,627  | .....  | .....       | 10,304                      | 14,997            | 14,997  | .....  | .....       | 14,989                      | 14,270            | 14,270  | .....  | .....       | 14,326                      |
| Logan.....        | 9,168             | 9,168   | .....  | .....       | 9,272                       | 13,696            | 13,696  | .....  | .....       | 13,994                      | 14,392            | 14,392  | .....  | .....       | 14,532                      |
| Lonoke.....       | 25,830            | 19,303  | 6,527  | .....       | 23,172                      | 34,004            | 20,585  | 13,419 | .....       | 28,348                      | 30,041            | 18,810  | 11,231 | .....       | 24,975                      |
| Marion.....       | 2,049             | 2,049   | .....  | .....       | 2,091                       | 2,386             | 2,386   | .....  | .....       | 2,447                       | 1,461             | 1,461   | .....  | .....       | 1,481                       |
| Miller.....       | 9,163             | 9,163   | .....  | .....       | 9,158                       | 11,178            | 11,178  | .....  | .....       | 11,239                      | 7,898             | 7,898   | .....  | .....       | 7,833                       |
| Mississippi.....  | 20,506            | 19,406  | 1,100  | .....       | 20,566                      | 19,865            | 19,721  | 144    | .....       | 20,268                      | 20,243            | 20,243  | .....  | .....       | 20,110                      |
| Monroe.....       | 16,244            | 13,823  | 2,421  | .....       | 15,171                      | 18,855            | 16,655  | 2,200  | .....       | 18,905                      | 13,589            | 8,836   | 4,703  | .....       | 11,562                      |
| Montgomery.....   | 2,391             | 2,391   | .....  | .....       | 2,357                       | 3,811             | 3,811   | .....  | .....       | 3,850                       | 4,626             | 4,626   | .....  | .....       | 4,642                       |
| Nevada.....       | 10,232            | 10,232  | .....  | .....       | 10,102                      | 14,504            | 14,435  | 69     | .....       | 14,446                      | 12,542            | 12,342  | 200    | .....       | 12,232                      |
| Newton.....       | 577               | 577     | .....  | .....       | 578                         | 1,294             | 1,294   | .....  | .....       | 1,340                       | 568               | 568     | .....  | .....       | 523                         |
| Onachita.....     | 7,776             | 7,776   | .....  | .....       | 7,651                       | 8,361             | 8,361   | .....  | .....       | 8,327                       | 7,529             | 7,529   | .....  | .....       | 7,347                       |
| Perry.....        | 5,473             | 5,473   | .....  | .....       | 5,549                       | 5,505             | 5,505   | .....  | .....       | 5,666                       | 4,540             | 4,540   | .....  | .....       | 4,512                       |
| Phillips.....     | 33,554            | 33,502  | 52     | .....       | 33,560                      | 28,537            | 28,537  | .....  | .....       | 28,819                      | 22,453            | 22,453  | .....  | .....       | 22,727                      |
| Pike.....         | 5,013             | 5,013   | .....  | .....       | 5,049                       | 6,295             | 6,295   | .....  | .....       | 6,408                       | 5,904             | 5,904   | .....  | .....       | 6,046                       |
| Poinsett.....     | 2,303             | 2,303   | .....  | .....       | 2,344                       | 1,332             | 1,332   | .....  | .....       | 1,443                       | 1,183             | 1,183   | .....  | .....       | 1,197                       |
| Polk.....         | 1,163             | 1,163   | .....  | .....       | 1,155                       | 1,670             | 1,670   | .....  | .....       | 1,697                       | 1,385             | 1,385   | .....  | .....       | 1,377                       |
| Pope.....         | 11,000            | 11,000  | .....  | .....       | 11,290                      | 15,421            | 15,421  | .....  | .....       | 16,090                      | 12,859            | 12,859  | .....  | .....       | 13,217                      |
| Prairie.....      | 6,791             | 6,791   | .....  | .....       | 6,962                       | 7,201             | 7,201   | .....  | .....       | 7,394                       | 5,588             | 5,588   | .....  | .....       | 5,609                       |
| Pulaski.....      | 20,684            | 20,684  | .....  | .....       | 20,737                      | 24,109            | 24,109  | .....  | .....       | 23,990                      | 22,754            | 22,754  | .....  | .....       | 22,735                      |
| Randolph.....     | 2,963             | 2,963   | .....  | .....       | 3,035                       | 4,949             | 4,251   | 698    | .....       | 4,820                       | 5,026             | 4,358   | 668    | .....       | 4,756                       |
| St. Francis.....  | 15,028            | 15,028  | .....  | .....       | 15,202                      | 13,444            | 11,274  | 2,170  | .....       | 12,789                      | 10,771            | 8,184   | 2,587  | .....       | 9,643                       |
| Saltne.....       | 3,634             | 3,634   | .....  | .....       | 3,646                       | 5,170             | 5,170   | .....  | .....       | 5,210                       | 6,178             | 6,178   | .....  | .....       | 6,176                       |
| Scott.....        | 3,492             | 3,492   | .....  | .....       | 3,491                       | 5,935             | 5,935   | .....  | .....       | 6,144                       | 6,609             | 6,609   | .....  | .....       | 6,736                       |
| Searcy.....       | 1,519             | 1,519   | .....  | .....       | 1,517                       | 2,515             | 2,515   | .....  | .....       | 2,547                       | 1,191             | 1,191   | .....  | .....       | 1,192                       |
| Sebastian.....    | 6,828             | 6,828   | .....  | .....       | 6,936                       | 9,329             | 9,329   | .....  | .....       | 9,673                       | 12,611            | 12,611  | .....  | .....       | 12,851                      |
| Sevier.....       | 7,024             | 7,024   | .....  | .....       | 7,042                       | 8,094             | 8,094   | .....  | .....       | 8,197                       | 7,262             | 7,262   | .....  | .....       | 7,305                       |
| Shore.....        | 3,579             | 3,579   | .....  | .....       | 3,573                       | 3,117             | 3,117   | .....  | .....       | 3,161                       | 2,461             | 2,461   | .....  | .....       | 2,456                       |
| Stone.....        | 2,034             | 2,029   | 5      | .....       | 2,027                       | 2,054             | 2,054   | .....  | .....       | 2,065                       | 1,128             | 1,128   | .....  | .....       | 1,117                       |
| Union.....        | 14,420            | 14,420  | .....  | .....       | 12,300                      | 15,712            | 15,712  | .....  | .....       | 15,684                      | 14,382            | 14,382  | .....  | .....       | 14,246                      |
| Van Buren.....    | 3,122             | 3,122   | .....  | .....       | 3,201                       | 3,473             | 3,473   | .....  | .....       | 3,603                       | 2,605             | 2,605   | .....  | .....       | 2,664                       |
| White.....        | 11,714            | 11,369  | 345    | .....       | 11,495                      | 12,377            | 12,377  | .....  | .....       | 12,647                      | 9,615             | 9,615   | .....  | .....       | 9,597                       |
| Woodruff.....     | 19,741            | 11,404  | 8,337  | .....       | 16,155                      | 21,980            | 12,216  | 9,764  | .....       | 18,183                      | 15,789            | 7,781   | 8,008  | .....       | 11,722                      |
| Yell.....         | 12,573            | 11,976  | 597    | .....       | 12,299                      | 20,518            | 18,924  | 1,594  | .....       | 20,472                      | 20,701            | 19,801  | 900    | .....       | 20,496                      |

MANUFACTURES.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—Continued.

FLORIDA.

| COUNTIES.       | CROP OF 1899.     |         |        |                | CROP OF 1900.    |         |        |                | CROP OF 1901.                           |                   |         |        | Equiva-<br>lent 500-<br>pound<br>bales. |                |        |
|-----------------|-------------------|---------|--------|----------------|------------------|---------|--------|----------------|---|-------------------|---------|--------|---|----------------|--------|
|                 | Commercial bales. |         |        |                | Commercial bales |         |        |                | EQUIVA-<br>LENT 500-<br>POUND<br>BALES. | Commercial bales. |         |        |   |                |        |
|                 | Total.            | Square. | Round. | Sea<br>Island. | Total.           | Square. | Round. | Sea<br>Island. |   | Total.            | Square. | Round. |   | Sea<br>Island. |        |
| The State.....  | 56,821            | 25,583  | .....  | 31,288         | 49,359           | 55,696  | 27,680 | .....          | 28,066                                  | 48,616            | 57,144  | 29,379 | .....                                   | 27,765         | 49,991 |
| Alachua.....    | 5,643             | 775     | .....  | 4,868          | 4,501            | 6,070   | .....  | 6,070          | 4,671                                   | 6,920             | .....   | .....  | .....                                   | 6,920          | 5,169  |
| Baker.....      | 985               | .....   | .....  | 985            | 741              | 569     | .....  | 569            | 425                                     | 891               | .....   | .....  | .....                                   | 891            | 651    |
| Bradford.....   | 3,793             | .....   | .....  | 3,793          | 2,733            | 3,773   | .....  | 3,773          | 2,701                                   | 2,962             | .....   | .....  | .....                                   | 2,962          | 2,345  |
| Calhoun.....    | 199               | 159     | .....  | 40             | 191              | 261     | 236    | .....          | 25                                      | 375               | 850     | .....  | .....                                   | 25             | 363    |
| Columbia.....   | 4,490             | .....   | .....  | 4,490          | 3,509            | 2,855   | .....  | 2,855          | 2,218                                   | 2,486             | .....   | .....  | .....                                   | 2,486          | 1,933  |
| Escambia.....   | 125               | 125     | .....  | .....          | 125              | 103     | .....  | .....          | 103                                     | 123               | .....   | .....  | .....                                   | 123            | 121    |
| Gadsden.....    | 636               | 404     | .....  | 232            | 549              | 804     | 648    | .....          | 156                                     | 723               | 1,243   | 1,120  | .....                                   | 123            | 1,135  |
| Hamilton.....   | 2,978             | .....   | .....  | 2,978          | 2,778            | 2,983   | 50     | .....          | 2,933                                   | 2,265             | 1,272   | .....  | .....                                   | 1,265          | 957    |
| Holmes.....     | 411               | 373     | .....  | 88             | 407              | 513     | 483    | .....          | 30                                      | 505               | 675     | .....  | .....                                   | 25             | 659    |
| Jackson.....    | 9,366             | 8,862   | .....  | 504            | 9,387            | 9,491   | 9,188  | .....          | 303                                     | 9,564             | 12,575  | 12,200 | .....                                   | 375            | 12,399 |
| Jefferson.....  | 5,844             | 5,424   | .....  | 420            | 5,637            | 6,065   | 5,827  | .....          | 288                                     | 5,837             | 5,771   | 5,570  | .....                                   | 201            | 5,411  |
| Lafayette.....  | 421               | .....   | .....  | 421            | 321              | 256     | .....  | 256            | 205                                     | 150               | .....   | .....  | .....                                   | 150            | 115    |
| Leon.....       | 6,184             | 6,184   | .....  | .....          | 5,983            | 5,965   | 5,965  | .....          | 5,805                                   | 5,728             | 5,728   | .....  | .....                                   | .....          | 5,510  |
| Levy.....       | 112               | .....   | .....  | 112            | 78               | 825     | .....  | .....          | 825                                     | 600               | 645     | .....  | .....                                   | 645            | 397    |
| Madison.....    | 11,077            | 2,094   | .....  | 8,983          | 9,046            | 9,099   | 3,458  | .....          | 5,641                                   | 7,667             | 9,822   | 1,360  | .....                                   | 8,462          | 7,921  |
| Marion.....     | 339               | 3       | .....  | 336            | 251              | 531     | 20     | .....          | 511                                     | 401               | 495     | 25     | .....                                   | 470            | 377    |
| Nassau.....     | 10                | .....   | .....  | 10             | 8                | 16      | .....  | .....          | 16                                      | 13                | .....   | .....  | .....                                   | 13             | 21     |
| Putnam.....     | .....             | .....   | .....  | .....          | .....            | .....   | .....  | .....          | .....                                   | 35                | .....   | .....  | .....                                   | .....          | 22     |
| Santa Rosa..... | 24                | 24      | .....  | .....          | 22               | 95      | 95     | .....          | .....                                   | 88                | 165     | 165    | .....                                   | .....          | 161    |
| Suwanee.....    | 2,860             | .....   | .....  | 2,860          | 2,294            | 3,145   | .....  | .....          | 3,145                                   | 2,512             | 2,149   | .....  | .....                                   | 2,149          | 1,711  |
| Taylor.....     | 168               | .....   | .....  | 168            | 135              | 720     | .....  | .....          | 720                                     | 576               | 460     | .....  | .....                                   | 460            | 362    |
| Wakulla.....    | 20                | 20      | .....  | .....          | 18               | 107     | 107    | .....          | .....                                   | 96                | 292     | 102    | .....                                   | 130            | 249    |
| Walton.....     | 497               | 497     | .....  | .....          | 496              | 659     | 659    | .....          | .....                                   | 613               | 754     | .....  | .....                                   | .....          | 748    |
| Washington..... | 639               | 639     | .....  | .....          | 649              | 791     | 791    | .....          | .....                                   | 791               | 1,225   | 1,225  | .....                                   | .....          | 1,283  |

GEORGIA.

|                    |           |           |        |        |           |           |           |        |        |           |           |           |        |        |           |
|--------------------|-----------|-----------|--------|--------|-----------|-----------|-----------|--------|--------|-----------|-----------|-----------|--------|--------|-----------|
| The State.....     | 1,296,844 | 1,220,117 | 18,915 | 57,812 | 1,231,060 | 1,270,597 | 1,191,125 | 27,393 | 52,079 | 1,203,306 | 1,405,092 | 1,300,125 | 62,470 | 42,497 | 1,314,881 |
| Appling.....       | 4,046     | 268       | .....  | 3,778  | 3,160     | 2,800     | 572       | .....  | 2,228  | 2,196     | 2,557     | 644       | .....  | 1,913  | 2,033     |
| Baker.....         | 4,039     | 4,039     | .....  | .....  | 3,938     | 3,419     | 3,419     | .....  | .....  | 3,260     | 4,478     | 4,473     | .....  | .....  | 4,467     |
| Baldwin.....       | 10,119    | 10,119    | .....  | .....  | 9,666     | 6,534     | 6,128     | 400    | .....  | 6,185     | 10,708    | 10,210    | 408    | .....  | 10,116    |
| Banks.....         | 8,791     | 8,791     | .....  | .....  | 7,915     | 9,704     | 9,704     | .....  | .....  | 8,839     | 9,382     | 9,382     | .....  | .....  | 8,390     |
| Bartow.....        | 12,802    | 12,802    | .....  | .....  | 12,540    | 12,980    | 12,980    | .....  | .....  | 12,672    | 16,672    | 12,778    | 3,894  | .....  | 14,288    |
| Berrien.....       | 6,086     | 1,142     | .....  | 4,944  | 4,935     | 6,961     | 1,318     | .....  | 5,643  | 5,660     | 6,878     | 2,498     | .....  | 4,380  | 5,519     |
| Bibb.....          | 6,568     | 6,568     | .....  | .....  | 6,475     | 6,033     | 6,033     | .....  | .....  | 5,914     | 8,095     | 8,095     | .....  | .....  | 8,274     |
| Brooks.....        | 8,731     | 6,396     | .....  | 2,335  | 8,241     | 7,075     | 4,872     | .....  | 2,303  | 7,064     | 8,743     | 6,461     | .....  | 2,282  | 8,188     |
| Bryan.....         | 479       | 227       | .....  | 252    | 393       | 594       | 337       | .....  | 167    | 452       | 762       | 695       | .....  | 67     | 633       |
| Bulloch.....       | 9,792     | 1,924     | .....  | 7,868  | 8,132     | 7,470     | 1,993     | .....  | 5,607  | 6,267     | 6,999     | 2,471     | .....  | 4,528  | 5,928     |
| Burke.....         | 46,152    | 43,327    | 2,650  | 175    | 44,269    | 37,881    | 33,625    | 4,112  | 144    | 33,987    | 85,740    | 29,881    | 5,829  | 30     | 91,563    |
| Butts.....         | 14,415    | 14,415    | .....  | .....  | 14,389    | 13,761    | 13,761    | .....  | .....  | 13,313    | 18,045    | 18,045    | .....  | .....  | 17,785    |
| Calhoun.....       | 9,472     | 9,472     | .....  | .....  | 9,312     | 13,420    | 13,420    | .....  | .....  | 13,323    | 12,121    | 12,121    | .....  | .....  | 12,059    |
| Campbell.....      | 9,614     | 9,614     | .....  | .....  | 9,192     | 9,556     | 9,556     | .....  | .....  | 9,226     | 9,166     | 9,166     | .....  | .....  | 8,802     |
| Carroll.....       | 28,504    | 26,715    | 1,789  | .....  | 25,747    | 28,055    | 26,139    | 1,916  | .....  | 25,117    | 30,688    | 29,278    | 1,405  | .....  | 27,116    |
| Catoosa.....       | 810       | 810       | .....  | .....  | 680       | 1,133     | 1,133     | .....  | .....  | 1,034     | 947       | 947       | .....  | .....  | 821       |
| Charlton.....      | 302       | .....     | .....  | 302    | 242       | 205       | .....     | .....  | .....  | 163       | 86        | .....     | .....  | 86     | 67        |
| Chattahoochee..... | 5,039     | 5,039     | .....  | .....  | 4,970     | 5,317     | 5,317     | .....  | .....  | 5,185     | 4,846     | 4,846     | .....  | .....  | 4,739     |
| Chattooga.....     | 7,079     | 7,079     | .....  | .....  | 6,451     | 6,772     | 6,772     | .....  | .....  | 6,119     | 7,517     | 7,517     | .....  | .....  | 6,917     |
| Cherokee.....      | 6,760     | 6,760     | .....  | .....  | 5,922     | 6,935     | 6,935     | .....  | .....  | 6,133     | 8,208     | 8,208     | .....  | .....  | 7,157     |
| Clarke.....        | 3,532     | 3,532     | .....  | .....  | 3,119     | 6,633     | 6,633     | .....  | .....  | 6,347     | 8,083     | 8,083     | .....  | .....  | 7,667     |
| Clay.....          | 9,345     | 9,345     | .....  | .....  | 9,360     | 7,334     | 7,334     | .....  | .....  | 7,343     | 9,063     | 9,013     | 50     | .....  | 9,024     |
| Clayton.....       | 8,079     | 8,079     | .....  | .....  | 7,851     | 8,657     | 8,657     | .....  | .....  | 8,407     | 10,591    | 10,591    | .....  | .....  | 10,135    |
| Clinch.....        | 592       | .....     | .....  | 592    | 462       | 850       | .....     | .....  | .....  | 716       | 592       | .....     | .....  | 592    | 421       |
| Cobb.....          | 14,979    | 14,979    | .....  | .....  | 13,379    | 14,047    | 14,047    | .....  | .....  | 12,752    | 15,191    | 15,191    | .....  | .....  | 13,155    |
| Coffee.....        | 3,369     | 19        | .....  | 3,350  | 2,801     | 4,369     | 553       | .....  | 3,811  | 3,540     | 5,196     | 943       | .....  | 4,253  | 4,137     |
| Colquitt.....      | 4,347     | 1,785     | .....  | 2,562  | 3,625     | 5,436     | .....     | .....  | 2,345  | 4,578     | 5,365     | 3,518     | .....  | 1,847  | 4,704     |
| Columbia.....      | 9,354     | 9,354     | .....  | .....  | 9,134     | 7,612     | .....     | .....  | .....  | 7,323     | 8,303     | 8,303     | .....  | .....  | 8,090     |
| Coweta.....        | 24,680    | 23,480    | 1,200  | .....  | 23,700    | 21,456    | 20,306    | 1,150  | .....  | 20,211    | 27,818    | 26,332    | 1,486  | .....  | 26,367    |
| Crawford.....      | 7,158     | 7,158     | .....  | .....  | 7,177     | 7,319     | 7,319     | .....  | .....  | 7,289     | 7,423     | 7,423     | .....  | .....  | 7,230     |
| Dawson.....        | 1,297     | 1,297     | .....  | .....  | 1,123     | 1,084     | 1,084     | .....  | .....  | 988       | 1,362     | 1,362     | .....  | .....  | 1,185     |
| Deatur.....        | 4,891     | 4,551     | .....  | 340    | 4,691     | 5,573     | 5,106     | .....  | .....  | 5,151     | 7,404     | 6,951     | .....  | 453    | 6,834     |
| Dekalb.....        | 6,981     | 6,981     | .....  | .....  | 6,370     | 6,716     | 6,716     | .....  | .....  | 6,197     | 9,493     | 9,493     | .....  | .....  | 8,662     |
| Dodge.....         | 10,729    | 10,729    | .....  | .....  | 10,705    | 11,510    | 11,510    | .....  | .....  | 11,447    | 13,011    | 13,011    | .....  | .....  | 13,009    |
| Dooly.....         | 18,573    | 18,573    | .....  | .....  | 18,465    | 23,122    | 21,424    | 1,698  | .....  | 22,141    | 24,366    | 20,014    | 4,352  | .....  | 22,126    |
| Dougherty.....     | 12,835    | 12,493    | .....  | 342    | 13,395    | 17,027    | 17,027    | .....  | .....  | 16,251    | 15,259    | 15,259    | .....  | .....  | 14,803    |
| Douglas.....       | 8,091     | 8,091     | .....  | .....  | 7,384     | 7,216     | 7,216     | .....  | .....  | 6,478     | 6,436     | 6,436     | .....  | .....  | 5,732     |
| Early.....         | 6,302     | 6,302     | .....  | .....  | 6,352     | 7,535     | 7,535     | .....  | .....  | 7,645     | 9,415     | 9,415     | .....  | .....  | 9,577     |
| Echols.....        | 795       | .....     | .....  | 795    | 618       | 418       | .....     | .....  | .....  | 319       | 407       | .....     | .....  | 407    | 320       |
| Effingham.....     | 429       | 429       | .....  | .....  | 422       | 633       | 633       | .....  | .....  | 669       | 857       | 857       | .....  | .....  | 803       |
| Elbert.....        | 14,945    | 14,580    | 365    | .....  | 12,688    | 13,510    | 13,510    | .....  | .....  | 11,793    | 16,425    | 15,710    | 715    | .....  | 14,210    |
| Emanuel.....       | 13,587    | 9,525     | .....  | 4,062  | 11,845    | 13,580    | 9,993     | .....  | .....  | 12,159    | 12,020    | 10,796    | .....  | 1,224  | 10,835    |
| Fayette.....       | 9,449     | 9,449     | .....  | .....  | 9,476     | 9,502     | 9,502     | .....  | 3,627  | 9,334     | 11,133    | 11,133    | .....  | .....  | 10,769    |
| Floyd.....         | 11,864    | 10,532    | 1,332  | .....  | 10,787    | 12,721    | 11,321    | 1,400  | .....  | 11,655    | 12,331    | 11,631    | 1,200  | .....  | 11,673    |
| Forsyth.....       | 7,449     | 7,449     | .....  | .....  | 6,889     | 7,656     | 7,656     | .....  | .....  | 6,782     | 7,601     | 7,601     | .....  | .....  | 6,561     |
| Franklin.....      | 13,988    | 13,971    | 17     | .....  | 12,809    | 14,222    | 14,222    | .....  | .....  | 13,069    | 14,771    | 14,471    | 300    | .....  | 12,175    |
| Fulton.....        | 1,604     | 1,604     | .....  | .....  | 1,398     | 1,377     | 1,315     | .....  | .....  | 1,272     | 1,041     | 1,041     | .....  | .....  | 935       |
| Glasseck.....      | 3,902     | 3,902     | .....  | .....  | 3,879     | 2,272     | 2,272     | 62     | .....  | 2,197     | 2,956     | 2,956     | .....  | .....  | 2,920     |
| Gordon.....        | 6,609     | 6,609     | .....  | .....  | 6,292     | 6,179     | 6,179     | .....  | .....  | 5,877     | 7,537     | 7,537     | .....  | .....  | 7,303     |
| Gre                |           |           |        |        |           |           |           |        |        |           |           |           |        |        |           |

COTTON GINNING.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—Continued.

GEORGIA—Continued.

| COUNTIES.       | CROP OF 1899.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | CROP OF 1900.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | CROP OF 1901.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. |
|-----------------|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|
|                 | Commercial bales. |         |        |                |   | Commercial bales. |         |        |                |   | Commercial bales. |         |        |                |   |
|                 | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   |
| Gwinnett.....   | 17,667            | 17,559  | 108    | .....          | 15,736                                  | 18,604            | 17,444  | 1,160  | .....          | 16,634                                  | 22,127            | 20,127  | 2,000  | .....          | 19,354                                  |
| Habersham.....  | 1,485             | 1,485   | .....  | .....          | 1,278                                   | 1,834             | 1,834   | .....  | .....          | 1,660                                   | 1,603             | 1,603   | .....  | .....          | 1,409                                   |
| Hall.....       | 9,586             | 9,586   | .....  | .....          | 8,378                                   | 11,469            | 11,469  | .....  | .....          | 10,243                                  | 11,632            | 11,632  | .....  | .....          | 9,846                                   |
| Hancock.....    | 14,371            | 13,888  | 483    | .....          | 13,719                                  | 16,001            | 15,112  | 889    | .....          | 15,052                                  | 13,069            | 12,107  | 962    | .....          | 12,162                                  |
| Harrison.....   | 5,597             | 5,597   | .....  | .....          | 4,817                                   | 6,159             | 6,159   | .....  | .....          | 6,261                                   | 6,928             | 6,928   | .....  | .....          | 6,187                                   |
| Harris.....     | 22,852            | 21,330  | 1,522  | .....          | 22,008                                  | 22,484            | 19,315  | 3,169  | .....          | 20,749                                  | 23,343            | 21,033  | 2,310  | .....          | 21,864                                  |
| Hart.....       | 12,519            | 12,421  | 98     | .....          | 11,261                                  | 12,170            | 12,170  | .....  | .....          | 11,180                                  | 11,738            | 11,738  | .....  | .....          | 10,801                                  |
| Heard.....      | 13,422            | 13,422  | .....  | .....          | 12,996                                  | 10,966            | 10,966  | .....  | .....          | 10,531                                  | 11,305            | 11,305  | .....  | .....          | 10,727                                  |
| Henry.....      | 20,056            | 19,856  | 200    | .....          | 19,408                                  | 19,975            | 19,975  | .....  | .....          | 19,421                                  | 22,392            | 22,392  | .....  | .....          | 21,462                                  |
| Houston.....    | 20,782            | 20,782  | .....  | .....          | 20,727                                  | 21,537            | 21,345  | 192    | .....          | 21,375                                  | 22,696            | 21,503  | 1,193  | .....          | 21,961                                  |
| Irwin.....      | 2,929             | 1,891   | .....  | 1,038          | 2,665                                   | 3,450             | 2,276   | 1,174  | .....          | 3,296                                   | 6,163             | 5,551   | .....  | 612            | 5,907                                   |
| Jackson.....    | 22,866            | 22,816  | 50     | .....          | 20,379                                  | 25,003            | 25,003  | .....  | .....          | 22,904                                  | 25,006            | 25,006  | .....  | .....          | 22,909                                  |
| Jasper.....     | 16,220            | 15,320  | .....  | .....          | 15,189                                  | 16,517            | 16,517  | .....  | .....          | 16,359                                  | 19,308            | 17,968  | 1,840  | .....          | 18,243                                  |
| Jefferson.....  | 21,182            | 21,182  | .....  | .....          | 19,887                                  | 15,622            | 15,423  | 199    | .....          | 14,416                                  | 18,713            | 18,140  | 573    | .....          | 17,390                                  |
| Johnson.....    | 8,436             | 8,336   | .....  | .....          | 8,016                                   | 6,907             | 6,708   | 199    | .....          | 6,403                                   | 7,403             | 5,700   | 1,703  | .....          | 6,361                                   |
| Jones.....      | 11,130            | 11,130  | .....  | .....          | 11,165                                  | 10,358            | 10,358  | .....  | .....          | 13,340                                  | 11,695            | 11,995  | .....  | .....          | 11,855                                  |
| Laurens.....    | 22,080            | 21,330  | 700    | .....          | 21,298                                  | 18,526            | 13,167  | 304    | 55             | 18,058                                  | 23,398            | 21,917  | 1,291  | 190            | 23,814                                  |
| Lee.....        | 2,651             | 8,654   | .....  | .....          | 8,195                                   | 7,968             | 7,968   | .....  | .....          | 7,486                                   | 8,480             | 8,370   | 110    | .....          | 8,137                                   |
| Liberty.....    | 450               | 80      | .....  | 420            | 360                                     | 271               | 113     | .....  | 158            | 209                                     | 630               | 837     | .....  | 293            | 510                                     |
| Lincoln.....    | 5,132             | 5,132   | .....  | .....          | 5,053                                   | 6,606             | 6,606   | .....  | .....          | 6,557                                   | 7,758             | 7,758   | .....  | .....          | 7,683                                   |
| Lowndes.....    | 7,691             | 114     | .....  | 7,577          | 6,162                                   | 5,853             | 404     | .....  | 5,449          | 4,799                                   | 5,504             | 819     | .....  | 4,685          | 4,507                                   |
| Lumpkin.....    | 75                | 75      | .....  | .....          | 58                                      | 144               | 144     | .....  | .....          | 115                                     | 111               | 111     | .....  | .....          | 92                                      |
| McDuffie.....   | 8,635             | 6,901   | 1,734  | .....          | 7,678                                   | 6,821             | 6,480   | 341    | .....          | 6,612                                   | 6,991             | 6,693   | 295    | .....          | 6,812                                   |
| Macon.....      | 16,713            | 16,713  | .....  | .....          | 16,761                                  | 14,977            | 14,977  | .....  | .....          | 14,995                                  | 16,660            | 16,660  | .....  | .....          | 17,085                                  |
| Madison.....    | 11,443            | 11,443  | .....  | .....          | 10,259                                  | 12,034            | 12,034  | .....  | .....          | 10,990                                  | 13,556            | 13,556  | .....  | .....          | 12,340                                  |
| Marion.....     | 9,681             | 9,681   | .....  | .....          | 9,336                                   | 6,886             | 6,886   | .....  | .....          | 6,692                                   | 8,257             | 8,257   | .....  | .....          | 7,996                                   |
| Meriwether..... | 22,452            | 22,452  | .....  | .....          | 22,401                                  | 21,208            | 21,208  | .....  | .....          | 21,111                                  | 23,524            | 23,524  | .....  | .....          | 23,185                                  |
| Miller.....     | 2,075             | 2,025   | .....  | 50             | 2,038                                   | 1,881             | 1,850   | .....  | 31             | 1,924                                   | 2,303             | 2,773   | .....  | 80             | 2,321                                   |
| Milton.....     | 6,407             | 6,407   | .....  | .....          | 5,447                                   | 4,759             | 4,759   | .....  | .....          | 4,258                                   | 6,219             | 6,219   | .....  | .....          | 5,484                                   |
| Mitchell.....   | 10,049            | 7,863   | .....  | 2,186          | 9,520                                   | 12,374            | 9,786   | .....  | 2,638          | 11,332                                  | 11,314            | 10,097  | .....  | 1,217          | 10,877                                  |
| Monroe.....     | 18,724            | 18,724  | .....  | .....          | 18,348                                  | 17,513            | 17,047  | 466    | .....          | 17,104                                  | 20,151            | 19,106  | 1,045  | .....          | 19,453                                  |
| Montgomery..... | 5,392             | 4,853   | .....  | 534            | 4,892                                   | 5,044             | 4,650   | .....  | 394            | 4,626                                   | 6,710             | 6,342   | .....  | 368            | 6,383                                   |
| Morgan.....     | 16,453            | 15,220  | 1,233  | .....          | 15,637                                  | 18,736            | 16,833  | 1,853  | .....          | 17,762                                  | 24,481            | 21,330  | 3,011  | .....          | 22,632                                  |
| Murray.....     | 2,586             | 2,586   | .....  | .....          | 2,346                                   | 2,115             | 2,115   | .....  | .....          | 1,980                                   | 1,921             | 1,921   | .....  | .....          | 1,784                                   |
| Muscogee.....   | 7,042             | 7,042   | .....  | .....          | 6,939                                   | 5,937             | 5,662   | 275    | .....          | 5,676                                   | 8,439             | 7,326   | 1,118  | .....          | 7,784                                   |
| Newton.....     | 14,373            | 14,348  | 25     | .....          | 14,037                                  | 15,926            | 15,926  | .....  | .....          | 15,872                                  | 17,639            | 17,577  | 112    | .....          | 16,400                                  |
| Oconee.....     | 7,349             | 7,349   | .....  | .....          | 6,992                                   | 8,530             | 8,530   | .....  | .....          | 8,343                                   | 10,331            | 10,331  | .....  | .....          | 10,168                                  |
| Oglethorpe..... | 19,276            | 19,256  | 20     | .....          | 17,859                                  | 18,245            | 18,245  | .....  | .....          | 17,244                                  | 22,340            | 22,340  | .....  | .....          | 20,635                                  |
| Palding.....    | 9,151             | 9,151   | .....  | .....          | 8,181                                   | 7,587             | 7,587   | .....  | .....          | 6,844                                   | 8,559             | 8,559   | .....  | .....          | 7,563                                   |
| Pickens.....    | 1,851             | 1,851   | .....  | .....          | 1,634                                   | 2,172             | 2,172   | .....  | .....          | 1,964                                   | 2,102             | 2,102   | .....  | .....          | 1,881                                   |
| Pierce.....     | 3,657             | .....   | .....  | 3,657          | 2,598                                   | 4,331             | 27      | .....  | 4,304          | 3,133                                   | 5,423             | 82      | .....  | 5,341          | 4,015                                   |
| Pike.....       | 14,281            | 14,281  | 13     | .....          | 14,211                                  | 13,582            | 13,582  | .....  | .....          | 13,293                                  | 15,189            | 15,189  | .....  | .....          | 14,950                                  |
| Polk.....       | 8,852             | 8,852   | .....  | .....          | 8,163                                   | 9,535             | 9,535   | .....  | 1,276          | 9,609                                   | 9,247             | 8,745   | .....  | .....          | 10,633                                  |
| Pulaski.....    | 16,431            | 15,134  | 1,297  | .....          | 15,813                                  | 17,400            | 17,400  | .....  | .....          | 17,426                                  | 19,592            | 17,445  | 2,147  | .....          | 18,497                                  |
| Putnam.....     | 9,609             | 9,609   | .....  | .....          | 9,334                                   | 11,015            | 11,015  | .....  | .....          | 10,877                                  | 12,666            | 12,666  | .....  | .....          | 12,431                                  |
| Quitman.....    | 6,243             | 6,243   | .....  | .....          | 6,184                                   | 5,600             | 5,600   | .....  | .....          | 5,494                                   | 6,636             | 6,636   | .....  | .....          | 6,387                                   |
| Randolph.....   | 13,558            | 18,558  | .....  | .....          | 13,330                                  | 15,603            | 15,603  | .....  | .....          | 15,250                                  | 17,832            | 17,832  | .....  | .....          | 17,440                                  |
| Richmond.....   | 3,764             | 3,764   | .....  | .....          | 3,734                                   | 4,717             | 4,717   | .....  | .....          | 4,548                                   | 5,421             | 5,421   | .....  | .....          | 5,364                                   |
| Rockdale.....   | 7,363             | 7,363   | .....  | .....          | 7,239                                   | 12,499            | 12,499  | .....  | .....          | 12,475                                  | 6,943             | 6,943   | .....  | .....          | 6,776                                   |
| Schley.....     | 5,760             | 5,760   | .....  | .....          | 5,633                                   | 5,680             | 4,747   | 933    | .....          | 5,197                                   | 7,038             | 4,762   | 2,276  | .....          | 5,832                                   |
| Screven.....    | 17,963            | 17,666  | .....  | 297            | 16,834                                  | 14,213            | 14,136  | .....  | 77             | 13,367                                  | 11,719            | 11,551  | .....  | 168            | 11,049                                  |
| Spalding.....   | 11,390            | 11,390  | .....  | .....          | 11,365                                  | 12,499            | 12,499  | .....  | .....          | 12,475                                  | 14,153            | 14,153  | .....  | .....          | 14,131                                  |
| Stewart.....    | 17,875            | 17,875  | .....  | .....          | 17,637                                  | 16,200            | 15,803  | 397    | .....          | 15,974                                  | 17,482            | 14,522  | 2,960  | .....          | 15,946                                  |
| Sumter.....     | 26,164            | 26,164  | .....  | .....          | 24,890                                  | 24,251            | 24,251  | .....  | .....          | 23,920                                  | 24,845            | 24,845  | .....  | .....          | 24,503                                  |
| Talbot.....     | 8,393             | 8,393   | .....  | .....          | 8,467                                   | 12,785            | 12,785  | .....  | .....          | 12,696                                  | 11,541            | 11,541  | .....  | .....          | 11,245                                  |
| Taliaferro..... | 6,487             | 6,020   | 467    | .....          | 6,176                                   | 6,009             | 5,559   | 450    | .....          | 5,782                                   | 7,106             | 7,106   | .....  | .....          | 7,179                                   |
| Tattall.....    | 7,309             | 952     | .....  | 6,357          | 5,960                                   | 6,478             | 1,323   | .....  | 5,155          | 5,338                                   | 6,664             | 1,891   | .....  | 4,673          | 5,335                                   |
| Taylor.....     | 3,371             | 3,371   | .....  | .....          | 3,309                                   | 7,963             | 7,963   | .....  | .....          | 7,913                                   | 7,576             | 7,576   | .....  | .....          | 7,603                                   |
| Telfair.....    | 2,541             | 2,324   | .....  | 217            | 2,434                                   | 2,936             | 2,914   | .....  | 22             | 2,819                                   | 4,254             | 4,254   | .....  | .....          | 4,046                                   |
| Terrell.....    | 25,719            | 25,719  | .....  | .....          | 25,585                                  | 22,996            | 22,996  | .....  | .....          | 23,188                                  | 25,139            | 25,139  | .....  | .....          | 25,301                                  |
| Thomas.....     | 12,473            | 10,923  | .....  | 1,550          | 11,620                                  | 11,664            | 9,569   | .....  | 2,095          | 10,457                                  | 11,056            | 9,493   | .....  | 1,568          | 10,247                                  |
| Troup.....      | 21,650            | 21,615  | 35     | .....          | 21,433                                  | 18,494            | 18,494  | .....  | .....          | 18,469                                  | 19,646            | 19,646  | .....  | .....          | 19,614                                  |
| Twiggs.....     | 9,484             | 9,484   | .....  | .....          | 9,149                                   | 10,677            | 10,677  | .....  | .....          | 10,223                                  | 13,962            | 13,962  | .....  | .....          | 13,356                                  |
| Upson.....      | 9,765             | 9,765   | .....  | .....          | 9,661                                   | 10,117            | 10,117  | .....  | .....          | 10,011                                  | 11,561            | 11,561  | .....  | .....          | 11,389                                  |
| Walker.....     | 3,631             | 3,631   | .....  | .....          | 3,267                                   | 3,103             | 3,103   | .....  | .....          | 2,807                                   | 3,834             | 3,834   | .....  | .....          | 3,454                                   |
| Walton.....     | 19,665            | 19,665  | .....  | .....          | 19,058                                  | 19,963            | 19,963  | .....  | .....          | 19,634                                  | 22,357            | 22,357  | .....  | .....          | 21,691                                  |
| Ware.....       | 123               | .....   | .....  | 123            | 91                                      | 14                | 14      | .....  | .....          | 11                                      | .....             | .....   | .....  | .....          | .....                                   |
| Warren.....     | 9,659             | 9,007   | 652    | .....          | 9,338                                   | 8,325             | 8,369   | 456    | .....          | 8,532                                   | 9,675             | 9,430   | 245    | .....          | 9,414                                   |
| Washington..... | 29,544            | 29,194  | 350    | .....          | 28,644                                  | 24,171            | 24,009  | 162    | .....          | 23,278                                  | 26,768            | 26,539  | 429    | .....          | 27,030                                  |
| Wayne.....      | 965               | .....   | .....  | 855            | 793                                     | 1,333             | 121     | .....  | 1,212          | 1,002                                   | 1,808             | 282     | .....  | 1,026          | 997                                     |
| Webster.....    | 4,116             | 4,116   | .....  | .....          | 4,001                                   | 5,313             | 5,313   | .....  | .....          | 5,191                                   | 5,037             | 5,037   | .....  | .....          | 4,953                                   |
| White.....      | 150               | 150     | .....  | .....          | 120                                     | 240               | 240     | .....  | .....          | 210                                     | 335               | 335     | .....  | .....          | 294                                     |
| Whitfield.....  | 1,947             | 1,947   | .....  | .....          | 1,717                                   | 2,164             | 2,164   | .....  | .....          | 1,947                                   | 2,731             | 2,731   | .....  | .....          | 2,361                                   |
| Wilcox.....     | 3,885             | 3,820   | .....  | 65             | 3,900                                   | 5,652             | 5,652   | .....  | 100            | 5,639                                   | 6,538             | 6,463   | .....  | 75             | 6,585                                   |
| Wilkes.....     | 17,405            | 14,840  | 2,565  | .....          | 15,507                                  | 19,173            | 15,250  | 3,923  | .....          | 16,340                                  | 25,319            | 13,936  | 11,888 | .....          | 19,710                                  |
| Wilkinson.....  | 11,037            | 11,037  | .....  | .....          | 10,519                                  | 7,542             | 7,542   | .....  | .....          | 7,194                                   | 9,095             | 9,095   | .....  | .....          | 8,414                                   |
| Worth.....      | 10,485            | 9,296   | .....  | 1,189          | 10,038                                  | 10,153            | 9,272   | .....  | 881            | 9,357                                   | 13,357            | 13,163  | .....  | 194            | 13,151                                  |

MANUFACTURES.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—  
Continued.

INDIAN TERRITORY.

| COUNTIES.        | CROP OF 1899.     |         |        |                |   | CROP OF 1900.     |         |        |                |   | CROP OF 1901.     |         |        |                |   |
|------------------|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|
|                  | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. |
|                  | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   |
| The Territory.   | 160,324           | 121,785 | 88,539 | .....          | 143,607                                 | 288,114           | 197,704 | 90,410 | .....          | 249,035                                 | 284,170           | 199,049 | 85,121 | .....          | 247,073                                 |
| Cherokee nation  | 24,219            | 16,284  | 7,935  | .....          | 20,594                                  | 36,583            | 24,013  | 12,570 | .....          | 31,203                                  | 33,680            | 22,644  | 11,036 | .....          | 28,655                                  |
| Chickasaw nation | 79,696            | 64,099  | 15,597 | .....          | 72,275                                  | 140,108           | 106,082 | 54,076 | .....          | 124,935                                 | 127,789           | 104,981 | 22,808 | .....          | 118,345                                 |
| Choctaw nation   | 31,513            | 28,239  | 8,274  | .....          | 30,796                                  | 61,767            | 50,130  | 11,627 | .....          | 57,949                                  | 62,332            | 49,155  | 13,177 | .....          | 56,583                                  |
| Creek nation     | 24,770            | 18,037  | 11,733 | .....          | 19,792                                  | 44,638            | 17,404  | 27,234 | .....          | 33,087                                  | 53,769            | 20,669  | 33,100 | .....          | 41,739                                  |
| Seminole nation  | 126               | 126     | .....  | .....          | 150                                     | 4,978             | 125     | 4,853  | .....          | 2,761                                   | 1,600             | 1,600   | .....  | .....          | 1,791                                   |

KANSAS.

|                  |     |     |       |       |     |     |     |       |       |     |     |     |       |       |     |
|------------------|-----|-----|-------|-------|-----|-----|-----|-------|-------|-----|-----|-----|-------|-------|-----|
| The State.....   | 121 | 121 | ..... | ..... | 121 | 151 | 151 | ..... | ..... | 151 | 170 | 170 | ..... | ..... | 157 |
| Montgomery ..... | 121 | 121 | ..... | ..... | 121 | 151 | 151 | ..... | ..... | 151 | 170 | 170 | ..... | ..... | 157 |

KENTUCKY.

|                |    |    |       |       |    |     |     |       |       |     |       |       |       |       |      |
|----------------|----|----|-------|-------|----|-----|-----|-------|-------|-----|-------|-------|-------|-------|------|
| The State..... | 84 | 84 | ..... | ..... | 79 | 133 | 133 | ..... | ..... | 133 | 140   | 140   | ..... | ..... | 1172 |
| Fulton .....   | 60 | 60 | ..... | ..... | 60 | 130 | 130 | ..... | ..... | 130 | 140   | 140   | ..... | ..... | 149  |
| Graves .....   | 24 | 24 | ..... | ..... | 19 | 3   | 3   | ..... | ..... | 3   | ..... | ..... | ..... | ..... | 32   |

LOUISIANA.

|                        |         |         |        |       |         |         |         |        |       |         |         |         |        |       |         |
|------------------------|---------|---------|--------|-------|---------|---------|---------|--------|-------|---------|---------|---------|--------|-------|---------|
| The State.....         | 708,508 | 694,816 | 13,692 | ..... | 700,852 | 714,073 | 696,049 | 18,024 | ..... | 705,767 | 860,848 | 807,248 | 53,600 | ..... | 840,476 |
| Acadia .....           | 5,060   | 5,060   | .....  | ..... | 4,944   | 6,106   | 6,106   | .....  | ..... | 5,869   | 10,349  | 5,499   | 4,850  | ..... | 7,892   |
| Ascension .....        | 5,009   | 5,009   | .....  | ..... | 4,976   | 4,878   | 4,878   | .....  | ..... | 4,972   | 7,072   | 7,072   | .....  | ..... | 7,213   |
| Avoyelles .....        | 38,586  | 38,570  | 16     | ..... | 39,718  | 32,573  | 32,573  | .....  | ..... | 33,174  | 42,290  | 40,486  | 1,804  | ..... | 42,322  |
| Bienville .....        | 11,775  | 11,775  | .....  | ..... | 11,636  | 14,574  | 14,574  | .....  | ..... | 14,500  | 14,424  | 14,424  | .....  | ..... | 14,258  |
| Bossier .....          | 27,639  | 26,655  | 1,984  | ..... | 27,237  | 35,733  | 32,855  | 2,938  | ..... | 35,641  | 39,349  | 36,536  | 2,763  | ..... | 39,236  |
| Caddo .....            | 30,213  | 29,620  | 593    | ..... | 30,592  | 48,332  | 42,726  | 606    | ..... | 43,907  | 40,287  | 40,287  | .....  | ..... | 41,418  |
| Calcasieu .....        | 825     | 825     | .....  | ..... | 825     | 916     | 916     | .....  | ..... | 891     | 1,673   | 1,673   | .....  | ..... | 1,626   |
| Caldwell .....         | 3,423   | 3,423   | .....  | ..... | 3,261   | 5,412   | 5,412   | .....  | ..... | 5,246   | 6,432   | 6,432   | .....  | ..... | 6,096   |
| Cameron .....          | 621     | 621     | .....  | ..... | 646     | 440     | 440     | .....  | ..... | 412     | 692     | 692     | .....  | ..... | 638     |
| Catahoula .....        | 12,979  | 12,979  | .....  | ..... | 12,005  | 13,092  | 13,092  | .....  | ..... | 12,175  | 16,650  | 16,650  | .....  | ..... | 15,922  |
| Claborne .....         | 20,270  | 20,270  | .....  | ..... | 19,718  | 24,667  | 24,667  | .....  | ..... | 24,859  | 23,830  | 23,830  | .....  | ..... | 23,391  |
| Concordia .....        | 24,096  | 24,096  | .....  | ..... | 24,081  | 29,687  | 19,686  | .....  | ..... | 20,325  | 28,125  | 28,125  | .....  | ..... | 30,839  |
| De Soto .....          | 13,990  | 13,990  | .....  | ..... | 13,910  | 26,188  | 26,188  | .....  | ..... | 26,765  | 21,116  | 21,002  | 114    | ..... | 21,172  |
| East Baton Rouge ..... | 22,476  | 22,080  | 396    | ..... | 21,128  | 19,981  | 19,114  | 867    | ..... | 18,753  | 30,819  | 28,851  | 1,968  | ..... | 28,919  |
| East Carroll .....     | 18,970  | 18,970  | .....  | ..... | 19,223  | 15,308  | 15,308  | .....  | ..... | 15,914  | 17,461  | 17,461  | .....  | ..... | 18,232  |
| East Feliciana .....   | 24,615  | 22,042  | 2,573  | ..... | 21,752  | 25,126  | 23,369  | 1,757  | ..... | 23,078  | 29,660  | 26,779  | 2,881  | ..... | 27,070  |
| Franklin .....         | 6,990   | 6,858   | 132    | ..... | 6,772   | 11,259  | 10,736  | 523    | ..... | 10,795  | 11,923  | 11,118  | 805    | ..... | 11,469  |
| Grant .....            | 8,651   | 8,651   | .....  | ..... | 8,636   | 7,671   | 7,671   | .....  | ..... | 7,730   | 8,912   | 8,912   | .....  | ..... | 8,999   |
| Iberia .....           | 3,406   | 3,406   | .....  | ..... | 3,509   | 4,063   | 2,002   | 2,161  | ..... | 3,251   | 7,427   | 3,302   | 4,125  | ..... | 5,600   |
| Iberville .....        | 4,149   | 4,149   | .....  | ..... | 4,204   | 3,584   | 3,584   | .....  | ..... | 3,591   | 7,865   | 6,155   | 1,710  | ..... | 7,156   |
| Jackson .....          | 6,679   | 6,679   | .....  | ..... | 7,922   | 7,922   | 7,922   | .....  | ..... | 7,643   | 8,174   | 8,174   | .....  | ..... | 7,892   |
| Lafayette .....        | 14,935  | 13,744  | 1,191  | ..... | 14,486  | 14,610  | 14,610  | .....  | ..... | 14,558  | 26,346  | 14,546  | 10,800 | ..... | 20,064  |
| Lincoln .....          | 11,137  | 11,137  | .....  | ..... | 11,027  | 14,426  | 14,426  | .....  | ..... | 14,217  | 15,501  | 15,501  | .....  | ..... | 15,213  |
| Livingston .....       | 3,100   | 3,100   | .....  | ..... | 2,923   | 4,363   | 4,363   | .....  | ..... | 3,981   | 5,495   | 5,495   | .....  | ..... | 5,232   |
| Madison .....          | 14,274  | 14,274  | .....  | ..... | 14,400  | 15,799  | 15,799  | .....  | ..... | 16,614  | 19,484  | 19,484  | .....  | ..... | 20,381  |
| Morehouse .....        | 32,763  | 32,163  | 600    | ..... | 32,165  | 25,557  | 25,335  | 172    | ..... | 25,310  | 28,936  | 28,814  | 122    | ..... | 28,713  |
| Natchitoches .....     | 28,187  | 28,187  | .....  | ..... | 28,350  | 27,785  | 27,785  | .....  | ..... | 27,971  | 31,072  | 31,072  | .....  | ..... | 31,399  |
| Ouachita .....         | 22,466  | 22,466  | .....  | ..... | 22,232  | 18,440  | 18,440  | .....  | ..... | 18,008  | 22,326  | 22,326  | .....  | ..... | 22,353  |
| Pointe Coupee .....    | 41,672  | 41,672  | .....  | ..... | 42,682  | 32,859  | 32,859  | .....  | ..... | 33,032  | 46,402  | 46,402  | .....  | ..... | 46,999  |
| Rapides .....          | 38,015  | 36,729  | 1,286  | ..... | 38,155  | 22,778  | 18,346  | 4,432  | ..... | 20,681  | 43,934  | 32,808  | 11,176 | ..... | 33,871  |
| Red River .....        | 15,063  | 15,063  | .....  | ..... | 15,283  | 20,154  | 19,729  | 425    | ..... | 20,397  | 16,982  | 16,982  | .....  | ..... | 17,571  |
| Richland .....         | 13,079  | 13,079  | .....  | ..... | 13,210  | 17,935  | 17,935  | .....  | ..... | 18,189  | 15,871  | 15,871  | .....  | ..... | 16,062  |
| Sabine .....           | 10,426  | 10,426  | .....  | ..... | 10,452  | 12,318  | 12,318  | .....  | ..... | 12,371  | 9,829   | 9,829   | .....  | ..... | 9,882   |
| St. Helena .....       | 6,325   | 6,325   | .....  | ..... | 6,063   | 7,213   | 7,213   | .....  | ..... | 6,981   | 8,858   | 8,858   | .....  | ..... | 8,542   |
| St. Landry .....       | 44,729  | 44,726  | 3      | ..... | 43,951  | 37,420  | 37,420  | .....  | ..... | 36,522  | 50,928  | 49,777  | 1,151  | ..... | 49,852  |
| St. Martin .....       | 11,612  | 7,102   | 4,510  | ..... | 9,606   | 10,185  | 6,037   | 4,148  | ..... | 3,387   | 15,679  | 6,348   | 9,331  | ..... | 11,364  |
| St. Tammany .....      | 1,137   | 1,137   | .....  | ..... | 1,048   | 1,439   | 1,439   | .....  | ..... | 1,306   | 1,748   | 1,748   | .....  | ..... | 1,614   |
| Tangipahoa .....       | 4,111   | 4,111   | .....  | ..... | 4,071   | 3,702   | 3,702   | .....  | ..... | 3,577   | 5,302   | 5,302   | .....  | ..... | 5,450   |
| Tensas .....           | 32,297  | 31,889  | 408    | ..... | 34,041  | 26,345  | 26,345  | .....  | ..... | 27,869  | 34,278  | 34,278  | .....  | ..... | 36,018  |
| Union .....            | 12,391  | 12,391  | .....  | ..... | 12,242  | 17,541  | 17,541  | .....  | ..... | 17,478  | 17,019  | 17,019  | .....  | ..... | 16,761  |
| Vermilion .....        | 8,594   | 8,594   | .....  | ..... | 8,701   | 4,017   | 4,017   | .....  | ..... | 4,264   | 6,509   | 6,509   | .....  | ..... | 7,093   |
| Vernon .....           | 1,493   | 1,493   | .....  | ..... | 1,473   | 1,606   | 1,606   | .....  | ..... | 1,538   | 2,249   | 2,249   | .....  | ..... | 2,159   |
| Washington .....       | 9,309   | 9,309   | .....  | ..... | 9,367   | 8,482   | 8,482   | .....  | ..... | 8,048   | 11,150  | 11,150  | .....  | ..... | 10,557  |
| Webster .....          | 8,911   | 8,911   | .....  | ..... | 8,813   | 12,793  | 12,793  | .....  | ..... | 12,776  | 12,536  | 12,536  | .....  | ..... | 12,446  |
| West Baton Rouge ..... | 8,168   | 8,168   | .....  | ..... | 8,062   | 4,262   | 4,262   | .....  | ..... | 4,161   | 7,685   | 7,685   | .....  | ..... | 7,399   |
| West Carroll .....     | 3,527   | 3,527   | .....  | ..... | 3,546   | 4,034   | 4,034   | .....  | ..... | 4,062   | 5,312   | 5,312   | .....  | ..... | 6,409   |
| West Feliciana .....   | 19,618  | 19,618  | .....  | ..... | 18,776  | 17,035  | 17,035  | .....  | ..... | 16,599  | 17,957  | 17,957  | .....  | ..... | 17,952  |
| Winn .....             | 5,747   | 5,747   | .....  | ..... | 5,518   | 8,304   | 8,304   | .....  | ..... | 7,999   | 7,910   | 7,910   | .....  | ..... | 7,602   |

<sup>1</sup>Includes 16,000 pounds in Graves county not baled.

COTTON GINNING.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—Continued.

MISSISSIPPI.

| COUNTIES.         | CROP OF 1899.     |           |        |                | CROP OF 1900.     |           |           |                | CROP OF 1901.     |           |           |                | Equiv-<br>alent 500-<br>pound<br>bales. |       |           |
|-------------------|-------------------|-----------|--------|----------------|-------------------|-----------|-----------|----------------|-------------------|-----------|-----------|----------------|---|-------|-----------|
|                   | Commercial bales. |           |        |                | Commercial bales. |           |           |                | Commercial bales. |           |           |                |   |       |           |
|                   | Total.            | Square.   | Round. | Sea<br>island. | Total.            | Square.   | Round.    | Sea<br>island. | Total.            | Square.   | Round.    | Sea<br>island. |   |       |           |
| The State.....    | 1,264,048         | 1,214,699 | 49,349 | .....          | 1,237,866         | 1,055,968 | 1,018,090 | 87,878         | .....             | 1,046,700 | 1,275,489 | 1,280,016      | 45,423                                  | ..... | 1,254,868 |
| Adams.....        | 23,971            | 23,971    | .....  | .....          | 22,600            | 22,404    | 22,319    | 85             | .....             | 21,415    | 26,696    | 26,196         | 500                                     | ..... | 25,012    |
| Alcorn.....       | 5,219             | 5,219     | .....  | .....          | 5,229             | 5,221     | 5,221     | .....          | .....             | 5,224     | 5,165     | 5,165          | .....                                   | ..... | 5,175     |
| Amite.....        | 21,352            | 21,352    | .....  | .....          | 21,057            | 20,187    | 19,550    | 617            | .....             | 19,812    | 25,769    | 25,769         | .....                                   | ..... | 25,203    |
| Attala.....       | 18,906            | 18,906    | .....  | .....          | 18,591            | 14,180    | 14,130    | .....          | .....             | 13,950    | 17,242    | 17,242         | .....                                   | ..... | 17,200    |
| Benton.....       | 7,391             | 7,391     | .....  | .....          | 7,388             | 6,307     | 6,307     | .....          | .....             | 6,346     | 5,437     | 5,437          | .....                                   | ..... | 5,398     |
| Bolivar.....      | 53,976            | 53,976    | .....  | .....          | 55,463            | 67,307    | 67,307    | .....          | .....             | 71,188    | 68,492    | 68,492         | .....                                   | ..... | 67,021    |
| Calhoun.....      | 9,447             | 9,447     | .....  | .....          | 9,444             | 6,671     | 6,671     | .....          | .....             | 7,025     | 7,833     | 7,833          | .....                                   | ..... | 7,816     |
| Carroll.....      | 21,352            | 18,513    | 2,738  | .....          | 19,600            | 19,078    | 16,619    | 2,459          | .....             | 17,718    | 20,681    | 18,684         | 2,047                                   | ..... | 19,462    |
| Chickasaw.....    | 16,841            | 12,809    | 4,082  | .....          | 15,194            | 13,653    | 13,017    | 636            | .....             | 13,790    | 14,373    | 14,373         | .....                                   | ..... | 14,616    |
| Choctaw.....      | 8,118             | 8,113     | .....  | .....          | 8,170             | 5,827     | 5,827     | .....          | .....             | 5,854     | 7,694     | 7,694          | .....                                   | ..... | 7,771     |
| Claborna.....     | 13,232            | 13,232    | .....  | .....          | 12,156            | 12,979    | 12,979    | .....          | .....             | 12,204    | 13,255    | 13,255         | .....                                   | ..... | 12,297    |
| Clarke.....       | 10,056            | 10,056    | .....  | .....          | 10,116            | 6,484     | 6,484     | .....          | .....             | 6,890     | 8,615     | 8,615          | .....                                   | ..... | 8,585     |
| Clay.....         | 16,080            | 16,080    | .....  | .....          | 16,595            | 10,564    | 10,564    | .....          | .....             | 10,742    | 11,482    | 11,482         | .....                                   | ..... | 11,717    |
| Coahoma.....      | 43,164            | 41,831    | 1,333  | .....          | 43,167            | 44,213    | 43,939    | 274            | .....             | 44,922    | 40,784    | 40,820         | 464                                     | ..... | 41,424    |
| Copiah.....       | 25,223            | 25,223    | .....  | .....          | 24,761            | 25,404    | 25,404    | .....          | .....             | 24,975    | 35,081    | 35,081         | .....                                   | ..... | 34,216    |
| Covington.....    | 7,249             | 7,249     | .....  | .....          | 6,912             | 6,440     | 6,440     | .....          | .....             | 6,151     | 9,540     | 9,540          | .....                                   | ..... | 9,147     |
| De Soto.....      | 25,935            | 22,289    | 3,646  | .....          | 24,197            | 23,180    | 20,655    | 2,525          | .....             | 22,361    | 21,966    | 20,885         | 1,081                                   | ..... | 20,745    |
| Franklin.....     | 13,335            | 13,335    | .....  | .....          | 12,830            | 12,269    | 12,269    | .....          | .....             | 11,888    | 14,131    | 14,131         | .....                                   | ..... | 13,781    |
| Greene.....       | 175               | 175       | .....  | .....          | 175               | 255       | 255       | .....          | .....             | 255       | 484       | 484            | .....                                   | ..... | 453       |
| Grenada.....      | 16,450            | 13,359    | 3,091  | .....          | 14,890            | 11,745    | 8,122     | 3,623          | .....             | 10,139    | 13,608    | 7,532          | 6,076                                   | ..... | 10,375    |
| Hancock.....      | 180               | 180       | .....  | .....          | 180               | .....     | .....     | .....          | .....             | .....     | .....     | .....          | .....                                   | ..... | .....     |
| Hinds.....        | 46,022            | 36,615    | 9,407  | .....          | 41,021            | 27,347    | 25,764    | 1,583          | .....             | 25,739    | 41,034    | 40,206         | 1,728                                   | ..... | 40,146    |
| Holmes.....       | 38,914            | 35,009    | 3,905  | .....          | 37,328            | 26,899    | 24,695    | 2,204          | .....             | 26,146    | 42,959    | 37,848         | 5,111                                   | ..... | 40,732    |
| Issaquena.....    | 17,315            | 17,315    | .....  | .....          | 17,525            | 16,358    | 16,358    | .....          | .....             | 16,829    | 18,350    | 18,350         | .....                                   | ..... | 18,142    |
| Itawamba.....     | 4,940             | 4,940     | .....  | .....          | 4,981             | 3,723     | 3,723     | .....          | .....             | 3,796     | 5,397     | 5,397          | .....                                   | ..... | 5,491     |
| Jackson.....      | 3                 | 3         | .....  | .....          | 3                 | .....     | .....     | .....          | .....             | .....     | .....     | .....          | .....                                   | ..... | .....     |
| Jasper.....       | 11,188            | 11,188    | .....  | .....          | 11,187            | 8,276     | 8,276     | .....          | .....             | 8,225     | 10,541    | 10,541         | .....                                   | ..... | 10,400    |
| Jefferson.....    | 23,195            | 23,195    | .....  | .....          | 26,817            | 25,139    | 23,976    | 1,163          | .....             | 24,469    | 29,053    | 27,666         | 1,387                                   | ..... | 28,270    |
| Jones.....        | 7,222             | 7,222     | .....  | .....          | 6,995             | 6,209     | 6,209     | .....          | .....             | 6,036     | 9,143     | 9,143          | .....                                   | ..... | 8,863     |
| Kemper.....       | 15,940            | 15,940    | .....  | .....          | 15,997            | 10,578    | 10,578    | .....          | .....             | 10,581    | 13,606    | 13,606         | .....                                   | ..... | 13,621    |
| Lafayette.....    | 16,118            | 16,118    | .....  | .....          | 15,852            | 11,160    | 10,611    | 549            | .....             | 11,014    | 12,891    | 12,891         | .....                                   | ..... | 12,684    |
| Lauderdale.....   | 15,034            | 15,034    | .....  | .....          | 14,952            | 10,202    | 10,202    | .....          | .....             | 9,782     | 15,432    | 15,432         | .....                                   | ..... | 15,185    |
| Lawrence.....     | 12,436            | 12,436    | .....  | .....          | 11,891            | 10,433    | 10,433    | .....          | .....             | 10,061    | 14,668    | 14,668         | .....                                   | ..... | 13,992    |
| Leake.....        | 13,600            | 13,600    | .....  | .....          | 13,293            | 8,207     | 8,207     | .....          | .....             | 8,045     | 12,329    | 12,329         | .....                                   | ..... | 12,162    |
| Lee.....          | 16,362            | 16,362    | .....  | .....          | 16,771            | 12,196    | 12,196    | .....          | .....             | 12,616    | 14,395    | 14,395         | .....                                   | ..... | 14,739    |
| LeFlore.....      | 39,387            | 39,387    | 30     | .....          | 39,470            | 31,403    | 31,403    | .....          | .....             | 30,843    | 30,272    | 30,272         | .....                                   | ..... | 30,374    |
| Lincoln.....      | 11,542            | 11,542    | .....  | .....          | 11,454            | 10,309    | 10,309    | .....          | .....             | 9,981     | 14,941    | 14,941         | .....                                   | ..... | 14,909    |
| Lowndes.....      | 20,920            | 20,920    | .....  | .....          | 20,907            | 15,708    | 15,708    | .....          | .....             | 15,651    | 18,696    | 18,696         | .....                                   | ..... | 18,422    |
| Madison.....      | 27,096            | 25,753    | 1,343  | .....          | 26,682            | 20,308    | 18,720    | 1,579          | .....             | 19,680    | 31,352    | 26,554         | 4,798                                   | ..... | 29,408    |
| Marion.....       | 5,052             | 5,052     | .....  | .....          | 4,823             | 5,179     | 5,179     | .....          | .....             | 5,068     | 6,482     | 6,482          | .....                                   | ..... | 6,423     |
| Marshall.....     | 22,806            | 22,806    | .....  | .....          | 22,270            | 16,992    | 16,990    | 802            | .....             | 16,906    | 16,469    | 15,878         | 596                                     | ..... | 16,084    |
| Monroe.....       | 26,184            | 24,221    | 1,963  | .....          | 26,035            | 16,191    | 15,087    | 1,104          | .....             | 16,133    | 19,969    | 19,736         | 233                                     | ..... | 20,240    |
| Montgomery.....   | 18,584            | 10,936    | 2,648  | .....          | 11,911            | 9,648     | 8,908     | 1,640          | .....             | 8,964     | 10,813    | 10,813         | .....                                   | ..... | 10,603    |
| Neshoba.....      | 7,877             | 7,877     | .....  | .....          | 7,690             | 6,410     | 6,410     | .....          | .....             | 6,290     | 8,295     | 8,295          | .....                                   | ..... | 8,110     |
| Newton.....       | 16,533            | 16,533    | .....  | .....          | 16,362            | 11,406    | 11,406    | .....          | .....             | 11,310    | 17,814    | 17,814         | .....                                   | ..... | 17,652    |
| Noxubee.....      | 25,025            | 22,325    | 2,700  | .....          | 23,843            | 21,764    | 20,629    | 1,135          | .....             | 21,243    | 21,071    | 18,985         | 2,086                                   | ..... | 20,178    |
| Oktibbeha.....    | 12,322            | 12,322    | .....  | .....          | 12,442            | 7,468     | 7,140     | 328            | .....             | 7,496     | 8,640     | 8,135          | 505                                     | ..... | 8,564     |
| Panola.....       | 28,230            | 28,230    | .....  | .....          | 27,198            | 23,032    | 20,980    | 2,052          | .....             | 22,243    | 26,339    | 23,939         | 2,900                                   | ..... | 25,410    |
| Pearl River.....  | 170               | 170       | .....  | .....          | 165               | 162       | 162       | .....          | .....             | 162       | 362       | 362            | .....                                   | ..... | 333       |
| Perry.....        | 1,287             | 1,287     | .....  | .....          | 1,252             | 1,122     | 1,122     | .....          | .....             | 1,109     | 1,441     | 1,441          | .....                                   | ..... | 1,429     |
| Pike.....         | 9,849             | 9,849     | .....  | .....          | 9,690             | 12,875    | 12,875    | .....          | .....             | 12,521    | 18,689    | 18,689         | .....                                   | ..... | 17,901    |
| Pontotoc.....     | 12,602            | 12,602    | .....  | .....          | 12,756            | 10,916    | 10,494    | 422            | .....             | 10,916    | 9,572     | 9,130          | 442                                     | ..... | 9,316     |
| Prentiss.....     | 10,099            | 10,099    | .....  | .....          | 10,247            | 7,218     | 7,218     | .....          | .....             | 7,413     | 7,594     | 7,594          | .....                                   | ..... | 7,726     |
| Quitman.....      | 6,310             | 6,310     | .....  | .....          | 6,384             | 6,758     | 6,758     | .....          | .....             | 6,724     | 8,912     | 8,912          | .....                                   | ..... | 8,685     |
| Rankin.....       | 14,273            | 14,273    | .....  | .....          | 14,228            | 10,088    | 10,088    | .....          | .....             | 9,937     | 14,881    | 14,881         | .....                                   | ..... | 14,725    |
| Scott.....        | 8,346             | 8,346     | .....  | .....          | 8,194             | 5,755     | 5,755     | .....          | .....             | 5,645     | 10,775    | 10,775         | .....                                   | ..... | 10,520    |
| Sharkey.....      | 21,576            | 21,576    | .....  | .....          | 23,474            | 19,493    | 19,493    | .....          | .....             | 21,370    | 20,664    | 20,664         | .....                                   | ..... | 22,446    |
| Simpson.....      | 9,187             | 9,187     | .....  | .....          | 8,742             | 7,369     | 7,369     | .....          | .....             | 7,133     | 9,442     | 9,442          | .....                                   | ..... | 9,179     |
| Smith.....        | 9,056             | 9,056     | .....  | .....          | 8,643             | 6,956     | 6,956     | .....          | .....             | 6,806     | 9,426     | 9,426          | .....                                   | ..... | 9,202     |
| Sunflower.....    | 17,636            | 17,437    | 199    | .....          | 18,009            | 19,003    | 19,003    | .....          | .....             | 19,674    | 22,557    | 22,557         | .....                                   | ..... | 23,203    |
| Tallahatchie..... | 24,510            | 22,096    | 2,414  | .....          | 23,515            | 27,672    | 25,927    | 1,745          | .....             | 27,465    | 27,115    | 24,597         | 2,518                                   | ..... | 25,278    |
| Tate.....         | 17,197            | 17,197    | .....  | .....          | 17,184            | 13,482    | 13,486    | 46             | .....             | 13,295    | 14,159    | 13,470         | 689                                     | ..... | 13,720    |
| Tippah.....       | 7,434             | 7,383     | 51     | .....          | 7,485             | 5,996     | 5,996     | .....          | .....             | 6,060     | 5,281     | 5,281          | .....                                   | ..... | 5,245     |
| Tishomingo.....   | 3,720             | 3,720     | .....  | .....          | 3,744             | 3,537     | 3,537     | .....          | .....             | 3,555     | 4,565     | 4,565          | .....                                   | ..... | 4,616     |
| Tunica.....       | 24,959            | 23,844    | 1,115  | .....          | 24,716            | 23,436    | 22,079    | 1,357          | .....             | 22,655    | 24,361    | 24,361         | .....                                   | ..... | 24,000    |
| Union.....        | 10,099            | 8,209     | 1,890  | .....          | 9,204             | 7,375     | 5,949     | 1,426          | .....             | 6,649     | 8,212     | 7,005          | 1,207                                   | ..... | 7,746     |
| Warren.....       | 23,856            | 23,816    | 40     | .....          | 23,201            | 20,417    | 20,417    | .....          | .....             | 20,416    | 29,386    | 29,386         | .....                                   | ..... | 29,081    |
| Washington.....   | 64,551            | 64,507    | 44     | .....          | 69,132            | 50,733    | 50,733    | .....          | .....             | 55,739    | 68,515    | 68,515         | .....                                   | ..... | 74,748    |
| Wayne.....        | 4,819             | 4,819     | .....  | .....          | 4,913             | 4,155     | 4,155     | .....          | .....             | 4,254     | 5,252     | 5,252          | .....                                   | ..... | 5,191     |
| Webster.....      | 9,515             | 9,515     | .....  | .....          | 8,966             | 5,705     | 5,705     | .....          | .....             | 5,021     | 6,488     | 6,488          | .....                                   | ..... | 6,393     |
| Wilkinson.....    | 17,610            | 17,610    | .....  | .....          | 16,508            | 19,532    | 17,522    | 2,010          | .....             | 18,323    | 28,386    | 25,586         | 2,800                                   | ..... | 25,364    |
| Winston.....      | 10,749            | 10,749    | .....  |                |                   |           |           |                |                   |           |           |                |   |       |           |

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—Continued.

MISSOURI.

| COUNTIES.        | CROP OF 1899.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | CROP OF 1900.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | CROP OF 1901.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. |
|------------------|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|
|                  | Commercial bales. |         |        |                |   | Commercial bales. |         |        |                |   | Commercial bales. |         |        |                |   |
|                  | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   |
| The State.....   | 19,377            | 19,377  |        |                | 20,275                                  | 27,980            | 25,712  | 2,268  |                | 27,871                                  | 30,837            | 28,445  | 2,392  |                | 30,830                                  |
| Butler.....      | 136               | 186     |        |                | 136                                     | 230               | 230     |        |                | 241                                     |                   |         |        |                |   |
| Dunklin.....     | 12,985            | 12,985  |        |                | 13,660                                  | 19,256            | 16,988  | 2,268  |                | 18,563                                  | 19,760            | 17,368  | 2,392  |                | 19,329                                  |
| Howell.....      | 192               | 192     |        |                | 197                                     | 220               | 220     |        |                | 226                                     | 234               | 284     |        |                | 242                                     |
| Mississippi..... | 12                | 12      |        |                | 12                                      | 13                | 13      |        |                | 13                                      |                   |         |        |                |   |
| New Madrid.....  | 1,690             | 1,690   |        |                | 1,831                                   | 2,645             | 2,645   |        |                | 2,790                                   | 3,577             | 3,577   |        |                | 3,362                                   |
| Oregon.....      | 75                | 75      |        |                | 78                                      | 137               | 137     |        |                | 137                                     | 165               | 165     |        |                | 170                                     |
| Ozark.....       | 610               | 610     |        |                | 610                                     | 879               | 879     |        |                | 910                                     | 599               | 599     |        |                | 614                                     |
| Pemiscot.....    | 1,394             | 1,394   |        |                | 1,442                                   | 1,805             | 1,805   |        |                | 1,942                                   | 3,265             | 3,265   |        |                | 3,378                                   |
| Ripley.....      | 353               | 353     |        |                | 353                                     | 180               | 180     |        |                | 192                                     | 145               | 145     |        |                | 147                                     |
| Stoddard.....    | 1,337             | 1,337   |        |                | 1,393                                   | 1,813             | 1,813   |        |                | 2,014                                   | 2,640             | 2,640   |        |                | 2,701                                   |
| Taney.....       | 543               | 543     |        |                | 558                                     | 802               | 802     |        |                | 843                                     | 452               | 452     |        |                | 453                                     |

NORTH CAROLINA.

|                  |         |         |     |  |         |         |         |       |  |         |         |         |       |  |         |
|------------------|---------|---------|-----|--|---------|---------|---------|-------|--|---------|---------|---------|-------|--|---------|
| The State.....   | 473,155 | 472,385 | 770 |  | 440,400 | 509,341 | 507,263 | 2,078 |  | 477,269 | 451,441 | 448,814 | 2,627 |  | 445,838 |
| Alamance.....    | 736     | 736     |     |  | 590     | 1,156   | 1,156   |       |  | 970     | 1,031   | 1,031   |       |  | 869     |
| Alexander.....   | 912     | 880     | 32  |  | 755     | 798     | 798     |       |  | 700     | 2,031   | 531     | 1,500 |  | 1,208   |
| Anson.....       | 19,139  | 19,139  |     |  | 18,666  | 16,141  | 16,141  |       |  | 15,741  | 12,854  | 12,854  |       |  | 11,645  |
| Beaufort.....    | 3,623   | 3,623   |     |  | 3,485   | 6,486   | 6,486   |       |  | 6,260   | 5,757   | 5,757   |       |  | 5,635   |
| Bertie.....      | 6,563   | 6,563   |     |  | 6,506   | 9,227   | 9,227   |       |  | 9,488   | 10,477  | 10,477  |       |  | 10,411  |
| Bladen.....      | 3,055   | 3,055   |     |  | 2,999   | 3,222   | 3,222   |       |  | 3,142   | 3,685   | 3,685   |       |  | 3,660   |
| Brunswick.....   | 253     | 253     |     |  | 253     | 412     | 412     |       |  | 412     | 1,005   | 1,005   |       |  | 1,001   |
| Burke.....       | 224     | 224     |     |  | 202     |         |         |       |  |         |         |         |       |  |         |
| Cabarrus.....    | 8,197   | 8,197   |     |  | 7,569   | 7,257   | 7,257   |       |  | 6,855   | 7,443   | 7,443   |       |  | 6,660   |
| Caldwell.....    | 8       | 8       |     |  | 6       | 8       | 8       |       |  | 6       |         |         |       |  | 10      |
| Camden.....      | 1,001   | 1,001   |     |  | 1,011   | 1,815   | 1,815   |       |  | 1,903   | 1,852   | 1,852   |       |  | 2,092   |
| Carteret.....    | 600     | 600     |     |  | 595     | 902     | 902     |       |  | 872     | 753     | 753     |       |  | 745     |
| Catawba.....     | 4,536   | 4,536   |     |  | 4,013   | 4,657   | 4,657   |       |  | 4,214   | 5,129   | 5,129   |       |  | 4,493   |
| Chatham.....     | 6,734   | 6,734   |     |  | 5,724   | 7,205   | 7,205   |       |  | 7,873   | 6,381   | 6,381   |       |  | 5,613   |
| Chowan.....      | 2,064   | 2,064   |     |  | 2,065   | 3,351   | 3,351   |       |  | 3,317   | 3,467   | 3,467   |       |  | 3,420   |
| Cleveland.....   | 12,350  | 12,350  |     |  | 11,809  | 14,766  | 14,766  |       |  | 18,738  | 12,603  | 12,603  |       |  | 11,505  |
| Columbus.....    | 2,433   | 2,433   |     |  | 2,505   | 2,969   | 2,969   |       |  | 2,975   | 2,086   | 2,086   |       |  | 2,045   |
| Craven.....      | 4,244   | 4,244   |     |  | 4,076   | 5,312   | 5,312   |       |  | 5,175   | 4,991   | 4,991   |       |  | 4,313   |
| Cumberland.....  | 8,601   | 8,601   |     |  | 7,970   | 8,030   | 8,030   |       |  | 7,525   | 6,888   | 6,888   |       |  | 6,208   |
| Currituck.....   | 578     | 578     |     |  | 593     | 1,387   | 1,387   |       |  | 1,362   | 1,185   | 1,185   |       |  | 1,299   |
| Davidson.....    | 1,366   | 1,366   |     |  | 1,295   | 1,489   | 1,489   |       |  | 1,415   | 1,486   | 1,486   |       |  | 1,323   |
| Davie.....       | 840     | 840     |     |  | 758     | 1,192   | 1,192   |       |  | 1,053   | 712     | 712     |       |  | 647     |
| Duplin.....      | 5,100   | 5,100   |     |  | 4,845   | 7,778   | 7,778   |       |  | 7,381   | 3,219   | 3,219   |       |  | 3,053   |
| Durham.....      | 1,320   | 1,320   |     |  | 1,145   | 1,459   | 1,459   |       |  | 1,291   | 1,573   | 1,573   |       |  | 1,331   |
| Edgecombe.....   | 15,626  | 15,626  |     |  | 13,699  | 19,078  | 19,078  |       |  | 17,145  | 23,125  | 23,125  |       |  | 20,636  |
| Forsyth.....     | 11      | 11      |     |  | 9       | 60      | 60      |       |  | 60      |         |         |       |  |         |
| Franklin.....    | 10,865  | 10,865  |     |  | 9,831   | 13,951  | 13,951  |       |  | 12,464  | 12,627  | 12,627  |       |  | 10,979  |
| Gaston.....      | 7,477   | 7,477   |     |  | 6,577   | 7,948   | 7,948   |       |  | 7,194   | 9,447   | 9,447   |       |  | 8,531   |
| Gates.....       | 1,481   | 1,481   |     |  | 1,470   | 2,106   | 2,106   |       |  | 2,077   | 2,581   | 2,581   |       |  | 2,675   |
| Granville.....   | 1,523   | 1,523   |     |  | 1,333   | 1,994   | 1,994   |       |  | 1,752   | 2,349   | 2,349   |       |  | 2,039   |
| Greene.....      | 7,500   | 7,500   |     |  | 7,283   | 8,077   | 8,077   |       |  | 7,959   | 6,871   | 6,871   |       |  | 6,622   |
| Guilford.....    | 549     | 549     |     |  | 276     | 408     | 408     |       |  | 387     | 1,171   | 1,171   |       |  | 1,110   |
| Halifax.....     | 15,888  | 15,460  | 428 |  | 14,587  | 16,414  | 15,648  | 766   |  | 14,587  | 16,330  | 16,330  | 559   |  | 15,230  |
| Harnett.....     | 6,265   | 6,265   |     |  | 5,614   | 6,249   | 6,249   |       |  | 5,520   | 5,506   | 5,506   |       |  | 4,727   |
| Hertford.....    | 3,993   | 3,983   | 10  |  | 3,973   | 4,789   | 4,789   |       |  | 4,319   | 5,097   | 5,097   |       |  | 4,590   |
| Hyde.....        | 139     | 139     |     |  | 135     | 397     | 397     |       |  | 398     | 189     | 189     |       |  | 200     |
| Iredell.....     | 11,180  | 11,180  |     |  | 10,127  | 8,941   | 8,941   |       |  | 8,080   | 9,506   | 9,506   |       |  | 8,536   |
| Johnston.....    | 19,334  | 19,334  |     |  | 17,835  | 25,335  | 24,025  | 1,310 |  | 21,070  | 17,531  | 16,993  | 668   |  | 14,942  |
| Jones.....       | 3,630   | 3,630   |     |  | 3,543   | 4,201   | 4,201   |       |  | 4,030   | 2,956   | 2,956   |       |  | 2,841   |
| Lenoir.....      | 7,153   | 7,153   |     |  | 7,155   | 9,126   | 9,126   |       |  | 9,033   | 7,947   | 7,947   |       |  | 7,733   |
| Lincoln.....     | 5,796   | 5,796   |     |  | 5,107   | 5,301   | 5,301   |       |  | 5,210   | 5,607   | 5,607   |       |  | 4,393   |
| Martin.....      | 3,642   | 3,642   |     |  | 3,603   | 3,529   | 3,529   |       |  | 3,514   | 4,001   | 4,001   |       |  | 3,812   |
| Mecklenburg..... | 22,805  | 22,805  |     |  | 21,790  | 26,038  | 26,038  |       |  | 26,222  | 22,384  | 22,384  |       |  | 20,921  |
| Montgomery.....  | 5,503   | 5,503   |     |  | 5,044   | 3,295   | 3,295   |       |  | 2,993   | 3,144   | 3,144   |       |  | 2,335   |
| Moore.....       | 6,050   | 5,050   |     |  | 4,431   | 4,335   | 4,335   |       |  | 4,253   | 4,107   | 4,107   |       |  | 3,636   |
| Nash.....        | 10,174  | 10,174  |     |  | 8,795   | 10,056  | 10,056  |       |  | 8,732   | 12,012  | 12,012  |       |  | 10,625  |
| Northampton..... | 11,570  | 11,570  |     |  | 11,350  | 9,649   | 9,649   |       |  | 9,442   | 11,326  | 11,326  |       |  | 11,135  |
| Onslow.....      | 2,333   | 2,333   |     |  | 2,298   | 2,827   | 2,827   |       |  | 2,668   | 2,076   | 2,076   |       |  | 1,993   |
| Orange.....      | 1,929   | 1,929   |     |  | 1,636   | 2,424   | 2,424   |       |  | 2,076   | 2,026   | 2,026   |       |  | 1,715   |
| Pamlico.....     | 1,274   | 1,274   |     |  | 1,267   | 2,171   | 2,171   |       |  | 2,174   | 1,329   | 1,329   |       |  | 1,257   |
| Pasquotank.....  | 1,088   | 1,088   |     |  | 1,094   | 1,620   | 1,620   |       |  | 1,729   | 2,503   | 2,503   |       |  | 2,651   |
| Pender.....      | 827     | 827     |     |  | 776     | 967     | 967     |       |  | 924     | 636     | 636     |       |  | 602     |
| Perquimans.....  | 3,223   | 3,223   |     |  | 3,251   | 5,084   | 5,084   |       |  | 5,160   | 3,713   | 3,713   |       |  | 3,738   |
| Pitt.....        | 14,474  | 14,474  |     |  | 13,943  | 15,902  | 15,902  |       |  | 15,179  | 16,531  | 16,531  |       |  | 15,633  |
| Polk.....        | 1,000   | 1,000   |     |  | 896     | 825     | 825     |       |  | 743     | 813     | 813     |       |  | 717     |
| Randolph.....    | 560     | 560     |     |  | 443     | 762     | 762     |       |  | 662     | 785     | 785     |       |  | 675     |
| Richmond.....    | 23,931  | 23,931  |     |  | 23,609  | 7,354   | 7,354   |       |  | 7,463   | 4,333   | 4,333   |       |  | 4,393   |
| Robeson.....     | 23,847  | 23,847  |     |  | 23,269  | 27,349  | 27,349  |       |  | 26,006  | 19,201  | 19,201  |       |  | 17,936  |
| Rowan.....       | 9,458   | 9,458   |     |  | 8,791   | 3,661   | 3,661   |       |  | 3,052   | 7,446   | 7,446   |       |  | 7,569   |
| Rutherford.....  | 5,271   | 5,271   |     |  | 4,693   | 5,325   | 5,325   |       |  | 5,509   | 5,078   | 5,078   |       |  | 4,449   |

<sup>1</sup> Includes 5,000 pounds in Caldwell county not baled.

COTTON GINNING.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—Continued.

NORTH CAROLINA—Continued.

| COUNTIES.        | CROP OF 1899.     |         |        |                |   | CROP OF 1900.     |         |        |                |   | CROP OF 1901.     |         |        |                |   |
|------------------|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|
|                  | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. |
|                  | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   |
| Sampson .....    | 9,521             | 9,521   |        |                | 8,881                                   | 10,639            | 10,639  |        |                | 9,798                                   | 7,519             | 7,519   |        |                | 6,622                                   |
| Scotland .....   |                   |         |        |                |   | 11,889            | 11,889  |        |                | 11,769                                  | 10,285            | 10,285  |        |                | 10,024                                  |
| Stanly .....     | 6,105             | 5,805   | 300    |                | 5,368                                   | 4,280             | 4,280   |        |                | 3,928                                   | 4,319             | 4,319   |        |                | 3,929                                   |
| Tyrrell .....    | 720               | 720     |        |                | 707                                     | 711               | 711     |        |                | 710                                     | 779               | 779     |        |                | 769                                     |
| Union .....      | 25,316            | 25,316  |        |                | 22,950                                  | 22,263            | 22,263  |        |                | 21,117                                  | 17,388            | 17,388  |        |                | 15,682                                  |
| Vance .....      | 2,542             | 2,542   |        |                | 2,325                                   | 4,387             | 4,387   |        |                | 4,086                                   | 3,969             | 3,969   |        |                | 3,494                                   |
| Wake .....       | 22,616            | 22,616  |        |                | 19,581                                  | 25,534            | 25,534  |        |                | 22,145                                  | 18,106            | 18,106  |        |                | 16,607                                  |
| Warren .....     | 6,653             | 6,653   |        |                | 6,058                                   | 9,150             | 9,150   |        |                | 8,523                                   | 9,163             | 9,163   |        |                | 8,170                                   |
| Washington ..... | 1,861             | 1,861   |        |                | 1,837                                   | 3,025             | 3,025   |        |                | 3,043                                   | 2,473             | 2,473   |        |                | 2,465                                   |
| Wayne .....      | 19,695            | 19,695  |        |                | 18,571                                  | 23,359            | 23,359  |        |                | 21,666                                  | 16,660            | 16,660  |        |                | 15,449                                  |
| Wilson .....     | 11,660            | 11,660  |        |                | 10,606                                  | 12,451            | 12,451  |        |                | 11,227                                  | 11,239            | 11,239  |        |                | 10,275                                  |
| Yadkin .....     | 20                | 20      |        |                | 16                                      | 36                | 36      |        |                | 18                                      | 30                | 30      |        |                | 18                                      |

OKLAHOMA.

| The Territory.     | 84,035 | 53,077 | 30,958 | ..... | 71,983 | 116,875 | 89,782 | 27,093 | ..... | 106,707 | 149,064 | 109,776 | 39,288 | ..... | 181,413 |
|--------------------|--------|--------|--------|-------|--------|---------|--------|--------|-------|---------|---------|---------|--------|-------|---------|
| Blaine .....       | 1,118  |        | 1,118  |       | 559    | 1,180   |        | 1,180  |       | 585     | 876     | 172     | 704    |       | 494     |
| Cleveland .....    | 8,953  | 6,462  | 2,496  |       | 7,326  | 15,003  | 11,085 | 3,918  |       | 13,207  | 11,317  | 10,637  | 780    |       | 10,943  |
| Custer .....       | 1,398  | 765    | 1,133  |       | 1,377  | 2,744   | 600    | 2,244  |       | 1,712   | 3,150   | 650     | 2,600  |       | 1,980   |
| Dewey .....        | 200    | 200    |        |       | 200    | 210     | 210    |        |       | 210     | 275     | 275     |        |       | 275     |
| Greer .....        | 4,239  | 4,239  |        |       | 4,231  | 17,966  | 17,966 |        |       | 18,767  | 21,153  | 21,153  |        |       | 21,190  |
| Kay .....          |        |        |        |       |        |         |        |        |       |         | 425     | 425     |        |       | 425     |
| Kingfisher .....   | 1,368  | 1,368  |        |       | 1,359  | 2,132   | 2,132  |        |       | 2,102   | 2,510   | 2,510   |        |       | 2,496   |
| Lincoln .....      | 15,038 | 10,028 | 6,000  |       | 13,326 | 22,763  | 16,787 | 5,976  |       | 20,433  | 23,379  | 17,772  | 11,107 |       | 23,725  |
| Logan .....        | 6,132  | 4,192  | 1,940  |       | 5,236  | 6,025   | 3,381  | 2,644  |       | 4,846   | 11,743  | 4,569   | 7,174  |       | 8,307   |
| Noble .....        | 1,000  | 1,000  |        |       | 1,000  | 840     | 840    |        |       | 840     |         |         |        |       |         |
| Oklahoma .....     | 4,166  | 4,166  |        |       | 4,213  | 7,112   | 7,112  |        |       | 7,447   | 6,549   | 5,739   | 810    |       | 6,233   |
| Pawnee .....       | 1,971  | 1,971  |        |       | 2,181  | 1,734   | 1,734  |        |       | 1,830   | 4,277   | 4,277   |        |       | 4,473   |
| Payne .....        | 5,855  | 3,555  | 2,300  |       | 4,810  | 9,923   | 3,474  | 6,449  |       | 6,916   | 14,432  | 6,915   | 7,537  |       | 10,865  |
| Pottawatomie ..... | 28,662 | 12,351 | 16,311 |       | 22,339 | 20,515  | 15,533 | 4,682  |       | 18,711  | 23,955  | 19,479  | 8,576  |       | 24,199  |
| Washita .....      | 2,698  | 2,698  |        |       | 2,722  | 8,728   | 8,728  |        |       | 9,101   | 15,101  | 15,101  |        |       | 15,506  |
| Woods .....        | 82     | 82     |        |       | 104    |         |        |        |       |         | 302     | 302     |        |       | 302     |

SOUTH CAROLINA.

| The State.....     | 876,545 | 864,714 | 3,602 | 8,229 | 837,105 | 780,782 | 770,767 | 1,866 | 8,149 | 748,726 | 732,719 | 722,786 | 2,316 | 7,617 | 692,261 |
|--------------------|---------|---------|-------|-------|---------|---------|---------|-------|-------|---------|---------|---------|-------|-------|---------|
| Abbeville .....    | 28,047  | 28,047  |       |       | 26,490  | 21,176  | 21,176  |       |       | 20,325  | 26,938  | 26,938  |       |       | 25,908  |
| Aiken .....        | 26,889  | 26,889  |       |       | 25,044  | 25,597  | 25,597  |       |       | 24,547  | 25,273  | 25,273  |       |       | 23,950  |
| Anderson .....     | 39,619  | 39,615  |       |       | 38,456  | 35,566  | 35,566  |       |       | 34,329  | 40,683  | 40,683  |       |       | 38,523  |
| Barnburg .....     | 17,704  | 17,614  | 90    |       | 17,317  | 14,171  | 14,171  |       |       | 14,267  | 12,500  | 12,500  |       |       | 12,594  |
| Barnwell .....     | 38,100  | 36,962  | 1,138 |       | 38,048  | 32,427  | 32,427  |       |       | 33,869  | 26,414  | 26,414  |       |       | 26,643  |
| Beaufort .....     | 3,903   | 2,260   |       | 1,643 | 3,304   | 3,422   | 1,955   |       | 1,467 | 2,371   | 4,315   | 2,761   |       | 1,554 | 3,721   |
| Berkeley .....     | 13,138  | 11,991  |       | 1,197 | 11,388  | 10,647  | 10,636  |       | 11    | 9,952   | 10,556  | 10,546  |       | 10    | 9,453   |
| Charleston .....   | 5,339   |         |       | 5,339 | 3,707   | 6,671   |         |       | 6,671 | 4,703   | 6,013   |         |       | 6,013 | 4,229   |
| Cherokee .....     | 10,369  | 10,369  |       |       | 9,700   | 7,642   | 7,642   |       |       | 7,120   | 8,217   | 8,217   |       |       | 7,483   |
| Chester .....      | 21,045  | 20,331  | 714   |       | 19,133  | 21,207  | 20,317  | 890   |       | 19,448  | 16,491  | 16,291  | 200   |       | 15,274  |
| Chesterfield ..... | 14,193  | 14,193  |       |       | 13,919  | 11,790  | 11,790  |       |       | 11,417  | 8,827   | 8,827   |       |       | 8,238   |
| Clarendon .....    | 21,865  | 21,865  |       |       | 22,512  | 21,003  | 21,003  |       |       | 20,991  | 20,009  | 20,009  |       |       | 20,236  |
| Colleton .....     | 8,043   | 8,043   |       |       | 8,099   | 8,604   | 8,604   |       |       | 8,417   | 9,276   | 9,286   |       | 40    | 8,721   |
| Darlington .....   | 29,552  | 29,552  |       |       | 29,462  | 27,615  | 27,615  |       |       | 27,669  | 25,772  | 25,772  |       |       | 25,540  |
| Dorchester .....   | 6,569   | 6,569   |       |       | 6,234   | 6,377   | 6,377   |       |       | 6,997   | 6,018   | 6,018   |       |       | 6,726   |
| Edgefield .....    | 20,125  | 20,125  |       |       | 19,304  | 19,513  | 19,513  |       |       | 18,815  | 20,870  | 20,870  |       |       | 19,977  |
| Fairfield .....    | 22,212  | 22,212  |       |       | 21,613  | 22,274  | 22,274  |       |       | 21,491  | 18,918  | 18,918  |       |       | 17,785  |
| Florence .....     | 19,137  | 19,137  |       |       | 18,901  | 16,742  | 16,742  |       |       | 16,552  | 14,568  | 14,568  |       |       | 14,224  |
| Georgetown .....   | 1,305   | 1,305   |       |       | 1,296   | 1,323   | 1,323   |       |       | 1,303   | 1,212   | 1,212   |       |       | 1,156   |
| Greenville .....   | 26,809  | 26,809  |       |       | 24,645  | 23,888  | 23,888  |       |       | 21,911  | 25,701  | 25,701  |       |       | 22,705  |
| Greenwood .....    | 28,834  | 28,820  | 14    |       | 26,987  | 22,830  | 22,830  |       |       | 21,282  | 27,623  | 27,623  |       |       | 26,651  |
| Hampton .....      | 14,756  | 14,750  | 5     |       | 15,028  | 12,159  | 12,159  |       |       | 12,083  | 11,638  | 11,638  |       |       | 11,336  |
| Horry .....        | 5,231   | 5,231   |       |       | 5,194   | 5,647   | 5,647   |       |       | 5,530   | 6,145   | 6,145   |       |       | 6,007   |
| Kershaw .....      | 17,727  | 17,727  |       |       | 17,458  | 17,253  | 17,253  |       |       | 16,949  | 14,453  | 14,453  |       |       | 13,842  |
| Lancaster .....    | 20,499  | 20,499  |       |       | 18,576  | 18,880  | 18,880  |       |       | 17,713  | 14,410  | 14,410  |       |       | 12,928  |
| Laurens .....      | 39,993  | 38,780  | 1,213 |       | 35,888  | 30,991  | 30,991  |       |       | 29,231  | 34,879  | 34,879  |       |       | 32,457  |
| Lexington .....    | 14,352  | 14,352  |       |       | 13,024  | 13,994  | 13,994  |       |       | 12,781  | 12,814  | 12,814  |       |       | 11,557  |
| Marion .....       | 28,939  | 28,939  |       |       | 27,685  | 30,720  | 30,720  |       |       | 29,051  | 21,559  | 21,559  |       |       | 20,819  |
| Marlboro .....     | 39,194  | 39,194  |       |       | 38,467  | 36,039  | 36,039  |       |       | 35,163  | 23,900  | 23,900  |       |       | 23,114  |
| Marberry .....     | 26,245  | 25,845  | 400   |       | 24,240  | 20,986  | 20,986  |       | 976   | 19,040  | 26,587  | 24,471  | 2,116 |       | 22,474  |
| Oconee .....       | 10,695  | 10,695  |       |       | 9,972   | 10,254  | 10,254  |       |       | 9,585   | 11,149  | 11,149  |       |       | 10,181  |
| Orangeburg .....   | 65,149  | 65,134  | 15    |       | 62,071  | 52,293  | 52,293  |       |       | 49,736  | 53,980  | 53,980  |       |       | 50,596  |
| Pickens .....      | 11,323  | 11,323  |       |       | 10,320  | 9,199   | 9,199   |       |       | 8,433   | 8,982   | 8,982   |       |       | 7,938   |
| Richland .....     | 12,573  | 12,573  |       |       | 12,605  | 11,554  | 11,554  |       |       | 11,553  | 9,338   | 9,338   |       |       | 9,551   |
| Saluda .....       | 14,643  | 14,643  |       |       | 13,497  | 12,492  | 12,492  |       |       | 11,490  | 14,463  | 14,463  |       |       | 13,469  |
| Spartanburg .....  | 36,739  | 36,739  |       |       | 33,747  | 31,322  | 31,322  |       |       | 29,077  | 29,302  | 29,302  |       |       | 26,298  |
| Sumter .....       | 50,670  | 50,670  |       |       | 51,404  | 45,523  | 45,523  |       |       | 45,809  | 34,035  | 34,035  |       |       | 33,926  |
| Union .....        | 18,258  | 18,258  |       |       | 17,052  | 15,003  | 15,003  |       |       | 13,985  | 12,273  | 12,273  |       |       | 11,517  |
| Williamsburg ..... | 20,630  | 20,630  |       |       | 20,318  | 18,804  | 18,804  |       |       | 18,647  | 13,904  | 13,904  |       |       | 13,498  |
| York .....         | 26,037  | 26,024  | 13    |       | 23,910  | 27,134  | 27,134  |       |       | 25,489  | 22,156  | 22,156  |       |       | 22,521  |

MANUFACTURES.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—Continued.

TENNESSEE.

| COUNTIES.       | CROP OF 1899.     |         |        |             | EQUIVALENT 500-POUND BALES. | CROP OF 1900.     |         |        |             | EQUIVALENT 500-POUND BALES. | CROP OF 1901.     |         |        |             | EQUIVALENT 500-POUND BALES. |
|-----------------|-------------------|---------|--------|-------------|-----------------------------|-------------------|---------|--------|-------------|-----------------------------|-------------------|---------|--------|-------------|-----------------------------|
|                 | Commercial bales. |         |        |             |                             | Commercial bales. |         |        |             |                             | Commercial bales. |         |        |             |                             |
|                 | Total.            | Square. | Round. | Sea island. |                             | Total.            | Square. | Round. | Sea island. |                             | Total.            | Square. | Round. | Sea island. |                             |
| The State.....  | 215,175           | 199,926 | 15,249 | .....       | 211,641                     | 227,601           | 203,149 | 24,452 | .....       | 1221,619                    | 204,538           | 185,157 | 19,381 | .....       | 2197,138                    |
| Bedford.....    | 49                | 49      | .....  | .....       | 46                          | 74                | 74      | .....  | .....       | 71                          | 139               | 139     | .....  | .....       | 135                         |
| Benton.....     | 333               | 333     | .....  | .....       | 326                         | 378               | 378     | .....  | .....       | 394                         | 412               | 412     | .....  | .....       | 425                         |
| Bledsoe.....    | 8                 | .....   | 8      | .....       | 4                           | 3                 | 3       | .....  | .....       | 3                           | .....             | .....   | .....  | .....       | 3                           |
| Bradley.....    | 284               | 284     | .....  | .....       | 251                         | 378               | 378     | .....  | .....       | 343                         | 320               | 320     | .....  | .....       | 307                         |
| Cannon.....     | 24                | 24      | .....  | .....       | 24                          | .....             | .....   | .....  | .....       | .....                       | .....             | .....   | .....  | .....       | .....                       |
| Carroll.....    | 6,881             | 5,231   | 1,650  | .....       | 6,215                       | 10,845            | 5,421   | 5,424  | .....       | 8,394                       | 7,609             | 4,092   | 3,517  | .....       | 5,952                       |
| Chester.....    | 3,774             | 3,774   | .....  | .....       | 3,771                       | 3,351             | 3,351   | .....  | .....       | 3,394                       | 3,619             | 3,619   | .....  | .....       | 3,683                       |
| Crockett.....   | 5,779             | 5,779   | .....  | .....       | 5,949                       | 5,861             | 5,861   | .....  | .....       | 6,189                       | 6,311             | 6,311   | .....  | .....       | 6,534                       |
| Decatur.....    | 1,208             | 1,208   | .....  | .....       | 1,176                       | 1,197             | 1,197   | .....  | .....       | 1,188                       | 1,460             | 1,460   | .....  | .....       | 1,461                       |
| Dekalb.....     | 4                 | 4       | .....  | .....       | 4                           | 2                 | 2       | .....  | .....       | 2                           | .....             | .....   | .....  | .....       | .....                       |
| Dickson.....    | 6                 | 6       | .....  | .....       | 6                           | 6                 | 6       | .....  | .....       | 6                           | .....             | .....   | .....  | .....       | 6                           |
| Dyer.....       | 11,055            | 5,539   | 5,516  | .....       | 8,639                       | 14,625            | 8,361   | 6,264  | .....       | 12,058                      | 10,399            | 7,415   | 2,984  | .....       | 9,160                       |
| Fayette.....    | 21,602            | 21,602  | .....  | .....       | 21,864                      | 18,617            | 17,596  | 1,020  | .....       | 18,533                      | 18,337            | 13,357  | .....  | .....       | 13,105                      |
| Gibson.....     | 7,252             | 7,252   | .....  | .....       | 7,546                       | 7,970             | 7,970   | .....  | .....       | 8,468                       | 7,089             | 7,089   | .....  | .....       | 7,445                       |
| Giles.....      | 5,779             | 5,779   | .....  | .....       | 5,785                       | 8,839             | 8,839   | .....  | .....       | 9,081                       | 11,761            | 11,761  | .....  | .....       | 11,627                      |
| Hamilton.....   | 17                | 17      | .....  | .....       | 17                          | 22                | 22      | .....  | .....       | 24                          | 67                | 67      | .....  | .....       | 62                          |
| Hardeman.....   | 10,795            | 10,595  | 200    | .....       | 10,700                      | 10,881            | 10,881  | .....  | .....       | 10,982                      | 8,739             | 8,739   | .....  | .....       | 8,598                       |
| Hardin.....     | 4,730             | 4,389   | 341    | .....       | 4,648                       | 5,885             | 3,786   | 2,099  | .....       | 4,946                       | 6,110             | 3,904   | 2,206  | .....       | 5,038                       |
| Haywood.....    | 18,844            | 16,344  | 3,500  | .....       | 17,093                      | 15,460            | 14,943  | 512    | .....       | 15,298                      | 11,101            | 11,027  | 74     | .....       | 11,017                      |
| Henderson.....  | 4,706             | 4,706   | .....  | .....       | 4,723                       | 4,525             | 4,525   | .....  | .....       | 4,666                       | 4,370             | 4,370   | .....  | .....       | 4,424                       |
| Henry.....      | 658               | 658     | .....  | .....       | 658                         | 1,040             | 1,040   | .....  | .....       | 1,105                       | 603               | 603     | .....  | .....       | 646                         |
| Hickman.....    | 36                | 36      | .....  | .....       | 36                          | 28                | 28      | .....  | .....       | 31                          | 64                | 64      | .....  | .....       | 64                          |
| Jackson.....    | 2                 | 2       | .....  | .....       | 2                           | 4                 | 4       | .....  | .....       | 4                           | .....             | .....   | .....  | .....       | .....                       |
| James.....      | 5                 | 5       | .....  | .....       | 5                           | .....             | .....   | .....  | .....       | .....                       | .....             | .....   | .....  | .....       | .....                       |
| Lake.....       | 18,530            | 18,530  | .....  | .....       | 14,657                      | 13,909            | 13,909  | .....  | .....       | 15,075                      | 17,210            | 14,310  | 2,900  | .....       | 16,501                      |
| Lauderdale..... | 18,079            | 10,786  | 2,293  | .....       | 12,004                      | 17,038            | 12,274  | 4,764  | .....       | 15,088                      | 12,881            | 12,078  | 803    | .....       | 12,539                      |
| Lawrence.....   | 371               | 371     | .....  | .....       | 371                         | 350               | 350     | .....  | .....       | 350                         | 400               | 400     | .....  | .....       | 400                         |
| Lincoln.....    | 2,196             | 2,196   | .....  | .....       | 2,199                       | 4,017             | 4,017   | .....  | .....       | 4,091                       | 5,730             | 5,730   | .....  | .....       | 5,887                       |
| Loudon.....     | .....             | .....   | .....  | .....       | .....                       | 3                 | 3       | .....  | .....       | 3                           | .....             | .....   | .....  | .....       | .....                       |
| McMinn.....     | 433               | 433     | .....  | .....       | 425                         | 819               | 819     | .....  | .....       | 754                         | 745               | 745     | .....  | .....       | 710                         |
| McNairy.....    | 6,997             | 6,997   | .....  | .....       | 7,125                       | 6,161             | 6,161   | .....  | .....       | 6,298                       | 6,203             | 6,203   | .....  | .....       | 6,348                       |
| Madison.....    | 12,035            | 12,035  | .....  | .....       | 12,480                      | 12,824            | 12,824  | .....  | .....       | 18,044                      | 9,237             | 9,237   | .....  | .....       | 9,356                       |
| Marshall.....   | 295               | 295     | .....  | .....       | 295                         | 213               | 213     | .....  | .....       | 218                         | 271               | 271     | .....  | .....       | 279                         |
| Mauzy.....      | 233               | 233     | .....  | .....       | 233                         | 363               | 363     | .....  | .....       | 360                         | 557               | 557     | .....  | .....       | 546                         |
| Meigs.....      | 3                 | 3       | .....  | .....       | 3                           | .....             | .....   | .....  | .....       | .....                       | .....             | .....   | .....  | .....       | .....                       |
| Monroe.....     | 3                 | 3       | .....  | .....       | 3                           | 14                | 14      | .....  | .....       | 14                          | .....             | .....   | .....  | .....       | 2                           |
| Obion.....      | 867               | 867     | .....  | .....       | 867                         | 2,415             | 2,415   | .....  | .....       | 2,428                       | 3,000             | 807     | 2,193  | .....       | 1,917                       |
| Overton.....    | 2                 | 2       | .....  | .....       | 2                           | 10                | 10      | .....  | .....       | 10                          | 1                 | 1       | .....  | .....       | 1                           |
| Perry.....      | 215               | 215     | .....  | .....       | 198                         | .....             | .....   | .....  | .....       | .....                       | .....             | .....   | .....  | .....       | .....                       |
| Polk.....       | 778               | 778     | .....  | .....       | 710                         | 996               | 996     | .....  | .....       | 893                         | 705               | 705     | .....  | .....       | 632                         |
| Rutherford..... | 3,158             | 3,158   | .....  | .....       | 3,193                       | 4,364             | 4,364   | .....  | .....       | 4,426                       | 3,958             | 3,958   | .....  | .....       | 3,884                       |
| Sevier.....     | 6                 | 6       | .....  | .....       | 6                           | 2                 | 2       | .....  | .....       | 2                           | 2                 | 2       | .....  | .....       | 2                           |
| Shelby.....     | 34,693            | 34,693  | .....  | .....       | 35,454                      | 28,198            | 27,806  | 392    | .....       | 28,537                      | 28,111            | 27,437  | 674    | .....       | 27,859                      |
| Tipton.....     | 20,327            | 18,586  | 1,741  | .....       | 19,762                      | 24,248            | 20,271  | 3,977  | .....       | 23,075                      | 19,465            | 15,435  | 4,030  | .....       | 17,793                      |
| Warren.....     | 100               | 100     | .....  | .....       | 100                         | 100               | 100     | .....  | .....       | 100                         | .....             | .....   | .....  | .....       | .....                       |
| Wayne.....      | 350               | 350     | .....  | .....       | 350                         | 215               | 215     | .....  | .....       | 217                         | 492               | 492     | .....  | .....       | 506                         |
| Wenkley.....    | 1,573             | 1,573   | .....  | .....       | 1,643                       | 1,322             | 1,322   | .....  | .....       | 1,453                       | 1,963             | 1,963   | .....  | .....       | 2,171                       |
| White.....      | 8                 | 8       | .....  | .....       | 8                           | .....             | .....   | .....  | .....       | 20                          | 4                 | 4       | .....  | .....       | 15                          |
| Williamson..... | 32                | 32      | .....  | .....       | 35                          | 30                | 30      | .....  | .....       | 33                          | 73                | 73      | .....  | .....       | 69                          |

TEXAS.

|                |           |           |         |       |           |           |           |         |       |           |           |           |         |       |           |
|----------------|-----------|-----------|---------|-------|-----------|-----------|-----------|---------|-------|-----------|-----------|-----------|---------|-------|-----------|
| The State..... | 2,658,555 | 2,392,094 | 266,461 | ..... | 2,609,018 | 3,536,506 | 3,121,525 | 414,981 | ..... | 3,438,386 | 2,594,442 | 2,301,226 | 293,216 | ..... | 2,502,166 |
| Anderson.....  | 16,370    | 16,370    | .....   | ..... | 16,826    | 19,553    | 19,553    | .....   | ..... | 19,784    | 16,065    | 16,065    | .....   | ..... | 16,165    |
| Angelina.....  | 3,967     | 3,967     | .....   | ..... | 3,833     | 4,482     | 4,482     | .....   | ..... | 4,519     | 4,598     | 4,598     | .....   | ..... | 4,600     |
| Aransas.....   | .....     | .....     | .....   | ..... | .....     | 1,996     | .....     | 1,996   | ..... | 1,078     | .....     | .....     | .....   | ..... | .....     |
| Archer.....    | 135       | 135       | .....   | ..... | 141       | 95        | 95        | .....   | ..... | 160       | 21        | 21        | .....   | ..... | 22        |
| Atascosa.....  | 3,875     | 3,875     | .....   | ..... | 3,999     | 8,337     | 8,337     | .....   | ..... | 9,251     | 4,569     | 4,569     | .....   | ..... | 4,744     |
| Austin.....    | 29,932    | 28,547    | 1,385   | ..... | 31,744    | 9,805     | 9,024     | 781     | ..... | 10,073    | 18,858    | 15,225    | 3,133   | ..... | 18,046    |
| Bandera.....   | 1,168     | 1,168     | .....   | ..... | 1,206     | 3,343     | 3,343     | .....   | ..... | 3,462     | 2,453     | 2,453     | .....   | ..... | 2,542     |
| Bastrop.....   | 41,048    | 35,409    | 5,639   | ..... | 40,261    | 37,226    | 25,960    | 11,266  | ..... | 35,054    | 24,970    | 18,614    | 6,356   | ..... | 22,671    |
| Baylor.....    | 450       | 450       | .....   | ..... | 466       | 1,860     | 1,860     | .....   | ..... | 1,857     | 1,080     | 1,080     | .....   | ..... | 1,076     |
| Bee.....       | 4,560     | 4,560     | .....   | ..... | 4,784     | 12,411    | 12,411    | .....   | ..... | 12,847    | 7,884     | 7,884     | .....   | ..... | 8,256     |
| Bell.....      | 53,152    | 50,357    | 2,795   | ..... | 55,754    | 66,036    | 56,053    | 10,033  | ..... | 66,276    | 51,865    | 46,373    | 5,492   | ..... | 51,342    |
| Bexar.....     | 8,821     | 7,976     | 846     | ..... | 8,886     | 28,313    | 23,869    | 4,944   | ..... | 27,346    | 12,508    | 11,688    | 820     | ..... | 12,578    |
| Blanco.....    | 3,783     | 3,783     | .....   | ..... | 3,951     | 6,370     | 6,370     | .....   | ..... | 6,860     | 3,687     | 3,687     | .....   | ..... | 3,844     |
| Bosque.....    | 11,566    | 11,566    | .....   | ..... | 11,736    | 23,220    | 23,220    | .....   | ..... | 23,992    | 15,518    | 14,005    | 1,513   | ..... | 15,046    |
| Bowie.....     | 16,665    | 16,665    | .....   | ..... | 16,826    | 20,557    | 20,557    | .....   | ..... | 21,347    | 16,240    | 16,240    | .....   | ..... | 16,756    |
| Brazoria.....  | 6,720     | 6,720     | .....   | ..... | 6,888     | 1,264     | 1,264     | .....   | ..... | 1,314     | 1,493     | 1,493     | .....   | ..... | 1,535     |
| Brazos.....    | 21,272    | 21,272    | .....   | ..... | 22,069    | 19,764    | 16,386    | 3,378   | ..... | 18,473    | 21,349    | 17,954    | 3,395   | ..... | 20,135    |
| Brown.....     | 12,340    | 12,340    | .....   | ..... | 12,619    | 27,712    | 27,712    | .....   | ..... | 28,273    | 8,866     | 7,979     | 387     | ..... | 8,238     |
| Burleson.....  | 28,372    | 19,845    | 8,527   | ..... | 25,194    | 18,341    | 13,818    | 4,523   | ..... | 16,890    | 18,494    | 15,741    | 2,753   | ..... | 17,634    |
| Burnet.....    | 7,587     | 7,587     | .....   | ..... | 7,788     | 15,730    | 15,730    | .....   | ..... | 16,518    | 4,926     | 4,926     | .....   | ..... | 5,068     |

<sup>1</sup>Includes 1,000 pounds in White county not baled.

<sup>2</sup>Includes cotton not baled, as follows: Bledsoe county, 1,500 pounds; Dickson county, 2,500 pounds; Monroe county, 1,050 pounds; and White county, 6,000 pounds.

COTTON GINNING.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901. BY STATES AND COUNTIES—  
Continued.

TEXAS—Continued.

| COUNTIES  | CROP OF 1899.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | CROP OF 1900.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | CROP OF 1901.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. |
|-----------|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|
|           | Commercial bales. |         |        |                |   | Commercial bales. |         |        |                |   | Commercial bales. |         |        |                |   |
|           | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   |
| Caldwell  | 50,807            | 39,779  | 11,023 |                | 47,473                                  | 45,282            | 39,295  | 5,987  |                | 44,306                                  | 25,764            | 23,496  | 2,268  |                | 25,318                                  |
| Callahan  | 1,402             | 1,402   |        |                | 1,477                                   | 469               | 469     |        |                | 493                                     | 1,805             | 1,805   |        |                | 1,401                                   |
| Callahan  | 7,588             | 7,588   |        |                | 7,716                                   | 11,707            | 11,707  |        |                | 11,980                                  | 6,057             | 6,057   |        |                | 6,158                                   |
| Camp      | 7,612             | 7,612   |        |                | 7,607                                   | 13,093            | 13,093  |        |                | 13,266                                  | 8,597             | 8,597   |        |                | 8,417                                   |
| Cass      | 15,376            | 15,376  |        |                | 15,343                                  | 21,353            | 21,353  |        |                | 21,409                                  | 20,110            | 20,110  |        |                | 19,744                                  |
| Cherokee  | 15,178            | 15,176  |        |                | 15,300                                  | 20,374            | 20,374  |        |                | 20,516                                  | 14,434            | 14,434  |        |                | 14,515                                  |
| Childress | 255               | 255     |        |                | 255                                     | 1,380             | 1,380   |        |                | 1,380                                   | 1,150             | 1,150   |        |                | 1,150                                   |
| Clay      | 3,346             | 3,346   |        |                | 3,346                                   | 7,689             | 7,689   |        |                | 7,761                                   | 7,856             | 7,856   |        |                | 7,936                                   |
| Coke      | 1,318             | 1,318   |        |                | 1,345                                   | 4,696             | 4,696   |        |                | 4,820                                   | 1,761             | 1,761   |        |                | 1,794                                   |
| Coleman   | 7,773             | 7,773   |        |                | 8,089                                   | 18,224            | 18,224  |        |                | 19,371                                  | 7,874             | 7,874   | 242    |                | 7,684                                   |
| Collin    | 53,330            | 42,971  | 10,359 |                | 49,077                                  | 82,934            | 54,179  | 28,755 |                | 70,963                                  | 68,549            | 49,078  | 19,471 |                | 60,049                                  |
| Colorado  | 29,795            | 28,155  | 1,640  |                | 30,923                                  | 8,197             | 8,198   | 11     |                | 8,759                                   | 10,716            | 16,481  | 236    |                | 17,886                                  |
| Comal     | 11,304            | 11,304  |        |                | 11,997                                  | 19,475            | 19,475  |        |                | 20,854                                  | 8,468             | 8,468   |        |                | 8,911                                   |
| Comanche  | 23,196            | 23,196  |        |                | 23,797                                  | 46,366            | 46,366  |        |                | 47,777                                  | 23,409            | 23,409  |        |                | 23,907                                  |
| Concho    | 40                | 40      |        |                | 42                                      | 166               | 166     |        |                | 173                                     |                   |         |        |                |   |
| Cooke     | 11,815            | 11,515  | 300    |                | 11,905                                  | 18,249            | 18,249  |        |                | 18,751                                  | 20,346            | 17,910  | 2,436  |                | 19,561                                  |
| Coryell   | 22,557            | 18,157  | 4,400  |                | 20,702                                  | 29,346            | 29,346  |        |                | 30,863                                  | 17,248            | 15,242  | 2,006  |                | 17,041                                  |
| Cottle    | 165               | 165     |        |                | 173                                     | 710               | 710     |        |                | 710                                     | 738               | 738     |        |                | 812                                     |
| Dallas    | 42,512            | 39,124  | 3,388  |                | 41,012                                  | 66,362            | 51,809  | 14,553 |                | 59,970                                  | 44,323            | 36,471  | 7,852  |                | 40,818                                  |
| Delta     | 23,940            | 23,766  | 184    |                | 24,705                                  | 34,905            | 34,905  | 215    |                | 36,358                                  | 30,435            | 30,435  |        |                | 31,474                                  |
| Denton    | 24,824            | 14,947  | 9,877  |                | 20,381                                  | 50,830            | 24,577  | 26,253 |                | 30,092                                  | 44,549            | 25,352  | 19,197 |                | 35,180                                  |
| Dewitt    | 23,906            | 17,307  | 11,599 |                | 23,440                                  | 32,447            | 23,826  | 8,621  |                | 29,058                                  | 26,462            | 19,150  | 6,312  |                | 22,730                                  |
| Duval     | 819               | 819     |        |                | 853                                     | 1,694             | 1,694   |        |                | 1,708                                   | 644               | 644     |        |                | 658                                     |
| Eastland  | 16,840            | 14,600  | 1,740  |                | 15,611                                  | 39,704            | 35,955  | 3,749  |                | 38,164                                  | 25,999            | 23,933  | 2,016  |                | 25,453                                  |
| Edwards   | 4                 | 4       |        |                | 4                                       | 94                | 94      |        |                | 94                                      | 276               | 276     |        |                | 276                                     |
| Ellis     | 93,685            | 71,774  | 21,911 |                | 86,639                                  | 138,104           | 104,645 | 33,459 |                | 126,134                                 | 82,437            | 71,520  | 10,917 |                | 79,434                                  |
| Erath     | 20,620            | 20,620  |        |                | 21,211                                  | 43,415            | 41,326  | 2,089  |                | 44,097                                  | 27,880            | 24,882  | 2,998  |                | 26,977                                  |
| Falls     | 52,196            | 39,592  | 12,604 |                | 48,416                                  | 68,464            | 48,710  | 19,754 |                | 61,450                                  | 51,922            | 40,994  | 10,928 |                | 43,427                                  |
| Fannin    | 61,063            | 54,190  | 6,873  |                | 59,802                                  | 102,019           | 92,243  | 9,776  |                | 101,027                                 | 82,839            | 78,867  | 4,522  |                | 83,429                                  |
| Fayette   | 71,580            | 66,115  | 5,415  |                | 73,288                                  | 40,575            | 36,014  | 4,561  |                | 40,832                                  | 41,444            | 40,029  | 1,415  |                | 43,183                                  |
| Fisher    | 745               | 745     |        |                | 745                                     | 3,359             | 3,359   |        |                | 3,364                                   | 1,036             | 1,036   |        |                | 1,062                                   |
| Foard     | 400               | 400     |        |                | 408                                     | 1,510             | 1,510   |        |                | 1,542                                   | 721               | 721     |        |                | 750                                     |
| Fort Bend | 9,057             | 7,227   | 1,830  |                | 8,256                                   | 3,458             | 2,047   | 811    |                | 3,099                                   | 9,650             | 9,650   |        |                | 9,857                                   |
| Franklin  | 8,527             | 8,527   |        |                | 8,659                                   | 10,533            | 10,533  |        |                | 10,820                                  | 7,003             | 7,003   |        |                | 7,052                                   |
| Freestone | 19,705            | 19,705  |        |                | 20,138                                  | 28,503            | 28,503  |        |                | 29,180                                  | 20,390            | 20,390  |        |                | 20,763                                  |
| Frio      | 2,480             | 2,480   |        |                | 2,590                                   | 7,529             | 7,529   |        |                | 7,917                                   | 4,930             | 3,817   | 1,118  |                | 4,464                                   |
| Galveston | 794               | 794     |        |                | 761                                     | 356               | 356     |        |                | 356                                     | 965               | 965     |        |                | 930                                     |
| Gillespie | 6,076             | 6,076   |        |                | 6,333                                   | 12,360            | 12,360  |        |                | 12,956                                  | 7,835             | 7,835   |        |                | 8,216                                   |
| Goliad    | 7,192             | 7,192   |        |                | 7,435                                   | 11,192            | 11,192  |        |                | 11,513                                  | 9,204             | 4,836   | 4,368  |                | 6,951                                   |
| Gonzales  | 42,229            | 42,229  |        |                | 44,131                                  | 37,032            | 37,032  |        |                | 38,507                                  | 29,233            | 28,208  | 1,030  |                | 29,737                                  |
| Grayson   | 45,281            | 35,911  | 9,370  |                | 40,871                                  | 70,074            | 54,501  | 15,573 |                | 63,480                                  | 79,611            | 56,512  | 23,099 |                | 67,650                                  |
| Gregg     | 6,234             | 6,234   |        |                | 6,194                                   | 7,841             | 7,841   |        |                | 7,810                                   | 7,539             | 7,539   |        |                | 7,525                                   |
| Grimes    | 25,695            | 25,695  |        |                | 26,541                                  | 11,832            | 11,431  | 351    |                | 11,981                                  | 16,037            | 15,499  | 538    |                | 16,141                                  |
| Guadalupe | 29,429            | 23,874  | 6,555  |                | 28,114                                  | 59,981            | 48,279  | 11,702 |                | 56,638                                  | 24,904            | 21,563  | 3,341  |                | 24,285                                  |
| Hall      | 113               | 113     |        |                | 113                                     | 717               | 717     |        |                | 717                                     | 752               | 752     |        |                | 752                                     |
| Hamilton  | 15,263            | 13,870  | 1,398  |                | 15,070                                  | 26,759            | 26,759  |        |                | 27,956                                  | 12,881            | 12,881  |        |                | 13,275                                  |
| Hardeman  | 1,335             | 1,335   |        |                | 1,335                                   | 3,700             | 3,700   |        |                | 3,848                                   | 2,133             | 2,133   |        |                | 2,133                                   |
| Hardin    | 89                | 89      |        |                | 83                                      | 151               | 151     |        |                | 149                                     | 101               | 101     |        |                | 101                                     |
| Harris    | 5,532             | 5,532   |        |                | 5,859                                   | 2,047             | 2,047   |        |                | 2,118                                   | 5,055             | 2,846   | 2,209  |                | 4,063                                   |
| Harrison  | 19,611            | 19,611  |        |                | 19,663                                  | 28,257            | 28,257  |        |                | 28,351                                  | 21,776            | 21,776  |        |                | 21,640                                  |
| Haskell   | 830               | 830     |        |                | 830                                     | 2,510             | 2,510   |        |                | 2,510                                   | 1,870             | 1,870   |        |                | 1,956                                   |
| Hays      | 24,161            | 20,974  | 3,187  |                | 23,737                                  | 34,299            | 29,191  | 3,108  |                | 31,652                                  | 19,136            | 13,954  | 5,232  |                | 17,197                                  |
| Hemphill  | 40                | 40      |        |                | 40                                      |                   |         |        |                |   |                   |         |        |                |   |
| Henderson | 15,394            | 15,394  |        |                | 16,093                                  | 21,821            | 21,821  |        |                | 22,131                                  | 12,563            | 12,563  |        |                | 12,605                                  |
| Hidalgo   |                   |         |        |                | 285                                     | 285               | 285     |        |                | 285                                     |                   |         |        |                |   |
| Hill      | 62,493            | 49,753  | 12,740 |                | 59,070                                  | 97,209            | 67,854  | 29,355 |                | 85,060                                  | 55,751            | 47,887  | 7,864  |                | 53,793                                  |
| Hood      | 3,352             | 7,496   | 856    |                | 7,941                                   | 13,534            | 15,404  | 3,120  |                | 17,244                                  | 10,593            | 8,523   | 2,070  |                | 9,589                                   |
| Hopkins   | 24,567            | 24,507  |        |                | 24,710                                  | 49,011            | 49,011  |        |                | 49,248                                  | 30,653            | 30,653  |        |                | 30,698                                  |
| Houston   | 25,625            | 25,625  |        |                | 26,154                                  | 26,671            | 26,671  |        |                | 27,254                                  | 25,384            | 25,384  |        |                | 25,965                                  |
| Howard    | 5                 | 5       |        |                | 5                                       | 300               | 300     |        |                | 300                                     | 450               | 450     |        |                | 450                                     |
| Hunt      | 52,987            | 46,754  | 6,233  |                | 50,317                                  | 97,574            | 66,495  | 31,079 |                | 83,752                                  | 79,823            | 47,608  | 32,220 |                | 64,595                                  |
| Jack      | 3,161             | 3,161   |        |                | 3,172                                   | 6,801             | 6,801   |        |                | 6,902                                   | 4,440             | 4,440   |        |                | 4,444                                   |
| Jackson   | 3,195             | 3,195   |        |                | 3,325                                   | 1,197             | 1,197   |        |                | 1,267                                   | 3,465             | 3,465   |        |                | 3,537                                   |
| Jasper    | 1,834             | 1,834   |        |                | 1,822                                   | 2,435             | 2,435   |        |                | 2,412                                   | 2,978             | 2,978   |        |                | 2,910                                   |
| Johnson   | 20,844            | 25,003  | 1,776  |                | 26,334                                  | 45,307            | 37,717  | 7,590  |                | 42,790                                  | 32,673            | 27,949  | 4,727  |                | 29,623                                  |
| Jones     | 4,401             | 4,401   |        |                | 4,401                                   | 7,345             | 7,345   |        |                | 7,495                                   | 10,120            | 10,120  |        |                | 10,411                                  |
| Karnes    | 12,314            | 12,314  |        |                | 12,515                                  | 22,737            | 22,737  |        |                | 22,926                                  | 12,296            | 12,296  |        |                | 12,491                                  |
| Kaufman   | 55,273            | 48,034  | 7,239  |                | 53,429                                  | 79,412            | 74,246  | 5,166  |                | 79,171                                  | 53,845            | 48,713  | 5,127  |                | 51,710                                  |
| Kendall   | 1,856             | 1,856   |        |                | 1,878                                   | 3,912             | 3,912   |        |                | 3,994                                   | 3,062             | 3,062   |        |                | 3,193                                   |
| Kent      | 189               | 189     |        |                | 189                                     | 104               | 104     |        |                | 105                                     | 198               | 198     |        |                | 203                                     |
| Kerr      | 778               | 778     |        |                | 789                                     | 1,250             | 1,250   |        |                | 1,270                                   | 1,132             | 1,132   |        |                | 1,204                                   |
| Kimble    | 634               | 634     |        |                | 634                                     | 1,062             | 1,062   |        |                | 1,067                                   | 834               | 834     |        |                | 834                                     |
| Knox      | 341               | 341     |        |                | 341                                     | 2,578             | 2,578   |        |                | 2,601                                   | 2,041             | 2,041   |        |                | 2,114                                   |
| Lamar     | 49,221            | 46,969  | 2,252  |                | 49,193                                  | 87,393            | 86,542  | 851    |                | 89,415                                  | 56,089            | 54,736  | 1,353  |                | 56,197                                  |
| Lampasas  | 4,484             | 4,484   |        |                | 4,562                                   | 7,794             | 7,794   |        |                | 8,166                                   | 4,151             | 4,151   |        |                | 4,356                                   |
| Lavaca    | 39,074            | 38,982  | 92     |                | 42,434                                  | 28,226            | 23,858  | 4,368  |                | 28,058                                  | 27,063            | 24,981  | 2,022  |                | 27,675                                  |
| Lee       | 22,304            | 17,399  | 5,405  |                | 21,486                                  | 12,138            | 8,970   | 3,168  |                | 10,963                                  | 13,282            | 9,166   | 4,116  |                | 11,665                                  |
| Leon      | 21,969            | 21,309  |        |                | 21,773                                  | 22,130            | 20,452  | 1,678  |                | 21,925                                  | 19,518            | 17,313  | 2,200  |                | 18,438                                  |
| Liberty   | 3,475             | 3,475   |        |                | 3,376                                   | 2,222             | 2,222   |        |                | 2,179                                   | 2,218             | 2,218   |        |                | 2,125                                   |
| Limestone | 49,539            | 48,024  | 1,515  |                | 49,790                                  | 60,932            | 53,347  | 2,085  |                | 62,232                                  | 46,529            | 45,553  | 976    |                | 47,430                                  |

MANUFACTURES.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—Continued.

TEXAS—Continued.

| COUNTIES.     | CROP OF 1899.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | CROP OF 1900.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. | CROP OF 1901.     |         |        |                | Equiva-<br>lent 500-<br>pound<br>bales. |
|---------------|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|
|               | Commercial bales. |         |        |                |   | Commercial bales. |         |        |                |   | Commercial bales. |         |        |                |   |
|               | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   |
| Live Oak      | 424               | 424     |        |                | 424                                     | 2,357             | 2,357   |        |                | 2,418                                   | 1,177             | 1,177   |        |                | 1,193                                   |
| Llano         | 2,512             | 2,512   |        |                | 2,524                                   | 4,143             | 4,143   |        |                | 4,283                                   | 899               | 899     |        |                | 918                                     |
| McCulloch     | 3,100             | 3,100   |        |                | 3,104                                   | 6,348             | 6,348   |        |                | 6,674                                   | 1,908             | 1,908   |        |                | 1,950                                   |
| McLennan      | 70,586            | 53,824  | 16,712 |                | 65,961                                  | 98,460            | 70,246  | 28,214 |                | 36,447                                  | 65,954            | 51,199  | 14,755 |                | 61,225                                  |
| Madison       | 11,636            | 11,636  |        |                | 11,896                                  | 8,247             | 8,247   |        |                | 8,418                                   | 7,987             | 7,987   |        |                | 8,207                                   |
| Marion        | 3,891             | 3,891   |        |                | 3,880                                   | 6,122             | 6,122   |        |                | 6,043                                   | 4,848             | 4,848   |        |                | 4,770                                   |
| Mason         | 4,164             | 4,164   |        |                | 4,257                                   | 6,893             | 6,893   |        |                | 7,143                                   | 3,168             | 3,168   |        |                | 3,218                                   |
| Matagorda     | 4,289             | 4,289   |        |                | 4,375                                   | 540               | 540     |        |                | 537                                     | 1,326             | 1,326   |        |                | 1,331                                   |
| Medina        | 4,058             | 4,058   |        |                | 4,195                                   | 12,344            | 12,344  |        |                | 12,959                                  | 7,789             | 7,789   |        |                | 8,097                                   |
| Menard        | 660               | 660     |        |                | 669                                     | 1,859             | 1,859   |        |                | 1,934                                   | 1,500             | 1,500   |        |                | 1,500                                   |
| Milam         | 68,927            | 59,567  | 9,360  |                | 67,753                                  | 54,109            | 52,046  | 2,063  |                | 55,869                                  | 43,680            | 43,680  |        |                | 45,855                                  |
| Mills         | 4,706             | 4,706   |        |                | 4,879                                   | 8,412             | 8,412   |        |                | 8,819                                   | 9,093             | 4,977   | 116    |                | 5,207                                   |
| Mitchell      | 906               | 906     |        |                | 916                                     | 2,658             | 2,658   |        |                | 2,710                                   | 1,984             | 984     |        |                | 1,002                                   |
| Montague      | 16,767            | 13,884  | 3,883  |                | 15,061                                  | 35,798            | 32,509  | 3,289  |                | 34,488                                  | 28,247            | 28,247  |        |                | 28,454                                  |
| Montgomery    | 9,980             | 9,980   |        |                | 10,272                                  | 4,026             | 4,026   |        |                | 4,059                                   | 6,093             | 6,093   |        |                | 6,243                                   |
| Morris        | 9,514             | 9,514   |        |                | 9,845                                   | 16,362            | 16,362  |        |                | 16,095                                  | 8,676             | 8,676   |        |                | 8,494                                   |
| Nacogdoches   | 19,059            | 19,059  |        |                | 19,041                                  | 21,898            | 21,898  |        |                | 21,996                                  | 15,562            | 15,562  |        |                | 15,409                                  |
| Navarro       | 66,460            | 62,192  | 4,268  |                | 65,478                                  | 91,518            | 78,889  | 12,629 |                | 88,013                                  | 51,155            | 46,773  | 4,382  |                | 49,637                                  |
| Newton        | 1,387             | 1,387   |        |                | 1,319                                   | 1,584             | 1,584   |        |                | 1,503                                   | 1,243             | 1,243   |        |                | 1,203                                   |
| Nolan         | 1,696             | 876     | 820    |                | 1,324                                   | 2,536             | 2,536   | 300    |                | 2,467                                   | 1,468             | 1,468   |        |                | 1,513                                   |
| Nueces        | 489               | 489     |        |                | 503                                     | 1,941             | 1,941   |        |                | 1,952                                   | 595               | 595     |        |                | 601                                     |
| Orange        | 33                | 33      |        |                | 36                                      | 13                | 13      |        |                | 9                                       | 15                | 15      |        |                | 11                                      |
| Palo Pinto    | 5,239             | 4,082   | 557    |                | 4,928                                   | 12,019            | 11,119  | 900    |                | 11,514                                  | 6,447             | 6,447   |        |                | 6,317                                   |
| Panola        | 13,927            | 13,927  |        |                | 13,927                                  | 17,840            | 17,829  | 11     |                | 17,823                                  | 13,395            | 13,395  |        |                | 13,472                                  |
| Parmer        | 17,832            | 17,832  |        |                | 17,433                                  | 36,222            | 36,222  |        |                | 36,672                                  | 19,624            | 19,624  |        |                | 19,551                                  |
| Pecos         | 70                | 70      |        |                | 73                                      | 162               | 162     |        |                | 168                                     | 230               | 230     |        |                | 230                                     |
| Polk          | 8,454             | 8,454   |        |                | 8,455                                   | 7,217             | 7,217   |        |                | 7,142                                   | 9,672             | 9,672   |        |                | 9,462                                   |
| Rains         | 5,554             | 5,554   |        |                | 5,575                                   | 5,930             | 5,930   |        |                | 5,907                                   | 5,399             | 5,399   |        |                | 5,279                                   |
| Red River     | 28,173            | 27,836  | 337    |                | 28,584                                  | 46,637            | 46,637  |        |                | 47,870                                  | 35,603            | 35,603  |        |                | 35,911                                  |
| Reeves        |                   |         |        |                | 8                                       | 8                 | 8       |        |                | 8                                       | 75                | 75      |        |                | 75                                      |
| Refugio       | 402               | 402     |        |                | 402                                     | 402               | 402     |        |                | 410                                     | 354               | 354     |        |                | 369                                     |
| Robertson     | 34,436            | 29,132  | 5,304  |                | 32,394                                  | 32,776            | 27,140  | 5,636  |                | 30,849                                  | 33,549            | 31,351  | 2,198  |                | 33,289                                  |
| Rockwall      | 11,848            | 11,848  |        |                | 12,053                                  | 24,302            | 19,582  | 4,720  |                | 22,202                                  | 13,819            | 12,769  | 550    |                | 13,251                                  |
| Runnels       | 3,069             | 3,069   |        |                | 3,099                                   | 9,722             | 9,722   |        |                | 9,993                                   | 5,164             | 5,164   |        |                | 5,402                                   |
| Rusk          | 21,236            | 21,236  |        |                | 21,291                                  | 24,997            | 24,997  |        |                | 25,038                                  | 19,022            | 19,022  |        |                | 18,671                                  |
| Sabine        | 4,388             | 4,388   |        |                | 4,262                                   | 5,814             | 5,814   |        |                | 5,788                                   | 4,856             | 4,856   |        |                | 4,794                                   |
| San Augustine | 6,262             | 6,262   |        |                | 6,187                                   | 7,695             | 7,695   |        |                | 7,626                                   | 6,493             | 6,493   |        |                | 6,418                                   |
| San Jacinto   | 8,844             | 8,844   | 800    |                | 8,826                                   | 6,618             | 6,618   |        |                | 6,749                                   | 5,528             | 5,528   |        |                | 5,376                                   |
| San Patricio  | 830               | 830     |        |                | 885                                     | 2,547             | 2,547   |        |                | 2,619                                   | 1,317             | 1,317   |        |                | 1,366                                   |
| San Saba      | 3,279             | 3,279   |        |                | 3,320                                   | 8,420             | 8,420   |        |                | 8,658                                   | 2,538             | 2,538   |        |                | 2,583                                   |
| Scurry        | 900               | 900     |        |                | 986                                     | 4,610             | 4,610   |        |                | 4,934                                   | 2,888             | 2,888   |        |                | 2,970                                   |
| Shackelford   | 807               | 807     |        |                | 807                                     | 1,763             | 1,763   |        |                | 1,788                                   | 434               | 434     |        |                | 442                                     |
| Shelby        | 14,697            | 14,697  |        |                | 14,606                                  | 18,510            | 18,510  |        |                | 18,210                                  | 14,917            | 14,917  |        |                | 14,785                                  |
| Smith         | 26,787            | 26,787  |        |                | 26,888                                  | 43,368            | 43,368  |        |                | 42,549                                  | 31,336            | 31,336  |        |                | 31,141                                  |
| Somervell     | 1,375             | 1,375   |        |                | 1,411                                   | 4,687             | 4,687   |        |                | 4,776                                   | 2,799             | 2,799   |        |                | 2,833                                   |
| Stephens      | 3,872             | 3,872   |        |                | 3,875                                   | 5,807             | 5,807   |        |                | 5,870                                   | 2,729             | 2,729   |        |                | 2,789                                   |
| Stonewall     | 700               | 700     |        |                | 700                                     | 1,606             | 1,606   |        |                | 1,633                                   | 432               | 432     |        |                | 434                                     |
| Tarrant       | 17,019            | 14,459  | 2,560  |                | 16,190                                  | 33,406            | 26,711  | 6,695  |                | 30,868                                  | 23,114            | 19,111  | 4,003  |                | 21,402                                  |
| Taylor        | 6,462             | 6,462   |        |                | 6,520                                   | 10,403            | 10,253  | 150    |                | 10,368                                  | 5,215             | 4,227   | 983    |                | 4,334                                   |
| Throckmorton  | 335               | 335     |        |                | 352                                     | 615               | 615     |        |                | 658                                     | 275               | 275     |        |                | 289                                     |
| Titus         | 10,740            | 10,740  |        |                | 10,720                                  | 15,806            | 15,806  |        |                | 15,867                                  | 12,683            | 12,683  |        |                | 12,571                                  |
| Tom Green     | 85                | 85      |        |                | 85                                      | 328               | 328     |        |                | 329                                     | 890               | 890     |        |                | 930                                     |
| Travis        | 57,486            | 56,263  | 1,223  |                | 60,078                                  | 70,089            | 65,589  | 4,500  |                | 71,899                                  | 43,195            | 37,501  | 5,694  |                | 40,994                                  |
| Trinity       | 6,776             | 6,776   |        |                | 6,812                                   | 7,904             | 7,904   |        |                | 8,092                                   | 7,266             | 7,266   |        |                | 7,389                                   |
| Tyler         | 4,672             | 4,672   |        |                | 4,581                                   | 4,072             | 4,072   |        |                | 4,053                                   | 4,486             | 4,486   |        |                | 4,459                                   |
| Upshur        | 13,512            | 13,512  |        |                | 13,481                                  | 21,343            | 21,343  |        |                | 21,396                                  | 17,479            | 17,479  |        |                | 17,315                                  |
| Uvalde        | 515               | 515     |        |                | 528                                     | 1,847             | 1,847   |        |                | 1,860                                   | 1,353             | 1,353   |        |                | 1,350                                   |
| Van Zandt     | 26,266            | 26,266  |        |                | 26,428                                  | 36,252            | 36,252  |        |                | 37,787                                  | 21,783            | 21,783  |        |                | 21,895                                  |
| Victoria      | 11,451            | 11,451  |        |                | 11,956                                  | 7,809             | 2,647   | 5,162  |                | 5,547                                   | 13,000            | 4,220   | 8,780  |                | 9,060                                   |
| Walker        | 9,277             | 9,277   |        |                | 9,714                                   | 6,478             | 6,478   |        |                | 6,823                                   | 7,547             | 7,547   |        |                | 7,810                                   |
| Waller        | 8,845             | 8,845   |        |                | 9,191                                   | 2,265             | 2,265   |        |                | 2,306                                   | 7,372             | 7,372   |        |                | 7,433                                   |
| Ward          | 924               | 924     |        |                | 928                                     | 2,759             | 2,759   |        |                | 2,713                                   | 3,055             | 3,055   |        |                | 2,907                                   |
| Washington    | 47,824            | 46,452  | 872    |                | 48,791                                  | 23,036            | 22,020  | 1,076  |                | 23,405                                  | 30,354            | 29,244  | 1,110  |                | 30,850                                  |
| Wharton       | 41,036            | 12,479  | 28,557 |                | 27,383                                  | 4,570             | 2,209   | 2,361  |                | 3,503                                   | 18,701            | 12,044  | 6,657  |                | 16,090                                  |
| Wichita       | 313               | 313     |        |                | 313                                     | 2,000             | 2,000   |        |                | 1,956                                   | 1,457             | 1,457   |        |                | 1,525                                   |
| Willbarger    | 1,450             | 1,450   |        |                | 1,475                                   | 2,000             | 2,000   |        |                | 1,956                                   | 1,457             | 1,457   |        |                | 1,525                                   |
| Williamson    | 88,537            | 77,752  | 10,785 |                | 89,237                                  | 108,137           | 91,704  | 16,433 |                | 104,761                                 | 73,345            | 53,520  | 19,825 |                | 66,855                                  |
| Wilson        | 8,155             | 8,155   |        |                | 8,522                                   | 23,361            | 22,228  | 6,133  |                | 26,554                                  | 18,485            | 15,096  | 3,389  |                | 17,291                                  |
| Wise          | 13,119            | 16,654  | 1,465  |                | 17,556                                  | 37,541            | 37,541  |        |                | 38,315                                  | 30,222            | 30,222  |        |                | 30,763                                  |
| Wood          | 15,888            | 15,888  |        |                | 15,992                                  | 25,247            | 25,247  |        |                | 25,367                                  | 14,967            | 14,967  |        |                | 14,732                                  |
| Young         | 2,984             | 2,984   |        |                | 3,031                                   | 7,053             | 7,053   |        |                | 7,140                                   | 3,915             | 3,915   |        |                | 3,953                                   |

UTAH.

|                              |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|
| The State <sup>1</sup> ..... |  |  |  |  |  |  |  |  |  | 31 |  |  |  |  |  |
| Washington.....              |  |  |  |  |  |  |  |  |  | 31 |  |  |  |  |  |

<sup>1</sup> No report of cotton ginned in 1899, 15,560 pounds ginned in 1900 but not baled, and no cotton ginned in 1901.

TABLE 8.—QUANTITY OF COTTON GINNED FROM CROPS GROWN IN 1899, 1900, AND 1901, BY STATES AND COUNTIES—  
Continued.

## VIRGINIA.

| COUNTIES.          | CROP OF 1899.     |         |        |                |   | CROP OF 1900.     |         |        |                |   | CROP OF 1901.     |         |        |                |   |
|--------------------|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|-------------------|---------|--------|----------------|---|
|                    | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. | Commercial bales. |         |        |                | Equiv-<br>alent 500-<br>pound<br>bales. |
|                    | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   | Total.            | Square. | Round. | Sea<br>island. |   |
| The State.....     | 9,239             | 9,239   | .....  | .....          | 8,622                                   | 11,833            | 11,833  | .....  | .....          | 11,022                                  | 14,009            | 14,009  | .....  | .....          | 12,916                                  |
| Brunswick .....    | 3,190             | 3,190   | .....  | .....          | 2,951                                   | 3,602             | 3,602   | .....  | .....          | 3,323                                   | 3,170             | 3,170   | .....  | .....          | 2,602                                   |
| Greensville.....   | 1,902             | 1,902   | .....  | .....          | 1,831                                   | 2,771             | 2,771   | .....  | .....          | 2,663                                   | 2,360             | 2,360   | .....  | .....          | 2,179                                   |
| Mecklenburg.....   | 250               | 250     | .....  | .....          | 230                                     | 995               | 995     | .....  | .....          | 912                                     | 1,145             | 1,145   | .....  | .....          | 1,067                                   |
| Nansemond.....     | 230               | 230     | .....  | .....          | 220                                     | 197               | 197     | .....  | .....          | 185                                     | 333               | 333     | .....  | .....          | 310                                     |
| Norfolk.....       | .....             | .....   | .....  | .....          | .....                                   | .....             | .....   | .....  | .....          | .....                                   | 1,294             | 1,294   | .....  | .....          | 1,277                                   |
| Pittsylvania.....  | .....             | .....   | .....  | .....          | .....                                   | 2                 | 2       | .....  | .....          | 2                                       | .....             | .....   | .....  | .....          | 110                                     |
| Prince George..... | 78                | 78      | .....  | .....          | 67                                      | 60                | 60      | .....  | .....          | 54                                      | 71                | 71      | .....  | .....          | 60                                      |
| Southampton.....   | 2,220             | 2,220   | .....  | .....          | 2,079                                   | 3,133             | 3,133   | .....  | .....          | 2,936                                   | 4,184             | 4,184   | .....  | .....          | 4,033                                   |
| Sussex.....        | 1,369             | 1,369   | .....  | .....          | 1,244                                   | 1,073             | 1,073   | .....  | .....          | 947                                     | 1,452             | 1,452   | .....  | .....          | 1,288                                   |

<sup>1</sup> Includes 5,000 pounds in Pittsylvania county, not baled.