# DEPARTMENT OF COMMERCE bureau of the census <br> WM. J. HARRIS, Director <br> <br> BULLETIN 117 <br> <br> BULLETIN 117 <br> <br> SUPPLY AND DISTRIBUTION <br> <br> SUPPLY AND DISTRIBUTION OF COTTON 

 OF COTTON}

FOR THE YEAR ENDING AUGUST 31, 1913



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## LETTER OF TRANSMITTAL.

- department of commtroen,

Bureau of the Census,
Washington, D. C., November 1, 1918.
SIR:
I have the honor to transmit herewith Census Bulletin 117, which is a report on the supply and distribution of cotton in the United States for the year ending August 31, 1913. The statistics were collected and compiled under the supervision of Mr. William M. Stewart, chief statistician for manufactures, assisted by Mr. H. J. Zimmerman.

The report is presented in two divisions: (1) The supply of cotton in the United States for the year ending August 31, 1913, and the distribution of the same, together with statistics of spindles, cotton consumed, cotton on hand, and imports and exports of cotton and cotton goods, including comparative figures for previous years; and (2) the world's spindles and consumption of cotton for 1900 and 1913 , together with statistics of the trade in cotton and cotton manufactures for selected countries, and of cotton on hand in manufacturing establishments and at ports in foreign countries. Information is also presented in regard to the localization of the cotton manufacturing industry in the United States.

Prior to 1913 the bureau issued four reports each year, showing the supply and distribution of cotton for the periods ending with October, December, February, and August. In conformity with the act of Congress approved July 22, 1912, twelve reports were issued during the year ending August 31, 1913, giving for each month statistics of the quantity of cotton consumed, the quantity on hand in manufacturing establishments and in independent warehouses and other public storage places, the quantity imported, the quantity exported, and the number of active consuming cotton spindles. The statistics of imports show the countries of production, and those of exports the countries to which exported. The present report, which forms the complement to the report on production compiled from the returns of the gingers, gives the aggregate of the figures included in the preliminary statements and covers the ninth consecutive year for which statistics of cotton consumed and cotton stocks have been collected and published by this bureau.

Very respectfully,
MPEIS.MCarrid

Hon. William C. Redfield, Secretary of Commerce.

# SUPPLY AND DISTRIBUTION OF COTTON IN THE UNITED STATES. 

## GENERAL SUMMARY.

Table 1 summarizes under certain general headings the statistics for the supply of cotton in the United

States and for the distribution of the supply for the year ending August 31, giving comparative data from 1906 to 1913, inclusive.

Table 1.-SUPPLY AND DISTRIBUTION OF COTTON IN THE UNITED STATES, FOR YTARS ENDING AUGUST 31: 1906 TO 1913.
[Quantities are given in ruming bales, except that round bules are counted as half bales and foreigu cotton in equivalent bo0-pound bales. Linters are included.]

|  | 1018 | 1912 | 1011 | 1910 | 1909 | 1908 | 1907 | 1906 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aggregate.................... | 16,225,734 | 17,896,226 | 13,873,423 | 12, 188, 021 | 15,312,885 | 13,358,707 | 15,025,720 | 13,047,219 |
| Cotton on hand at beginning of year, total. | 1,776,885 | 1, 375, 031 | 1, 040, 040 | 1,483, 585 | 1, 230,058 | 1,514,507 | 1,349,139 | 1,934,548 |
| In manufacturing establishments, total | -870,646 | 542,191 | 533,232 | 907, 0978 | 509, 1884 | 1,016,738 | 680,472 | 776, 801 |
| In cotion-growing states... | 241, 611 | 101, 114 | 121, 349 | 186, 458 | 112,471 | -311,307 | 184,060 | 232,928 |
| In indepondent warehouses and othor public storago places. | 556, 239 | 442, 810 | 306, 808 | 325, 399 | 444, 626 | 700,431 | 406, 411 | 543,873 |
| Elsewhere (estimated).. | 350, 000 | 400, 000 | 200,000 | 251,389 | 197, 248 | 388, 108,910 | 688,668 | 1,157, 747 |
| Not imports. . . . . . . . . . | 225, 460 | 229,263 | 231,101 | 151,305 | 105, 451 | 140,889 | 202,733 | 133,464 |
| Gimings. | 14, 159,078 | 16,068,936 | 12,384,248 | 10,350,078 | 13, 418, 144 | 11,527,833 | 13,097, 992 | 10,656,498 |
| To balance distribution. | 64,311 | 222,091 | 217,944 | 202,063 | 403,232 | 175,438 | 375, 856 | 322,709 |
| Aggregate. | 16,225,734 | 17,896,226 | 13, 873,423 | 12, 188, 021 | 15,312, 885 | 13,358,707 | 15,025, 720 | 13,047,219 |
| Cotton exported. | 8,800, 1006 | 10, 681,758 | 7,781,414 | 6,330,028 | 8, 574, 024 | 7,573,319 | 8,503, 265 | 8,763,041 |
| Cotton consumed, total. | 5,780, 330 | 5,367, 583 | 4,701,978 | 4,798,053 | 5,240,719 | 4,539,090 | 4,984, 936 | 4,900, 279 |
| In cotton-growing states | 2,960,51.8 | 2,712, 223 | 2, 328, 487 | 2, 292, 333 | 2,553,797 | 2, 187,090 | 2,410,993 | 2,373,577 |
| In all other states. | 2, 825.812 | 2,650, 360 | 2, 376,401 | 2,506,620 | 2, 886,022 | 2,351, 09.1 | 2,573, 943 | 2,535,702 |
| Cotton destroyed by fire | 40,000 | 70,000 | 12,000 | 10,000 | 14, 557 | 10,210 | 22, 952 | 25,700 |
| Cotion ou hund at end of year, total. | 1,698,438 | 1,776,885 | 1, 375,031 | 1,040,040 | 1, 483, 585 | 1,236,058 | 1,514,567 | 1,349, 139 |
| In manufteturing establishments, | 778, 158 | S70, 046 | 542,191 | 533, 232 | 907,097 | 594, 184 | 1,018,738 | 680,471 |
| In cotiton-growing states. | 234, 509 | 241, 611 | 101,114 | 121, 349 | 186, 458 | 112, 471 | 311,307 | 184,000 |
| In all other states....... | 543,640 | 629,035 | 441, 077 | 411, 883 | 720,639 | 481, 713 | 705, 431 | 400,411 |
| In independent warohouses and other public storago places. | 495, 230 | 556,239 | 432, 840 | 306, 808 | 325, 099 | 444, 626 | 388, 919 |  |
| Elsowhera (estimated)................................... | 325,000 | 350, 000 | 400,000 | 200,000 | 251,380 | 197,248 | 108, 910 | 608,608 |

For the year ending August 31, 1913, the supply of cotton in the United States amounted to 16,225,734 bales. The largest amount shown for any year covered by the table was $17,896,226$ bales for 1912, and the smallest amount $12,188,021$ bales for 1910 . The large supply for 1912 was due to the magnitude of the crop of 1911, while that for 1913 was due to the size of the crop of 1.912, which was the second largest in the history of the country. It was also due to some extent to the increased stocks carried forward from the preceding year. The differences in the supply of cotton for the years shown practically represent the variations in the crops produced in the United States, since the differences in the stocks carried forward and in the imports are too small to affect the total materially.

Of the total supply of cotton for 1913, as shown in the table, $5,826,330$ bales, or 35.9 per cent, including the quantity destroyed by fire, were consumed in this country, and $8,800,966$ bales, or 54.2 per cont, were exported, while $1,598,438$ bales, or 9.9 per cent, remained in the country at the close of the year. Of the supply for the preceding year, 30.4 per cent was
consumed at home, 59.7 per cent was exported, and 9.9 per cent remained in the country at the close of the year, while for 1910 the proportions were $39.5,52$, and 8.5 per cent, respectively.

The mill consumption of cotton in the United States for 1913 was the largest in the history of the country, exceeding that for 1912, the next largest, by 418,747 bales, and exceeding the average for the seven years preceding 1913 by 851,253 bales. The exports during the year were $1,880,792$ bales less than for 1912, but greater than for any other year.

The stocks of cotton in the United States at the close of August, 1913, amounted to $1,598,438$ bales, compared with $1,776,885$ bales on the corresponding date in 1012, $1,375,031$ bales in 1911, $1,040,040$ bales in 1910 , and $1,483,585$ bales in 1909. Those held by manufacturers amounted to 778,158 bales, it decrease of 92,488 bales from the quantity so held in 1912 and 238,580 bales less than the quantity held in 1907 ( $1,016,738$ bales), which was the largest amount for any year since the inauguration of these reports. On the basis of the consumption during the past year, the
stocks held by manufacturers August 31, 1913, represent about a seven weeks' supply for the American cotton mills.

Dlagram 1.-Proportion of supply of cotton for 1913 consumed in the United States, held in stocks, and exported, with distribution of exports by countries to which exported.


METHOD OF COLLEOTING AND ASSEMBLING DATA.
The data relative to cotion ginned have been collected by local agents of the Census Bureau, who canvassed the gimers and delinters. Information as to cotton consumed, stocks held by manufacturers, and stocks in independent warehouses and other public storage places has been secured by these same local agents in the cotton-growing states; in all other states it has been obtained by correspondence and by special agents who canvassed the important mill centers. Stocks at ports, generally known as "port stocks," were reported and are included as stocks held in manufacturing establishments, in independent warehouses, and by other holders, respectively. The statistics of imports and exports have been compiled by the Bureau of Foreign and Domestic Commerce, Department of Commerce.

The supply of cotton for the year comprises the stocks hald at the beginning of the year, together with the net imporits of cotton, the amount of cotion ginned, and the quantity of linters produced during the 12 -month period.

The statistics indicating the distribution of the supply show the quantity of cotton used in manufactures during the year, the amount destroyed by fire, that exported, and stocks in the country at the close of the year. The total for stocks held is made up of the quantity in the possession of manufacturers, both in the cotton-growing states and in all other states, that held in independent warehouses and other public storage places, and the estimated amount in the hands
of other holders. As indicated above, the canvass for stocks held was limited to manufacturing establishments and inclependent warehouses and other public storage places.
In order to secure a comprehensive statement of the distribution of the supply of cotton, it is necessary to include an item showing stocks held elsewhere, that is, the quantity of baled cotton in the actual possession of merchants, buyers, cottonseed-oil mills, ginners, transportation companies, and produccrs. The number of these agencies which would have to be convassed to ascertain the actual stocks is very large, although the proportion which these stocks form of the total supply is comparatively small. Furthermore, the time for collecting the data and compiling the statistics is limited. For these reasons it has been deemed inexpedient to canvass such holders. Full consideration, however, has been given to all the factors entering into the situation and the quantity of baled cotton so held has been estimated at 325,000 bales. This quantity, largely cotton from the crop of 1913 held in the state of Texas, while conjectural, is believed to approximate the facts closely.

The supply of cotton for the season of 1912-13, as computed from the stocks at the beginning of the year and the imports and the gimings during the year, falls short by 64,311 bales of the total quantity consumed in manufacture, destroyed by fire, exported, and held as stocks at the ond of the year, and this amount, which is less than one-half of 1 per cent of the total, is accordingly entered in the table undor the heading, "To balance distribution."
It is to be expected that the figures for the total supply as thus computed will not equal those for the total distribution, as numerous conditions affect these data. Among the factors responsible for this difference may be named the following: (1) The inclusion of rebaled samples, commonly called "city crop," in the statistics of distribution; (2) the lack of uniformity on the part of manufacturers and others in returning stocks; and (3) an understatement by ginners and delinters of the quantity of cotton produced, due largely to their inability to make accurate estimates, at the time of the March canvass, of the quantity of cotton remaining to be ginned and of linters to be obtained from reginning cotton seed. It is impossible to state with any degree of accuracy how much any one or all of these factors contribute to the difference. The amount due to oach no doubt varies in different seasons, but a considerable part of the difference between the figures for supply and those for distribution will always be attributable to the first-named cause. Between the time a bale of cotton lentes the ginnery and the time it reaches the consumer it is "sampled" a number of times-that is, small quantities of the fiber are extracted from the bale by suc-
cessive bidders for use in determining its grade and value. These samples, with other cotton from time to time separated from the original package, are rebaled, and the bales are counted in the statistics of exports, consumption, and stocks. Statistics of supply based upon an enumeration of the bales at the ginneries before any samples have been removed show, therefore, a smaller number of bales than the statistics of exports, consumption, and stocks on hand combined, although there is present in each case the same amount of cotton. The amount of this rebaled cotton varies in different seasons with the size of the crop and other conditions.

Where bales are mentioned in this report without the standard of weight being given, it will be understood that the quantities are expressed in rumning bales, counting round bales as half bales, that linters are included, and that foreign cotton has been reduced to equivalent 500 -pound bales.

## IMPORTS OF COTTON.

Practically the entire quantity of cotton consumed in the United States is produced in the country, the imports being a negligible quantity. In Table 2 statistics of the not imports of raw cotton, by countries from which imported, are shown for 1895 and 1900, and for each year from 1905 to 1913, inclusive.

Table 2.-Net imports of raw cotton, by countries from which imported, for the year ending August 31, for specified years: 1895 to 1913.

| YEAR. | NET IMDORTS OF RAW COTTON (EQUIVALENT 500POUND BALES). |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total. | Imported from- |  |  |  |
|  |  | Egypt. | United Kingdom. | Peru. | All other countries. |
| 1913. | 225, 460 | 182, 238 | 8,071 | 10,300 | 24, 851 |
| 1912. | 229,268 | 175, 835 | 27,049 | 9, 201 | 17,183 |
| 1911. | 231,191 | 183, 786 | 9,717 | 10,221 | 27,467 |
| 1910. | 151,395 | 102, 217 | 19,435 | 12, 076 | 17, 667 |
| 1909. | 165,451 | 124,985 | 15,722 | 13,508 | 6,236 |
| 1908 | 140, 869 | 120,187 | 13,741 | 5,586 | 1,355 |
| 1907. | 202,733 | 109,731 | 22, 493 | 8,564 | 1,945 |
| 1006. | 133,464 | 103,669 | 20, 176 | 7,440 | 2, 179 |
| 1005. | 130,182 | 108, 283 | 14,723 | 5, 941 | 1,235 |
| 1900. | 134,778 | 106, 166 | 21,810 | 5,116 | 1, 688 |
| 1895. | 99, 399 | 59,864 | 36, 213 | 2,335 | 987 |

The total quantity of cotton imported into the United States during the year ending August 31, 1913, amounted to 227,645 bales of 500 pounds each. Of this cotton the equivalent of 2,185 bales of 500 pounds each was reexported, leaving in the country 225,460

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$$

bales. During the past year monthly reports were published regarding the quantity of cotton imported, giving the country of production. The following table summarizes the statistics for each month.

Table 3.-Totalimports of cotton, by countries of production, for cach month from September, 1912, to August, 1913, inclusive.

| MONTH. | imports of foreign cotron (equivalent 500POUND BALES.) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total. | Produced in- |  |  |  |  |  |
|  |  | Egypt. | China. | Para. | India. | $\begin{aligned} & \text { Max- } \\ & \text { ico. } \end{aligned}$ | AII <br> other <br> coun- <br> tries. |
| I'otal for year ending Alug. 31, 1013......... | 227,645 | 101,075 | 18,341 | 10,737 | 4,373 | 756 | 2,363 |
| September. | 8,930 | 7,710 | 106 | 680 | 433 | 21 | 30 |
| October. | 10,571 | 6,522 | 3,042 | 567 | 345 | 58 | 37 |
| Novomber. | 0,452 | 7,005 | 471 | 867 | 151 | 3 | B5 |
| Decembar. | 24,846 | 21,548 | 1,730 | 1,481 |  | 72 | 15 |
| Jantary ......... | 52,022 | 47,098 | 3,132 | 1,580 | 44 | 160 | 8 |
| Tobruary | 34,039 | 29,889 | 2,457 | 1,367 |  | 316 |  |
| March. . | 27,889 | 23,028 | 1,051 | 946 | 2,505 | 97 | 202 |
| April. | 20,770 | 16, 377 | 3,082 | 797 |  |  | 520 |
| May.. | 13,820 | 11,764 | 518 | 401 | 1 |  | 1,076 |
| June. | 8,019 | 6,622 | 617 | 572 |  |  | 208 |
| Jaly. | 9,496 | 7,040 | 1,303 | 900 | 80 |  | 158 |
| August. .......................... | 7,785 | 5,553 | 832 | 557 | 814 | 29 | ...... |

Nearly all of the cotton imported is produced in Egypt, 191,075 bales, or 83.9 per cent of the total, being of this origin. This cotton is used largely for mercerizing and in the manufacture of thread, knit goods, and machine lace. Chinese cotton was next in importance as regards quantity imported during the year, the amount being 18,341 bales, while Peruvian cotton, which, on account of its texture and appearance, is uscd for mixing with wool in the manufacture of woolen goods, ranked third, with 10,737 bales, and Indian cotton fourth, with 4,373 bales. Small quantities of cotton were also imported from a number of other countries, among which are Mexico, Santo Domingo, Haiti, Venezuela, Ecuador, and Colombia.

## COTTON MANUFACTURING IN THE UNITED STATDS.

Table 4 presents comparative statistics by states for the years 1909 to 1913 as to the number of cotton spindles, both total and active, the number of spindles consuming cotton mixed with other fibers, the quantity of domestic and foreign cotton consumed during the year ending August 31, and the quantity of domestic and foreign cotton held in manufacturing establishments on that date.

TABLE 4.-SPINDLES, RAW COTTON CONSUMED, AND STOOKS HELD IN MANUFACTURING ESTABLISHMENTS, BY STATES: 1909 TO 1913.
[Quantities of cotton are given in ruming bales, excopt that round bales are counted as balf bales and foreign cottonin equivalent 500 -pound beles. Linters are included.]


Tabla 4.-SPINDLES, RAW COTTON CONSUMED, AND S'OCKS HELD IN MANUFAOIURING ESTABLISHMENTS, BY STATES: 1909 TO 1913-Continued.
QQuantities of cotton are given in ruming bales, except that round bales are counted as half bales and forelgn cotion in equivalent 600 -pound bales. Linters are included.]

| state. | $\left\|\begin{array}{c\|} \text { Year } \\ \text { ending } \\ \text { August } \\ 31- \end{array}\right\|$ | cotron spindles. 1 |  | Spindlesconsum-ing cottonmixedwithotherfibers. | cotton consumed (bames). |  |  | stociss in manufacturing establishments at end of ytear (bales). |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total. | Active. |  | Total. | Domestic. | Foreign. | Total. | $\begin{aligned} & \text { Domes- } \\ & \text { tic. } \end{aligned}$ | Foreign. |
| Mismouri. | 1913 | 31,920 | 31,920 |  | 21,863 | 21,863 |  | 4,580 | 4, 580 |  |
|  | 1912 | 31,840 | 31, 840 | 4,059 | 19, 868 | 10,804 | 4 | 2,926 | 2,920 |  |
|  | 1911 | 30,744 30744 37 | 30,744 <br> 30,744 | 4,059 | 16,244 | 16,236 | 8 | 1,857 | 1, 856 | i |
|  | 1909 | 27,776 | -37,776 | 2,500 | 15,38 10,711 | 16,74 | 24 | 1,991 2,289 | I, ${ }^{1}$, 2898 | 2 |
| Now Hampshire. | 1913 | 1, 469, 137 | 1,458, 115 | 28,728 | 305, 807 | 295, 635 | 10,232 | 68,412 | 63, 207 | 5,205 |
|  | 1912 | 1,453,778 | 1,445, 161 | 33,436 | 295, 005 | 287, 250 | 7,845 | 78, 138 | 74,949 | 3,180 |
|  | 1911 | 1,462,788 | 1, $1,414,423$ | 29,237 | 259, 458 | 250,805 | 8,593 | 47, 113 | 43,489 | 4, 124 |
|  | 1909 | 1,313,581 | 1,313, 1,357 | 44,897 | 278,457 | $\stackrel{260,055}{275,015}$ | 5,440 3,442 | 30,145 <br> 91,084 | 30,201 90,720 | 2,884 |
| New Jersoy.............................................. | 1913 | 470,731 | 476,73.1 | 10,320 | 64,912 | 46, 103 | 18,809 | 17,012 | 7,229 | 0,783 |
|  | 1912 | 488, 170 | 466, 617 | 10,320 | 62, 4330 | 47,315 | 15, 118 | 17, 681 | 6,997 | 10, 6884 |
|  | 1911 1910 | 483,057 463,403 | 471, 4121 | 10,068 | 53, 509 | 40, 4168 | 13,443 | 18,057 10 | 1, ${ }^{\text {a }}$, 89 | 8, 408 |
|  | 1900 | 460,888 4 | 415,408 44510 | 27,304 | 52,853 52,416 | 38,534 38,458 | 14,319 14,058 | 10,147 15,395 | 6,161 7,399 | 3,986 7,906 |
| New York............................................... | 1913 | $956,505$ | 922, 341 | 60,907 | 227,813 | 224, 786 | 3,027 | 23,006 | 22,704 | 302 |
|  | 1012 | 925,576 | 833, 670 | 67,005 | 205,191 | 202,545 | 2, 2446 | 30, 166 | 29, 675 | 491 |
|  | 1911 1910 | 963,969 970,445 | 905,264 962,841 | 83,400 | 182,068 109,787 | 179,789 195,875 | 2,279 3,912 3 | 16,962 14,586 | 21, 14,520 14,042 | 442 |
|  | 1909 | 942,521 | 931, 525 | 103,330 | 1218,780 | 215,069 | 3,912 3,711 | 14,586 31,384 | 14, 30,42 30 | ${ }_{957}^{544}$ |
| North Carolima. | 1913 | 3,593,099 | 3,505, 261 | 5,360 | 876,359 | 867,831 | 8,528 | 60,575 | 67, 230 | 2,839 |
|  | 1912 | 3, 403,996 | 3,337,253 | 0,700 | 824, 1776 | 810,297 | 8,170 | 83,040 | 81,220 | 1,820 |
|  | 1911 | $3,353,706$ $3,062,061$ | $3,216,195$ $2,958,235$ | 6,160 | 696,987 658,498 | 691,317 605,058 | 5,670 3,440 3,20 | 27,127 31,080 | $2.5,497$ 30,516 316 | 1, 630 |
|  | 1909 | 3,010,367 | 2, 2344,124 | 5,452 | 756, 677 | 753,460 | 3,217 | 52, 188 | 51,773 | 415 |
| Ohio..................................................... | 1913 | 240 | 240 | 17,240 | 38,450 | 38,352 | 107 | 12,318 | 12,296 | 22 |
|  | 1912 | 240 | 240 | 17,858 | 33,088 | 33,043 | 45 | 10,594 | 10, 687 | 7 |
|  | 1011 |  |  | 17,512 | 26,326 | 26, 300 | 20 | 9,079 | 0,077 |  |
|  | 1909 |  |  | 10,500 | 28,304 28,222 | 28,377 28,221 | 17 1 | 7,980 10,633 | 7,589 10,632 |  |
| Oblahoma.............................................. | 1913 |  |  |  |  |  |  |  |  |  |
|  | 1912 | 6,712 | 5,712 5,72 | . | 9,788 | 7,7888 | ....... | 772 | 772 365 |  |
|  | 1911 | 6,712 | 6,712 |  | 6,774 | 6,774 |  | 431 | 431 |  |
|  | 1910 | 5,756 | 5,750 |  | 6,397 | 0, 397 |  | 930 | 930 |  |
|  | 1909 | 5,712 | 5,712 |  | 5,269 | 5,269 |  | 564 | 564 |  |
| Pennsylvania. |  |  | 242,053 | 140, 665 | 76,579 | 72,562 | 4,017 | 10,858 | 10,414 | 444 |
|  | 1912 | 265, 715 | 246, 477 | 146, 208 | 69,887 | 65, 871 | 4,010 | 13, 159 | 11,945 | 1,214 |
|  | 1011 | 280, 202 | 264, 120 | 120,031 | 67,217 | 63, 008 | 4,289 | 8,745 | 8,308 | 437 |
|  | 1910 1900 | 297, 799 275,654 | 278, 304 <br> 204 <br> 187 | 120,037 | 66,885 80,541 | 62,298 75,381 | 4,587 5,157 | 8,288 12,431 | 7,682 11,071 | 606 1,360 |
| Rhode Island............................................ | 1913 | 2,533,380 | 2,464,790 | 3,340 | 239, 060 | 213,696 |  |  |  |  |
|  | 1912 | 2, 5252,743 | 2, 458,650 | 6, 424 | 229, 315 | 208,685 | 20, 080 | 70,339 <br> 8 | 69,7070 | 8,880 8,625 |
|  | 1011 | 2, 520, 995 | 2, 499,175 | 5,364 | 218, 1134 | 196, 330 | 21, 198 | 40,315 | 41,378 | 7,937 |
|  | 1910 | 2, 412, 272 | 2,371,777 | , | 219, 020 | 200,583 | 19,337 | 50,069 | 45, 630 | 4,439 |
|  | 1909 | 2,399,440 | 2,361,069 | 7,340 | 230, 425 | 209,810 | 20,600 | 77,815 | 60,895 | 7,920 |
| South Carolina. | 1913 | 4,536,353 | 4, 409, 886 | 1,400 | 775, 851 | 773,759 | 2,093 | 59,088 | 58,859 | 1,099 |
|  | 1912 | 4, 327, 178 | 4,272,508 | 1,892 | 731, 318 | 728,505 | 2,813 | 66, 550 | 65, 273 | 1,277 |
|  | 1911 | 4, 187,317 | 4,008, 62.1 | 2,700 | 618, 608 | 615,685 | 3,013 |  | 22, 60.1 | 2,468 |
|  | 1910 | $3,883,901$ $3,819,149$ | $3,760,891$ $3,715,894$ |  | 627,708 696,462 | 625, 025 | 2,083 2,75 | 33,955 53,149 | 33, 354 | ${ }^{401}$ |
|  |  | 3,819, 149 | 3,715,894 |  | 696, 462 | 693,687 | 2,775 | 53, 149 | 52,820 | 323 |
| Tennossce. | 1913 | 271,634 | 269, 102 |  | 81,790 |  | 8 | 11,280 | 11,280 |  |
|  | 1912 | 254,278 253,460 | 247,474 238,650 | 17,396 15,748 | 73,441 70,147 | 73,395 70,104 | 40 43 | 8,835 <br> 4,900 | 8,835 4,880 | 20 |
|  | 1910 | 272,774 | 250,550 |  | 70, 229 | 70,217 | 42 | 5, ${ }_{\text {4, }}^{510}$ | 4, ${ }_{6} \mathbf{4}, 680$ | 20 |
|  | 1909 | 272,856 | 253,762 | 25,828 | 69, 053 | 69,053 |  | 9,052 | 0,052 |  |
| Toxas. | 1913 | 123,808 | 110,320 |  | 58, 354 | 58,354 |  | 5,789 | 5,780 |  |
|  | 1912 | 114,352 |  |  | 51,820 |  |  |  |  | …….... |
|  | ${ }_{1} 1911$ | 113,100 108,778 | 90,998 100,854 |  | 41,310 39,052 3 | 41,310 30,052 |  | 2,431 1,723 | 2,431 | ......... |
|  | 1900 | 108,768 | 100,854 98,604 |  | 39,052 <br> 42,210 | 30,052 42,210 |  | 1,723 3,097 | 1,723 |  |
| Vermont.. | 1913 | 136,304 |  |  |  |  |  |  |  |  |
|  | 1912 | 136, 892 | 116, 304 | 10,504 | 10, 688 | 0,845 | ${ }^{1} 743$ | 2,446 | 2,041 | 405 |
|  | 1911 | 105, 276 | 105, 276 | 11, 152 | 8,669 | 8,147 | 522 | 834 | 55.3 | 281 |
|  | 1910 | 105, 184 | 91, 712 |  | 10,441 | 9,721 | 720 | ${ }^{647}$ | 519 | 128 |
|  | 1909 | 105, 184 | 105,18. | 16, 152 | 10,210 | 9, 617 | 593 | 1,912 | 1,679 | 233 |
| Virginia. | 1913 |  |  |  |  |  |  |  |  |  |
|  | 1912 | 414, 148 | 407,548 | 2,128 | 86, 177 | 80, 177 |  | 7,831 | 7,831 | .......... |
|  | 1911 | 372, 816 | 357,816 | 3,308 | 77,702 | 77,700 | 2 | 4,770 | 4, 770 |  |
|  | 1.910 | 329, 174 | 324,542 |  | 70,689 | 70,0.057 | 32 | 4,154. | 4,154 |  |
|  | 1909 | 315, 676 | 311, 644 | 4,018 | 84, 176 | 84, 176 |  | 6, 404 | 6,494 |  |
| Wisconsin. | 1913 | 2,100 | 2,160 | 2,304 | 10,239 | 10,239 |  | 1,821 | 1,821 |  |
|  | 1912 | 2,112 | 2,112 | 2,304 | 8,979 | 8,979 |  | 1,591 | 1,591 |  |
|  | 1911 | 13,920 | ${ }_{1}^{1,1220}$ | 1,968 | 7,639 | 77,635 | 17 | 1,475 | 1,475 | $\stackrel{\square}{1}$ |
|  | 1900 | -13,612 | 2,112 | 4,104 | 7,401 | 7,384 0,097 | $\begin{array}{r}17 \\ 8 \\ \hline\end{array}$ | 1,914 | 1,907 | $\stackrel{2}{1}$ |
| All other states. | 1913 |  |  |  |  |  | 269 |  |  |  |
|  | 1912 | 7,360 | 7,360 | 13, 116 | 24,618 | 24, 403 | 215 | 3,650 | 3,570 | 74 |
|  | 1911 | 7,360 | 7,360 | 12,642 | 22,167 | 22,046 | 121 | 3,790 | 3,780 | 10 |
|  | 1919 | 7,360 7,360 | 7,360 |  | 19,941 | 19,911 | 30 | 4,998 | 4,989 | 9 |
|  | 1909 | 7,360 | 7,360 | 8,136 | 20,954 | 20,944 | 10 | 6,025 | 6,011 | 14 |

Spindles.-The term "cotton spindles" is applied only to those designed primarily for spinning cotton, regardless of the character of the establishments in which located, and does not include those which consumed a mixture of cotton with other fibers. The number of cotton spindles returned as having been operated in the United States during the year ending August 31, 1913, as shown in Table 4, was 31,519,766, exceeding the number for the previous year by 941,238 ; or 3.1 per cent. In 1913, 629,851 spindles were returned as idle and as having consumed no cotton whatever during the year, as compared with $1,004,151$ in 1912; this reduction indicates an improved condition of the industry. Of the idlo cotton spindles reported in 1913, 208,301 were in plants not operated during the year and 421,550 in mills. which consumed some cotton. The number of idle spindles included a small number of new spindles which had been installed before the close of the year but which had not been brought into service.

In the total number of cotton spindles, Massachusetts exceeds every other state, having 11,075,684, or 34.5 per cent of the total for the United States in 1913; South Carolina ranks second, with $4,536,353$, or 14.1 per cent; North Carolina, third, with $3,593,099$ spindles, or 11.2 per cent; Rhode Island, fourth; Georgia, fifth; New Hampshire, sixth; Connecticut, seventh; Maine, oighth; and Alabama, ninth. No other state reported as many as a million spindles. The states showing the largest gains during the year were South Carolina, North Carolina, and Georgia in the order named, the total gain for the three states representing 84.1 per cent of the net gain for the United States. Indiana, Kansas, New Jersey, Pennsylvania, Rhode Island, and Vermont all show losses in the total num-
ber of spindles, although there was no loss in active spindles in these states considered together. The losses in total number of spindles were due in some of these states to the dismantling of establishments which were idle the preceding year. Table 27, page 39, gives the total spindle capacity of all counties in the United States having more than 100,000 cotton spindles each, while on map 2, page 38, is indicated the classification of each county in the eastern part of the country according to the number of cotton spindles.
In addition to the spindles designed primarily to spin cotion, 454,733 spindles were returned in 1913 as having consumed raw cotton mixed with other fibers during the year. The corresponding numbers in 1912, 1911, and 1909 were $500,206,456,242$, and 558,792 , respectively. The variation in the number of spindles so used is due to the fact that, in some establishments, spindles employed during one year in spinning cotton mixed with some other fiber use no raw cotton whatever during another year. The states reporting the largest numbers of spindles that consumed raw cotton mixed with other fibers are those which lead in the manufacture of woolen goods and of hosiery and knit goods. Of the total number of such spindles reported, 140,665 , or 30.9 per cent, were returned from Pennsylvania; 60,907, or 13.4 per cent, from New York; 53,456 from Massachusetts; and 45,998 from Connecticut.
Ring and mule spindles.--Tnasmuch as ring spindles consume about 50 per cent more fiber per spindle than mule spindles, it is interesting to know the number of each kind in use. The following table shows, by states, the number of active ring and mule cotion spindles in the United States in 1904, 1909, 1912, and 1913.

TABLE 5.-NUMBER OT AOTIVE RING AND MULE COTTON SPINDLES, BY STATES, FOR SPECIFTED YEARS: 1904 TO 1913.

| SIATE. | number of agive cotron spindles. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1018 |  |  | 1912 |  |  | 1909 1 |  |  | 1904 |  |  |
|  | Total. | Ring. | Mule. | Total. | Ring. | Mule. | Total. | Ring. | Mule. | Total. | Ring. | Hule. |
| United States. | 31, 519, 766 | 27,380,573 | 4,139,193 | 30,578, 628 | 26,211,979 | 4,366,549 | $28,178,862$ | 23,256, 023 | 4, 022,830 | 23, 672, 064 | 18,218, 800 | $5,459,264$ |
| Alabama | -993,580 | 986, 180 | 7,400 | 960, 410 | 952,216 | 8,200 | 913, 503 | 909,587 | 3,916 | 772, 727 | 765, 727 | 7,000 |
| Connecticu | 1,276,832 | 857,836 | 418,900 | 1,249, 503 | 847,184 | 402, 459 | 1,276, 416 | 832,830 | 446,586 | 1,208, 715 | 715, 739 | 492,97B |
| Georgia. | 2,071,010 | 2,020, 080 | 51,830 | 1,945, 772 | 1,877,088 | 68,734 | 1,774,967 | 1,703,071 | 71,896 | 1,331,557 | 1,254, 885 | 76,62 |
| Illinois | 50, 957 | 36, 824 | 14, 133 | 48,444 | 32,444 | 16,000 | 39,240 | - 23,240 | 16,000 | - 32,000 | 16, 000 | 16,000 |
| Indiana | 90, 032 | 90, 032 |  | 91,656 | 91,656 |  | 124, 104 | 115,152 | 8,952 | 129,292 | 104, 424 | 24,868 |
| Kontucky | 94,0936 | 78, 416 | 16,520 | 92, 424 | 75,504 | 16,920 | 85, 044 | 68,124 | 16,920 | 81,302 | 57, 572 | 23,520 |
| Louisiant. | 36, 683 | 34, 427 | 2,256 | 36,676 | 34, 420 | 2,256 | 67,902 | [33, 006 | 4,806 | 62,052 | 66, 552 | 5,503 |
| Maine. | 1,078,394 | 985, 408 | 92,086 | 1,047,466 | 936,570 | 110,890 | 1, 028, 680 | 867,364 | 161,316 | 897, 422 | 673, 698 | 223, 224 |
| Maryland. | 154,215 | 154,215 |  | 10, 128, 546 | - 128,546 |  | 133,302 | 133,302 |  | 136,456 | 136, 456 | 223, |
| Massachusetis | 10,904,016 | 8,909, 019 | 1,994, 997 | 10, 822, 771 | 8, 724,925 | 2,007,846 | 9,637,601 | 7,430,902 | 2,156,609 | 8, 580, 671 | 6, 177, 227 | $2,42,44$ |
| Mississippi | 133,788 | 133,788 |  | 132,766 | 132, 766 |  | 159,904 | 159,104 | 800 | 128, 852 | 128, 852 |  |
| Missouri... | 31,920 | 31,480 | 440 | 31,840 | 31, 400 | 440 | 30,744 | 30,304 | 440 | 14,101 | 14, 101 |  |
| Now Hampshire. | 1,458, 115 | 1,386,912 | 71,203 | 1,445, 161 | 1,366,360 | 78, 801 | 1,325,900 | 1, 109,850 | 156,050 | 1, 304, 476 | 1,083, 721 | 270,750 |
| New Jersey..... | 476, 731 | 195, 815 | 280,916 | 466, 617 | 191,880 | 274, 737 | 1, 420, 784 | 107,381 | 413, 403 | - 436,764 | 87,900 | 348, 804 |
| Now York.. | 922,341 | 724,716 | 197, 025 | 833, 670 | 637, 500 | 196, 170 | 962,841 | 547,512 | 415,320 | 780,520 | 364, 304 | 425,216 |
| North Carolina | 3, 565, 261 | 3,486, 085 | 79, 176 | 3,337,253 | 3,268,573 | 68, 680 | 2,058,235 | 2, 888, 453 | 71,782 | 1,916,339 | 1,836,315 | S0, 024 |
| Pennsylvania. | 242,053 | 142,990 | 090, 057 | 246,477 | 135,780 | 110,717 | 278,307 | 139,062 | 139, 245 | 280,907 | 1, 146,396 | 134, 311 |
| Rhode Island. | 2, 464, 790 | 1,685, 672 | 773, 118 | 2, 458, 050 | 1,577,237 | 881, 413 | 2,371,777 | 1, 496, 434 | 875,343 | 2,086, 802 | 1,276,564 | 800,288 |
| South Carolina | 4, 469,880 | 1,461,923 | 7,960 | 4,272, 598 | 4,268,618 | 3,980 | 3,760,891 | 3,732, 063 | 28,828 | 2,876,706 | 2,860, 884 | 15,912 |
| Tennessee. | 260, 102 | 258, 022 | 11,080 | 247, 474 | 235, 674 | 11, 800 | 247, 530 | 237,530 | 10,000 | 163,903 | 153, 903 | 10,000 |
| Texas. | 110,320 | 110,320 |  | 97,556 | 97, 556 |  | 97,628 | 97,628 |  | 68,170 | 68,170 |  |
| Vermont | 129,304 | 119, 104 | 10,200 | 116,304 | 106, 104 | 10,200 | 91, 712 | 75, 872 | 15,840 | 108, 028 | 80, 312 | 27,716 |
| Virginia. | 426,920 | 420,860 | 0,000 | 407, 548 | 401, 488 | 6,060 | 324,542 | 316,970 | 7,572 | 201, 090 | 194, 006 | 7,081 |
| All other staies. | 67,680 | 67, 440 | 240 | 60,850 | 60, 610 | 240 | 64,308 | 03, 192 | 1,116 | 55, 032 | 55,032 | 7,181 |

Of the $31,519,766$ active cotton. spindles in the United States reported for 1913 only 4,139,193, or 13.1 per cent, were mule spindles. This compares with $4,366,549$, or 14.3 per cent, in 1912 ; $4,922,839$, or 17.5 per cent, in 1909; and 5,453,264, or 23 per cent, in 1904, showing a continuous decrease not only in the actual number but also and to a greater degree in the relative number. The tendency to displace mules with frames shows no diminution, as, during the past year, a number of establishments have followed this practice. Because of the ease with which ring spincles can be operated, manufacturers use frames rather than mules whenever it is practicable; in fact, new mules are seldom installed except when very fine filling yarns, soft-twisted knitting yarns, or very conrse yarns made from short-staple cotion or waste are to be spun. The use of mule spindles is largely confined to the New England States, which reported 81.3 per cent of the total number for the country in 1913, most of the remainder being in New York and New Jersey, only 182,722 being returned for the cotton-growing states. Since some yarns requiring special qualities can not be made satisfactorily by the use of ring spindles, there will always be a demand for mule spindles unless difficulties heretofore met with in the use of ring spindles can be overcome.

Cotton consumed.-The statistics for cotton consumed, presented in Table 4, cover all establishments reported as using raw cotton or linters, including those which use this raw material in the manufacture of
mattresses, batting, felts, and other articles, together with cotton mills, woolen mills, and knitting factories. The figures are expressed in running boles, except that round bales are counted as half bales and that foreign cotton has been reduced to equivalent 500 -pound bales. The quantity of cotton consumed in the United States during the year ending August 31, 1913, was $5,786,330$ bales, compared with $5,367,583$ bales in 1912, 4,704,978 bales in 1911, 4,798,953 bales in 1910, and $5,240,719$ bales in 1909. It is the largest amount ever consumed in a single year, being 418,747 bales larger than that in 1912, the next largest, and 545,611 bales larger than that in 1909, the third largest.
The average weekly consumption of cotton in the United States during the past year amounted to about 111,000 bales, compared with 103,000 bales in 1912, 90,000 in 1911, 92,000 in 1910, and 101,000 in 1909.
Massa chusetts, with 1,332,912 bales, leads all the o ther states in the quantity of cotton consumed; North Carolina, with 876,359 bales, is second; South Carolina, with 775,851 bules, third; and Georgia, with 648,131 bales, fourth. The largest actual increase in the annual consumption of cotton shown for the period covered by the table is in the cotton-growing states. The consumption in North Carolina increased from 756,677 bales to 876,359 bales, or 15.8 per cent; in South Carolina, from 696,462 bales to 775,851 bales, or 11.4 per cont; and in Georgia, from 540,818 bales to 648,131 bales, or 19.8 per cent.

Map 1.-CLASSIFICATION OF STATES ACCORDING TO THE QUANTITY OF COTTON CONSUMED: 1913.


In considering the gains shown for the period it should be borne in mind that 1909 was a year of exceptional activity and was marked by a larger consumption than any previous year or either of the two years following. A further consideration in this connection is the increase in the spinning of finer counts in this section of the country.

The importance of the different states as regards the quantity of cotton consumed during the year ending August 31, 1913, is indicated on map 1. On this map the states are classified according to the quantity of cotton and linters consumed, not only in cotton mills, but in all branches of manufacture. It shows those which consumed less than 10,000 bales each; those which consumed from 10,000 to 25,000 bales each; those which consumed from 25,000 to 50,000 bales each; those which consumed from 50,000 to 100,000 bales each; those which consumed from 100,000 to 200,000 bales each; those which consumed from 200,000 to 500,000 bales each; and those which consumed more than 500,000 bales.

Finds of cotton used. -The statistics as to raw cotton consumed and stocks held in manufacturing establishments for 1911, 1912, and 1913, which are presented in Table 4 and which include both domestic and foreign cotton, are segregated in Table 6 so as to show the consumption of the different kinds of cotton and the amount of each kind held in manufacturing establishments for the United States as a whole and for the group of cotton-growing states and the group of all other states separately.
Table 6.-Quantity of the several kinds of raw cotton consumed and of stocks held in manufacturing establishments: 1911, 1912, and 191 .
[Quantities are givon in running balos, oxcept that round bales are countod as half bales and foreign cotton in equivalent 000 -pound bales. Linters are included.]

| KIND AND locality. | RAW COTTON CONBUMED DUR-ING YEAR ENDING AUGUST 31 (baleg). |  |  | stocks held mandufacturing establighments on august 31 (Balis). |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1913 | 1912 | 1911 | 1913 | 1912 | 1911 |
| United States... | 5,786,330 | 5,367, 583 | 4,704,978 | 778, 158 | 870,646 | 542,191 |
| Domostic- | $\begin{array}{r} 5,195,6144 \\ 54,778 \\ 303,009 \end{array}$ | $\begin{array}{r} 4,820,827 \\ 94,850 \\ 238,237 \end{array}$ | $\begin{array}{r} 4,253,750 \\ 94,237 \\ 206,561 \end{array}$ | $\begin{array}{r} 619,200 \\ 18,525 \end{array}$ | 709,49523,753 | $\begin{array}{r} 398,065 \\ 19,280 \\ 43,422 \end{array}$ |
| Soa-isiand |  |  |  |  |  |  |
| Linters.. |  |  |  | 60,454 | 52, 622 |  |
| Toroign- | $\begin{array}{r} 201,269 \\ 10,341 \\ 2,412 \\ 18,907 \end{array}$ | $\begin{array}{r} 180,465 \\ 8,539 \\ 6,842 \\ 11,817 \end{array}$ | $\begin{array}{r} 147,192 \\ 8,903 \\ 9,793 \\ 9,542 \end{array}$ | $\begin{array}{r} 70,859 \\ 1,844 \\ 673 \\ 7,403 \end{array}$ | $\begin{array}{r} 7,029 \\ 1,482 \\ 3,406 \\ 2,459 \end{array}$ | $\begin{array}{r} 70,678 \\ 1,45 \\ 3,909 \\ 5,381 \end{array}$ |
| Peruvian. |  |  |  |  |  |  |
| Indian. |  |  |  |  |  |  |
| Other. |  |  |  |  |  |  |
| Cotton-g rown ing states... | 2,900,518 | 2,712,223 | 2,328,487 | 234,509 | 241,611 | 101,114 |
| Domestic- | $\begin{array}{r} 2,834,732 \\ 12,690 \end{array}$ | $\begin{array}{r} 2,609,309 \\ 11,112 \end{array}$ | 2,230,225 7 | $\begin{array}{r}210,883 \\ 2,664 \\ \hline 15\end{array}$ | 224,7301,91011 | 83, 103 |
| Sea-islaud... |  |  |  |  |  |  |
| Linter.. | 98,775 | 76,345 | 79,352 | 15,325 | 11,508 | 11,980 |
| Foreign- | 10,051 | 12,557 | 6,578 | 4,053 | 2,707 | 4,644 |
| Peruvian |  |  |  |  |  |  |
| Indian.. | $\begin{array}{r}\text { 475 } \\ \begin{array}{r}4,783 \\ 2,825,812\end{array} \\ \hline\end{array}$ | $\begin{array}{r} 285 \\ 2,555 \\ 2,655,360 \end{array}$ |  | $\begin{array}{r} 353 \\ 1,227 \\ 543,649 \end{array}$ | $\begin{array}{r} 48 \\ 680 \\ 629,035 \end{array}$ | $\begin{array}{r} 222 \\ 510 \\ 441,077 \end{array}$ |
| Other... |  |  |  |  |  |  |
| All otherstates.. |  |  |  |  |  |  |
| Dombstie- | $\begin{array}{r} 2,360,882 \\ 4,82 \\ 204,234 \end{array}$ | $\begin{array}{r} 2,217,458 \\ 83,744 \\ 161,802 \end{array}$ | $\begin{array}{r} 2,028,525 \\ 56,250 \\ 127,209 \end{array}$ | $\begin{array}{r} 408,317 \\ 15,871 \\ 45,129 \end{array}$ | $\begin{array}{r} 484,765 \\ 21,837 \\ 41,114 \end{array}$ | $\begin{array}{r} 314,962 \\ 18,625 \\ 31,442 \end{array}$ |
| Sonisland. |  |  |  |  |  |  |
| Linters. |  |  |  |  |  |  |
| Foreign- | $\begin{array}{r} 191,218 \\ 10,335 \\ 1,937 \\ 15,124 \end{array}$ | $\begin{array}{r} 167,908 \\ 8,539 \\ 6,557 \\ 9,262 \end{array}$ | $\begin{array}{r} 140,614 \\ 8,903 \\ 7,701 \\ 7,289 \end{array}$ | $\begin{array}{r} 66,800 \\ 1,8040 \\ 3,20 \\ 6,176 \end{array}$ | $\begin{array}{r} 74,262 \\ 1,482 \\ 3,802 \\ 1,773 \end{array}$ | $\begin{gathered} 60,034 \\ 1,466 \\ 3,467 \\ 4,871 \end{gathered}$ |
| Poruvian. |  |  |  |  |  |  |
| Indian. |  |  |  |  |  |  |
| Other. |  |  |  |  |  |  |

Of the total consumption of cotton in the United States during the year ending August 31, 1913, 5,195,614 bales were upland, 54,778 bales sea-island, 232,929 bales foreign, and 303,009 bales linters. In the cottongrowing states the consumption was $2,960,518$ bales, and in all other states $2,825,812$ bales, 1913 being the second consecutive year in which the consumption in the cotton-growing states has exceeded that in all other states.

Nearly all of the cotton consumed in the United States is domestic upland cotton. The term "upland" is applied to all cotton produced in this country except sea-island cotton and linters, and includes the longstaple varieties which are constituting a larger proportion of the total production than formerly. The manufacturers in the cotton-growing states use very littlo sea-island or foreign cotton, having consumed only 27,011 bales of both linds combined in 1913. In all other states the consumption of foreign cotton amounted to 218,614 bales, and of sea-island 42,082 bales. More than one-half of the sea-island cotton consumed in the United States was reported from Massachusetts and Rhode Island. North Carolina, New Jersey, and Georgia follow in the order of quantity used. Establishments engaged in the manufacture of thread and those which spin yarns designed for that purpose report the largest consumption of this kind of cotton.

A very large proportion of the foreign cotton consumed in the United States is Egyptian. In this country it is used principally for mercerizing and for other processes that give a high finish to cloth; in the manufacture, without dyeing, of balbriggan underwear and lace curtains in which the écru shade is desired; and in the manufacture of sewing thread and other similar articles which require a long fiber of great strength and for which no other type of cotton except sea-island has yet proved suitable. Egyptian cotton is said to be freer from trash and short fibers than American cotton, and for this reason, to yield less waste in combing and carding. Rough Peruvian cotton is used, to some extent, for mixing with wool in the making of woolen textiles, while Indian and Chinese cotton are used, to a very limited extent, for mixing with the American upland cotton in the manufacture of the cheaper grades of goods.
"Linters," the short fiber obtained by the cottonseed oil mills from reginning cotton seed before extracting the oil, enters into many lines of manufacture in which otherwise it would be necessary to use a better grade of cotton. It is used in upholstering and in the manufacture of mattresses, comforts, bating, cushions, wadding, and pads; for mixing with shoddy and for making low-grade yarns, wrapping twine, cheap rope, and lamp and candle wicks; for making absorbent cotton; and in the manufacture of gun cotton, niter powder, and writing paper. In the United States the greatest quantity is consumed in the
manufacture of mattresses, felts, and batting. The quantity of this cotton consumed during the year was 303,009 bales, compared with 238,237 bales in 1912, and 206,561 in 1911.

Growth of the cotton industry since 1840.-TTable 7 shows the production and consumption of cotton in the United States and the number of active sotton spindles for specified years from 1840 to 1913.

TABLI 7.-PRODUOTION AND CONSUMPTION OF COTTON AND NUMBER OF AOTIVE COTTON SPINDLES IN THE UNITED STATES, BY SEOTIONS, FOR SPECIFIED YEARS: 1840 TO 1913.
[The quantities are given in running bales, except those for production in 1880, 1800, and 1870, which are in equivalent 400-ponnd bales, and those for consumptiom from gales, except those for production in 180,1860 , and 1870 , which are in equivalent top-pound bales
1840 to 1870 , and for foreign cotton which are in equivalent 500 pound bales. Linters are included.]

| year. | $\begin{gathered} \text { Cotton } \\ \text { produced } \\ \text { (balos). } \end{gathered}$ | Cotton consumed (bales). |  |  |  | active cotton spindles. . |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | United States. | Cottongrowing states. | $\begin{gathered} \text { Now } \\ \text { England } \\ \text { statos. } \end{gathered}$ | All other states. | United States. | Cottongrowing states. | New England states. | All other states. |
| 1013. | 14,000,863 | 5,786,330 | 2,960,518 | 2,210,813 | 614,999 | 31,519,786 | 12,227,223 | 17,311,451 | 1,981,080 |
| 1012. | 16, 109,349 | 5, 367,583 | 2,712, 228 | 2,108,360 | 547,000 | 30, 578,528 | 11, 582,869 | 17, 139,945 | 1, 855,714 |
| 1910. | 10, 1086,209 | 4,70, $4,798,953$ | 2,292,333 | 1,911, ${ }^{1,0162}$ | 405,309 400,234 | $29,522,597$ $28,266,862$ | $11,884,623$ $10,494,112$ | $16,510,981$ $15,735,086$ | - $21,0267,693$ |
| 1909. | 13,432,131 | 5,240,719 | 2,553,797 | 2,144,448 | 542,474 | 28,018, 305 | 10,429,200 | 15,501, 851 | 1, 007,254 |
| 1903. | 11,325,882 | 4, 539,080 | 2, 187,096 | 1, 894, 835 | 457, 159 | 27, 505,422 | 10, 200, 203 | 15, 329,333 | I, 975,186 |
| 1907. | 13, 305,205 | 4,984,936 | 2, 410, 903 | 2,073,355 | 500,588 | 26,375, 191 | 9,527,904 | 14,912,517 | 1, 934,710 |
|  | 10,725, 602 | 4,909, 279 | 2,373,577 | 2,059,000 | 475, 802 | 25, 250,000 | 8, 094,808 | 14, 407,580 | 1,847,648 |
| 1005. | 13,697,310 | 2 4, 278,980 | ${ }^{2} 2,140,151$ | ${ }^{2} 1,753,282$ | 2 385, 547 | 23, 687, 485 | 7,681,331 | 14, 202, 971 | 1,853,193 |
| 1800. | 9,507, 786 | 3, 873, 165 | 1, 523,168 | 1,909,498 | 440 47799 | 19, 472,232 | 4,367, 888 | 13,171,377 | 1,933,167 |
| 1890. | 7, 472, 511 | 2, 518,409 | 538, 805 | 1,502,177 | 477,337 | 14, 38.4, 180 | 1, 570, 238 | 10,934, 297 | 1, 879,595 |
| 1880. | 5,755,359 | ${ }^{8} 1,570,344$ | ${ }^{5} 188,748$ | ${ }^{3} 1,129,498$ | ${ }^{3} 252,098$ | ${ }^{1} 10,603,435$ | ${ }^{8} 501,360$ | ${ }^{\text {a }} 8,632,087$ | $81,459,988$ |
| 1870. | 3,011,996 | 700,018 | 68,702 | 551,250 | 176, 634 | 7,132,415 | 327, 871 | 5, 408, 308 | 1,306,236 |
| 1860 | 5, 387,052 | 845, 410 | 93, 553 | 567, 403 | 184,454 | 5, 233,727 | 324, 052 | 3, 858, 902 | 1, 052, 713 |
| 1850. | ${ }_{2}^{2,469,093}$ | 575,500 | 78, 140 | 430, 403 |  |  | 264,571 | 2,958, 386 | 774,015 |
| 18.10. | 2,063, 915 | 236, 525 | 71,000 | 158,708 | 6,817 | 2,234, 631 | 180, 027 | 1,597,304 | 506,310 |

These statistics of consumption and active spindles measure the growth of cotton manufacturing. Since 1890 the number of spindles in the United States has more than doubled, while the quantity of cotton consumed in 1913 was the largest returned for a single year, being $5,786,330$ bales, more than twice as large as that for 1890 .
The most significant fact brought out by this table is the rapid growth of the industry in the cottongrowing states. In 1880 there were only 561,360 active cotton spindles in these states, and the quantity of cotton consumed was 188,748 bales. In 1913 $12,227,226$ spindles were operated, and the quantity of cotton consumed was $2,960,518$ bales. Between 1900 and 1913 the consumption in these states increased 94.4 per cent, while in the New England states it increased only 15.8 per cent, and in all other states 39.6 per cent. The consumption of cotton in 1900 in the cotton-growing states amounted to 39.3 per cent of the total for the country, compared with 49.3 per cent for the New England states, and 11.4 per cent for all other states. For the year ending August 31, 1913, the consumption of cotton in the cotton-growing states formed 51.2 per cent of the total for the country; that in the New England states, 38.2 per cent; and that in all other states, 10.6 per cent. Of the total number of spindles operated during 1913, 38.8 per cent were in the cotton-growing states, 54.9 per cent in the New England states and 6.3 per cent in all other states.
A very large proportion of the cotton produced in the United States is exported. The latest available infor-
mation concerning the industry in the important manufacturing countries, including statistics of spindles and of cotton consumed, is presented on pages 29 to 36 . In addition, statistics of imports and exports of raw cotton and of cotton manufactures for the most important countries are presented on page 37.

## stooks of cotton.

The quantity of baled cotton held in the United States on August 31, 1913, as shown in Table 1, was $1,598,438$ bales, as compared with $1,776,885$ bales in 1912, 1,375,031 bales in 1911, 1,040,040 bales in 1910, $1,483,585$ bales in 1909, 1,236,058 bales in 1908, and $1,514,567$ bales in 1907. The amount reported in 1913 was the largest reported for any year, with the exception of 1912 , since these statistics were first collected by the Bureau of the Census, in 1905. Considering the fact that the crops of 1911 and 1912 were the two largest ever produced in the United States, it seems remarkable that there was not more cotton on hand on August 31, 1913. The demands for domestic consumption and for export were so large, however, that the amount held on that date was not greatly above the average. A considerable part of the cotton on hand August 31, 1913, was from the crop of 1913, a larger amount of which was ginned prior to September 1 than of any other crop. Comparative statistics of stocks held in manufacturing establishments on August 31 are shown in Table 4, by states, for the years 1909 to 1913. These stocks amounted to 778,158 bales in 1913, 870,646 bales in 1912, 542,191 bales in 1911, 533,232 in 1910, and 907,097 in 1909, while in 1907
they amounted to $1,016,738$, the largest amount for any year since the inauguration of these reports by the Census Office.

The quantities of cotton held on August 31 in independent warehouses and in other public storage places and "elsewhere," as shown in Table 1, vary considerably from year to year. The comparatively large amounts thus held in the last three years were due chiefly to the extraordinarily large ginnings prior to September 1 in Texas. Stocks held in public storage places on August 31, 1913, amounted to 495,280 bales, Texas alone returning 240,468 bales, or nearly onehalf of the total for the country.

## PERIODICAL REPORTS.

Statistics concerning the quantity of cotton consumed, imported, exported, and on hand, and the number of active consuming cotton spindles are now collected and published monthly by the Bureau of the Census. This work is done in compliance with an act of Congress approved July 22, 1912. Prior to the enactment of this law the bureau collected the sta-
tistics of cotton consumed and cotton on hand for periods ending with August, October, December, and February.
These statistics are auxiliary to those of cotton ginned, and are intended to furnish reliable information as to the movement of cotton, which will be of value to the producer in disposing of his cotton and in planning for the succeeding crop, as well as to the manufacturer in purchasing his supplies.

Monthly reports of cotton consumed, imported, exported, and on hand.-The collection and publication of the monthly reports of cotton consumed, imported, exported, and on hand and of active consuming cotton spindles, authorized in the act approved July 22 , 1912, was inaugurated with the beginning of the cotton year, September 1, 1912. Table 8 presents these statistics for each month during the year ending with August, 1913, showing separately for the groups of cotton-growing states and all other states the quantities of cotton consumed and on hand in manufacturing establishments and the number of active cotton spindles.

Table 8.-COTTON CONSUMED, TMPORTED, EXPORTED, AND ON HAND, AND AGTIVE CONSUMING COTTON SPINDLES, BY MONTHS: SEPTEMBER, 1912, TO AUGUST, 1913.
[Quantities are given in running bales, except that round bales are comnted as half bales and forcign cotton in equivalent boo-pound bales. Linters are included.]

| MONTEF. | COTTON CONSUMED (BALES), |  |  | COTTON ON HAND (DALTS). |  |  | Cotton imported (bales). | Cotton exported (bdes). | ACTIVE COTTON SPINDLES (NOMIBER). |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total. | In cottongrowing states. | In all other states. | In menufacturing establishments. |  | In independent warehouses and other pablie storage places. |  |  |  |  |  |
|  |  |  |  | In cottongrowing states. | In all other states. |  |  |  |  | states. |  |
| September 1912. |  |  |  |  |  |  |  |  |  |  |  |
| September | 436,161 513,060 | 223, 541 | 212, 020 | 205, 314 | 508, 692 | 1,386,346 | 8,930 | 720,859 | 20,775,039 | 11,502,636 | 18,272, 403 |
| Oetober... | 513,060 | 253, 458 | 259, 602 | 450,851 | 458, 138 | 2,821,315 | 10,571 | 1, 515,740 | 30,030,733 | 11,582, 060 | 18,448, 673 |
| November | 475,511 | 243, 308 | 232, 203 | 763, 040 | 577,972 | 3,370,715 | 9,452 | 1,734,087 | 30,072, 579 | 11,610,173 | 18, 462, 406 |
| December. | 445, 275 | 225, 178 | 220,097 | 940, 706 | 764,409 | 3,235,304 | 24,8.46 | 1,391,394 | 30,153,747 | 11,619,899 | 18,533,848 |
| 1913. |  |  |  |  |  |  |  |  |  |  |  |
| Jamuary.. | ${ }^{5133,743}$ | 271,504 | 262,239 | 917,712 | 905, 281 | 2, 057, 048 | 52,022 | 900, 931 | 30, 359, 843 | 11,740,465 | 18, 019,378 |
| Tebruary | 471,213 | 239, 961 | 221,252 | 897, 007 | 1,084, 294 | 2, 250, 899 | 34,039 | 530,911 | 30, 536,480 | 11, 757, 852 | 18, 778, 034 |
| March. | 485, 573 | 250, 213 | 235,360 | 849,573 | 1,081,949 | 1,831, 316 | 27,889 | 372,073 | 30,575,028 | 11, 85, 1142 | 18,721, 858 |
| April. | 503, 990 | 261, 327 | 242, 603 | 746,308 | 1,000, 082 | 1,386,873 | 20,776 | 534,58.1 | 30,572,108 | 11, 911, 333 | 18, 660, 775 |
| May.. | 509,320 | 261, 389 | 247, 931 | 012, 371 | 892,450 | 938, 854 | 13,820 | 468, 929 | 30,556, 177 | 11, 918, 309 | 18, 037, 868 |
| June. | 466,512 | 243, 093 | 223, 419 | 492,593 | 792, 722 | 650, 237 | 8,019 | 223,921 | 30, 046, 121 | 11, 054,524 | 18,091,597 |
| July.. | 486, 992 | 248, 455 | 238, 537 | 302,967 | 666, 987 | 410, 887 | 9,406 | 140,710 | 30,022,654 | 11, 969,736 | 18,052,918 |
| August... | 458,980 | 239,091 | 219,889 | 234,509 | 543, 649 | 405, 280 | 7,785 | 257,168 | 30,602,282 | 11, 973, 633 | 18, 628, 614 |

The quantity of cotton consumed, as shown in the table, varies from month to month. The larger amounts for some months, however, may be accounted for, in part, by the fact that a number of establishments, among them some of the largest in the country, report for a four-week or a five-week period instead of for the calendar month, so that the figures for these months cover a five-weeks' consumption in the case of a considerable number of establishments. The consumption both in the cotton-growing states and in all other states shows a general increase during the 12 -month period covered by the table. The number of active cotton spindles has shown for each month a gain over the preceding month in the cottongrowing states, while in all other states the same condition prevailed from September to February. The
smaller numbers for June and July were due, in part, to the closing down of some establishments for extensive repairs.
The stocks of cotton on hand naturally increased during the ginning season, reaching their highest point for the manufacturing establishments in December in cotton-growing states and in February in all other states, while the quantity in independent warehouses and other public storage places was largest at the close of November. This table does not show the quantity of cotton held "elsewhere," that is, cotton other than that in manufacturing establishments and in public storage places. The American crop is handled by a large number of agencies. Roughly, there are $1,700,000$ growers, 30,000 ginners, 2,600 public storage places, 2,100 cotton-consuming
establishments, and numerous transportation companies, local buyers, merchants, and others who handle more or less cotton during the season. In order to obtain complete statistics concerning the stocks of cotton, it would be necessary to consult all of these. It is manifestly impracticable to obtain monthly reports from so many agencies, and the Bureau of the Census has therefore adopted the plan of securing individual reports of the quantity of cotton on hand
at the end of each month in manufacturing establishments and in independent warehouses, compresses, and other public storage places.

Comparative data for specified periods.-The following table shows comparative statistics of the supply and distribution of cotton. in the United States as reported for the six-month period ending with February and two-month periods ending with October, December, and February.

Table 9.-SUPPLY AND DISTRIBUTION OF COTTON IN TEE UNITED STATES FOR SPECIFIED PERIODS: 1910 TO 1913.
[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500 -potund bales. Linters are included.]

| PERIOD. | suprly of cotton (bales). |  |  |  | distribution of cotton (BALES). |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total. | Stocks held at beginning of period. | Gimings. ${ }^{1}$ | Imports less reexports. | Total. | Exports. | Consumption. |  | Stocks at end of period. |  |  |  |
|  |  |  |  |  |  |  |  |  | In manufacturing establishmonts. |  | In indepandent warehouses and other public stor age places. | Elsewhere. |
|  |  |  |  |  |  |  | In cottongrowing states. | In ali other states. | In cottongrowing states. | In all other states. |  |  |
| Sept. 1 to end of Feb.: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1912-13............ | $15,276,489$ $16,781,751$ | 1,770,885 | 13,359,928 | 139,676 68,668 | $15,276,489$ 16781 | 6, 803, 528 | 1, 456, 950 | 1, 418,013 | 807, 007 | 1,084,294 | 2,250, 809 | 1,365,798 |
| 1910-11. | 12,788,572 | 1, 1 ,40, 040 | 11,612,951 | 135,581 | 12,788,572 | 6,337,068 | 1,188,347 | 1, 215, 685 | 583, 512 | 941, 440 | 1,787, 000 | 2, 730,614 |
| 1900-10....... | 11,575,330 | 1, 483,585 | 9,997,067 | 93,778 | 11,575,330 | 4,599,682 | 1, 232,689 | 1,306,710 | 668, 008 | 1,024,100 | 1,903; 350 | 830, 801 |
| Sept. 1 to Oct. 31: $1012$ | 9,034,611 | 1,776,885 | 8,138,287 | 19,430 | 9,934, 011 | 2,245,605 | 470, 009 | 472, 222 | 450, 851 | 458, 138 | 2,821,315 | 3,009,481 |
| 1911. | 10,585, 259 | 1,375,031 | 9,100, 608 | 10,620 | 10, 885,259 | 2,433,909 | 303,334 | 384, 050 | 417, 661 | 365, 519 | 2, 756,531 | 3,834, 355 |
| 1910. | 8,045,964 | 1,040, 040 | 6,992, 042 | 12,082 | 8,046,904 | 2,003,389 | 357,007 | 393, 533 | 35i, 476 | 340,048 | 2, 428, 136 | 2,108, 285 |
| Nov. 1 to Dec. 31: 1912 | 10,812,187 | 6,739, 785 | 4,038,183 | 34,219 | 10, 812,187 | 3,120,081 | 468,486 | 452,300 | 940, 706 | 704,499 | 3,235,304 | 1,824,751 |
| 1911.. | 11,735,797 | 7,373,066 | 4,346,097 | 15, 734 | 11,735,707 | 2,916,305 | 131,677 | 127,877 | 681,791 | 651, 782 | 3,607,041 | 2, 0509,234 |
| 1910............ | 9,077, 214 | 5,291, 045 | 3,738,562 | 46, 707 | 0,077,214 | 2,520,596 | 408, 151 | 414,980 | 610,559 | 741,890 | 3, 067,221 | 1, 304, 81.7 |
| Jau, 1 to end of Feb.: 1913. | 8,034,750 | 6,765,320 | 1,183,458 | 86,018 | 8,084,700 | 1, 431,842 | 511, 465 | 403, 491 | 897,007 | 1,084,294 | 2,250, 899 | 1,365,798 |
| 1912. | 9,704,509 | 7,959, 848 | 1,792,347 | 42,314 | 9,794, 509 | 2,657, 510 | 469, 588 | 461, 669 | 732, 382 | 809, 673 | 2, 280, 909 | 2,382, 692 |
| 1911. | 6, 681, 820 | 5,724, 187 | -881,447 | 75,802 | 6, 081,826 | 1,804,983 | 421,099 | 407, 172 | 583,512 | 041, 440 | 1,787, 006 | 2,730,614 |

${ }^{1}$ The tatal production of linters for the crop is ascertained at the March 1 canvass, and the entire amount is included only for the speelfied poriods ending with Fobruary.

The total supply of cotton for each period was ascertained by combining the stocks of cotton at the beginning of the period with the ginnings and net imports during the period. The distribution shows the quantity of cotton consumed during the period, the amount exported and that held in manufacturing establishments and in independent warehouses and other public storage places. The difference between the sum of these items and the total supply is taken as measuring the quantity of stocks held elsewhere.

The supply of cotton for the six-month period ending with Februnry, 1913, amounted to $15,276,489$ bales, as compared with $16,781,751$ bales in 1912, 12,788,572 bales in 1911, and $11,575,330$ bales in 1910. Of the total supply for the six months ending with February, 1913, $6,803,528$ bales, or 44.5 per cent, were exported;
$2,874,963$ bales, or 18.8 per cent, were consumed in. the United States; and $5,597,998$ bales, or 36.7 per cent, remained in the country at the close of the period.

Cotton consumed during each month, by states.-The following table presents statistics as to the monthly consumption of cotton in the United States in the two divisions of the country and in each of the important cotton-consuming states from September, 1912, to August, 1913.

As previously stated, the monthly totals of cotion consumed are affected somewhat by some establishments reporting for a period of four or five weeks instead of for the calendar month. The large amounts returned for October and January may be ascribed to this practice.

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$$

TABL\# 10.-COTTON CONSUMED DURING EACH MONTH, BY STATES: SEPTEMBER, 1912, TO AUGUST, 1913.
[Quantities are given in ruming bales, oounting round as half bules, except foreign cotton which is in equivalent 500 -pound bales. Linters are included.]

| STATE. | cotton conbumed (bales) durina- |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total. | 1912 |  |  |  | 1913 |  |  |  |  |  |  |  |
|  |  | Soptenn- ber. | October. | November. | $\begin{gathered} \text { Decem- } \\ \text { ber. } \end{gathered}$ | Jenuary. | Febraary. | March. | April. | May. | June. | July. | August. |
| United States. | 5,786,330 | 436,161 | 513, 060 | 475,511 | 445,275 | 533, 743 | 471,213 | 485, 573 | 508,090 | 509,320 | 466, 512 | 486, 992 | 458,980 |
| Cotton-growing states. All other states......... | $2,960,518$ $2,826,812$ | 223,541 212,620 | $\begin{aligned} & 253,458 \\ & 250,602 \end{aligned}$ | $\begin{aligned} & 243,308 \\ & 232,203 \end{aligned}$ | $\begin{aligned} & 225,178 \\ & 220,097 \end{aligned}$ | $\begin{aligned} & 271,504 \\ & 262,239 \end{aligned}$ | $\begin{aligned} & 239,961 \\ & 231,252 \end{aligned}$ | $\begin{aligned} & 250,213 \\ & 235,360 \end{aligned}$ | $\begin{array}{r} 261,327 \\ 242,663 \\ \hline \end{array}$ | $\begin{aligned} & 261,389 \\ & 247,981 \end{aligned}$ | 243,093 228,419 | 248,455 238,537 | $\begin{aligned} & 239,091 \\ & 219,880 \end{aligned}$ |
| Alabama. | 299,924 | 22,569 | 26,583 | 23,567 | 22, 423 | 28, 675 | 23,835 | 24, 698 | 25,696 | 27,201 | 24, 204 | 25,332 |  |
| Cornecticut | 145,477 | 11, 264 | 14,029 | 11,932 | 11, 851 | ${ }^{13}$, 662 | 12,025 | 11,545 | 12, 357 | 12,603 | 10,983 | 11, 410 | -251,816 |
| Georgic. | 648,131 | 47,822 | 54, 504 | 52,881 | 49, 458 | 59,647 | 53,153 | 54,023 | 56, 843 | 68,280 | 52,971 | 54, 867 | 53, 6182 |
| Malne.... | 175, 271 | 12,270 | 15,961 | 14,205 | 13, 160 | 16,388 | 14,688 | 15,206 | 14, 874 | 15, 814 | 14, 043 | 14,384 | 14, 478 |
| Maryland | 73,589 | 5,327 | 6,483 | 6,046 | 5,850 | 6,845 | 5,905 | 0,531 | 6,731 | 0,145 | 5,706 | 6,085 | 5,844 |
| Massachusetts. | 1,332,912 | 90,379 | 121,724 | 112,530 | 105,778 | 130,246 | 106,629 | 111,164 | 115,734 | 114,851 | 101,674 | 111,345 |  |
| Now Hampshire | 305,807 | 23, 119 | 29,789 | 24,348 | 23, 110 | 26,682 | 27,602 | 25, 175 | 23, 368 | 29,522 | 25, 623 | 27,754 | 19,775 |
| Now Jersey | 64,912 | 4, ${ }^{4} 872$ | 5,586 | 4,812 |  |  |  | 5,381 10 10 | 5, 801 | 5,841 | 5,379 | 5,570 |  |
| New York-1.. | ${ }^{227,813}$ | 18,031 66,588 | 20,006 | 17,584 73,128 | 17,487 64,543 | 19,628 80,183 | 18,574 72,181 | 19,225 74,923 | 19,908 | 19,544 | 18,629 | 20, 161 | 19,0316 |
| North Carolina | 876,359 | 66,582 | 73,097 | 73, 128 | 64,543 | 80, 183 | 72, 181 | 74, 823 | 77,950 | 77, 253 | 72,447 | 73, 428 | 70,614 |
| Pennsylvania. | 76,579 | 6, 601 | 6,787 | 5,971 | 5,844 | 6,574 | 6,322 | 6,392 | 6,016 | 6,552 | 6,188 | 6, 145 | 6, 288 |
| Rhode Island. | 239,060 | 17, 192 | 21,712 | 19,476 | 18, 116 | 22,049 |  | 19,917 | 21, 054 | 20, 436 | 19,790 | 20,437 | 19, 230 |
| South Carolina | 775, 851 | 50, 230 | 66,539 | 62, 261 | 60, 498 | 70,374 7 780 | 02,585 | 60, 173 | 69,349 | 68, 276 | 64,759 | 65,304 | 60, 503 |
| Tonnessee. |  | 8, ${ }^{\text {B }}$, 980 | \%,666 | 8,775 <br> 8,253 | 6, 6881 | 7,570 <br> 8,837 | 5,799 7,802 | 7,018 | 7,293 8,720 | 6,875 8,336 | 6,583 7,020 | 6,977 | C, 818 |
| All otherstates. | 367,731 | 28, 014 | 34, 150 | 31,742 | 28, 732 | 30,691 | 29,365 | 30, 230 | 31,366 | 31,991 | 29,523 | 30, 092 | 30, ${ }^{7} 2929$ |

The monthly consumption of linter cotton and of foreign cotton is given in Table 11.

Table 11.-Linter and forcign cotton consumed during each month: September, 1912, to August, 1913.
[Lintor cotton is glven in ruming bales and foroign cotton in equivalent 500-pound bales.]


Cotton stocks on specified dates.-The following table distributes, by states, the cotton on hand in manufacturing establishments and in independent warehouses and other public storage places at the close of each month during the year ending August 31, 1913. It does not include cotton in transit, in private warehouses, gimneries, and oil mills, or that in possession of buyers, merchants, and producers.
The segregation of stocks shown in the statement is based upon location rather than ownership. For instance, cotton in warehouses owned and operated in conjunction with the mills is classed as in manufacturing establishments, while cotton in independent warehouses comprises all cotton stored in such warehouses, regardless of its ownership. There were in the hands of manufacturers on February 28, practically the close of the gimning season, $1,981,301$ bales of cotton. This was the largest amount held at the close of any month. The average monthly consumption of cotton for the year being 482,194 bales, the mill stocks on that date would afford a supply for about four months.

TABLE 12.-COTTON ON HAND IN MANUFACTURING ESTABLISEMENTS AND IN INDEPENDENT WAREHOUSES AND OTHER PUBLIC STORAGE PLAOES AT THE CLOSE OF EACH MONTH, BY STATES: SEPTEMBER, 1912, TO AUGUST, 1913.
[Quantities are given in running bales, except that round bales are countod as half baies and foreign cotton in equivalent 500-pound bales. Linters are included.]

| state and class of holdmr. | cotton on hand (bales). |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1912 |  |  |  | 1918 |  |  |  |  |  |  |  |
|  | Sept. 30. | Oct. 31. | Nov. 30. | Dec. 31. | Jan. 31. | Feb. 28. | Mar. 31. | Apr. 30. | May 31. | June 30. | July 31. | Aug. 31. |
| In manufacturing establishments, total....... <br> In cotton-growing states. <br> In all other states. | 713,900 | 908,989 | 1,341,012 | 1,705,205 | 1,012,893 | 1,981,301 | 1,031,522 | 1,746,390 | 1,504,821 | 1,285,315 | 1,029,954 | 778.158 |
|  | $\begin{array}{r} 205,314 \\ 508,592 \\ 1,386,346 \end{array}$ | $\begin{array}{r} 450,851 \\ 458,138 \\ 2,821,315 \end{array}$ | $\begin{array}{r} 763,040 \\ 577,072 \\ 3,370,715 \end{array}$ | $\begin{array}{r} 940,706 \\ 764,499 \\ 3,236,304 \end{array}$ | 917,712995,281$2,057,048$ | $\begin{array}{r} 897,007 \\ 1,084,204 \\ 2,250,899 \end{array}$ | $\begin{array}{r} 849,573 \\ 1,(81,040 \\ 1,831,316 \end{array}$ | $\begin{array}{r} 746,308 \\ 1,000,082 \\ 1,386,873 \end{array}$ | $\begin{aligned} & 612,371 \\ & 892,450 \end{aligned}$ | $\begin{array}{r} 492,593 \\ 792,722 \end{array}$ | $\begin{aligned} & 362,967 \\ & 666,987 \end{aligned}$ | $\begin{aligned} & 234,509 \\ & 543,649 \end{aligned}$ |
| In independent warehouses and other public storago places, total. |  |  |  |  |  |  |  |  | 938,854 | 650, 237 | 410,887 | 495, 280 |
| In cotton-growing sta In all other states... | $\begin{array}{r}1,284,284 \\ 102,062 \\ \hline\end{array}$ | $\begin{array}{\|} 2,718,742 \\ \\ \hline \end{array}$ | $\begin{array}{r} 3,265,488 \\ 105,227 \\ \hline \end{array}$ | $\begin{array}{r} 3,090,220 \\ 136,135 \end{array}$ | $\begin{array}{r} 2,450,397 \\ 200,051 \\ \hline \end{array}$ | $\begin{array}{r} 2,046,029 \\ 204,870 \\ \hline \end{array}$ | $\begin{array}{r} 1,618,762 \\ 212,554 \\ \hline \end{array}$ | $\begin{array}{r} 1,175,560 \\ 211,313 \\ \hline \end{array}$ | $\begin{aligned} & 792,861 \\ & 145,093 \end{aligned}$ | $\begin{aligned} & 529,970 \\ & 120,267 \end{aligned}$ | $\begin{array}{r} 327,287 \\ 83,600 \end{array}$ | $\begin{array}{r} 451,173 \\ 44,107 \end{array}$ |
| Alabama: |  |  |  |  |  |  |  |  |  |  |  |  |
| In Inanufacturing establishments | 17,902104,760 | $\begin{array}{r} 47,774 \\ 242,546 \end{array}$ | $\begin{array}{r} 81,137 \\ 300,431 \end{array}$ | $\begin{aligned} & 100,599 \\ & 319,881 \end{aligned}$ |  |  | 95,457 177,180 | $87,348$ |  |  | $\begin{aligned} & 40,443 \\ & 27,030 \end{aligned}$ | $\begin{aligned} & 23,869 \\ & 35,760 \end{aligned}$ |
| In independent warehouses, etc. |  |  |  |  | 269, 790 | $223,027$ | 177, 180 | 128,213 | $88,690$ | $50,323$ |  |  |
| Artas In manufacturing establishm In independent warelouses, | $\begin{array}{r} 414 \\ 35,258 \end{array}$ | $\begin{array}{r} 1,432 \\ 164,479 \end{array}$ | $\begin{array}{r} 1,934 \\ 109,125 \end{array}$ | $\begin{array}{r} 1,776 \\ 183,424 \end{array}$ | $\begin{array}{r} 1,068 \\ 148,002 \end{array}$ | $\begin{array}{r} 2,245 \\ 125,172 \end{array}$ | $\begin{array}{r} 1,634 \\ 102,071 \end{array}$ | $\begin{array}{r} 1,485 \\ 70,000 \end{array}$ | 1,181 | $\begin{array}{r} 967 \\ 30,444 \end{array}$ | $\begin{array}{r} 763 \\ 18,894 \end{array}$ | $\begin{array}{r} 637 \\ 7,929 \end{array}$ |
| Connecticut: In manufacturing establishmen | 33,799 | 27,654 | 30,463 | 40,055 | 55, 433 | 61,529 | 64, 021 | 64, 003 | 60,182 | 58, 381 | 52,637 | 46,026 |
| Gleorgia: In manufacturing eatablishments | 34,436210,321 | $\begin{array}{r} 90,510 \\ 500,466 \end{array}$ | $\begin{aligned} & 162,765 \\ & 657,109 \end{aligned}$ | $\begin{aligned} & 200,050 \\ & 631,020 \end{aligned}$ | $\begin{aligned} & 205,408 \\ & 614,416 \end{aligned}$ | $\begin{aligned} & 196,793 \\ & 420,264 \end{aligned}$ | $\begin{aligned} & 186,653 \\ & 296,410 \end{aligned}$ | $\begin{aligned} & 165,437 \\ & 259,910 \end{aligned}$ | $\begin{aligned} & 132,616 \\ & 120 \end{aligned}$ | $106,783$ | $\begin{aligned} & 74,192 \\ & 67,069 \end{aligned}$ | $\begin{aligned} & 41,693 \\ & 78,708 \end{aligned}$ |
| In independent warehouses, ete.. |  |  |  |  |  |  |  | $259,010$ | $172,207$ | 111,434 |  |  |
| In manufacturing establishment | $\begin{array}{r} 180 \\ 60,712 \end{array}$ | $\begin{array}{r} 550 \\ 211,358 \end{array}$ | $\begin{array}{r} 1,125 \\ 273,514 \end{array}$ |  | $\begin{array}{r} 1,097 \\ 155,271 \end{array}$ | $\begin{array}{r} 1,3,390 \\ 112,479 \end{array}$ | 1,569 |  |  | 350 | 259 | $\begin{array}{r} 320 \\ 15,301 \end{array}$ |
| In independent warehonses, etc |  |  | 273, 514 | $251,551$ | $15 \overrightarrow{5}, 271$ |  |  | 38,014 | 3.1, 656 | $23,756$ | 16,002 |  |
| In manufacturing establishments | 24,786 | 22,373 | 28,452 | 44,504 | 61,275 | 64, 800 | 65, 340 | 60,479 | 56,301 | 48,605 | 38,757 | 27,769 |
| In manufacturing establishments | 202,221 | 228,1840,518 | 270,937 | 369, 829 | 490, 141 | 529,915 | 514,46825,570 | 464,01025,911 | 412,530 | 368,36121,731 | 309,09116,698 | 250,05710,808 |
| In independent warehouses, etc. | 20,201. |  | 13,405 | 21,612 | 20,415 |  |  |  | 25,706 |  |  |  |
| In manufacturing establislmments | $\begin{array}{r} 1,813 \\ 62,182 \end{array}$ | $\begin{array}{r} 3,405 \\ 201,227 \end{array}$ | $\begin{array}{r} 4,608 \\ 269,265 \end{array}$ | $\begin{array}{r} 5,258 \\ 262,323 \end{array}$ | 5,072 | $\begin{array}{r} 0,227 \\ 172,780 \end{array}$ | $\begin{array}{r} 4,859 \\ 136,787 \end{array}$ | $\begin{array}{r} 4,068 \\ 84,377 \end{array}$ | $\begin{array}{r} 2,879 \\ 55,646 \end{array}$ | $\begin{array}{r} 2,781 \\ 32,521 \end{array}$ | $\begin{array}{r} 2,332 \\ 22,373 \end{array}$ | 17, 1674 |
| In independent warchouses, etc. |  |  |  |  | 210,241 |  |  |  |  |  |  |  |
| New Hampshire: <br> In manufacturing establishmen | 54,113 | 47,827 | 73,200 | 103,806 | 128,735 | 136,372 | 133,960 | 122,852 | 104, 769 | 88,417 | 71,129 | 58,412 |
| New Jersey: <br> In manufacturing establishments | $\underset{(1)}{10,290}$ | 14,083(1) | $\underset{\left(1^{\prime}\right)}{16,427}$ | $\begin{gathered} 16,990 \\ \left.()^{\prime}\right) \end{gathered}$ | $\underset{(1)}{19,933}$ | $\frac{22,222}{\left(1^{\prime}\right)}$ | ${ }_{(1)}^{27,335}$ | $\begin{gathered} 27,189 \\ \left({ }^{(1)}\right) \end{gathered}$ | $\begin{gathered} 22,419 \\ \left({ }^{\prime}\right) \end{gathered}$ | $\underset{(1)}{21,375}$ | $\underset{(1)}{18,924}$ | $\begin{aligned} & 17,012 \\ & \left({ }^{1}\right) \end{aligned}$ |
| In manuarduring establishments. |  |  |  |  |  |  |  |  |  |  |  |  |
| Now York: In manuacturing establishment |  | $\begin{aligned} & 31,814 \\ & 80,309 \end{aligned}$ | $\begin{aligned} & 54,473 \\ & 72,035 \end{aligned}$ | $\begin{aligned} & 64,837 \\ & 81,081 \end{aligned}$ | $\begin{array}{r} 74,670 \\ 131,692 \end{array}$ | $\begin{array}{r} 72,287 \\ 124,862 \end{array}$ | $\begin{array}{r} 68,801 \\ 134,915 \end{array}$ | $\begin{array}{r} 61,469 \\ 130,194 \end{array}$ | $\begin{aligned} & 52,083 \\ & 73,112 \end{aligned}$ | $\begin{aligned} & 41,952 \\ & 56,795 \end{aligned}$ | $\begin{aligned} & 31,058 \\ & 39,800 \end{aligned}$ | $\begin{aligned} & 23,006 \\ & 14,536 \end{aligned}$ |
| In independent warehouses, ote | 23,124 87,732 |  |  |  |  |  |  |  |  |  |  |  |
| North Carolina: <br> In manufacturing cstablishment | 75,719 | $\begin{array}{r} 144,181 \\ 22,477 \end{array}$ | $\begin{gathered} 244,008 \\ 40,255 \end{gathered}$ | $\begin{array}{r} 271,170 \\ 54,117 \end{array}$ | $\begin{array}{r} 262,548 \\ 58,840 \end{array}$ | $\begin{array}{r} 250,572 \\ 55,812 \end{array}$ | $\begin{array}{r} 241,461 \\ 57,522 \end{array}$ | $\begin{array}{r} 206,413 \\ 49,536 \end{array}$ | $\begin{array}{r} 170,230 \\ 36,233 \end{array}$ | $\begin{gathered} 136,034 \\ 20,283 \end{gathered}$ | $\begin{array}{r} 103,793 \\ 20,485 \end{array}$ |  |
| In independent warehouses ete. | 15,158 |  |  |  |  |  |  |  |  |  |  | $\begin{array}{r} v, 200 \\ 8,248 \end{array}$ |
| Ohio: <br> In manufacturing establishments In independent warehouses, otc. | $\begin{aligned} & 8,532 \\ & (1) \end{aligned}$ | $\begin{aligned} & 6,844 \\ & (1) \end{aligned}$ | $\begin{aligned} & 8,320 \\ & \left({ }^{1}\right) \end{aligned}$ | $\underset{(1)}{11,516}$ | $\begin{gathered} 13,856 \\ \left({ }^{2}\right) \end{gathered}$ | $\begin{gathered} \text { I7,008 } \\ \left(1^{1}\right) \end{gathered}$ | $\begin{gathered} 20,002 \\ (1) \end{gathered}$ | $\begin{aligned} & 10,749 \\ & (1) \end{aligned}$ | $\begin{gathered} 18,693 \\ (1) \end{gathered}$ | ${ }_{\text {17 }}^{17,169}$ | $\underset{\substack{14,048 \\(1)}}{ }$ | (12) ${ }^{12} 818$ |
|  | 76 |  | 955 | 863 | 075 | 1,173 | 1,019 | 1,563 | 1,353 | 1,382 | ,125 | 772 |
| In independent warelouses, ote | 49,987 | 165,727 | 160, 414 | 117,511 | 80, 124 | 40,842 | 25, 530 | 16, 991 | 12, 1262 | 6, 657 | 3,310 | 2,058 |
| Pennsylvania: <br> In manufacturing establishments. |  |  |  |  |  | 21,004 |  |  |  | 16,018 |  |  |
| In independent warehouses, etc. | 1,737 | 2,013 | 3, 608 | 6,018 | 8,005 | 9,875 | 10,717 | 9,460 | 9,031. | 8,485 | 7,549 | 6,270 |
| Rhode Island: <br> In manufacturing establishments <br> In indenendent warehouses, otc |  | $\underset{(1)}{52,44}$ | ${ }_{\text {(1) }}^{53,820}$ | ${ }_{(1)}^{88,201}$ | $\begin{array}{ll} 96,121 \\ (1) \end{array}$ | $\underset{(1)}{118,294}$ | ${ }_{(1)}^{122,817}$ | $\underset{(1)}{117,174}$ | $\begin{gathered} 108,720 \\ (1) \end{gathered}$ | $\begin{aligned} & 96,025 \\ & (1) \end{aligned}$ | $\begin{aligned} & 82,476 \\ & \text { (1) } \end{aligned}$ | ${ }_{\text {(1) }} 678$ |
| In independent warehouses, otc South Carolina: |  |  |  |  |  |  |  |  |  |  |  |  |
| In manufacturing establishments. | 56,747 37,883 | 124,931 91,073 | 218,356 139,548 | 257,053 173,539 | 241,081 166,116 | 236,142 160,371 | 216,343 152,889 | 189,064 120,060 | 154, 542 | 124,779 75,439 | 90,856 44,059 | 59,088 25,771 |
| In indlependent warehouses, Tenncssec; | 37,383 | 91,073 | 139, 548 | 173, 539 | 166, 116 | 160,371 | 152,889 | 120,060 | 101,769 | 75, 439 | 44,059 | 25,771 |
| In manufacturing establishments | 5,292 | 11,456 | 24,686 | 32,581 | 32,479 | 32,210 | 30,278 | 28,519 | 24,328 | 20,540 | 15, 726 | 11,280 |
| In independent warehouses, eto | 8,453 | 105,310 | 153, 713 | 197, 376 | 182,91.1 | 100,005 | 134,642 | 92,032 | 52,829 | 27,306 | 14,136 | 10,022 |
| Texas: <br> In manulacturing establishments |  |  | 15,244 | 19,123 | 21, 427 | 21,615 | 21,194 | 18,084 | 15,347 | 12,435 | 8,040 |  |
| In independent warelouses, ete. | 6611, 662 | 947, 163 | 1,001, 868 | 834, 514 | 594,936 | 495, 713 | 379, 817 | 260, 687 | 158,885 | 107,261 | 66,885 | 240,468 |
| Virginias: In manufacturing establishments | 4,636 | 8,414 | 16,831 | 28,448 | 32,023 | 35,167 | 32,699 | 27, 139 | 23,827 | 18,818 | 13,323 | 9,003 |
| In independent warehouses, etc. | 13,303 | 30,046 | 45,385 | 60,645 | 59,054 | 57,018 | 51,861 | 45, 116 | 36,013 | 32,782 | 23,777 | 6,319 |
| Mil other states: <br> In manufacturing establishments |  |  | 32,325 |  | 50,222 | 56,987 | 60, 820 | 58,440 | 53,068 | 48,727 | 45,788 | 38,785 |
| In independent warehouses, oto. | 15,647 | 47,603 | 35, 140 | 39,821 | 49, 720 | 48, 007 | 44, 833 | 55, 430 | 40,213 | 36,030 | 21,961 | 15,908 |

Linter and foreign cotton on hand at the close of each month in manufacturing establishments and in independent warehouses and other public storage places are given in the following table:
Table 13.-Linter and foreign cotlon on hand in manufacturing establishments and in independent warehouses and other public storage places at the close of cach month: September, 1912, to August, 1918.
[Linter cotton is given in ruming bales and foreign cotton in equivalent 500-pound bales.]

| MONTH, | LINTER COTHON ON MAND AT CLOSE OR MONTH (BALES). |  | formion cotron on mand at close of MONTH (BAles). |  |
| :---: | :---: | :---: | :---: | :---: |
|  | In manuestablish estapns. inents. ment. | In independent warehotuses, ote. | In manur establishments. | In independent warehouses, eto. |
| 1012 |  |  |  |  |
| Oeptember. | 37, 744 | 15, 451 | 68, 234 | 1,248 |
| November. | 45,992 | 33, 188 | 54,990 | 760 |
| December.... | 61,810 | 36,157 | 50,940 | 788 |
| 1013 |  |  |  |  |
| January... | 76,447 | 35,038 | 74,451 | 2,193 |
| February | 83,054 | 33,280 40,700 | 89,364 <br> 98 | 2,516 |
| April. | 03,083 | 46, 208 | 98,823 | 2,455 |
| May. | 85,1034 | 43,281 | 06,157 | 2, 639 |
| June. | 81, 845 | 40,877 | 90,654 | 2,329 |
| July. | 72,393 60,454 | 29,148 27,378 | 82,581 79,979 | 2,794 <br> 2,88 |
| Atugust.... | 6,461 | 27,378 | 10,90 | 2,8:8 |

COTTON EXPORTS.
Exports of cotton, by customs districts.-As stated on page 7 , the exports of domestic raw cotton represent 54.2 per cent of the total distribution for the year ending August 31, 1913. The following table shows the amount exported, by customs districts, for the years ending August 31, 1909 to 1913, inclusive.

The exports of domestic raw cotton from the United States in 1913 amounted to $8,800,966$. All but 16.3 per cent of the cotton exported during the year is credited to ports within the cotton-growing states, as only $1,431,580$ bales were exported from ports in other states.

Galveston, with $3,884,735$ bales, ranks first among the districts in 1913 in exports of cotton, followed by New Orleans, with $1,350,336$ bales; Georgia, with 1,048,006; New York, with 615,418 bales; and North

Carolina, with 317,831 bales. The combined exports for the first three districts named amount to $6,283,077$ bales and represent 71.4 per cent of the total for the country.
Table 14-Exports of domestic raw cotton from the United States, by customs districts, for the year ending August 31: 1909 to 1913.
[Compiled by the Bureau of Foreign and Domestic Commerce, Department of Commerce.]

| CUSTOMS DISTRICRS. | EXPORTS (RUNNING BAJES). |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1913 | 1912 | 1911 | 1910 | 1909 |
| Total | 8,800,906 | 10,681,758 | 7,781,414 | 6,339,028 | 8,574,024 |
| Maine and New Hampshire. | 7,053 | 12,280 | 6,298 | 6,923 | 8,271 |
| Massachusetts............ | 159, 589 | 186,779 | 109,021 | 106,309 | 106,735 |
| Novy Yorls. | 615,418 | 655, 078 | 744, 479 | 734, 230 | 453,540 |
| Philadelphi | 62, 264 | 90,482 | 68, 177 | 62,558 | 64, 639 |
| Maryland. | 84, 512 | 130, 460 | 119,584 | 57,717 | 128, 474 |
| VIrginia. | 73,070 | 21, 666 | 16,010 | 6, 810 | 36,663 |
| North Caroline | 317,831 | 502, 426 | 383,112 | 298,595 | 403,209 |
| South Carolin | 228, 482 | 249,864 | 125,985 | 116,006 | 82,759 |
| Georgia. | 1,048,006 | 2, 158, 827 | 1,100,958 | 963,680 | 1,204,265 |
| Florida. | 125, 099 | 216, 424 | 124,056 | 144,513 | 169,466 |
| Mobile. | 143,147 | 357, 110 | 210,429 | 163,938 | 327, 185 |
| New Orlean | 1,350,336 | 1,600, 627 | 1,513,023 | 1,103, 922 | 1,957, 468 |
| Sabine.. | 138,642 | 199,887 | 200,943 | 142,381 | 153, 234 |
| Galvestou | 3,884,735 | 3,700, 237 | 2,761,529 | 2,130,524 | 3, 175, 890 |
| Laredo. | 50,713 | 4,782 | 491 | 1,927 | 6,116 |
| Fagle Pas |  |  | 50 | 620 | 1,420 |
| El Paso. |  |  | 144 | 916 | 2,405 |
| Arizona. | 325 | 700 | 955 | 1,025 | 499 |
| San Francisco | 262,917 | 211,778 | 84,955 | 60,169 | 82,528 |
| Oregon. | 3,716 |  | 500 | 200 | 300 |
| Washington | 104, 500 | 213,825 | 57,249 | 33,802 | 79, 128 |
| Dakota. | 520 | 4 | 39 | 605 | 265 |
| Minnesota. | 908 | 753 | 274 | 177 | 277 |
| Dulathand Superior | 50 |  |  |  |  |
| Michigan. | 91,021. | 122,472 | 100,012 | 70,939 | 94,614 |
| Ohio. |  | 350 |  |  |  |
| $B$ nifralo. | 8, 1449 | ¢, 462 | 6,014 | 2,060 | 2,478 |
| St. Lavrence | 8,037 | 16,024 | 3,185 | 4,890 | 4,430 |
| Western Verm | 2,885 | 2,536 | 5,234 | 4,025 | 2,725 |
| Eastern Vermont | 19,177 | 20,788 | 22,118 | 20,350 | 20,245 |
| Porto Rico. | 61 | 131 | 90 | 157 | 208 |

Net receipts of cotton, by ports.-The term "net receipts of cotton," as here employed, means the amount of domestic cotton received which has not been transshipped from some other port, and already included in the latter's receipts. These statistics must not be confused with those of exports. They include large quantities of cotton carried in the coastwise trade to New England and other Northern states and consumed in this country, as well as cotton carried to other ports and then exported. The statistics of such net receipts for the principal cotton-handling ports are presented in Table 15.

Table 15.-NET REGEIPTS OF RAW COTTON AT PRINOIPAL COTTON PORTS FOR THE YEAR ENDING AUGUST 31, FOR SPECIFLED YEARS: 1875 TO 1913.
[Compiled from Commerco and Finance of the United States.]

| Port. | net receipts of cotton (runming bales). |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1918 | 1912 | 1911 | 1910 | 1909 | 1905 | 1900 | 1895 | 1890 | 1885 | 1880 | 1875 |
| Galveston. | 4,035, 114 | 3,727,958 | 2,948, 354 | 2,501,412 | 3,657,156 | 2,879,336 | 1, 710,203 | 1,659,099 | 860,112 | 463,463 | 480,352 | 354, 027 |
| Port Arthur and Texas city. | 800, 313 | ${ }^{7} 786,355$ | 527, 989 | 163, 178 | 2, 217, 628 | ${ }_{2}{ }^{(1)} 8$ |  | ${ }_{2}$ (1) | ${ }_{1}^{(1)}$ |  |  | (1) |
| New Orleans. | 1,436,959 | 1,662, 698 | 1,608, 208 | 1,315, 328 | 2, 003,232 | 2,689, 520 | 1,867,153 | 2, 584, 11.5 | 1,973,571 | 1,529,592 | 1,504,654 | 993,481 |
| Mobile. | 230,699 | $\xrightarrow{3164,114}$ | 280, 821 | 255,665 138,234 | 393,911 $166 ; 616$ | - 329,556 | ${ }^{2} 340,640$ | ${ }_{\text {(1) }}^{253} 18$ | ${ }_{\text {261) }}^{2657}$ | 237071 | 358,971 | 320,822 |
| Pensacola | 125,633 | 216, 114 | 125, 343 | 138,234 | 166,616 | 195, 151 | ${ }^{(3)}$ |  |  |  |  | (1) |
| Branswich. | 240,500 | 425,462 | 218,948 | 227,301 | 325,127 | 199,193 | 94, 278 | (1) | (1) | (1) | (1) |  |
| Savannah.. | 1,300, 3684 | 2,386,302 | 1,402, 152 | 1,365, 825 | 1,520, 105 | 1,877,343 | 1, 0888,807 | 944,410 |  | 728,087 | 741,018 | 606,727 |
| Charleston. | 310,293 | 416, 013 | 286, 528 | 228,728 | 210,574 | 225, 366 | 245,523 | 423,487 | 327,079 | 507, 802 | 464,332 | 412,931 |
| Wilmington............... | 34, 953 | 548, 122 | 410, 182 | 312,511 | 409, 616 | 375, 383 | 282,300 | 234,621 472,540 | 134,916 | 94, 06.4 | 78,876 | 76,601 |
| Norfols and Newport Nows. | 722,803 | 862,217 | 593, 681 | 587,363 | 649, 162 | 841,174 | 432, 727 | 472,540 | 404,056 | 545,418 | 590,032 | 387,279 |
| Bathmore. | 84, 661 | 125, 893 | 119, 104 | 85,520 | 104, 839 | 72,427 | 101,648 | (1) | (1) | (1) |  |  |
| Philadelphia | 8,326 | 3,972 |  | 2,581 | 6, 818 | 13,645 | 36,238 | (1) | (17) 502 |  | (1) |  |
| New York. | 15,326 46,222 | 6,961 63,112 | 14,790 39,093 | 40,706 14,792 | 10,181 19,430 | 33,798 83,644 | 119,215 118,891 | $\underset{(1)}{187,794}$ | (1) 170 | (1) 9000 | (1) 229.426 | ${ }_{(1)}^{179,163}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

The three most important cotton ports from the standpoint of net receipts, and of exports as well, are, in the order of their importance, Galveston, New Orleans, and Savannah, and their net receipts during the year ending August 31,1913 , amounted to 6,778,937 bales, or 48.1 per cent of the total quantity of cotton produced in the country from the crop of 1912. The relatively large net receipts at Galveston in recent years are due largely to the increase in cotton production in Texas and Oklahoma and to some extent to increased transportation facilities.

Exports of cotton, by countries to which exported.--The annual exports of domestic raw cotton from 1821 to 1913, by countries to which exported, and the total value of these exports, are shown in the table on prge 22. The quantities are given in equivalent 500 -pound bales.

The figures in Table 16 are in equivalent 500pound bales and cover the fiscal year ending June 30, while those in Table 14 are in running bales, counting round as half bales, and relate to the year ending August 31. Table 16 shows the development of the export trade in raw cotton to the several countries. The total quantity exported during the year
ending June 30, 1913, amounted to $8,724,572$ bales of 500 pounds each, valued at $\$ 547,357,195$. Of this cotton $3,563,216$ bales, or 40.8 per cent, went to the United Kingdom; 2,350,761 bales; or 26.9 per cent, to Germany; and $1,014,834$ bales, or 11.6 per cent, to France-these three countries taking almost four-fifths of the total quantity exported.

The marked variations from year to year in the quantities of cotton exported to Japan may be attributed in part to irregularity in the supply of Indian cotton upon which the Japanese mills chiefly rely for their raw material. The exports to "all other countries" include cotton to India and to China, in which countries American cotton is used, to some extent, for mixing with short fiber native cotton and in the manufacture of goods requiring a longer staple cotton. The figures in Table 16 show only in part the ultimate destination of the cotton exported, as large quantities of it are reexported from the countries to which it was exported in the first instance. For example, the imports of American cotton into Bombay during the year ending August 31, 1912, were more than 200,000 bales, whereas the total amount exported direct to India was only 86,017 bales.

TABLE 16.-EXPORTS OF DOMESTIC COTTON-VALUE AND QUANTITY, WITH DISTRIBUTION OT THE QUANTITY BY COUNTRIES TO WHICH EXPORTED: 1821 TO 1913.
fCompiled from Commoree and Navigation of the United States. The statistics of axports differ silightly since 1865 from those shown in Table 22 because of a differenee

| ytar. | Total value. | EXPORTS OF DOMESTIC COTTON (RQUIVALENT 500-POUND DALES) TO- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total. | Unitod Kingdom. | Germany. | France. | Italy. | Spain. | Belgium. | Russia. | $\begin{aligned} & \text { Aus- } \\ & \text { tria } \\ & \text { Mun- } \\ & \text { gary. } \end{aligned}$ | Netherlands. | $\begin{gathered} \text { All } \\ \text { othor } \\ \text { Europe. } \end{gathered}$ | Japan. | Canada. | Mexico. | $\begin{aligned} & \text { Ali } \\ & \text { other } \\ & \text { coun- } \end{aligned}$ tries. |
| 1913 | 8547,357,195 | 8,724,572 | 3,563,216 | 2,350,761 | 1,014 | 478, | 298,435 | 214,246 | 70,625 | 109, 202 | 13,932 | 52,515 | 374, 802 | 148,292 | 19,906 | 14,824 |
|  | 565, 849,271 | 10, 675,445 | 4,197,336 | 3,052,764 | 1, 180, 895 | 011, 954 | 297,481 | 202, 172 | 106,558 | 120,476 | 34,908 | 80, 675 | 458,097 | 175,237 | 15, 149 | 41, 653 |
| 1911 | 585, 318,869 | 8,067,882 | 3,461, 054 | 2,208,707 | 1,021, 998 | 430, 296 | 242,073 | 150, 225 | 84, 941 | 79.530 | 18, 124 | 48, 713 | 150,724 | 156,824 | 4, 831 | 4,042 |
|  | 450, 447, 243 | 6,413,416 | 2,444, 558 | 1,887,657 | 968, 422 | 303, 327 | 178,455 | 102,346 | 67, 203 | 57, 220 | 18, 823 | 43,378 | 95, 000 | 125, 592 | 29,604 |  |
|  | 417,390,655 | 8,895,970 | 3,605,355 | 2,438,090 | 1,098, 173 | 505, 605 | 301, 789 | 157,631 | 96,675 | 94, 782 | 30, 129 | 58, 174 | 208, 943 | 131, 453 | 42,575 | 6,506 |
| 1908 | 437,788, 202 | 7,633, 997 | 2,956,352 | 2,385, 663 | 889,083 | 418,921 | 202, 744 | 119, 470 | 98,371 | 90, 049 | 27,684 | 02, 125 | 200,396 | 113,997 | 4,767 | 4,375 |
| 1907 | 481,277,797 | 0,030,434 | 3,966,119 | 2,315,051 | 1,006,633 | 567,916 | 275, 868 | 154, 168 | 121,141 | 113,630 | 29,092 | 65,083 | 262,283 | 150, 343 | 732 | 7,775 |
| 1906 | 401,005, 221 | 7,208,000 | 3, 181, 143 | 1,871,441 | -817,583 | 480, 607 | 241,747 | 114, 673 | 112, 480 | 56,375 | 18,490 | 44, 486 | 147, 269 | 141, 908 | 20,285 | 4,503 |
| 1505 | 379, 965,014 | 8, 009,698 | 3, 067,254 | 2,011,679 | 818,304 | 534,735 | 205,537 | 145, 564 | 129,060 | 62, 572 | 31,103 | 72,811 | 336,575 | 115,857 | 79,082 | 9,405 |
|  | 370, 811, 246 | 6, 120,386 | 2,475,752 | 1,797,354 | 734, 286 | 363,295 | 184, 862 | 105, 213 | 168, 506 | 28,158 | 16,055 | 61,488 | 45, 870 | 88,795 | 56, 172 | 80 |
| 1903. | 316, 180,429 | 7,080 | 2,799,096 | 1,915,094 | 806, 673 | 444, 950 | 206,336 | 157,361 | 181, 938 | 39,912 | 42,542 | 82,243 | 152,826 | 127,640 | 66,507 | 2,978 |
|  | 290, 651,819 | 7,001,558 | 3, 132,324 | 1,705,815 | 775, 773 | 445, 437 | 270, 602 | 132, 232 | 73,446 | 39,757 | 22,418 | 61,679 | 178,505 | 129,016 | 27,500 | 7,005 |
| 1901. | 313,673,443 | 6,661,781 | 3, 106,857 | 1,629, 935 | 754,329 | 365,359 | 237, 346 | 154, 682 | 53,171 | 37,238 | 53, 180 | 52,325 | 78,558 | 102,980 | 35, 103 | 718 |
| 1900 | 241, 832,737 | 6, 201, 168 | 2, 302,128 | 1,611, 173 | 736,092 | 443,951 | 246,012 | 148,319 | 54, 950 | 44, 919 | 74,635 | $65,635$ | $\begin{aligned} & 323,202 \\ & \hline 102 \end{aligned}$ | 109,983 | 18, 522 | 13,045 |
| 1899. | 209, 564, 774 | 7,510,821 | 3, 600,444 | 1,728,975 | 803, 408 | 417,353 | 248,035 | 129,524 | 95,012 | 57, 127 | 51, 621 | 84,500 | 182,734 | 98,230 | 36, 130 | 4, 130 |
| 1898. | 230, 442,215 | 7,700,529 | 3, 532,101 | 1,858,525 | 842, 038 | 387,581 | 203, 648 | 161, 941 | 103,825 | 35,614 | 43,509 | 69,189 | 224,214 | 122,495 | 42,438 | ,416 |
| 1897 | 230, 800,971 | 6, 207, 510 | 3,127,186 | 1,371,577 | 716,025 | 323,117 | 219, | 83, 485 | 84, 5 | 23,971 |  | 48,790 | 64, 022 | 80,408 |  | 333 |
| 1890 | 100, 056,400 | 4,670,453 | 2, 237, 222 | 1,038, 457 | 478,265 | 201,644 | 216, 178 | 87,966 | 91,622 | 15, 912 | 14,219 | 51,367 | 40,388 | 68, 074 | 38,817 | 22 |
| 95 | 204,900, 990 | 7,034, 866 | 3,553,782 | 1,504, 131 | 790,699 | 332, 656 | 255, 679 | 145, 340 | 111,998 | 24, 852 | 25, 999 | 55.319 | 22, 130 | 105,534 | 75,953 | 204 |
|  | 210,869,289 | 5,366, 565 | 2,970, 003 | 1,909,389 | 610,854 | 211,716 | 225, 304 | 128,907 | 140, 082 | 960 | 18,581 | 39,686 | 9,603 | 65,085 | 35, 165 | 270 |
| 03. | 188, 771, 445 | 4,424,230 | 2,363,176 | 850,387 | 508, | 160,019 | 200,212 | 90, 399 | 36,356 |  | 26,614 | 22,449 | 1,586 | 62,988 | 41,812 | 73 |
|  | 258,461, 241 | 5,870, 410 | 3,381,685 | 1904, 883 | 692,785 | 171,003 | 187, 458 | 134,373 | 134, 392 | 10,052 | 27,925 | 38,996 | 3,149 | 70, 228 | 44, 235 |  |
| 1891 | 290, 712, 898 | 5, 814, 718 | 3,401,212 | 1,019, 144 | 553, 100 | 194, 022 | 218, 836 | 97, 423 | 135,611 | 4,447 | 43,669 <br> 17 | 47, 478 | 4,813 | 60,201 | ${ }_{2}^{25,682}$ | 20 |
|  | $250,968,792$ <br> 237 <br> 755 | $4,943,600$ $4,709,633$ | 2,905, 152 | $\begin{aligned} & 837,641 \\ & 600,756 \end{aligned}$ | $\begin{aligned} & 484,759 \\ & 4 n 0,197 \end{aligned}$ | $\begin{aligned} & 129,751 \\ & 191,068 \end{aligned}$ | $\begin{aligned} & 175,339 \\ & 181,533 \end{aligned}$ |  | 193, 163 | 5,300 5,610 | 17,438 | 19,927 |  | $\begin{aligned} & 58,473 \\ & 61,143 \end{aligned}$ | 20,095 33,802 | 1,974 263 |
| 1888 |  |  |  | 560 | 392, | 110,375 | 1;9,331 |  | 216, |  | 27,725 | 18,258 |  | 52,052 |  | 52 |
|  | 200,222,05 | 4, 338, 915 | 2, 713,515 | 561. | 466,090 | 73,222 | 138,499 | 110, 288 | 151,267 |  | 43, 735 | 20,519 |  | 47,904 | 11; 951 | 161 |
|  | 205, 085, 642 | 4,116,075 | 2,444,482 | 569, 435 | 401, G43 | 110,473 | 108,414 | 125, 069 | 184, 924 | 5,252 | 31, 672 | 16,053 |  | 37, 425 | 21, 035 | 198 |
|  | 201, 96i, 458 | 3,783,319 | 2,419, 834 | 488,987 | 301, 462 | 79,041 | 135,319 | 85, 604 | 135, 131 | 3,898 | 37, 030 | 17,750 |  | 26, 308 | 11,754 | 151 |
|  | 197, 015, 204 | 3, 725, 145 | 2,384,254 | 303, 055 | 457,369 | 51,725 | 135, 828 | 30,803 | 193, 639 | 1.762 | 53, 013 | 11,027 |  | 19,216 | 22,368 | 26 |
| 1883. | 247,328,721 | 4,5 | 2,776,411 | 538,6 | 428,829 | 80,607 | 196,939 | 42,055 | 347,354 | 4,650 | 57,610 | 28,780 |  | 32, 636 | 41,155 | 335 |
|  | 189, 812, 6 | 3,479,052 | 2,361,793 | 324,0 | 333,541 | 44,073 | 115,264 | 4,732 | 184,233 | 189 | 33, 820 | 16,700 |  | 35,159 | 25,075 | 105 |
| 1881. | 247, 695,746 | 4,381, 857 | 2,720, 672 | 400, 102 | 553,854 | 75, 145 | 127,741 | 18,318 | 207,714 | 4,218 | 67,502 | 18,211 |  | 25,900 | 26,772 | 558 |
| 1880 | 211,535,905 | 3,644,122 | 2,433, 255 | 308, 045 | 359,693 | 59,120 | 133,873 | 17,896 | 204, 500 | 1,698 | 65,325 | 21,097 |  | 19,610 | 10,783 | 31. |
| 1879. | 162,304,250 | 3,256,746 | 1,067,549 | 274,960 | 393,977 | 47,617 | 141,215 | 19,127 | 308, 647 | 2,533 | 51,734 | 13,280 |  | 15,481 | 19,796 | 8.1 |
| 1878 | 180, 031,484 | 3,215, | 2,070,897 | 243,2 | 472,062 | 36,2 | 81,371 | 28,383 | 170,858 | 3,636 | 55, 909 | 22,413 |  | 14, 165 | 6,844 | 10 |
| 1877 | 171, 118, 508 | 2, 800,788 | 2,040,781 | 155,211 | ${ }^{438,178}$ | 23,096 46 | 92, 061 | 4,597 | 50,219 |  |  | $\begin{aligned} & 13,202 \\ & 15,01 \end{aligned}$ |  | 11,017 | 7,940 | 785 |
| 76 | 192, 659,202 | ${ }_{3}^{2,582,811}$ | 1, 914, 6800 | -217,092 | 407,852 310,279 | 46,759 18,084 | 95,122 50.627 | 31,076 6,227 17 | 101,794 |  | 68,532 8,141 | $\begin{array}{r} 15,019 \\ 2,870 \end{array}$ |  | 9,961 | 13,945 <br> 2,610 | 899 |
|  | $\begin{aligned} & 190,638,625 \\ & 211,223,580 \end{aligned}$ | 2, ${ }^{2,517,205}$ | 1, $1,807,144$ | 229, 2127 | 351,731 | 24, 597 | 106, 718 | 6,227 <br> 7 <br> 107 | 108, |  | 38,000 | 18,041 |  | 8,022 | 4,579 | 49 |
| 1873. | 227,243,069 | 2,400,127 | 1,717,209 | 190 | 226, | 30, | 55 | 24,253 | 99, | 2,758 | 38, 172 | 10,910 |  | 2,988 | 1,101 | 56 |
| 1872 | 180, 6814,595 | 1,867,075 | 1,407, 830 | 85,033 | 176,374 | 11, 845 | 65, 142 | 20,197 | 49,367 |  | 45,570 |  |  | 3,792 | 1,914 |  |
|  | 218, 327, 109 | 2,925,856 | 2,204, 645 | 207, 972 | 110, 223 | 42,915 | 94,312 | 35,867 | 62,271 | 4,330 | 111,405 | 14, 220 |  | 4,786 | 22,619 | ,291 |
| 1870 | 227,027,624 | 1,917,117 | 1,298,332 | 173,552 | 306,293 | 14,549 | 55,400 | 3,452 | 30,341 |  | 17,050 | 1,621 |  | 3,122 | 13,219 | 177 |
| 1869. | 162,033,052 | 1,288, 650 | 873,087 | 140,855 | 201,116 | 8,956 | 32,317 | 374 | 19,525 |  | 5,331 | 536 |  | 2,244 | 4,084 | 231 |
| 1868. | 152,820,733 | 1,509,527 | 1,120,030 | 152,643 | 180,400 | 12,006 | 51,241 | 1,608 | 11,748 | 331 | 5,045 | 675 |  | 2,091 | 10,457 | 26 |
| 186 | 201,470,423 | 1,322, 947 | 1,048,641 | 56,306 | 187,855 | 7,223 | 22,068 | 1,775 | 10,179 |  | 514 | 214 |  | 1,288 | B, 622 | 9 |
| 1866 | 281,385, 223 | 1,301, 146 | 1,024,728 | 32,276 | 216, 770 | 397 | 17,631 | 653 | 5,372 |  | 283 | 1,107 |  | 1. 6183 | 101 | 485 |
| 1865 | 6,836, 500 | 13,214 | 12,009 | 283 | 714 |  |  |  |  |  |  |  |  | 184 |  |  |
|  | 9, 805, 854 | 23,958 | 19,302 | 47 | 3,557 | 117 |  |  |  |  |  |  |  | 10 | 35 | 20 |
| 1863 | 6, | 22 | 10, |  | 2, 534 |  |  |  |  |  | 26 |  |  | 303 |  | 2 i |
| 1862 | 1,180,113 | 10,129 | 7,091 | 17 |  | 1,088 | 1,166 |  |  |  |  |  |  | 115 |  |  |
|  | 34,051,483 | 615,032 | 414, 685 | 23,798 | 114,541 | 9,373 | 22,310 | 11,364 | 8,502 |  | 5,301 | 1,767 |  | $3{ }^{303}$ | 2,821 | 67 |
| 1860 | 101,806,555 | 3,535,373 | 2,528,274 | 132,145 | 567, 935 | 54,037 | 88,044 | 29,601 | 43,396 | 14,943 | 25,515 | 30,013 |  | 2,771 | 18,087 | 612 |
|  | 161, 434, 923 | 2,772,937 | 1, 887,372 | 131,362 | 372,981 | 42,977 | 121,046 | 28, 657 | 87,240 | 33, 113 | 32,311 | 22,690 |  | 114 | 11,987 | 1,087 |
| 1858. | 131,380,601 | 2,237, | 1,561,005 | 58, 872 | 357 | 38, 896 | 70,261 | 18, 091 | 64,220 | 13,960 | 16,905 | 8,334 |  | 261 | 18, 169 |  |
| 1857 | 131,575,859 | 2,095,565 | 1,367,996 | 80, 660 | 348,469 | 34,480 | 91,114 | 24, 195 | 63,867 | 15,229 | 20,869 | 22,544 |  | 1,715 | 15,917 |  |
| 1856 | 128,382,351 | 2,702, 863 | 1,798, 6156 | 124, 219 | 443,535 | 41,710 | 116,959 | 46,343 | 9,287 | 37,306 | 26,103 | 38, 114 |  | 8,317 | 12,021 | 23 |
| 1855 | 88, 143,844 | 2,016,849 | 1,346, 197 | 61, 642 | 420, 228 | 49,787 | 66, 143 | 24,439 | , 898 | 1,910 | 0,883 | 18, 188 |  | 1,766 | 15,054 | 19 |
|  | 33, 596, 220 | 1,775,606 | 1,392,494 | 75,4 | 288, 357 | 25, 452 | 70,048 | 27, | 5,830 | 29, 822 | 12,096 | 21, 589 |  |  | 24,292 | 1, 510 |
| 1853 | 109,456,404 | 2,223,141 | 1,537,193 | 46,280 | 378,454 | 34, 976 | 73,702 | 30,989 | 42,573 | 35, 937 | 14,078 | 13,463 |  | 24 | 14,928 | 544 |
|  | 87,965, 732 | 2, 156,461 | 1,505,148 | 44,277 | 372,428 | 35,868 | 58, 604 | 54, 316 | 20,050 | 47,897 | 20,518 | 12,396 |  | 33 | 13,400 | 626 |
| 51 | 112,315, 317 | 1,854,474 | 1,341,200 | 34, 480 | 278,329 | 20, 641 | 68, 545 | 32, 670 | 20,197 | 34,618 | 11,018 | 10,639 |  | 47 | 1,692 | 308 |
| 1850 | 71,984,616 | 1,270,763 | 803.062 | 10,000 | 251,6i88 | 18,707 | 55, 553 | 25,492 | 8,677 | 18,492 | 8,590 | 7,532 |  | 89 | 2,627 | 5,764 |
|  |  | 2, 053,204 | 1,478,690 | 27,689 | 302, 080 | 33,316 | 46,572 | 56,227 | 21,301 | 20, 559 | 23,775 | 26,003 |  | 194 | 4,437 | 5,761 |
| 1848 |  | 1,628,549 | 1,144,006 | 35,074 | 272,506 | 17,184 | 38, 647 | 30,559 | 20,534 | 40,868 | 0,703 | 10, 129 |  | 45 |  | 9,204 |
|  |  | 1,054,440 | 702,538 | 21,779 | 204,235 | 26, 331 | 24,627 | 20,369 | 11,237 | 23,561 | 3,957 | 7,277 |  | 208 |  | 8,221 |
| 18 |  | 1, 095, 116 | 692,317 | 15,391 | 294, 106 | 28, ${ }^{1220}$ | 235 | 14, 817 | 8,585 | 26,704 | 7,700 | 7,324 |  | 95 | 8,785 | 20,377 |
| 1845 |  | 1, 745, 812 | 1,210,290 | 34, 605 | 295,659 | 13,714 | 673 | 28, 595 | 14,991 | 41,786 | 25,099 | 7,887 |  | 166 | 3,323 | 69,024 13,291 |
|  |  | 1,327,267 | 973,459 | 12,579 | 240, 120 | 6,340 | 8,249 | 19,771 | 5,536 | 24,450 | 6,155 | 2,610 |  | 2,797 | 11,893 | 13,291 |
| 1843 |  | 1,584,594 | 1, 160,691 | 30,507 | 273,629 | 18,371 |  | 30,287 | 6,85s | 12,032 | 16,348 | 898 |  | ${ }^{6}$ | 3,265 | 22,702 |
| 184 |  | 1,150, 434 | 757, 395 | 19,525 | 311,643 | 8,817 |  | 10,455 | 5,668 | 14,187 | 16,783 | 2,477 |  | 36 |  | 16,448 |
| 1810 |  | 1,060,408 | 696, 613 | 12,992 | 278,790 | 3,738 |  | 10,632 | 1,972 | 16,263 | 5,270 | 4, 194 |  | 559 |  | ${ }^{20,355}$ |
| 184 | 63,870,307 | 1,487,882 | ${ }^{989} 830$ | 18,317 | 358, 180 | 7,80.5 | 1,049 | 25,780 | 4,406 | 26,336 | 21, 673 | 5.160 |  | 59 |  | 29,262 |
|  |  | 827,248 | 621, 548 | 1:780 | 179,565 | 10 | 1,179 | 2,711 | 4,209 | 4,741 | 3,731 | 3,270 |  |  |  | 4,504 |
| 1838 |  | 1,101, 905 | 883,716 | 9,437 | 240,649 | 460 | 5,663 | 11, 405 | 5,577 | 11,314 | 15,291 | 3,069 |  | 13 | 112 | 5,109 |
| 1837 |  | -888, 423 | 643, 159 | 7,530 | 1988, 617 | 1,107 | 4,665 | 3, ${ }^{1,539}$ | 1,995 | 16,860 | 4,345 | 3,609 |  | 16 | 14 | 3,977 |
|  |  | 847, 263 | 535, 018 | 14,130 5,414 | 202,727 200,994 | 322 26 | 3 3,252 | 7,900 | 2, 833 | 13,925 | 88,841 | B, 867 |  | 22 | 14 | 1, 1,332 |
| 1834 |  | 769,438 | 569, 448 | 13,235 | -159, 887 | 382 | 1,780 | 2.818 2,410 | 2,521 | 7,611 | 8,505 9,848 | 2,128 |  | 18 |  | ${ }_{152}^{1,161}$ |
| 1833. |  | 649,397 | 475, 484 | 3,751 | 153,660 |  | 1,513 | 2,619 | 2, 805 | 2,215 | 2,727 | 2,788 |  | 36 | 290 | 404 |
| 1832 |  | 644, 430 | 458,015 | 8,150 | 154, 335 | 1,162 | 4,568 | (1) | 1,678 | 3,309 | 2 7,840 | 3,750 |  | 72 |  | 945 |
| 1831 |  | 553,060 | 441, 634 | 4,834 | 92, 257 | 612 | 1,111 |  | 1,524 | 5,558 | 1,945 | 3,738 |  | 678 |  |  |
| 1830 | 29,674,883 | 596,918 | 419, 661 | 2,246 | 150,212 | 471 | 64 |  | 223 | 5,629 | 17, 135 | 1,257 |  | 19 |  |  |
| 182 |  | 529, 674 | 349,120 | 13,746 | 234,408 | 2,113 |  |  | 456 | 8,142 | 19,196 | 1,949 |  | 21 |  | 523 |
| 1828. |  | 421, 181 | 293,666 | 6,782 | 106, 962 | 814 |  |  | 1,300 | 1,001 | 7,562 | 1,853 |  | 33 |  | 248 |
| 1827 |  | 588, 620 | 425,415 | 6,797 | 140,848 | 296 | 16 |  | 294 | 866 | 11,725 | 2,545 |  | 70 |  | 248 |
| 1825. |  | 409,071 | 267,758 | 4, 121 | 124,337 |  |  |  | 31 | 67 | 9,185 | 2,872 |  | 65 |  | 35 |
| 1824 |  | 286,739 |  | 1,154 590 | 81,396 | 2 |  |  | 268 |  | 2,840 | 1,130 |  | 41 | 4 | 0 |
| 182 |  | 347,447 | 280,368 | 4,717 | 49,987 | 43.5 |  |  | 619 | 356 | 9,301 | 1,455 |  | 2 | 4 | 13 |
| 1822 |  | 289,350 | 228,928 | 5,911 | 43,016 | 3,913 |  |  | 1,428 | 20 | 3,941 | 674 |  | , |  | 1,117 |
| 1821. |  | 249,787 | 175.438 | 1.496 | 54,878 | 1.796 | 570 |  | 609 | 70 | 8,372 | 2,188 |  |  |  | 4.370 |

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square yards, valued at $\$ 14,928,599$, were exported during the year. Nearly three-eighths of this quantity was sent to China, other countries in the order of the amount taken being Aden, British East Africa, India, Canada, Chile, Colombia, Philippine Islands, and Turkey. Dyed, colored, and printed cloths to the value of $\$ 12,578,109$ were expor'ted during the year. The most important customer for these was the Philippine

Islands, but large quantities were also sent to the West Indies, Central and South America, and Canada. Of the other cotton goods exported, Canada was the largest customer, taking very large proportions of the clothing and other wearing apparel, and of "All other manufactures of cotton." The United Kingdom and Germany took large quantities of waste, while almost one-half of the total exports of yarn went to Canada.

Table 19.-EXPORTS OF DOMESTIO MANUFACTURES OF COTTON, BY COUNTRIES TO WHICH EXPORTED, FOR THE YEAR ENDING JUNE 30, 1913.
[Compiled by the Bureau of Foreigu and Domestic Commerce, Department of Commerce.]

| COUNTRY. | dxparts of domestic manupagtures of cotton. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total value. | Cloths. |  |  |  |  |  | Clothing and other wearing apparel. |  | Cotton waste. ${ }^{\text {- }}$ |  | $\begin{array}{\|c} \text { Yarn } \\ \text { (value) } \end{array}$ | Al!othermanufac-tures ofcotton(value). |
|  |  | Unbleached. |  | Bleached. ' |  | Dyed, colored, or printed. |  | Knit goods (value). | All other(value). | Pounds. | Value. |  |  |
|  |  | Yards. | Value. | Yards. | Value. | Yards. | Value. |  |  |  |  |  |  |
| Tota | \$53,743, 977 | 213, 189, 754 | 814, 928,599 | 39,405, 028 | \$3,101,526 | 192,044,459 | \$12,578, 109 | \$2, 613,806 | \$8,445,377 | 78,624, 075 | \$4,449,481 | \$71.8,428 | \$6,848,656 |
| Europe: <br> United Kingdom <br> Gormany. <br> Turkey (inciading Asiatic Turkey). <br> Belyinm. | 4,782,758 | $\begin{array}{r} 1,255,400 \\ 46,920 \\ 6,378,660 \end{array}$ | $\begin{array}{r} 286,553 \\ 12,539 \end{array}$ | 158,974 3,164 | 20,688 | $\begin{array}{r} 1,052,602 \\ 123,600 \end{array}$ | $136,882$ | $\begin{aligned} & 1,041,498 \\ & 30,834 \end{aligned}$ | 807, 253 | $\begin{array}{\|l\|} 32,279,112 \\ 17,900,757 \end{array}$ | $\begin{aligned} & 2,0,07,519 \\ & 1,003,260 \end{aligned}$ | 9,802297 | $\begin{aligned} & 492,562 \\ & 142,399 \end{aligned}$ |
|  | 1,304,519 |  |  | 3, 164 |  |  | 33,804 |  | 12,354 |  |  |  |  |
|  | 516,0741 |  | 425,718 | $\begin{gathered} 199,506 \\ 2,384 \end{gathered}$ |  | 394,019 |  | $\begin{array}{r} 1,569 \\ 8,841 \\ 103 \end{array}$ |  |  |  |  |  | $\begin{aligned} & 23,53, \\ & 60,08 \end{aligned}$ |
|  | 532,461 221,260 |  |  |  |  | ….......0 | .............. |  |  |  |  |  |  |  |  |
| Netherlands | 161, 108 | 7,473 | 2,505 |  |  |  | …… 100 | $\begin{aligned} & 16,350 \\ & 33,644 \end{aligned}$ |  | $\left\|\begin{array}{r\|r} 1,34,719 & 104,440 \\ 1,52,719 & 114,265 \\ 2,524,265 & 69,075 \end{array}\right\|$ |  | $\begin{array}{ll} \cdots & 197 \\ 40 \end{array}$ | $60,018$ $80,181$ |  |
| Franco................... | 177,763 | 11,390 | 2,199 | 2,0331,562 | 293187 |  | 1,874 | $\begin{aligned} & 4,224 \\ & 1,082 \end{aligned}$ |  | $\begin{aligned} & 1,524,265 \\ & 2,52,265 \\ & 1,618,311 \end{aligned}$ | $\begin{array}{r} 69,075 \\ 109,853 \end{array}$ |  | 15,5188 <br> 83 <br> 120 |  |
| Russia (including Asiatic | 21,900 | 1,883 | 201 |  |  |  |  |  |  |  |  |  | 83,21072,4635,73353,113 |  |
| Spaia.... | 58,247 | 6, 6888 | 80.898 |  |  |  | $\dddot{8}, 26 \overline{5}$ |  | $\begin{array}{r} 2,080 \\ 45,124 \end{array}$ | - 474,888 |  |  |  |  |
| All other Europe | 200, 220 | 752, 208 | 80,723 | 42,260 | 5,406 |  |  | $\begin{array}{r} 1,054 \\ 5,408 \\ 434,551 \\ 41,294 \\ 0,290 \end{array}$ |  | $\begin{array}{r} 118,898 \\ 8,568,998 \\ 154,374 \end{array}$ |  |  |  |  |
| Canada... | 10,536, 412 | 9,714, 205 | 779, 084 | $\begin{array}{r} 4,948,230 \\ 552,881 \\ \hline \end{array}$ | $\begin{array}{r} 491,778 \\ 80,849 \end{array}$ |  | $\begin{array}{r} 1,321,377 \\ 159,984 \\ 2009 \\ \hline \end{array}$ |  |  |  | $\begin{array}{cc} 544,662 & 350,087 \\ 10,275 \\ 00,250 & 1,035 \\ 0 & 1, \end{array}$ |  | $\begin{aligned} & 3,383,732 \\ & 275,306 \end{aligned}$ |  |
| Moxico.. | 1, 0142,892 | 443, 080 | 109,406. |  |  |  |  |  | $\begin{array}{r} 3,231,141 \\ 380,689 \end{array}$ |  |  |  |  |  |  |
| Panama. | 1, 122,185 | 4,702,641 | 251,407 | 500,115 101,825 | $\begin{aligned} & 80,849 \\ & 44,834 \end{aligned}$ | $\begin{aligned} & 1,051,973 \\ & 3,874,441 \\ & 0 \end{aligned}$ |  | $\begin{array}{r} 41,294 \\ 98,506 \end{array}$ | $\begin{aligned} & 380,689 \\ & 513,663 \end{aligned}$ | $\begin{array}{r} 475,631 \\ 9,951 \end{array}$ | 32,871 803 | 1, 145 |  |  |
| Honduras. | 690, 508 | 2,553, 980 | 140,796 | - 918,3980 | $\begin{aligned} & 77,429 \\ & 49,354 \end{aligned}$ | $\begin{gathered} 2,277,482 \\ 4,842,324 \\ 2,696,966 \end{gathered}$ | 332,286 | 10,236 | -98,051 |  | 1,451 $\cdots \cdots \cdots$ |  |  |  |
| Guatemala | 427, 445 | 1,954,712 | 120, 576 |  |  |  |  | 5, <br> 4,825 <br> 802 | 38, 658 |  |  |  | $\begin{aligned} & 37,668 \\ & 25,683 \end{aligned}$ |  |
| Nicaragua. | 340, 401 | - 421,458 | 38,352 | 237,70793,739 | $\begin{gathered} 21,405 \\ 7,206 \\ 70 \end{gathered}$ | 2, $2,68,542$ | $\begin{aligned} & 167,700 \\ & 135,217 \end{aligned}$ |  | -92, 207 | 24,985 17,715 |  |  | 12 $\begin{aligned} & 25,683 \\ & 23,668\end{aligned}$ |  |
| Costa Rica..... | 293, 202 | 1, 489, 140 | 80, 901 |  |  |  |  | $\begin{aligned} & 5,269 \\ & 3,343 \end{aligned}$ | $\begin{aligned} & 37,960 \\ & 31,521 \end{aligned}$ | $\begin{aligned} & 29,611 \\ & 13,118 \\ & \hline 18 \end{aligned}$ | $\begin{array}{r}1,2054 \\ 2,733 \\ \hline 8\end{array}$ |  | 8 17, 78. |  |
| British Honduras | - 135.123 | 284, 012 | 19,902 | 205,996$3,031,900$ | $\begin{array}{r} 7,206 \\ 18,464 \end{array}$ |  |  |  |  |  |  |  |  |  |
| Cuba. | 2,903, 395 | 2, 781,608 | 321, 245 |  |  |  | 1, 1004,998 | $\begin{array}{r} 3,343 \\ 185,444 \end{array}$ |  |  |  | 2,916 | $\begin{array}{r} 18,507 \\ 506,387 \end{array}$ |  |
| Santo Domingo | 1,465,690 | 1, $1,914,052$ | 114, 753 | 1, $1,217,3884$ | $\begin{aligned} & 75,781 \\ & 86,851 \end{aligned}$ | $\begin{aligned} & 16,260,460 \\ & 18,036,019 \\ & 10,020 \end{aligned}$ | 1, 243,8685 | $\begin{array}{r} 185,444 \\ 1,395 \\ 18,143 \end{array}$ |  |  | $\quad 928$ 2,410 |  | - 18,418 |  |
| British West Indies | 953, 639 | 2,746,907 | 226,729 | 377,672 169,018 | $\begin{aligned} & 25,771 \\ & 10,981 \end{aligned}$ | $\begin{gathered} 7,165,725 \\ 050,054 \end{gathered}$ | $\begin{array}{r} 476,229 \\ 54,909 \end{array}$ | $\begin{gathered} 33,823 \\ 2,090 \\ 0,00 \end{gathered}$ | $\begin{gathered} 145,338 \\ 9,728 \end{gathered}$ | $\begin{gathered} 35,544 \\ 8,806 \end{gathered}$ | , 673 <br> 711 | 60290 | - ${ }^{42,474}$ |  |
| Dutch West Indies. | 104, 531 | 157,606. | 13,857 |  |  |  |  |  |  |  |  |  |  |  |
| Danish West Indies. | 28,302 | 20, 742 | 3, 627 | 9,036 |  | 129, 642 | 8,791 | 2,395 | 0,414 | 12,463 |  |  | 2,129 |  |
| French West Indies (including Miquelon)....... | 19,625 | 24, 022 | 4,000 | 18,063 | 1,248 | 93,797 |  |  | 1,116 |  | 251 |  | 6, 120 |  |
| Bermuda... | 68,410 | 5,807 | 580 | 31,544 | 3,309 | 67,223 | 5,241 | 18,343 | 23,611 | 2,318 | 212 | 140 | 16, 884 |  |
| South Amorica: | 808, 674 | 8,346,412 | 537,105 | 1,870,722 | 129, 032 | 280, 214 | 23, 269 | 17,583 | 34,252 | 27,782 | 2,123 |  |  |  |
| Colomb | 1,453, 774 | 7,281, 690 | 379,911 | 1, 795,938 | 51, 130 | 18,310, 123 | 905,706 | 3,879 | 44, 275 | 36,684 | 2,643 | 32, 242 | 33,988 |  |
| Brazil | 386, 368 | 140,453 | 27,375 |  | 27, 372 | 828, 183 | 65,300 | 10, 925 | 156, 180 | 33,048 | 2,016 | 10,766 | 79, 834 |  |
| Argentina | 540,796 | 1,377,733 | 167,208 | 35, 562 | 3,313 | 116,089 | 9, 419 | 30,907 | 171, 379 | 5,683 | 468 | 88, 813 | 69,234 |  |
| Venezuela | 376,314 | 1,854, 264 | 197, 317 | 207, 967 | 15,463 | 1,806, 674 | 131,325 | 374 | 3,330 | 40, 883 | 3,302 | 58 | 25, 139 |  |
| Gutana. | 77, 569 | 249,180 263,021 | 20,472 34,679 | 33,508 8,629 | 2,824 | 757,675 | 44,141 2,922 | 1,358 | 4,035 45,907 | 2,537 | 113 |  | 4, 008 |  |
| Peric... | 108,331 | 1,000, 554 | 68,710 | 209, 476 | 14,692 | 556,487 | 42, 072 | 11, 196 | 45, 005 | 28, 446 |  |  | 32,754 15,025 |  |
| Eenador | 218,233 | 281, 670 | 19,773 | 264, 740 | 21,371 | 2,379,883 | 136, 010 | 188 | 16,228 | 20,438 | 1,513 | 295 | 21, 955 |  |
| Bolivia. | 205, 645 | 2,788, 745 | 166,752 | 1,135,248 | 66, 962 | 755, 6093 | 62, 387 | 1,790 | 5,936 | 6,963 | 538 |  | 1,280 |  |
| Parazuay: | 3,261 | 0,026 | 1,139 |  |  | 12, 421 | 1,243 | 254 |  |  |  |  | 476 |  |
| Ashannac.... | 5,796, 884 | 78, 161, 1 184 | 5,373, 877 |  | 2,732 | 2,275,086 | 208, 376 | 120,875 | 67,845 |  |  | 1,68 | 21,594 |  |
| Aden | 1, 433,950 | 24, 880,270 | 1, 433, 113 | 10,225 |  |  |  |  | 10 |  |  | 1, | 21, 094 |  |
| British In | 1,276, 076 | 12, 035 , 236 | 1, 103, 148 | 989,223 | 84, 858 |  |  |  | 25,384 |  |  |  | 12,634 |  |
| Japan.... | 109, 2866 | 38, 5444 | $\begin{array}{r} 8,077 \\ 183,59 \end{array}$ | 111,381 | $\begin{aligned} & 11,24 \\ & 23,2420 \end{aligned}$ | $\begin{array}{r} 5,576 \\ 1.028,711 \end{array}$ |  | 2,188 | $12,72(6)$ | 4,019 | 256 |  | 72,276 |  |
| Hongkong..... | 545,410 $1,813,058$ | 824,442 $4,918,467$ | 133,598 307,702 | - I 263, 463,2865 |  | $\begin{aligned} & 1,028,711 \\ & 3,323,371 \end{aligned}$ | 107,007 | 72,066 131,222 | 12,863 662,563 | 6,700 | 591 | $\begin{array}{r}108,678 \\ 7,070 \\ \hline\end{array}$ | 27, 278 1969 |  |
| Philippine Islands......... | 7,077,165 | 6, 745,700 | 500,873 | 16,994,879 | 1,260,253 | 69, 519,126 | 4,016, 150 | 97, 883 | 420, 101 | 139,731 | 12,720 | 13,297 | 749,698 |  |
| All other $\Lambda$ sia and Oceania. | 116, 514 | 73, 626 | 12,075 | 68,020 | 6,543 | 591, 745 | 44,035 | 2,868 | 33, 831 | 5,210 |  |  | 16,609 |  |
| British East Africa. | 805,517 | 15, 174, 654 | 706, 221 |  | 7,040 |  |  |  |  |  |  |  |  |  |
| British South Africa | 298, 201 | 6, 62,582 | 12, 167 | 70, 473 | 13,837 | 118,517 | 13, 852 | 30,336 | 209, 833 | 2,054 | 153 | 163 | 8,950 |  |
| All other Africa. | 424, 027 | 6, 536, 756 | 373, 012 | 193,310 | 12,786 | 60,055 | (6, 551 | 6,202 | 15, 728 |  |  |  | 9,748 |  |

The imports of cotton manufactures into the United States for the year ending June 30, 1913, by countries from which imported are shown in Table 20.
The total value of cotton manufactures imported into the United States during the year ending June 30, 1913, amounted to $\$ 63,935,983$. The United King-
dom, Germany, France, and Switzerland, in the order named, contributed the largest amounts, these four countries furnishing 95 per cent of the total. The value of laces, edgings, embroideries, and the like was. $\$ 35,776,301$. Switzerland led in these goods, followed by France, Germany, and the United Kingdom.

Cloths imported during the yoar amounted to $43,637,361$ square yards, valued at $\$ 7,757,928$. Of this the United Kingdom furnished 31,298,292 yards, or 72 per cent of the total, and France more than onehalf of the remainder. During the yoar thread and
yarn valued at $\$ 4,449,254$ were imported, nearly all of which came from the United Kingdom. The imports of knit goods amounted to $\$ 3,089,411$, practically the entire amount coming from Germany, Switzerland being next in importance.

TABLE 20.-IMPORTS OF COTTON MANUFAOTURIES, BY COUNTRIES FROM WEICH IMPORTED, FOR THE YEAR ENDING JUNE 30, 1913.
[Compiled by the Burean of Foroign and Domestic Commerce, Department of Commerce.]

| COUNTRY. | imports of cotton manuractures. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total value. | Clotlis. |  |  |  |  |  | Clothing, readymade, and other wearing apparel. |  | Laces, edgings, embroideries, etc. (value). | Thread and <br> (value). | All other manufactures of cotion (value). |
|  |  | Dyed, colored, stained, etc. |  | Bleached. |  | Unbleached. |  |  |  |  |  |  |
|  |  | Square yards. | Value. | Square yards. | Value. | Square yarcls. | Value. |  | All other clothing (value). |  |  |  |
| Total. | 863,035,083 | 27,009,013 | \$5, 107,150 | 11,651,671 | 82,131, 127 | 4,311,677 | 8519, 045 | 83,080,411 | \$4,287, 643 | 835,776,301 | 34,449,254 | \$8,575,540 |
| Europe: <br> fnited Kingdom | 20,361,306 | 20,306,569 | 3, 473, 294 | 7,351,835 | 1,108, 801 | 3,639,888 | 401,438 | 75,925 | 174,713 | 7,352,077 | 3,754,209 | 4,020,039 |
| Germany-........ | 16,406, 123 | 1,747,784 | 340,159 | 243,067 | 1, 58, 427 | 653,694 | 13,185 | 2,764,054 | 2,376, 454 | 7,549,308 | -488,961 | 2, 815,575 |
| France. | 12, 264, 492 | 3,037,301 | 839, 340 | 2,871,706 | 775, 127 | 306,801 | 70, 902 | 90, 988 | 1,518,229 | 7,997,624 | 17,924 | 848,268 |
| Switzerland..... | 11, 646,075 | 132, 195 | 24,559 | 1,013,872 | 102, 568 | 233, 532 | 31,054 | 135, 4187 | -7,935 | 10,680,079 | 184, 173 | 319,320 |
| Austria-Hungary | 600,780 465,001 | 242,393 78,707 | 40,887 12,609 | 72,124 1,439 | 15,610 270 | 625 529 | 64 78 | 416 6 | 62,185 20,289 | 300,867 <br> 321,233 | 2,647 | 1816,345 $\mathbf{1 0 7 , 8 6 9}$ |
| Italy... | 337, 805 | 37,320 | 5,050 | ${ }_{52}$ | 7 |  |  | 73 | 7, 455 | 265, 643 | 2 | 59, 065 |
| spain.............. | 88,770 | 193,066 | 46,583 | 229 | 65 | 573 | 132 | 302 | 11,502 | 27,835 |  | 2,320 |
| Turkey (including Turkey) | 509,749 |  |  |  |  |  |  |  | 022 | 486,500 |  | 22,237 |
| All other Europe.. | 152, 678 | 212 | 81 | 110 | 26 | 42 | 7 | 15,205 | 1,761 | 109,235 | 46 | 26,227 |
| America: <br> Canada. |  |  | 227 | 133 | 21 | 324 | 40 | 87 | 7,115 | 4,187 | 656 | 7,659 |
| Mexico. | 21,932 | 20,838 | 1,083 | 38 | 5 | 650 | 100 | 154 | 3,093 | 13,003 | 16 | 4,478 |
| All other America. | 10,649 |  | 29 | 44 | 28 |  |  | 86 | 1,611 | 8,371 |  | 524 |
| Tapan. | 1,020,086 | 1,869,252 | 222,304 | 96, 212 | 9,073 | 20,020 | 1,038 | 255 | 79, 756 |  | 214 | 148,800 |
| China. | 1, 56,174 | 1,8, |  |  | 21 |  |  | 178 | 8,491 | 43,852 |  | 3,632 |
| British India. | 31,150 |  |  | ${ }_{717}^{25}$ | 2 150 |  |  |  | 1,762 4,270 |  |  | 1,321 7,067 |
| All other countries. | 34,132 | 1,943 | 401 | 717 | 150 | 90 | 17 | 5 | 4,270 | 22,186 |  | 7,067 |

The value of the export and the import trade in cotton manufactures with the leading countries is shown in Table 21 for 1900 and for consecutive years from 1905 to 1913.

The value of cotton manufactures exported during the year ending June $30,1913, \$ 53,743,977$, was the largest for any year shown in the table, exceeding that in 1906, the next largest, by $\$ 799,944$. The large amount for 1906 , as well as tbat for 1905 , was due to the extraordinary trade with China during those years, the exports of cotton goods to that country having reached the value of $\$ 29,814,075$ in the later year. These two years of active trade were immediately followed by a decided shrinkage of the trade with China, which reached its lowest mark in 1908, when the total value of cotton goods exported to all countries was less than 50 per cent of the corresponding amount for 1906. Since 1908, however, there has been oach yoar an increase over the preceding one, to meet an increasing demand for American cotton manufactures in nearly all the countries of the world. How-
ever, manufacturers of cotton groods in the United States have largely confined their activitijes to the home market. The value of the cotton goods manufactured in the country in 1909, as returned at the census of 1910, exclusive of hosiery and knit goods, the manufacture of which might be deemed a branch of the cotton industry, amounted to more than $\$ 628,000,000$, while the value of the exports of cotton goods for the fiscal year 1909 amounted to $\$ 31,878,566$, or only about 5 per cent of the total manufactured. The values of imports of cotton goods do not show so much variation from year to year either in the aggregate or in the totals of the countries from which imported. The table shows that for the period covered by it the United Kingdom, Germany, France, and Switzerland have furnished very large proportions of the total value of such goods imported, and, while it is evident that France has made the greatest gain, both relative and actual, no radical difflerences are shown for any of these countries as between consecutive years.

Table 21.-VALUE OF EXPORTS AND IMPORTS OF COTTON MANUFACTURES, BY COUNTRIES TO WHICH EXPORTED OR FROM WHICH IMPORTED, FOR THE YEAR ENDING JUNE 30: 1900 AND 1905 TO 1913.
[Compiled by the Bureau of Foreign and Domestic Commerce, Department of Commerce.]

| COUN'REY. | 1018 | 1912 | 1911 | 1910 | 1909 | 1908 | 1907 | 1906 | 1005 | 1900 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total............ | 853,743,977 | 850, 769,511 | \$40, 851,918 | 833,398,672 | \$31,878,566 | \$25,177,758 | \$32,305, 412 | \$52,944,033 | S40,606,080 | 524,009,087 |
| Europe: |  |  | 3,511,690 | 2,857,625 | 2,092,212 | 2,487,349 | 2,274,014 | 2,042,377 | 1,446,409 | 1,250,729 |
| United Kingdom. | $4,782,768$ $1,304,519$ | $\begin{array}{r}3,946,923 \\ \hline 933,429\end{array}$ | 3,011, 927,166 | 2,806,351 | 1,085,235 | 1,140,332 | 1, 185, 492 | -971, 647 | 1, 601, 541 | 1, 388,083 |
| All other Eicrope | 1,880,399 | 1,594, 826 | 1,055,002 | 979,590 | 738,992 | 972,741 | 965,549 | 664,353 | 383,692 | 270,220 |
| America: |  | 8,590,398 | 6,474,722 | 5,242,511 | 3,712,506 | 3,279,519 | 3,507,410 | 3,587,567 | 3,030,341 | 2,091,992 |
| Manada | $10,530,412$ $1,064,892$ | 8,980, 203 | 0, 797,617 | -772, 127 | 646, 488 | -869, 244 | , 934,010 | ,821,302 | 880,074 | 2,958,880 |
| Central Americ | 3,434,742 | 3,945, 437 | 3,417,774 | 2,511,625 | 2,456,345 | 2,363,424 | 2,636,591 | 2,260,618 | 2,052,298 | 1,176, 142 |
| British West Indies (including Bermada). | 1,022,040 | 1,329,675 | 067,547 | 819,124 | 950, 870 | 687,311 | 836,047 | 713,885 | 650,382 | 135, 010 |
| Cuba.................................. | 2,903,305 | 3,090,202 | 2,235,350 | 1,641,498 | 1,906,964 | 1,585,370 | 1,608,653 | 1, 507, 473 | 1,330,260 | 012,252 |
| Haiti. | 1,465,690 | 1,756,755 | 1,510,425 | 1,220,290 | 1,258, 197 | 742,978 | 617,069 | 822, 815 | 524, 800 | 745, 003 |
| Other North America | 1,138,534 | 1, 112,072 | 900, 611 | 762,347 | 579,181 | 577, 516 | 828, 737 | 452,468 | 650, 342 | 560, 210 |
| Brazil. | 386,368 | 308, 712 | 413,184 | 388,760 | 265, 177 | 373,545 | 548,367 | 636, 374 | 823,120 | 436,118 |
| Chile. | 808,674 | 805, 125 | 1,001,581 | 666,133 | 480, 016 | 610,814 | 989,059 | 898,155 | 704,408 | 631, 131 |
| Colomb | 1,453,774 | 1,162, 092 | 980,984 | 892, 888 | 823,216 | 024, 5887 | 874, 813 | 603,021 | 806, 143 | 310,360 |
| Peru. | 198,331 | 227,607 | 176,323 | $158,47 \mathrm{G}$ | 104, 760 | 132,409 | 155,792 | 112,707 | 157,202 | 113,332 |
| Venezuela....... | $\begin{array}{r}370,314 \\ \hline\end{array}$ | 498,079 $1,142,989$ | 449,254 $1,011,308$ | 280,707 903,874 | 346,443 $1,005,201$ | 319,937 | 489, 8830 | 429,645 902,684 | $\begin{array}{r}\text { 1, } \\ 105,094 \\ \hline 1047\end{array}$ | 333,294 |
| All other Sonth America | 1,251,848 | 1,142,989 | 1,011,308 | 903, 874 | 1, 005,201 | 692,939 | 843,830 | 902,684 | 1,105,447 | 355, 550 |
| China......... | 5,796,984 | 7,471,103 | 5,412,849 | 5, 817,392 | 8,067, 472 | 3,413,248 | 5,955,331 | 29,814,075 | 28,017,190 | 8,804,778 |
| British Intia | 1,276,076 | 979,850 | 715,174 | 732,184 | 700, 677 | 200,807 | 684,990 | 665.346 | 480,843 | 624,419 |
| British Australasia | 1,813,058 | 1,094,008 | 1,773,201 | 962,154 | 979, 440 | 1,039,426 | 1,229, 327 | 1,285,085 | 1,070, 170 | (22, 228 |
| Aden. | 1,433,950 | 2,026,394 | 1,007,382 | 464,413 | 1,312,265 | 998, 736 | 1,905,713 | 1,634,134, | 1,140,875 | (1) |
| Philippine Islands | 7,077,165 | 5,277,192 | 4,305,518 | 2,936,398 | 1,050,042 | 836,845 | 1,640,874 | 403,806 | 850, 244 | ( $)$ |
| All other Asia and Oceani | 771,210 | 613,115 | 081,955 | 690,710 | 605, 024 | 711,534 | 813,339 | 862,092 | 1,761, 720 | 1,839,440 |
| Africa........................ | 1,527,835 | 1,275,145 | 966,201 | 609,407 | 682, 747 | 415,141 | 733,419 | 782,224 | 586,350 | $21,039,707$ |
| remponts. | 63, 935,983 | 63,506,574 | 64, 056, 473 | 66, 473,143 | 62,010,286 | 68,379,781 | 73,704, 836 | 68,043,322 | 48,019,036 | 41,290,230 |
| Europe: |  |  |  |  |  |  |  |  |  |  |
| United Kingdom. | 20,301,390 | 19,400,725 | 19,747,868 | 20,305,696 | 19, 051,548 | 22,421,517 | 22,971,107 | 10,446,227 | 15,089,333 | 17,110,589 |
| Germany | 10,406, 123 | 15,384,519 | 15,680,422 | 16,707,093 | $14,859,770$ | 18,086, 650 | 18,212, 631 | 10,459, 615 | 14, 332, 763 | 8,863,297 |
| France. | 12,264,492 | 11, 694,388 | 11.180, 892 | 11,820,515 | 11, 959,565 | 11, 660,609 | 15, 309,309 | 13,038, 125 | $8,701,626$ | 5, 623,340 |
| Switzerlan | 11,546,075 | 13,902,023 | 14, 988,217 | $15,463,607$ | 13, 533,057 | 14, 478,092 | 15,286,363 | 12,578,530 | 9,728,717 | 8, 475, 450 |
| Belgium | 465,001 | 554,375 | 484, 744 | - 522,323 | 558,974 | 6855,846 | 591, 570 | 458,557 | 354, 214 | 321, 803 |
| Austria-Hungary | 600,780 | 615,410 | 604,556 | - 659,844 | 490,658 | 280,236 | 293,005 | 218,974 | 113,803 | 107, 128 |
| Italy | 337,805 | 310,025 | 199,036 | 125,661 | 66,399 | 182, 792 | 237,005 | 97,520 | 11,281 | 10,093 |
| Spain. | 88,779 | 104, 482 | 109,488 | 57,985 | 49,027 | 84, 811 | 02,252 | 86, 052 | 57,400 | 2,747 |
| Turkey(including Asiatic Turkey) | 500,749 | 582,899 | 271,834 | 156,228 | 90,564 | 89,562 | 60,687 | 43,725 | 42,700 | 68, 235 |
| All other liurope. America: | 152,678 | 121,867 | 97,566 | 115,709 | 80,937 | 59,011 | 151,029 | 132,710 | 82,952 | 10, 613 |
| Amerien: <br> Canada | 19,892 | 19,108 | 46,788 | 21,470 | 10,877 | 20,012 | 48,496 |  |  |  |
| Mexico. | 21,932 | 56,248 | 42,716 | 29,765 | 23, 414 | 28, 787 | 40,720 | 10, 3110 | 19, 429 | 6,527 |
| All other America | 10,649 | 7,801 | 15,788 | 10,441 | 4,778 | 4,347 | 4,966 | 2,074 | 2, 405 | 33,328 |
| Japan. | 1,029,086 | 665,926 | 490,177 | 202,951 | 230,062 | 305, 270 | 333,881 | 316,278 | 202, 734 | 71, 1 , ${ }^{\text {a }}$ |
| Chita. | 56,174 | 30,819 | 31,641 | 16,300 | 11,180 | 29,028 | 21,853 | 11,657 | 25,618 | 25,073 |
| British India. | 31,150 | 34, 237 | 28, 255 | 44,789 | 21, 084 | 44,036 | 43,311 | 67,872 | 50,441 | 47,742 |
| All other countries. | 34,132 | 21,722 | 18,485 | 61,880 | 61, 492 | 9,385 | 25,525 | 31,917 | 30, 179 | 8, 818 |

1 Included in "Other $\Lambda$ sia and Oceania."
${ }^{2}$ Includes oxports to Hawaii, valued at $\$ 584,308$.

Production, consumption, exports, and imports of tion, domestic exports, and not imports of raw cotton cotton.-Table 22 shows the production of cotton, from 1790 to 1912 , thus presenting a complete record average net weight of bale, value per pound, consumpof the cotton trade for the United States.

TABLe 22.-PRODUCTION, CONSUMPTION, EXPORTS, AND NET IMPORTS OF RAW COTTON, FOR THE UNITED STATES: 1790 TO 1912.

Producion.-The production statisties relate, when possible, to the year of growth, butwhen figures for the growth yoar are wanting, those for a commercial crop which Department of Ariculture; for the years 1899 to 1912 , inclusive, and for other dates, when evailabla, census figures aro used , price of upland cotton. - For the years 1902 to 1912 , inclusive, the price por pound when available, census ngures aro used.
New Orleans prior to $A$ pril 1 of the following year; for the years 1800 to 1001 , inelusive, it is the average price of midding cetton onge price of the average grade marketed in or the yoars 1700 to 1889 , inclusive, it is taken from reports of the United States Department of $A$ griciliture of midding cotion on the New Orleans Cotton Exchenge; and Consumption. -The statistics of consumption for the years 1790 to 1894 , inchusive, have been compiled from and those for the years 1805 to 1903 , inclusive, from the reports of Latham, Alexander \& Co. Census figures are pubed for the of the United States Department of Agriculture, whon available. The statisties relate to the 12 months during which the crop of the specified year was chiclly marketed, and not to the ealendar year specified.
Domestic exports and net imports,-For the years 1790 to 1810 , inclusive, the statistics have been taken from American state papers, and for the years 1820 to 1910 from 1790 to 1842 , indusive, the statistics of exports relate to the 12 months beginning with October 1 of the specified yer for 1843 to 180 artment of Commerce. For the years with July 1; and for 1887 to 1911, inclusive, to the 12 months begimning with September 1 . The statisties of imports relate to tho someperiod as months beginning sumption.

|  | PRODUCTION. |  |  |  | Consumption (equivalent 600pound bales). | Exports of domestic cotton (equivalent 500pound bales). | Net <br> imports (equivalont 500ponnd bales). | YEAR. | PRODUCTION. |  |  |  | Consumption (equivalont 500pound bales). | Exports of domestic cotion (equivalent 500pound bales). | Net <br> imports <br> (equiva- <br> lent 500- <br> pound <br> bales). |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR. | Running bales, counting round as half bales. | Equivalont 50(1-pound bales, gross weight. |  | Averago price per pound, upland cotton (conts). |  |  |  |  | Running bales, counting round as half bales. | Equivalent 500 -pound bales, gross woight. |  | Averngre prico per pound, upland cotton (conts). |  |  |  |
| 1912. | 14,090,803 | 14,313,015 | 480 | 12.0 | 5, 030,835 | 3, 100,093 | 225, 460 | 1849. | 12,460,093 | 1,075,274 | 429 | 12.3 |  |  |  |
| 1911. | 11, 109, 349 | 16,250, 276 | 482 | 0.7 | 5, 181, 826 | 10, 681,332 | 229, 268 | 1848. | - $2,806,938$ | 2, $11.5,031$ | 436 | 12.3 7.5 | 686, 030 | $1,270,763$ $2,053,201$ | 485 22 |
| 1010. | 11,065, 062 | 12,005,688 | 480 | 14.7 | 4,516,779 | 8,025,991 | 231, 191 | 1847 | 2, 439,780 | 2, 128, 483 | 417 | 8.0 | 537, 427 | 1, 028,540 | 558 |
| 1909 | 10,386, 209 | 10,315,382 | 475 | 14.3 |  |  |  | 1846 | 1,778, 651 | 1, 603,763 | 431 | 11.2 | 385,910 | 1,054, 440 | 122 |
| 1908. | $10,386,209$ $13,432,131$ | 13,515, 380 | 475 <br> 484 | 14.3 9.2 11.5 | $4,500,002$ $5,198,903$ | $0,491,843$ $8,880,724$ | 151,395 | 18 | 2, 100,537 | 1,806,110 | 411 | 7.9 | 363, 365 | 1,095, 116 | 386 |
| 1907. | 11, 325, 882 | 11,375,461 | 480 | 11.5 | 4, 403, 028 | 7,770,508 | 140,869 | 1844. | 2,304, 503 | 2,078,970 | 415 | 5.6 | 337, 730 | 1.745,812 | 2680 |
| 1906. | 13,305, 205 | 12, 595, 488 | 490 | 10.0 | 4, 974, 199 | 8,825, 236 | 202, 733 | 1843. | 2, 030,409 | 1,760, 060 | 412 | 7.7 | 298, 872 | 1,327,207 | 517 |
| 1905. | 10,725,602 | 10,804, 556 | 482 | 10.9 | 4,877,465 | 6,975,404 | 133, 464 | 1842. | $2,378,875$ $1,083,574$ | 2,035, $1,398,281$ | 409 307 | 7.2 7.8 | 278,196 222,461 | $1,584,594$ $1,169,484$ | 1,835 107 |
| 1904. | 13, 697, 310 | 13,679,954 | 478 | 8.7 | 4,523,208 | 0,057,307 | 130, 182 | 1810 | $1,683,574$ $1,634,954$ | $1,398,282$ $1,347,610$ | 307 | 7.8 0.5 | 222,461 | $1,169,484$ $1,060,408$ | 107 1,210 |
| 1003. | 10, 015, 721 | 10,045, 615 | 480 | 12.2 | 3, 080,567 | 6, 233, 682 | 100, 298 |  | , 634,004 | 0 | 304 | 0.5 | 245,040 | 1,060,408 | 1,210 |
| 1902. | 10, 784,473 | 10,827,168 | 481 | 8.2 | 4, 187,070 | 6,913,506 | 149, 113 | 1839. | 2,063, 015 | 1,603, 722 | 388 | 8.9 | 236,525 | 1,487,882 | 207 |
| 1001. | 9,748, 540 | 0,675,771 | 489 | 8.1 | 4,080,287 | 0,870,313 | 190, 080 | 1838. | 1,200,532 | 1, 002,980 | 384 | 13.4 | 221, 738 | 1, 827,248 | 2019 |
| 1900. | 10,245, 602 | 10,266, 527 | 480 | 9.3 | 3,603,516 | 6,806,572 | 116, 610 | 1837. | 1,801, 407 | 1, 428, 384 | 370 | 10.1 | 195, 100 | 1, 191,905 | 355 |
| 1809 | 9,507,786 | 9,450,935 | 476 |  |  |  |  | 1830 | 1, 423, 030 | 1, 129, 016 | 379 | 13.2 | 176,449 | -888, 423 | 2510 |
| 1898. | 11,189,205 | 11,435,368 | 489 | 4.9 | 3, 3 , 672,097 | 7,626,525 | 134,778 103,223 | 1835. | 1,360,725 | 1,061,821 | 373 | 10.5 | 184,731 | 847,203 | 427 |
| 1897. | 10,897, 857 | 10, 985,040 | 482 | 5.6 | 3,472, 398 | 7,811,031 | 105, 802 | 1834. | 1,253,406 | 002,343 | 367 | 17.4 | 166, 523 | 774,718 | 1,574 |
| 1800 | 8, 532, 705 | 8,515,040 | 477 | 7.3 | 2, 841,394 | 6, 124,020 | 114,712 | 1833. | 1,225, 895 | 930,062 | 363 | 12.9 | 149, 169 | 769,436 | , 308 |
| 1895 | 7, 161,094 | 7,146,772 | 477 | 8.2 | 2, 499,731 | 4,761,605 | 112,001 | 1832. | 1,114, 286 | 815,900 | 350 | 12.3 | 142, 352 | 640,307 | 69 |
| 1804 | 9,901,251 |  | 484 | 5.9 |  |  |  | 1831 | 1, 0689,444 | 805, 439 | 360 | 9.4 | 130, 805 | 644, 430 | 222 |
| 1893 | 7,493,000 | 7,433, 056 | 474 | 7.5 | 2, 983 | 5, |  |  | 1,026, 393 | 732,218 | 341 | 9.7 | 129, 038 | 553,960 | 22 |
| 1892. | 6, 700, 365 | 0, 658, 313 | 475 | 8.4 | 2, 415, 875 | 4,485,251 | 85,735 | 1829 | 1, 076,696 | 763,508 | 339 | 10.0 | 9,723 | 596,918 | 378 |
| 1891. | 9, 035, 379 | 8,040, 807 | 473 | 7.3 | 2, 846,753 | 5,896, 800 | 64,394 | 1828. | 1, 053,079 | 079,916 | 341 | 10.0 | 84,788 | 529, 674 | 378 240 |
| 1800. | 8,652,607 | 8, 562,089 | 473 | 8.6 | 2, 604,491 | 5,850,210 | 45,580 | 1827. | 805,970 | 564,854 | 335 | 10.3 | 84,516 | 421, 181 | 507 |
| 1889 | 7,472,511 | 2,511 | 478 |  |  |  |  | 1826 | 1,057, 402 | 732,218 | 331 | 9.3 | 103,535 | 588,620 | 74 |
| 1888. | 6,938,290 | 0,923,775 | 477 | 10.7 | $2,318,409$ $2,309,250$ | 4, 730,192 | 10,284 | 1825 | 817, 308 | 533,473 | 312 | 12.2 |  | 409,071 | 79 |
| 1887. | 7,046, 833 | 6, 884, 667 | 407 | 10.3 | 2, 205,302 | 4,519,254 | 11, 983 | 1824. | 751,748 | 449,791 | 286 | 18.6 |  | 352,900 | 26 |
| 18810 | 6,505, 087 | 0,314,561 | 464 | 10.3 | 2, 049, 687 | 4,301,542 | 7, 552 | 1823. | 856, 028 | 387,029 | 282 | 14.7 |  | 280,739 | 932 |
| 1885 | 6, 575, 691 | 0,360,341 | 403 | 9.4 | 2, 094, 682 | 4,200, 651 | 8,270 | 1822.... | 704, 608 | 439,331 | 298 | 11.4 |  | 347, 447 | 110 |
| 1884. | 5, 882, 000 | 5, 477,448 | 400 | 10.5 | 1, 6887,108 | 3,783,319 | 7,144 | 1821 | 630,042 | 376, 569 | 283 | 14.3 |  | 289,350 | ${ }^{2} 196$ |
| 1883. | $5,713,200$ | 5,521, 963 | 462 | 10.6 | 1, $1,813,805$ | 3,733, 369 | 11,247 | 1820 | 575,540 | 334,728 | 278 | 14.3 | 100,000 | 249,787 | 427 |
| 1882. | 6, 949, 756 | 6, 833, 442 | 470 | 10.6 | 2,038, 400 | 4, 501, 331 | 4,716 |  |  |  |  |  |  |  |  |
| 1881. | 5, 456, 048 | $5,136,447$ | 450 | 12.2 | 1, 849,457 | 3,376, 521 | 3,261 | 1819. | 032,576 | 349,372 | 284 | 17.0 |  | 255,720 | 24, 571 |
| 1880 | 6, 605,750 | 6,356, 998 | 460 | 11.3 | 1,865,922 | 4,453,495 | 5,447 | 1818. | 446,429 465,950 | 201,506 | 280 279 | 24.0 34.0 |  | 175,994 | 24, 454 |
| 1870. | 5,755,350 | 5,466,387 | 454 | 12.0 | 1, 500, 688 | 3,742,752 | 7,578 | 1816. | 439, 716 | 259,414 | 282 | 26.0 |  | 171,299 | 3,086 2,048 |
| 1878 1877 | 5,074, 156 | 4,745, 078 | 447 | 10.8 | 1,457,206 | 3,290, 167 | 5,049 | 1815 | 360, 004 | 209,205 | 271 | 29.0 |  | 163,894 | ${ }^{2} 44$ |
| 1877. | 4,773, 865 | 4, 404, 224 | 450 | 11.3 | I, 458, 6667 | 3, 197, 439 | 6,046 |  |  |  |  |  |  |  |  |
| 1876 | 4, 474, 069 | 4,118, 390 | 440 | 11.7 | 1,314, 480 | 2,839, 418 | 4,832 | 1814. | 254,545 | 146, 444 | 275 | 21.0 | 51,778 | 165, 997 | ${ }^{2} 200$ |
| 187 | 4,632,313 | 4,302,818 | 444 | 13.0 | 1,255, 712 | 3,037, 650 | 4,498 | 1813.. | 304, 878 | 156,904 | 246 | 15.5 |  | 35,408 | 101 |
| 1874. | 3,832,901 | 3,528,276 | 440 | 15.0 | 1,098, 163 | 2, 504, 118 | 3,784 | 1812. | 304, 878 | 156,904 | 246 | 12.5 |  | 38,220 | 3,133 |
| 1873. | 4, 170,388 | 3,873, 750 | 444 | 17.0 | 1., 213,052 | 2, 682, 631 | 3,541 | 1811 | 325,203 | 167, 364 | 246 | 10.5 |  | 57,775 | 897 |
| 7872 | 3,930,508 | 3,650, 932 | 444 | 18.2 | 1,115, 691 | 2,470,590 | 10,016 | 18 | 286,195 | 177,824 | 297 | 15.5 | 35,565 | 124,116 | 431 |
| 1871 | 2,974,351 | 2,756, 564 | 443 | 20.5 | 1, 146, 730 | 1,824, 037 | 6,374 |  |  |  |  |  |  |  |  |
| 1870 | 4,352,317 | 4,024,527 | 442 | 17.0 | 1,026,583 | 2,922,757 | 1,802 | $\begin{aligned} & 1809 . \\ & 1808 . \end{aligned}$ | 328,000 334,821 | 171,548 156,904 | 250 | 16.0 10.0 | 33, 473 | 186,523 | 2560 $=1,601$ |
| 1869. | $13,011,996$ | 2,409,597 | 440 | 24.0 | 790, 616 | 1,987,708 | 3,026 | 1807. | 280,855 | 167,364 | 270 | 19.0 |  | 21,261 | B, 297 |
| 1868. | 2, 366, 467 | 2,198, 141 | 444 | 29.0 | 860,481 | 1, 300,449 | 1,870 | 1806. | 285, 714 | 167,364 | 280 | 21.5 |  | 127, 889 | 1, 485 |
| 1867 | 2, 519, 554 | 2, 345, 610 | 445 | 24.9 | 844, 044 | 1,502,750 | 345 | 1805. | 304,348 | 146,444 | 230 | 22.0 |  | 71,315 | 961 |
| 7866. | 2,097,254 | 1,948, 077 | 444 | 31,6 | 715, 258 | 1,401,697 | 21,085 |  |  |  |  |  |  |  |  |
| 1865 | 2, 269,316 | 2,093,658 | 441 | 43.2 | 614, 540 | 1,301, 146 | 10,322 | 1804.. | 261,044 | 135,983 | 249 | 23.0 | 23,013 | 76,780 | 456 |
| 1864 | 300,000 | 299, 372 | 477 | 83.4 | 344, 278 | 17,789 | 68,798 | 1803. | 222, 222 | 125,523 | 270 <br> 238 | 20.0 10.0 |  | 70,088 | 183 21.153 |
| 1803. | 450,000 | 449,059 | 477 | 101. 5 | 219, 540 | 23,998 | 52,405 | 1802. | 231, 092 | 115,063 100,418 | 238 228 | 19.0 |  | 75,424 | 21,153 |
| 1862 | 1,600,000 | 1,506,653 | 477 | 67.2 | 287, 397 | 22,770 | 67,605 | 1801. | 210,526 153,509 | 100,418 73,222 | 228 228 | 19.0 44.0 |  | 47,768 41,822 | 2170 8,695 |
| 1861 | 4,500,000 | 4,490,580 | 477 | 31.3 | 369, 226 | 10, 129 | 61,731 | 1800. | 153,509 | 73, 222 | 228 | 44.0 | 18,829 | 41,822 | 8,696 |
| 1860 | 3, 849,469 | 3,841,416 | 477 | 13.0 | 841,975 | 615, 032 |  |  | 88,889 | 41,841 | 225 | 28.0 | 16,737 | 35,580 |  |
| 1859. | ${ }^{1} 5,387,052$ | 4,309, 642 | 461 | 11.0 | 845,410 | 3,535, 373 |  | 1798. | 68,667 | 31, 381 | 225 | 28.0 44.0 |  | 35,580 | 8,870 7,532 |
| 1858. | 4, 018, 914 | 3,758,273 | 447 | 12.1 | 807, 489 | 2,772,937 |  | 1797. | 48,889 | 23, 013 | 225 | 39.0 |  | 18,720 | 7,761 |
| 1857. | 3,257, 339 | 3,012, 016 | 442 | 12.2 | 550, 708 | 2,237,248 |  | 1796. | 44, 444 | 20,921 | 225 | 34.0 |  | 7,577 | 7,336 |
| +1850 | $3,093,737$ $3,665,557$ | $2,873,680$ $3,220,782$ | 444 420 | 13.5 10.3 | 761, 614 | 2,096,505 | 1, 6178 | 1795 | 35,556 | 16,736 | 225 | 36.5 |  | 12,213 | 8,737 |
|  | 3, 605, 555 | 3,220,782 | 420 | 10.3 | 731,484 | 2,702,863 | 2,205 |  |  |  |  | 36.5 |  |  |  |
| 1853 | 2,982, 634 | 2,708,082 | 434 | 10.4 | 641,391 | 2,016, 849 | 4, 425 | 1793.. | 22,222 | 10,460 | 225 | 33.0 |  | 9,414 | 8,692 5,127 |
| 4852. | 3, 316,214 | $2,760,194$ $3,130,338$ | 438 | 11.0 | 663,204 736,468 | 1,975, 6.61 | 1,142 | 1792.... | 13, 333 | 6, 276 | 225 | 32.0 |  | 1,097 | 5,503 |
| 1851 | 3, 126, 310 | 2,790,290 | 428 | 9.5 | 617, 468 | 2, 186,461 | +512 | 1791.... | 8,889 | 4,184 | 225 | 29.0 |  | 277 | 1,112 |
| 1850 | 2,454,442 | 2,136, 083 | 416 | 12.1 | 422, 626 | 1, 854, 474 | 330 | 1790. | 6, 067 | 3,138 | 225 | 20.0 | 11,000 | 379 | 697 |

1 Equivalent 400 -pound bales.
${ }^{2}$ Excess of exports of foreign cotton over total imports.

Exports of domestic cotton, by months.- In compliance with an act of Congress approved July 22, 1912, the bureau published statistics regarding the exports of cotton, by months, showing the amounts separately for the more important countries. The following table presents the statistics for the twelve months ending August 31, 1913:

Table 17.-Exports of domestic cotton, by countries to which exported, by months: September, 1912, to August, 1913.
[Rumning bales, counting round as half bales.]

| MONTIE. | EXPOR'S OF DOMESTIC COTTON (BALES) TO- |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total, | United Kingdom. | $\begin{aligned} & \text { Ger- } \\ & \text { many, } \end{aligned}$ | France. | Italy. | All other countries. |
| Total for year ending Aug. 31. | 8,800,960 | 3,559,258 | 2, 404, 397 | 1,022,042 | 496,499 | 1,318,170 |
| Septambor. 1012. | 729,859 | 345, 290 | 103, 449 | 103, 060 | 36,901 | 81,159 |
| October... | 1,515,746 | 638,780 | 430, 744 | 230, 515 | 63,006 | 143,101 |
| Novomber | 1,734, 687 | 704,928 | 404, 058 | 203,582 | 61,756 | 190, 363 |
| December. | 1,391, 394 | 610,386 | 384, 345 | 165,573 | 57,056 | 174,034 |
| 1913. |  |  |  |  |  |  |
| Jantary . . . . . . . . | 000,031 | 355,837 | 240,087 | 97,818 | 49,871 | 157,318 |
| Febrthary........... | 630,911 | 166,720 | 159, 817 | 26,991 | 47, 450 | 129,927 |
| Mareh. . | 372,073 | 97,185 | 128, 019 | 14,561 | 44, 847 | 87, 461 |
| April | 684, 506 | 208,963 | 183, 024 | 19,899 | 38,338 | 134,372 |
| May. | 468,986 | 164, 871 | 126, 574 | 23,643 | 41,440 | 112, 438 |
| June. | 223, 921 | 88, 906 | 60, 804 | 7,935 | 27,077 | 39, 109 |
| July. | 140,710 | 39,898 | 40,548 | 7,132 | 24, 589 | 28,543 |
| August. . . . . . . . . . | 257, 172 | 77,488 | 72,928 | 52,933 | 13,568 | 40, 255 |

The development of the export trade in domestic raw cotton from 1830 to 1913 is graphically represented by the accompanying diagram.

Diagram 2.-Exports of domestic cotton for specified years: 1830 to 1918.


Exports of sec-island cotton.-Statistics of exports of sea-island cotton, by countries to which exported, are given in the following table for the years 1906 to 1913 and for selected years since 1885 . It should be understood that these exports are included in the general
statistics of exports of domestic cotton shown in the other tables of this report.

Table 18.-Exports of sea-island cotton, by countries to which exported, for the year ending August 31, for specificd years: 1885 to 1913.

| YEAR. | exporis of gea-tsland cotton (equivalent 500POUND BALES) TO- |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total. | United Kingdom. | France. | $\begin{aligned} & \text { Ger- } \\ & \text { many. } \end{aligned}$ | All other countries. |
| 1913. | 10,003 | 6,368 | 3,211 | 259 | 165 |
| 1012. | 20,192 | 14,821 | 4,005 | 178 | 288 |
| 1911. | 17,797 | 12,818 | 4,077 | 482 | 420 |
| 1910. | 22,748 | 18, 154 | 4,074 | 520 |  |
| 1909. | 19, 654 | 13, 589 | 5,070 | 426 | 569 |
| 1908. | 25, 587 | 17,874 | 7,112 | 413 | 188 |
| 1007. | 15, 252 | 11,056 | 3,925 | 185 | 86 |
| 1900. | 31, 624 | 23, 870 | 6,787 | 838 | 120 |
| 1900. | 30,240 | 30, 131 | 5,193 | 706 | 120 |
| 1895 | 30, 455 | 26,350 | 3,878 | 36 | 191 |
| 1800. | 18, 668 | 16,853 | 1,420 | 169 | 126 |
| 1885. | 13,708 | 11,950 | 1,560 | 13 | 185 |

The production of sea-island cotton from the crop of 1912, according to returns of ginners, was 73,777 bales, equivalent to $28,180,000$ pounds, or 56,360 bales of 500 pounds each. Assuming that the exports of this cotton for a year ending August 31 are from the crop of the preceding growth year, then nearly 18 per cent of the crop of 1912 was exported, as compared with 21 per cent of the previous year's crop, 25 per cent of the crop of 1910, 31.2 per cent of the crop of 1909, and 37.6 per cent of the crop of 1907. The United Kingdom took more than three-fifths of the entire amount exported during the year ending August 31, 1913, and France nearly one-third. The quantity consumed in the United States during the year amounted to 54,778 running bales, or 41,839 equivalent 500 -pound bales, which, added to the quantity exported, 10,003 bales, indicates a slight increase in stocks of this kind of cotton as compared with those at the end of the previous your.

## EXPORIS AND IMPOR'S OF COTTON MANUFACTURES.

Closely related to the consumption of cotton in the domestic manufacture of cotton goods is the foreign trade in these fabrics. For this reason it is believed that statistics of this trade will lend interest to the report. Accordingly the following tables, compiled by the Bureau of Foreign and Domestic Commerce, of this department, showing the exports and imports for the last fiscal year, are presented. Table 19 givos the statistics of exports by classes of goods and by countries to which exported.

The value of cotton goods of domestic manufacture exported during the fiscal year 1913 amounted to $\$ 53,743,977$. More than one-half of this amount is accounted for by the exports of cotton cloth, which amounted to $444,729,241$ square yards, valued at $\$ 30,-$ 668,234. Unbleached cloths, aggregating 213,189,754

# WORLD'S CONSUMPTION AND STOCKS OF COTTON, AND TRADE IN COTTON AND ITS MANUFACTURES. 

The manufacture of textiles from cotton antedates history, its use for this purpose having been observed by the earliest visitors to both India and America. Until comparatively recent years, however, its manufacture was limited, owing to the small quantity of the fiber available. The world's production of cotton in 1791, according to the report of Hon. Levi Woodbury, Secretary of the Treasury, submitted to Congress in 1836, amounted to less than $1,000,000$ bales, of which quantity two-thirds was produced in India and other countries in Asia. Smaller amounts were produced in Mexico, Brazil, the West Indies, and other American countries. Much the larger part of this cotton, which was usually separated from the seed by hand, was consumed in the homes of the people, only a small part of it being available for factory use, as the term is now understood.

With the invention and improvement of machinery for the spinning and weaving of textile fibers the demand for cotton rapidly increased. No considerable development in this branch of the industry took place, however, until after the invention of the cotton gin, which effected the separation of the lint from the seed by machinery. After the introduction of this machine, which occurred in 1793, the cultivation of cotton in the United States made rapid progress and this product became available for factory use both in this country and in Europe.

Few other industries, il any, have made as great progress during the past century as has the manufacture of cotton. This is brought out forcibly when the world's production of cotton for mill consumption from the crop of 1912, which amounted to more than $21,000,000$ bales, is compared with the total estimated production in 1811, which was only $1,100,000$ bales, and only a small portion of which was available for factory use. The greatest increase in the industry, however, has come about in the last 30 years. During this time the number of spindles has increased from approximately $80,000,000$ to $143,398,000$ and the quantity of cotton consumed from less than $9,000,000$ bales to $21,542,000$ bales.

Formerly the manufacture of cotton was confined largely to England and a few localities in other countries. In recent years, however, not only has the industry
increased wonderfully in these established centers but it has been extended until, at the present time, there are very few countries without some cotton mills. The spinning of cotton by power-driven machinery has been introduced into China, Turkey, Brazil, and, to a less extent, into Indo China, Australia, Egypt, and a number of countries in South and Central America. To present accurate statistics covering the industry throughout the world is well-nigh impossible, but reliable data are available for all of the important cotton manufacturing countries.
Table 23 , page 30 , shows, by countries, the number of active cotton spindles and the mill consumption of cotton throughout the world in 1900 and 1913. This table has been compiled from a number of sources, and, while absolute accuracy is not claimed for all of the figures, it is believed they closely approximate the facts. The number of active cotton spindles in the world, as shown in the table, was $105,681,000$ in 1900 and $143,398,000$ in 1913, the increase during the period being $37,717,000$ spindles, or 35.7 per cent. In addition to the spindles shown above for 1913, there were in the United States 629,851 spindles that were inactive during the year. No definite information as to the number of inactive spindles in other countries is available, but it is probable that the total number of inactive spindles in the world was not far from $2,000,000$, which would make the total number of spinning spindles at the close of the year in excess of $145,000,000$.

The world's consumption of cotton for the year ending August 31, 1913, has been placed at $21,542,000$ bales, as compared with $20,587,000$ in 1912, 19,013,000 bales in 1911, 18,321,000 bales in 1910, and 19,397,000 bales in 1909. These figures, however, do not represent the total consumption of cotton, for in a number of countries large quantities are used which do not enter into commercial channels and can not be estimated with any certainty. Neither do they include, except for the United States, all cotton consumed in manufacture, as they relate more specifically to cotton used in cotton mills and do not include all cotton used for mixing with wool or other fibers, nor cotton used in the manufacture of felts, batting, absorbent cotton, etc.

Table 23.-World's active cotton spindles and mill consumption of raw cotton: 1900 and 1918.

| [The statistics for the United States were colle Those for other countries have been compiled them are Elison's Annual Review of the Cott clal and Finanmial Chronicle, New York; Coti International Federation of Master Cotton S clations, Manohester; and statistics furnished Cotton Trado Association, Bombay, and E. T. | cted by from a on ra pinners' by Mits . Oraig, | the Bureau of umber of sour e, Liverpool; , New York' and Manufac ui \& Co., Osa Mexico City.] | the Census. es. Among the Commerports of the urers' Assoa, Bombay |
| :---: | :---: | :---: | :---: |
| country. |  | Active cotton spindles. | Mill consumption of cotiton (bales). 1 |
| Total. | $\begin{aligned} & 1913 \\ & 1000 \end{aligned}$ | $\begin{aligned} & 143,398,000 \\ & 105,681,000 \end{aligned}$ | $\begin{aligned} & 21,542,000 \\ & 15,177,000 \end{aligned}$ |
| United States: <br> Colton-growing states. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{array}{r} 12,227,000 \\ 4,368,000 \end{array}$ | $\begin{aligned} & 2,960,000 \\ & 1,523,000 \end{aligned}$ |
| All other states. | $\begin{aligned} & 1913 \\ & \end{aligned}$ | $\begin{aligned} & 19,203,000 \\ & 15,104,000 \end{aligned}$ | $\begin{aligned} & 2,826,000 \\ & 2,350,000 \end{aligned}$ |
| Eurape: <br> United Kingdom | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 55,653,000 \\ & 45,500,000 \end{aligned}$ | $\begin{aligned} & 4,440,000 \\ & 3,330,000 \end{aligned}$ |
| Germany. | 1913 1900 | $\begin{array}{r} 11,186,000 \\ 8,000,000 \end{array}$ | $\begin{aligned} & 1,800,000 \\ & 1,400,000 \end{aligned}$ |
| Russin..................................... | 1913 1900 | $\begin{aligned} & \begin{array}{l} 9,213,000 \\ \uparrow, 5,500,000 \end{array} \end{aligned}$ | $\begin{aligned} & 1,700,000 \\ & 1,350,000 \end{aligned}$ |
| France..................................... | 1013 | $\begin{aligned} & 7,400,000 \\ & 5,500,000 \end{aligned}$ | $\begin{array}{r} 1,025,000 \\ 700,000 \end{array}$ |
| Austria-Hungary.......................... | 1913 1000 | $\begin{aligned} & 4,909,000 \\ & 3,300,000 \end{aligned}$ | $\begin{aligned} & 820,000 \\ & 675,000 \end{aligned}$ |
| Italy....................................... | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $4,600,000$ $1,940,000$ | $\begin{aligned} & 800,000 \\ & 475,000 \end{aligned}$ |
| Spain. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 2,000,000 \\ & 2,615,000 \end{aligned}$ | $\begin{aligned} & 350,000 \\ & 400,000 \\ & 40 \end{aligned}$ |
| Belghom. | $\begin{aligned} & 191900 \\ & 19 \end{aligned}$ | $\begin{array}{r} 1,492,000 \\ 920,000 \\ \hline \end{array}$ | $\begin{aligned} & 240,000 \\ & 170,000 \end{aligned}$ |
| Switzerland. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 1,398,000 \\ & 1,550,000 \end{aligned}$ | $\begin{aligned} & 110,000 \\ & 125,000 \end{aligned}$ |
| Sweden | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 534,000 \\ & 360,000 \end{aligned}$ | $\begin{gathered} 115,000 \\ 85,000 \end{gathered}$ |
| Portugal. | $\begin{aligned} & 1013 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 480,000 \\ & 230,000 \end{aligned}$ | $\begin{aligned} & 75,000 \\ & 60,000 \end{aligned}$ |
| Netherlnads...... ....................... | $\begin{aligned} & 1913 \\ & { }_{2000} \end{aligned}$ | $\begin{aligned} & 470,000 \\ & 300,000 \end{aligned}$ | $\begin{aligned} & 83,000 \\ & 70,000 \end{aligned}$ |
| Denmark. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 90,000 \\ & 40,000 \end{aligned}$ | $\begin{aligned} & 25,000 \\ & 15,000 \end{aligned}$ |
| Norway.. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 75,000 \\ & 35,000 \end{aligned}$ | $\begin{aligned} & 11,000 \\ & 10,000 \end{aligned}$ |
| Other European countries. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 200,000 \\ & 130,000 \end{aligned}$ | $\begin{aligned} & 30,000 \\ & 42,000 \end{aligned}$ |
| India | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 6,084,000 \\ & 4,945,000 \end{aligned}$ | $\begin{aligned} & 1,762,000 \\ & 1,162,000 \end{aligned}$ |
| Japan. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{gathered} 2,300,000 \\ 1,271,000 \end{gathered}$ | $\begin{array}{r} 1,372,000 \\ 700,000 \end{array}$ |
| Chinn. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 930,000 \\ & 550,000 \end{aligned}$ | $\begin{aligned} & 398,000 \\ & 200,000 \end{aligned}$ |
| Brazil. | $\begin{aligned} & 1913 \\ & 1000 \end{aligned}$ | $\begin{array}{r} 1,200,000 \\ 450,000 \end{array}$ | $\begin{array}{r} 285,000 \\ 85,000 \end{array}$ |
| Canada. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 855,000 \\ & 550,000 \end{aligned}$ | $\begin{aligned} & 125,000 \\ & 110,000 \end{aligned}$ |
| Mexico........................................ | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{aligned} & 500,000 \\ & 470,000 \end{aligned}$ | $\begin{aligned} & 110,000 \\ & 125,000 \end{aligned}$ |
| All other countries............................. | $\begin{aligned} & 1913 \\ & 1900 \end{aligned}$ | $\begin{array}{r} 300,000 \\ 50,000 \end{array}$ | $\begin{aligned} & 80,000 \\ & 15,000 \end{aligned}$ |

I The quantites for the United States are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent sifiopound alent 500 -pound bales.

With the exception of those for the United States, the statistics for the consumption of cotton are given in equivalent 500 -pound bales. Because it is not
known how much foreign-grown cotton reported for countries other than the United States is expressed in net-weight bales and how much in gross-weight. bales, it is impracticable to reduce the consumption. figures to a net-weight basis. Assuming, however, that the statistics as to the consumption in foreign countries have been returned in net-weight boles and. reducing those of the United States to the same unit, the world's factory consumption would be $21,392,000$ bales of 500 pounds net. The world's commercial production of cotton from the crop of 1912 is estimated at $21,457,000$ bales of 500 pounds net. On this basis. the mill consumption of cotton during the year ending August 31, 1913, was practically the same as the commercial crop of 1912. This, however, does not talse into account the use of cotton in foreign countries for purposes other than spinning, to which reference has been made. Thus the crop of 1912, while short of the record crop of 1911 by less than 350,000 bales, failed to provide for the increased consumption of the year 1913, and consequently entailed a reduction in the stocks on hand at the end of the year as compared with those carried over from the preceding year. New mills are under construction in a number of countries, and it is probable that the requirements of the mills for the year ending August 31, 1914, will equal, if not exceed, those for the past year.
The relative importance of the several countries in the production and consumption of cotton is shown in Diagram 3, on page 31.

## UNITED STATES.

The year 1913 was one of remarkable activity forthe American mills. No serious troubles of any kind were encountered, and, with the exception of a scarcity of labor in some sections, the year was a very satisfactory one. As compared with the totals of 1912 , active spindles increased almost $1,000,000$; spindles idle continuously throughout the year decreased 375,000 ; and cotton consumed increased 419,000 bales, indicating a greatly improved condition in the industry. The domestic demand for cotton wares. was good and the export trade, while comparatively small, expanded somowhat. A detailed presentation of statistics relative to cotton spindles and cotton consumption for the United States appears in earlier pages of this report.

## EUROPE.

The season of 1912-13, like that of the preceding year, was, on the whole, a profitable one for the European mills. The commitments for the future delivery of goods and the extraordinary stocks of cotion carried over from the previous season insured
profitable operation for at least a portion of the year. These stocks, together with the large crop of 1912, provided an ample supply of the raw material. Thus the season opened and progressed with varying success in the several countries of Europe according to local conditions and developments. The year
in the United Kingdom was an unusually good one and Germany also experienced a good year. In some countries lnbor troubles interfered to some extent, while the wars in southeastern Europe had a very injurious effect on the industry in some of the less important countries and depressed it somewhat in others.

Dlagam 3.-RELATIVE IMPORTANCE OF THE SEVERAL COUNTRIES IN THE PRODUOTION AND CONSUMPTION OF COTTON.

Proportion of world's mill supply of cotton contributed by each country (growth of 1912).


United Kingdom.-As shown in Table 23, there were $55,653,000$ active spindles in the United Kingdom in 1913, compared with $45,500,000$ in 1900, the increase during this period having been 22.3 per cent, while the quantity of cotton consumed increased from $3,330,000$ bales in 1900 to $4,440,000$ in 1913, or 33.3 per cent. The spindles operated in the United Kingdom during the past year constituted 38.8 per cent of all the active cotton spindles in the world, but the quantity of cotton consumed by them formed only 20.6 per cent of the total. The percentage of cotton consumed, however, fails to convey a proper idea of the place the country holds in the cottonmanufacturing industry of the world, because the goods made in the United Kingdom are on the average of a much finer grade and higher value than those produced elsewhere.

There are several reasons for this remarkable development in the manufacture of cotton goods in the United Kingdom. A damp climate does away with the necessity for artificially humidifying the air. The proximity of coal and iron mines provide the factories with cheap fuel and to a degree with cheap machinery. Superior facilities for transporting prod-

Proportion of total consumption, by countries (year ending August 31 , 1913).

ucts to all parts of the world are of special advantage in establishing and maintaining markets for them. But more far reaching, probably, than any of these is the fact that England was the first beneficiary in a series of inventions of textile machinery by Kay, Hargreaves, Arkwright, Crompton, Cartwright, and others. The inventions of these men practically revolutionized the industry and enabled England to advance in it more rapidly than any other country.
The manufacture of cotton goods in the United Kingdom is centered in Lancashire, of which Manchester is the chief city. This district alone, according to recent publications, has 48,481,431 spindles and 786,206 looms. In this locality also the industry is specialized to a higher extent than elsewhere. Here not only establishments but communities as well largely confine their activities to a single kind of product, and in some instances to a product of a single standard. For instance, spinning is carried on chiefly in Oldham, Bolton, Ashton, and Rochdale, and weaving in Blackburn, Preston, Burnley, and Nelson. Further, fine yarns are generally spun in Bolton and medium yarns in Oldham. Bleaching, dyeing, and printing are, as a rule, also carried on in separate establishments.

These practices result in the special training of operatives and tend toward greater efficiency, uniformity of product, and economy of operation.

Only about 20 per cent of the total quantity of cotton goods manufactured in the United Kingdom is consumed in the country. The exports of these goods, as shown in Table 26, amounted to $\$ 595,584,160$ in 1911 and were widely distributed. India furnishes the greatest market for these goods, other important countries in this respect being China, Turkey, Egypt, Australia, Dutch East Indies, Argentina, and the United States.

Practically every country in which cotton is grown contributes to the supply of the English mills, although the main reliance is on the United States, which furnishes about 85 per cent of the total. Egypt and Brazil furnish most of the remainder, with relatively small amounts from India, Peru, and other countries.

Germany.-In the number of active spindles and in the quantity of cotton consumed, Germany ranks first among the countries of continental Europe and third among the countries of the world, being exceeded only by the United States and the United Kingdom. According to Table 23, the number of cotton spindles in Germany incroased from $8,000,000$ in 1900 to $11,186,000$ in 1913, or 39.8 per cent. The increase in the consumption of cotton in the 13 years was 400,000 bales, or 28.6 per cent.

The importance of this industry to the country is well illustrated by the fact that raw cotton is the largest single import and cotton manufactures the largest class of exports. In 1911, according to Table 26, Germany imported 1,957,759 bales of cotton and exported 163,353 bales, thus leaving $1,794,406$ bales available for consumption. As considerable quantities of the coarser goods are manufactured in this country, some low-grade cottons can be utilized and the imports of Indian and other inferior cottons are comparatively large, about one-eighth of the total being of these varieties. In the use of Egyptian cotton Germany is exceeded only by the United Kingdom and the United States. The trade in cotton manufactures is growing, the values of imports and exports in 1911 being $\$ 45,230,948$ and $\$ 114,108,624$, respectively, the excess of exports over imports being $\$ 68,877,676$.

Russia.-According to the latest reports available, the number of cotton spindles in Russia is $9,213,000$, and the estimated consumption of cotton $1,700,000$ bales of 500 pounds each. These figures show an increase of 22.8 per cent in spindles and 25.9 per cent in the quantity of cotton consumed since 1900. The industry was affected somewhat during the past year by labor disturbances, particularly at Lodz, and by the war in the Balkans. More than half of the cotton consumed in Russian mills is now grown in the Asiatic provinces of that country. Some Egyptian cotton is consumed, while practically all of the remainder is American.

France.-As measured by the number of active cotton spindles and the quantity of cotton consumed, France ranks fourth among the European countries in the manufacture of cotton goods. During the period covered by Table 23, the number of active spindles increased 34.5 per cent and the consumption of cotton 46.4 per cent. About one-fifth of the total number of spindles in the country are employed on Egyptian cotton and the remainder chiefly on American. The low average in the quantity of cotton consumed per spindle is due to the fact that about four-sevenths of the total are mule spindles, which do not consume as much cotton as ring spindles. During the past year the state of the industry in France, on the whole, was hardly satisfactory and there was practically no increase in the spinning capacity of the mills. As shown in Table 26, the value of cotton goods imported into France during 1911 was $\$ 16,540,486$ and the value of those exported was $\$ 67,789,127$, the balance of trade in these goods being $\$ 51,248,641$ in favor of France.

Austria-Hungary.-The war in the Balkans had a very depressing effect upon the cotton-manufacturing industry in Austria-Hungary, interfering not only with obtaining new business but with making deliveries in Turkey and the Balkan states on old contracts. This state of affairs resulted in the accumulation of stocks in the hands of manufacturers and merchants and necessitated curtailment. The number of active spindles in Austria-Hungary in 1913 was 4,909,000, on increase of 48.8 per cent since 1900. During this period the annual consumption of cotton increased from 675,000 bales to 820,000 , or 21.5 per cent.

Italy.-From the standpoint of growth in cottonmanufacturing machinery, Italy presents the most interesting example of any of the European countries for the period covered by the table, the number of spindles having increased from 1,940,000 to 4,600,000. A few years ago the mills became very active in the installation of new machinery, which accounts for this relatively large showing. It seems, however, that such rapid enlargement of equipment was ill advised, as the inclustry has, for two years at least, fallen far short of being satisfactory. There has been practically no increase in equipment during the past two seasons, and the condition of the industry became such as to cause anxiety among the mill owners and to call for serious consideration. As a result, a combination of the owners of about four-fifths of all the spindles in the country was formed during the past year and action taken toward standardizing prices and subsidizing establishments in order to restrict output.

Other European countries.-In addition to those already named, the manufacture of cotton is an important industry in a number of other European countries, among which may be mentioned the following: Spain, with 2,000,000 active spindles; Belgium, with 1,492,000; Switzerland, with $1,398,000$; Sweden, with

534,000; Portugal, with 480,000 ; the Netherlands, with 479,000; Denmark, with 90,000 ; and Norway, with 75,000 . The relative position of some of these countries in the manufacture of cotton and in the trade in cotton goods may be seen from Tables 23 and 26.

## INDIA.

Althougl cotton has been produced and consumed in India from time immemorial, its manufacture, as a factory industry, properly dates from 1854, with the building of a successful cotton mill in Tardeo, near Bombay. Since then the industry has had a steady growth and the indications are that it will continue to increase. India is gradually increasing the production of cotton, as well as improving the fiber. It also has an almost inexhaustible supply of cheap labor. These, when taken into consideration with the fact that India leads all other countries as a market for cotton goods, justify the belief that the industry in this country will eventually reach large proportions. At the present time the industry is largely centered in the Bombay presidency, where nearly three-fourths of the total number of spindles in the country are located. New mills, however, are being built in other sections of the country, but the largest increase is being shown in the established center. Since 1900 the number of active cotton spindles in the country has increased from $4,945,000$ to $6,084,000$ and the quantity of cotton consumed from $1,162,000$ bales of 500 pounds each to $1,762,000$ bales. In addition, it is estimated that 360,000 bales are used each yoar in manufacture outside of mills. The yarns produced in Indian mills are mainly 10 's to 20 's, as the cotton produced in the country is, as a rule, very coarse and harsh and not suitable for the manufacture of finer counts. Some American cotton is imported and used in the production of the finer yarns, but the necessity for this may be overcome by the growing of cotton with a longer staple. According to Table 26, the value of cotton manufactures imported into India during the year ending March 31, 1912, amounted to $\$ 160,927,139$, while the exports, which were largely made up of yarns, were valued at $\$ 50,210,889$. A large part of the yarns exported was sent to China, where they are used in the manufacture of cloth on hand looms.

## JAPAN.

Table 23 shows that the number of cotton spindles in Japan in 1913 was $2,300,000$ compared with $1,274,000$ in 1900, and that the quantity of cotton consumed increased from 700,000 bales in 1900 to $1,372,000$ bales in 1913. The large consumption of cotton per spindle is due to the fact that the mills are usually operated day and night and are, for the most part, equipped with ring spindles, which consume considerably more cotton than mule spindles. The industry in Japan is less susceptible to unusual con-
ditions in the supply of cotton than it is in many other countries. Low freight rates and proximity to China, the great market for Japanese yarns and cloth, facilitate the exportation of the finished products and give Japan an advautage in competition with other countries.
The principal source of the cotton supply is India, although the importation of Chinese cotton is important and increasing. The imports from the United States for a number of years have averaged about 200,000 bales annually, but during the fiscal year ending June 30,1913 , they amounted to 374,802 bales. As shown in Table 26, the value of cotton manufactures imported into Japan in 1911 was $\$ 7,775,497$, while the exports of such goods were palued at $\$ 34,049,389$.
According to a report by Consul General Sammons, the exports of cotton goods in 1912 amounted to $\$ 44,303,365$. Cotton tissues to the value of nearly $\$ 11,000,000$ and yarns to the value of nearly $\$ 24,000,000$ went to China, supplanting, in a large measure, American and British goods.

## china.

The demand for cotton yarn for weaving on hand looms has led to a comparatively large increase in the cotton-mill industry in China. The number of cotton spindles in mills in that country increased from 550,000 in 1900 to 930,000 in 1913, and the estimated quantity of cotton consumed from 200,000 bales to 398,000 bales during the same period. These figures relate only to the consumption of cotton in mills and do not include that spun or otherwise used in the homes of the people. This home industry, for which no data are arailable, is said to reach large proportions, and large quantities of cotton are produced and consumed in the country without reaching commercial channels.
China is, next to India, the most important marke to for cotton goods. The imports of yarn alone for the year 1910 amounted to $304,329,600$ pounds and for 1911 to $248,016,700$ pounds. The yarns imported ranged in fineness from 10's to 32 's, the numbers most in demand being 12 's, 14 's, 16 's, and 20 's. The imports of Indian yarns in 1911, consisting mostly of 10 's, 16 's, and 20 's, amounted to $141,101,700$ pounds, or more than half of the total imported. Most of the remainder of the yarns were Japanese and consisted principally of 16 's and 20 's.

## BRAZIL.

Notwithstanding the fact that cotton is indigenous to Brazil, its manufacture on a factory basis has never assumed great proportions. The number of spindles active during the past year has been estimated at $1,200,000$ and the quantity of cotton consumed at 285,000 bales of 500 pounds each. These figures show a large increase, when compared with those for

1900, at which time the number of spindles was placed at 450,000 and the cotton consumption at 85,000 bales.

According to a report of Julius G. Lay, consul general, cotton weaving is the most important manufacturing industry in Brazil, the annual production of cloth being more than $250,000,000$ yards. The value of cotton textiles produced in Brazil during 1911 amounted to $\$ 46,522,333$, while the value of such goods imported that year was $\$ 25,569,333$. Practically all of the coarser goods consumed in Brazil are now manufactured in the country, and the production of the finer grades is being extended.

All of the cotton used in the industry is Brazilian.

## OANADA.

As shown in Table 23, the number of spindles in Canada increased from 550,000 in 1900 to 855,000 in 1913, or 55.5 per cent, and the quantity of cotton consumed from 110,000 bales in 1900 to 125,000 bales in 1913. The industry in this country participated in the general improvement shown in other countries. According to Table 26, the value of cotton manufactures imported during the year ending March 31, 1912, was $\$ 21,330,862$, of which about one-third was supplied by the United States.

## MEXIOO.

The cotton industry in Mexico during the past year has been in a demoralized state and the trade at a low ebb, due to the continued disturbed political condition of the country. The demand for the products of the Mexican mills has accordingly decreased greatly, while importations of cotton goods have likewise declined. No accurate data as to the quantity of cotton consumed and the number of spindles active during the year are available.

The cotton mills are required to make semiannual reports, which are checked by Government inspectors. According to these reports, there were 148 mills active during the fiscal year ending June 30,1912 . Of these, 9 were engaged in spinning only; 119 in spinning and weaving; 11 in spinning, weaving, and printing; 3 in printing only; and 6 in the manufacture of hosiery and knit goods. The total number of spindles was 762,149 and the total number of looms 27,019 . There were $14,128,366$ pieces of cloth off about 30 yards each manufactured during the year and the total quantity
of cotton consumed was 146,180 bales of 500 pounds net, of which 15,565 bales were American, 304 bales Egyptian, and the remainder Mexican. The number of spindles active during the year ending August 31, 1913, has been estimated at 500,000 and the consumption at 110,000 bales.

## other countries.

Among other countries of relatively small, though increasing, importance in the manufacture of cotton goods, Asiatic Turkey, Indo-China, and some of the South American countries should receive consideration in a study of the world's progress in the industry.

## STOCKS OF COTTON IN FOREIGN COUNTRIES.

Owing to the interest attaching to cotton because of its importance in international trade and in the industrial world, there are a number of individuals and associations engaged in compiling and publishing statistics regarding this staple. Theso statistics, as a rule, are limited to the more important cotton centers and to cotton afloat, and full data for the world are not available.

Among the compilers of these reports may be mentioned the International Federation of Master Cotton Spinners' and Manufacturers' Associations, which includes leading organizations of cotton manufacturers in the important cotton-spinning countries. The federation collects information direct from the mills as to actual stocks of cotton on hand at the close of August and of February. Owing to the fact that the furnishing of the information is voluntary, and to the further fact that the mills are very widely scattered, there are always some establishments which fail to furnish the data at all, while the returns of some others are clelayed beyond the date of publication. As a result the data are incomplete and comparisons based upon the statistics shown are materially affected and this fact should be given full consideration.

Table 24 (p. 35), compiled from the reports of the federation published September 30, 1913, shows, by countries, for the years 1909 to 1913, inclusive, the total estimated number of spinning spindles, the number of spinning spindles in the establishments from which returns were actually received, and the number of bales of the several kinds of cotton on hand, on August 31, in the establishments reporting.

Table 24.-NUMBER OF SPINDLES AND STOOKS ON HAND IN FOREIGN GOTTON MILLS ON AUGUST 31, BY OOUNTRIES: 1909 TO 1913.
[Compiled from the reports of tho International Foderation of Master Cotton Spinners' and Manufacturors' Associations. 'stocks relate only to establishments from which reports were recelved.]


1 Not ronortod separately.

Liverpool, England, is one of the world's greatest cotton markets and clearing houses for cotton, the receipts of the staple at this port exceeding those at any other, with the single exception of Galveston. Accordingly, the cotton situation has a special interest in this city, and there are a number of publications issued relating to cotton. Among others, the Liverpool Cotton Association compiles and publishes reports regarding the movement of cotton. These reports include
statistics of stocks on hand at Liverpool and at other ports, and of cotton afloat.

Table 25, compiled principally from the reports of this association, presents comparative data regarding the stocks of cotton at the leading European ports and at Bombay and Alexandria, as well as cotton afloat to Great Britain and to the Continent, showing the different kinds of cotton separately.

Table 25.-Stocks of cotton on hand at selected ports and colton afloat to Great Britain and the Continent on the Friday nearest the end of August: 1909 to 1913.

| port and year. | Total. | Ammeri- can. | Brazilinn. | $\begin{aligned} & \text { Egyp- } \\ & \text { tian. } \end{aligned}$ | Pertr- | $\begin{gathered} \text { All } \\ \text { other. } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | STOCIS OF COTHON hetd (RUNNiNG bales) on thet friday neatlest the end of august. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Liverpool- |  |  |  |  |  |  |
| 1013. | 573, 150 | 375,550 | 70,620 | 47,810 | 31,050 | ${ }^{47,520}$ |
| 1912. | 694, <br> 402,200 | ${ }^{436}{ }^{\text {4 }}$ | 32, 220 | 41, 540 | 36, 350 | 44, 140 |
| 1010. | 331,080 | 244,440 | 13,900 | 22,370 | 16,890 | 33,480 |
| 1009. | 835,960 | 743,200 | 11,790 | 28,460 | 35,030 | 17,480 |
| London- |  |  |  |  |  |  |
| 1013. | -5,837 |  |  |  |  | 5, ${ }_{\text {5 }}^{11}, 1637$ |
| Bramem- |  |  |  |  |  |  |
| 1013. | 105, 000 | 103,000 |  |  |  | 2,000 |
| 1912. | 213,000 | 210,000 |  |  |  | 3,000 |
| Havre- |  | 71,500 |  |  |  | 10,200 |
| 1012. | 100, 100 | 95, 200 |  |  |  | 4,900 |
| Other continental por |  |  |  |  |  |  |
| ${ }^{1913 .}$ | 60, 250 | 28, 660 |  | 2,110 |  | 29,480 |
| Bombay: |  |  |  | 1,960 |  | 20,260 |
|  |  |  |  |  |  | 594,000 |
| 1912. | 454,000 |  |  |  |  | 454,000 |
| 1911 | 421,000 |  |  |  |  | 421,000 |
| 1910 | 404,000 |  |  |  |  | 404,000 |
| 1909. | 172,000 |  |  |  |  | 172,000 |
| Alexandria: |  |  |  |  |  |  |
| $\begin{aligned} & 1913 . \\ & 1912 . \end{aligned}$ | 64, 4632 4660 |  |  | 41, 036 |  |  |
|  | 42, 132 |  |  | 42,132 |  |  |
|  |  |  |  |  |  |  |
|  | cotton afloat ajgust 31 (running bales). |  |  |  |  |  |
| To Great Britain: |  |  |  |  |  |  |
| 1913. | 61, 000 | 25,000 | 5,000 | 88000 | 14,000 | 8,000 |
| 1912. | 83,000 | 42, 000 | 13,000 | 8,000 | 7,000 | 13,000 |
| 1911. | 87,000 | 61,000 | 3,000 |  | 10,000 | 7,000 |
| To the Continent: |  | 70,000 |  | 2,000 |  |  |
| 1912 | 128, 000 | 70,000 |  | 2,000 |  | 56,000 |
| 1911. | 166,000 | 138,000 |  | 2,000 |  | 20,000, |

A comprehensive statement of the world's stocks of cotton on August 31, 1913, would be most interesting and valuable as showing the total quantity carried over from the preceding year. Reliable data are lacking, however, for some of the holdings, particularly those in the less important countries. In order to afiord some idea regarding the amount carried over, information from various sources has been assembled
in the following statement, which presents the data under certain general headings, togetier with the several sources of information:

Stocks of cotton August 31, 1918.

| LOCATION. | Quantity (ruming bales ${ }^{1}$ ). | Source of information. |
| :---: | :---: | :---: |
| Mill stooks: |  |  |
| United States | 778,000 | Burean of the Census. |
| Tarope. | 2,475,000 | New Orleans Coiton Ex. change. |
| India, Japan, Canada, Brazil, and Mexico (partial). | 1,154,000 | International Federation of Master Cotion Spinmers and Manufactarers' insso tions. |
| Stocks in public storage places in United States. | 405,000 | Bureat of the Census. |
| Port stocks: <br> United Kingdom. | 579,000 | Liverpool Cotton Assoctation. |
| In other European countries | 247,000 | Liverpool Cotton Associntion. |
| Bombay | 594,000 | The Cotton Gazette, Liverpool. |
| Alexandria. | 65,000 | The Cotton Gazette, Liver pool. |
| Cotton afloat: <br> To United Kingdom. | 61,000 | Liverpool Cotton Association. |
| To other European countries | 165,000 | Liverpool Cotton Association. |
| Stocks held elsewhere in United States (estimated). | 325,000 | Burean of the Census. |

${ }^{1}$ Except foreign cotton in the United States, which is in equivalent 500 -pound bales.

The figures in the above statement represent a very large percentage of the total holdings of baled cotton on August 31, 1913. They include only partial figures, however, for mill stocks in India, Japan, Canada, Brazil, and Mexico, as given in Table 24, and do not account for such stocks in China and the other less important manufacturing countries outside of Europe; nor do they include for countries outside of the United States and Europe stocks other than those in mills, with the exception of the port stocks at Bombay and Alexandria. The statement, accordingly, fails to this extent to make a complete presentation of the quantity of cotton on hand on August 31, 1913.

IMPORTS AND EXPORTS OF COTTON AND COTTON MANUTACTURES.
Table 26 shows for the more important countries which import or export cotton or its manufactures,
the trade in cotton and cotton goods, showing separately the amounts for cloth, yarn and thread, and all other manufactures of cotton, as well as the total value.

Table 26.-Imports and exports of raw cotron and of cotton manuractures, for seleoted
COUNTRIES.
ICompiled by the Bureau of Foreign and Domestic Commerce, Department of Commerce. Owing to many differences in the methods employed by the seyeral countries in classifying their imports and exports of cotton manufactures and in presenting statistics for the same it is very diflacult, if not impracticable, to harmonize the results so as to present strictly comparable statistics. The statistics relate to the calendar year, except those for the United States, Cuba, and Moxico, which are for
the fiscai year, and those for Canada, Siam, and India, which relate to the year ending March 81 , the fisca year, and those for Canada, siam, and India, which relate to the year ending March 81,

| country. | Year. | $\begin{aligned} & \text { Raw } \\ & \text { cotton } \\ & \text { (erquiva- } \\ & \text { lent } 5000 \\ & \text { Ponind } \\ & \text { oalos). } \end{aligned}$ | de of cotron manufactures. |  |  |  | country. | Year. | $\begin{gathered} \text { Raw } \\ \text { cotton } \\ \text { coupiva- } \\ \text { lont 500- } \\ \text { pound } \\ \text { bades). } \end{gathered}$ | value of cotton manuraciures. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total. | Cloth. | Yarn and thread. | All other. |  |  |  | Total. | Cloth. | Yann and thread. | All |
| imporis. |  |  |  |  |  |  | mports-contd, |  |  |  |  |  |  |
| Austria-Fiungar | 1911 | 941, 884 | 13, $13.95,504$ | \$2,526, 723 | 37, 205,208 | 4, 263, 573 | Slam. | 1911 | 726 | 84,383, 297 | 82, 100, 562 | \$405,0 | 817,643 |
| Belgium | 1911 | 605,525 3,167 | $53,871,021$ <br> $4,938,520$ | $14,791,973$ $2,140,439$ | 1,502, 2120 | 27,570,073 | India. . 7 Trandochina. | 1909 | 109, 884 | 160,927, 139 | 139, 2229,173 | 13, 518,624 | 8, 179, 344 |
| France | 1911 | 1,537, 773 , | 16,540,486 | 1,823,657 | 5, 084,585 | 0,632,244 | Dutch East Indies.. | 1910 | 41 | ( 4, | 17,271, 086 | 2,4,27 | ${ }_{(3)}^{484}$ |
| Germany | 1911 | 1, 057, 759 | 45,230,948 | 6, 800,850 | 23, 535,344 | 14, 894, 754 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Philippine Islands... | 1911 | 1,401 | 9, 124, 434 | 0,210,754 | 1,187,089 | 1,745,991 |
| Italy | 1911 | 837,182 | 10, 102,672 | 2, 123,605 | 1,217, 693 | 0,761, 374 | Egyp | 1911 | 80 | 22,722, 779. | 20, 300, 157 | 1,596, 608 | 735, 924 |
| Netherl | 1910 | 431, 601 | 23, 715,645 | 7,047,304 | 16,202,286 | 4f16, 055 | Tunis | 1911 | 59 | ${ }_{2,764,817}$ | 9, 265,630 $2,377,941$ | 235,022 169,892 | 1, 133,592 |
| Norway | 1910 | 17,878 | 3, 664, 874 | (1) | 890,618 | 2,774,256 |  | 101 | 58 | 2, 734,817 | 2,377,941 | 169,892 | 216,98: |
| Portuga | 1910 | 72, 13, | 4, 144,617 | 2, 339,718 | 310,872 | 1, 104, 027 | Other Fronch Airica | 1010 | 40 | 14,690,710 | 13,149,723 | 364,766 | 1, 182,231 |
| Rouman | 1910 | 1,270 | 12,201,960 | 5,831,415 | 3,945,058 | 2,425,487 | British South Africa. | 1911 |  | 15,095,0883 | 7,846,857 |  | 7,248,226 |
| Russit | 1910 | 870,753 | 14, 067, 122 | 5,425,010 | $5,428,202$ | 4,113, 010 | Other Britishario | 1910 |  | 14, 29 | 140,8 | 271,137 | 9,881,414 |
| Servia | 1010 |  | 3,055,038 | 1,234, 373 | 1,414,383 | - 406, 282 | Gorman Arica. | 1909 |  | 3,381,738 | 2,794,523 | 76, 667 | 510,548 |
| Spain | 1911 | 398,666, | 3,542,145 | 931,790 | 414,401 | 2, 195, 864 |  |  |  |  |  |  |  |
| Sweden | 1910 | 91,247 | 6,334, 976 | 2,350,757 | 1,312,024 | 2,672,105 | Exporis |  |  |  |  |  |  |
| Switzerland | 1911 | 107,788 | 17,285, 044 | [5,803, 002 | 3,087,755 | 0,733,387 | Austria-Hungary. | 1911 | 50, 575 | 18, 153, 373 | 11,412,503 | 4,015,346 | 2,725, 524 |
| United | 1011 | 4, 414, 176 | 54, 892,743 | 13, 474, 039 | 1,034,215 | 30,484, 489 | Bolgium | 1911 | 202,480 | 62,367,303 | 18,961,660 | 12, $\mathrm{B6t}, 059$ | 35, 538,084 |
| Canada | 1912 | 145,588 | 21,330, 862 | 9, 932, 313 | 039,223 | 10,450,326 | France. | 1911 | 430, 713 | 67,789, 127 | 33,433, 390 | 3,114,248 | 31,241,489 |
| Cub | 1910 | 2,505 | 9, 690,186 | 7,701, 307 | 350,605 | 1,647, 274 | Germany | 1911 | 163,353 | 114, 108,624 | 34, 406, 232 | 14,086, 982 | 65,615,410 |
| Mexic | 1911 | 5,809 | 7,036,056 | 2,820, 959 | 1,426,495 | 2,788,202 | Italy. | 1911 | 347 | 42,003, 541 | 29,273,084 | (6, 742,613 | 5,987,844 |
| United | 1912 | 219,500 | 03,500, 574 | 7,760, 729 | 4,028, 127 | 51,717,718 | Netherlan | 1910 | 158,575 | 20, 369,009 | 24, 062,005 | 2,298,678 | 8,320 |
| Argent | 1911 |  | 34,314,484 | 22,366, 10.4 | 3,009,070 | 8,852,310 | Russia. | 1810 | 252 | 13, 155, 095 | 12,956,914 | 109,081 |  |
| Brazil. | 1909 | 2,211 | 15,032,953 | 8, 669,100 | 2, 553,458 | 3,810,395 | Switzerland | 1911 |  | 52,206, 307 | 5,051,944 | 3,209, 101 | 43,045,202 |
| Ch | 1911 | 759 | 14, 398,329 | 5,540, 410 | 1,510,668 | 7,347,251 | United Kingdo | 1911 | 582,361 | 595, 584, 160 | 442, 282, 334 | 76, 258,011 | 77,043, 815 |
|  | 1909 |  | 2,571,824 | 2,008,497 | 168,332 | 394,995 | United States. | 1912 | 11,072,605 | 50,760,511 | 31,388,998 | 599,593 | 18,780,020 |
| Chin | 1911 | 10,976 | 90, 120,451 | 58,943, 028 | 33, 520,033 | 3,657,390 | India. | 1912 | 1,637,912 | 50,210,889 | 21,674, 570 | 27,644, 807 | 891,512 |
| Japar | 1011 | 21,061,765 | 7,775,497 | 7,023, 753 | 570,830 | 180, 014 | Japan | 1911 |  | 34,049,389 | 9,816,079 | 20,065,914 | 4,167,306 |
| Koren | 1010 |  | 5,774,616 | 4,631, 663 | 913,185 | 229,768 | Egyp | 1911 | 1,315, 006 | 14,745 | 4,226 | 939 | 9,580 |

[^0]${ }^{2}$ Exclusive of $20,176,800$ pounds of eotton in the seef.

- Not avallable.

Mar 2.-CLASSIFICATION OF COUNTIES ACCORDING TO THE NUMBER OF COTTON SPINDLES: 1913.


# LOCALIZATION OF THE COTTON INDUSTRY IN THE UNITED STATES. 

The development of the cotton-manufacturing industry in the United States, which is one of the remarkable achievements of the country, properly dates from the introduction of the Arkwright machinery in 1790 , although as early as 1775 a spinning jenny of 24 threads was put in operation in Philadelphia.

In the cotton-mill industry water-power facilities more than any other factor have determined the location of the mill centers of the United States. For many years after the establishment of the industry water power was used almost exclusively to operate the machinery, although small mills were sometimes operated by animal power. As late as 1870 more than two-thirds of the power used in the industry was water power.

In a report made by the Secretary of the Treasury to Congress in 1810, the number of cotton mills erected up to the close of the previous year, including 25 then building, was given as 87 . The 62 then in operation were using 31,000 spindles. The total number of mills comprised 25 in Rhode Island, including 7 under construction; 15 in Massachusetts, including 5 under construction; 6 in Connecticut; 4 in Pennsylvania; 6 in New York; 5 in Maryland; 6 in New Hampshire; 6 in Kentucky; 4 in Vermont; 2 in New Jersey; 2 in Delaware; and 1 each in Maine, Virginia, South Carolina, Georgia, Tennessee, and Ohio. Of these 87 mills, all those in Kentucky, South Carolina, Georgia, Tennessee, and Ohio, 2 in Pennsylvania, and 1 each in Delaware and Maryland were operated by animal power.

Table 7, page 15, shows the development of the cotton-mill industry in the different sections of the country, by decades, since 1840. As shown by this table, the industry has increased in recent years more rapidly in the Southern states than in the other sections of the country. This rapid growth may be ascribed principally to two causes-(1) a large supply of labor which, though practically untrained in textile work, has been utilized profitably, particularly in the manufacture of the coarser yarns and fabrics, and sinceit has become more skilled, in the manufacture of finer goods; and (2) the development of the extensive water-power resources of this section. The practice of generating electricity at large hydroelectric plants and distributing it to cotton mills and other industrial enterprises has grown rapidly. It is asserted that the cost per horsepower of installing a hydroelectric plant
is usually less than that of installing a steam plant, and that the cost of operation is also less for the hydroclectric plant.

The importance of the cotton-spinning industry in certain localities is shown by the following table. This table gives the total number of spindles in each county having more than 100,000 producing cotton spindles, the counties being arranged in the order of their importance in this respect.

Table 27.-Counties in the United States having more than 100,000 collon spindles each, arvanged in order of number of spindles: 1913.

| COUNTY. | Spindles. (number). | COUNTY. | Spindles (number) |
| :---: | :---: | :---: | :---: |
| Bristol, Mass | 7,093,704 | Pickens, S. C | 205,588 |
| Providence, 12 | 1,590,478 | Guilford, N. C | 203,260 |
| Middlesex, Mass | 1,119,092 | Fulton, Ga. | 198,070 |
| Hillsborough, N. | -904,309 | Green wood, S. C | 104,768 |
| Spartanburg, S. C | 805,123 | Alken, S. C. | 186,548 |
| Ifampdon, Mass. | 744, 874 | Kennebec, Mo | 185,636 |
| Vindham, Conn | 744,664 | Richmond, G | 181,150 |
| Essex, Mass..... | 730,012 | Laurens, S. C | 179,856 |
| Greanville, S. C | 715, 670 | York, S. ${ }^{\text {C. }}$ | 178, 684 |
| Worcester, Mass | 624, 080 | Durham, N. 0 | 162,304 |
| Kent, R. $1 . .$. | 587, 304 | Rockingham, N . | 159,616 |
| Anderson, S. C. | 565, 648 | Nowberry, S , C | 159,592 |
| Berkshire, Mass | 491,000 | Cherokee, S. C | 154, 104 |
| Gaston, N. C. | 478, 934 | Hampshire, Mass | 144,840 |
| Now London, Con | 473, 500 | Chambers, Ala. | 138,500 |
| Oncide, N. Y | 405, 018 | Rutherford, $\mathrm{N} . \mathrm{C}$ | 137,920 |
| Androscoggin, Mo. | 397,798 | Alamance, N. C | 136,338 |
| York, Me... | 392, 072 | Calhoun, Ala. | 128,911 |
| Strefford, N. H | 308, 200 | Mertimack, N. H | 128,878 |
| Union, S. O | 293,468 | Riohmond, N. C. | 122,833 |
| Museorea, Ga | 270, 800 | Cumberland, Me. | 122,440 |
| Albany, ${ }^{\text {N, }} \mathrm{Y}$ | 266,086 | Tloyd, Ga. | 119,524 |
| Cabarrus, N. C | 252,920 | Pliladolphia, Pa | 117,693 |
| Pittsylyania, Va | 247,072 | Spalding, Ga. | 112,252 |
| Riohland, S. C | 244, 812 | Baltimore city, M | 110, 890 |
| Essex, N. J. | 232,291 | Knox, Tenn.. | 109,544 |
| Meuklenburs, N | 219,538 | Chester, S. C | 106,656 |
| Bristol, R, I | 213,116 | Stunly, N . | 104, 336 |
| Madison, Ala | 211,002 | Fall, Ga. | 102,492 |

In the 58 counties in the United States which had more than 100,000 cotton spindles, the total number of such spindles was $25,928,648$, or 80.6 per cent of the aggregate for the country. Of these counties, 3 , with a total of $9,812,874$ spindles, or 30.5 per cent of the aggregate for the United States, had more than $1,000,000$ spindles each; 9 , with $6,422,944$, or 20 per cent of the aggregate, had 500,000 but less than $1,000,000$ each; 19, with $5,808,491$, or 18 per cent of the aggregate, 200,000 but less than 500,000 each; and 27 , with $3,884,339$, or 12.1 per cent of the aggregate, 100,000 but less than 200,000 each. Of the 58 counties, 13 are in South Carolina, 10 in North Carolina, 7 in Massachusetts, 6 in Georgia, 4 in Maine; 3 each in Alabama, New Hampshire, and Rhode Island; 2 each in Connecticut and New York; and 1 each in Maryland, New Jersey, Pennsylvania, Tennessee, and Virginia.

Bristol County, Mass., with 7,093,704 cotton spindles, led all other counties, having 64 per cent of the total spindle capacity for Massachusetts, 40.3 per cent of the total for New England, and 22.1 per cent of the total for the United States. The industry was established in this county at an early date, and the county has long maintained a leading position. Fall River, the most important city in the United States from a cotton manufacturing standpoint, is located in this county, as well as the cities of New Bedford and Taunton, and a number of towns largely engaged in the manufacture of cotton. Providence County, R. I., with $1,599,478$ cotton spindles, held second place in number of cotton spindles, and Middlesex County, Mass., with 1,119,692 cotton spindles third. In the Southern states, Anderson, Greenville, and Spartanburg Counties, in the western part of South Carolina, are the only ones with more than 500,000 cotton spindles each, Spartanburg County having the largest number, 805,123. In North Carolina, Gaston County, with 478,934 spindles, ranked first; in Georgia, Muscogee, with 270,860; in Virginia, Pittsylvania, with 247,072; in Alabama, Madison, with 211,902; and in Tennessee, Knox, with 109,544.

Further illustration of the localization of the cottonmanufacturing industry in the United States is
afforded by map 2 , which gives a classification of all the counties in the country according to spindle capacity and brings out the concentration of the industry in well-defined sections. On it are indicated counties having less than 50,000 cotton spindles each; those having from 50,000 to 100,000 each; those having from 100,000 to 200,000 each; those having from 200,000 to 500,000 each; and those having more than 500,000 each.

The relative standing of any country in the cotton manufacturing industry as a whole depends largely upon whether the factories are devoted to spinning only, or to both spinning and weaving. In some counties the mills make a specialty of spinning yarn which is used elsewhere, while in others practi. cally all the yarn spun is used in the county, and in still others the operations are largely confined to weaving and otherwise using yarns spun elsewhere. This last condition is particularly applicable to Philadelphia County, Pa., one of the leading counties in the United States in textile manufacture. This county ranks low in respect to the number of cotton spindles, but, because of the use of cotton yarn in weaving cotton fabrics and in the carpet and woolen industries and in the manufacture of hosiery, it is said to be the greatest market for cotton yarn in the country.


[^0]:    ${ }^{1}$ Included in "All other."

