DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

WM. J. HARRIS, DIRECTOR

BULLETIN 117

SUPPLY AND DISTRIBUTION OF COTTON

FOR THE YEAR ENDING AUGUST 31, 1913



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LETTER OF TRANSMITTAL.

• DEPARTMENT OF COMMERCE,

BUREAU OF THE CENSUS,

Washington, D. C., November 1, 1913.

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. Steuart, 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 ginners, 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,

Hon. WILLIAM C. REDFIELD,

Secretary of Commerce.

(5)

SUPPLY AND DISTRIBUTION OF COTTON IN THE UNITED STATES.

GENERAL SUMMARY.

Table 1 summarizes under certain general headings | year ending August 31, the statistics for the supply of cotton in the United | 1906 to 1913, inclusive.

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 YEARS ENDING AUGUST 31: 1906 TO 1913.

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are included.]

	1918	1912	1911	1910	1909	1908	1907	1906
SUPPLY.								
Aggregate		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. In manufacturing establishments, total. In cotton-growing states. In all other states. In independent warehouses and other public storage places. Elsewhere (estimated). Not imports. Ginnings. To balance distribution.	1,776,885 870,646 241,611 629,035 556,239 350,000 225,460 14,159,078 64,311	1, 375, 031 542, 191 101, 114 441, 077 432, 840 400, 000 229, 268 16, 068, 936 222, 091	1, 040, 040 533, 232 121, 349 411, 883 306, 808 200, 000 231, 191 12, 384, 248 217, 944	1, 483, 585 907, 097 186, 458 720, 639 325, 099 251, 389 151, 395 10, 350, 078 202, 063	1, 236, 058 594, 184 112, 471 481, 713 444, 626 197, 248 105, 451 13, 418, 144 403, 232	1,514,507 1,016,738 311,307 705,431 388,919 108,919 140,869 11,527,833 175,438	1,349,139 680,471 184,060 496,411 } 668,668 202,733 13,097,992 375,856	1,934,548 776,801 232,928 543,873 1,157,747 133,464 10,656,498 322,700
DISTRIBUTION.								
Aggregate		17, 896, 226	13, 873, 423	12, 188, 021	15, 312, 885	13, 358, 707	15,025,720	13,047,219
Cotton exported Cotton consumed, total In cotton-growing states. In all other states. Cotton destroyed by fire. Cotton on hand at end of year, total. In manufacturing establishments, total. In cotton-growing states. In all other states. In independent warelouses and other public storago places. Elsewhere (estimated).	8, 800, 966 5, 786, 330 2, 960, 513 2, 825, 812 40, 000 1, 598, 438 778, 158 234, 509 543, 640 495, 280 325, 000	10, 681, 758 5, 367, 583 2, 712, 223 2, 655, 360 70, 000 1, 776, 885 870, 646 241, 611 629, 035 556, 239 350, 000	7, 781, 414 4, 704, 978 2, 328, 487 2, 376, 491 12,000 1, 375, 031 542, 191 101, 114 441,077 432, 840 400,000	6, 339, 028 4, 798, 963 2, 292, 333 2, 506, 620 10, 000 1, 040, 040 533, 232 121, 349 411, 883 306, 808 200, 000	8,574,024 5,240,719 2,553,797 2,686,922 14,557 1,483,585 907,997 186,458 720,639 325,099 251,389	7,573,349 4,539,090 2,187,090 10,210 1,236,058 594,184 112,471 481,713 444,626 197,248	8,503,265 4,984,936 2,410,903 2,573,943 22,952 1,514,567 1,016,738 311,307 705,431 388,919 108,910	6,763,041 4,909,279 2,373,577 2,535,702 25,760 1,349,139 680,471 184,000 496,411 } 608,668

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 1912, 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 cent, 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

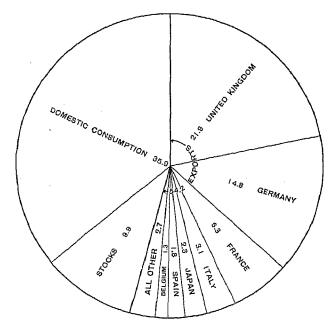
consumed at home, 59.7 per cent was exported, and 9.9 per cent remained in the country at the close of the year, while for 1910 the proportions were 39.5, 52, and 8.5 per cent, respectively.

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 1912, 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, a 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.

DIAGRAM 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 COLLECTING AND ASSEMBLING DATA.

The data relative to cotton ginned have been collected by local agents of the Census Bureau, who canvassed the ginners 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 held at the beginning of the year, together with the net imports of cotton, the amount of cotton 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 independent 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 producers. The number of these agencies which would have to be canvassed 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 ginnings 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 end 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 under 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 each 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 leaves 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 successive 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 running 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 net 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.

	NET IMPO	NET IMPORTS OF RAW COTTON (EQUIVALENT 500- POUND BALES).								
YEAR.		Imported from—								
	Total.	Egypt.	United King- dom.	Peru.	All other countries.					
1913 1912 1911 1910 1909 1908 1908 1907 1906 1905 1900 1895	225, 460 229, 268 231, 191 151, 395 165, 461 140, 869 202, 733 133, 464 130, 182 134, 778 99, 399	182, 238 175, 835 183, 786 102, 217 124, 985 120, 187 169, 731 103, 669 108, 283 106, 166 59, 864	8,071 27,049 9,717 19,435 15,722 13,741 22,493 20,176 14,723 21,810 36,213	10, 300 9, 201 10, 221 12, 076 13, 508 5, 586 8, 564 7, 440 5, 941 5, 116 2, 335	24, 851 17, 183 27, 467 17, 667 6, 236 1, 355 1, 945 2, 179 1, 235 1, 686 987					

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

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.—Total imports of cotton, by countries of production, for each month from September, 1912, to August, 1913, inclusive.

	IMPORTS OF FOREIGN COTTON (EQUIVALENT 500- POUND BALES.)									
MONTH.			F	roduce	l in—					
	Total.	Egypt.	Ch in a.	Poru.	Ind ia .	Mex- ico.	All other coun- tries.			
Total for year ending Aug. 31, 1913	227,645	191,075	18,341	10,737	4, 373	756	2,363			
September	8,930 10,571 9,452 24,846	7,710 6,522 7,905 21,548	106 3,042 471 1,730	630 567 867 1,481	433 345 151	21 58 3 72	30 37 55 15			
1913. January. February. March. April. May. June. July. August.	27,889 20,776 13,820 8,019 9,496	47, 098 29, 899 23, 028 16, 377 11, 764 6, 622 7, 049 5, 553	3,132 2,457 1,051 3,082 518 617 1,303 832	1,586 1,367 946 797 461 572 906 557	2,505 1 80 814	160 316 97	262 520 1,076 208 158			

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 used 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 STATES.

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 STOCKS HELD IN MANUFACTURING ESTABLISHMENTS, BY STATES: 1909 TO 1913.

[Quantities of cotton are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are included.]

STATE.	Year ending	COTTON S	PINDLES.1	Spindles consum- in gcotton mixed	COTTON	CONSUMED (F	ALES).	STOCKS ESTABL YEAR (1	SHMENTS .	FACTURING AT END OF
	August 31—	Total.	Active.	with other fibers.2	Total.	Domestic.	Foreign.	Total.	Domes- tic.	Foreign.
United States	1913 1912 1911 1910 1909	32, 149, 617 31, 582, 679 30, 803, 662 28, 929, 093 28, 573, 435	31, 519, 766 30, 578, 528 29, 522 , 597 28, 266, 862 28, 018, 305	454, 733 500, 206 456, 242 558, 792	5, 786, 330 5, 367, 583 4, 704, 978 4, 798, 953 5, 240, 719	5, 553, 401 5, 159, 920 4, 529, 548 4, 643, 179 5, 078, 981	232, 929 207, 663 175, 430 155, 774 161, 738	778, 158 870, 646 542, 191 533, 232 907, 097	698,179 785,870 400,767 490,895 841,534	79, 979 84, 776 81, 424 42, 337 65, 563
A labama	1913 1912 1911 1910 1909	1,000,080 985,968 967,564 986,239 984,534	993, 580 960, 416 897, 414 935, 329 948, 068		299, 924 267, 189 247, 179 236, 188 250, 380	299, 626 266, 754 246, 693 235, 783 250, 140	298 435 486 405 240	23,859 22,225 11,081 13,949 18,511	23,832 22,090 10,968 13,854 18,354	27 135 113 95 157
Arkansas	1913 1912 1911 1910 1909	13, 808 13, 674 14, 324 15, 279 14, 324	6, 808 6, 674 6, 814 13, 754 13, 724		7, 895 6, 177 6, 523 4, 285 6, 325	7,895 6,177 6,523 4,285 6,325		537 994 1, 127 975 760	537 994 1,127 975 700	
California	1913 1912 1911 1910 1909	20,000 16,000 17,592 16,442 15,500	20,000 16,000 15,000 16,442 15,500		21, 713 18, 780 13, 375 14, 803 14, 574	21,651 18,524 12,413 14,803 14,555	62 256 962 19	3, 630 3, 643 2, 643 2, 320 1, 165	3, 630 3, 643 2, 258 2, 320 1, 165	385
Connecticut	1913 1912 1911 1910 1909	1,308,650 1,207,907 1,270,071 1,282,232 1,253,582	1,276,832 1,249,593 1,257,827 1,279,416 1,246,068	45,998 44,076 45,239 39,724	145, 477 142, 745 128, 991 136, 870 142, 685	123,754 122,995 113,958 122,778 127,690	21, 723 10, 750 15, 033 14, 092 14, 995	46, 926 40, 075 35, 846 31, 874 53, 081	39, 342 31, 321 24, 210 28, 130 49, 644	7, 584 8, 754 11, 636 3, 744 3, 437
Georgia	1913 1912 1911 1910 1909	2, 103, 018 2, 025, 238 1, 980, 813 1, 833, 244 1, 831, 714	2,071,910 1,945,772 1,882,749 1,794,667 1,797,484	11,610 16,608 5,792 15,612	648, 131 564, 426 488, 738 496, 951 540, 818	644,743 560,506 487,054 403,624 538,686	3,388 3,920 1,684 3,327 2,132	41,603 38,513 18,609 22,273 33,204	39, 521 38, 288 17, 556 21, 288 31, 527	2, 172 225 1, 143 985 1, 677
Illinois	1913 1912 1911 1910 1909	52, 824 48, 444 43, 404 41, 032 41, 988	50, 957 48, 444 43, 404 39, 240 41, 988	3,000 3,000 600 2,776	37, 091 27, 831 16, 598 17, 451 21, 920	37, 045 27, 802 16, 530 17, 427 21, 904	46 29 68 24 16	3,604 3,582 1,103 664 2,519	3,591 3,573 1,091 657 2,517	13 9 12 7 2
Indiana	1913 1912 1911 1910 1909	94, 032 130, 656 127, 674 125, 352 128, 856	90, 032 91, 656 72, 354 124, 104 128, 856	5,649 6,890 5,540 8,904	23, 228 21, 795 14, 435 21, 612 31, 280	23, 168 21, 766 14, 392 21, 609 31, 280	60 29 43 3	4, 646 3, 282 1, 468 2, 028 3, 420	4,634 3,267 1,466 2,014 3,429	12 15 2 14
Kansas	1913 1912 1911 1910 1909	10, 400 10, 608 10, 600 10, 800 10, 708	10,400 8,160 5,000 10,708	864	7,692 4,457 2,005 2,457 5,146	7,691 4,457 2,003 2,457 5,146	2	1,308 660 541 486 501	1,307 660 540 486 591	i
Kentucky	1913 1912 1911 1910 1909	96, 140 93, 628 96, 956 85, 044 88, 096	94, 936 92, 424 96, 956 85, 044 83, 080	5,000 5,000	26, 710 27, 339 19, 012 23, 056 25, 353	26, 710 27, 339 18, 997 23, 056 25, 353	15		3, 236 3, 780 1, 718 2, 353 3, 555	
Louisiana	1913 1912 1911 1910 1909	86, 095 86, 088 86, 588 87, 070 89, 152	36,683 36,676 37,676 67,902 69,152		16, 045 15, 151 10, 470 10, 910 15, 949	16,045 15,151 10,470 10,910 15,940		320 263 206 316 324	206 318	*********
Maine.	1913 1912 1911 1910 1909	1,096,986 1,052,674 1,066,552 1,037,176 1,005,258	1,078,394 1,047,466 1,040,932 1,028,680 990,712	11,052 16,376 13,168	175, 271 166, 550 151, 595 154, 841 161, 099	172, 774 164, 394 149, 899 153, 645 160, 137	2,497 2,156 1,696 1,196 962	27, 769 30, 074 25, 004 24, 330 51, 350	26, 582 29, 085 23, 568 24, 023 50, 742	1,187 989 1,436 307 608
Maryland.	1913 1912 1911 1910 1909	162, 288 158, 168 160, 114 153, 010 152, 266	154, 215 128, 546 140, 514 141, 966 144, 290	9,000 9,000 9,000	73,589 69,704 57,892 56,013 61,294	78, 589 69, 704 57, 892 56, 013 61, 294		4,608 6,092 2,246 1,645 2,339	4,608 6,092 2,246 1,645 2,339	
Massachusetts	1913 1912 1911 1910 1909	11, 075, 684 11, 066, 846 10, 613, 290 9, 703, 573 9, 688, 637	10, 904, 016 10, 822, 771 10, 166, 348 9, 637, 601 9, 575, 461	53, 456 61, 904 53, 558 57, 560	1, 332, 912 1, 264, 017 1, 144, 345 1, 228, 813 1, 321, 572	1, 201, 686 1, 145, 201 1, 048, 623 1, 146, 664 1, 231, 779	131, 226 118, 726 95, 722 82, 149 89, 793	250, 057 313, 050 220, 811 209, 852 355, 474	209, 323 266, 189 179, 936 186, 206 315, 970	40, 734 46, 861 40, 875 23, 646 39, 504
Michigan	1913 1912 1911 1910 1909	15,096 14,592 16,036 13,884 15,876	15,000 14,592 16,036 13,884 15,876	3,316 3,036 2,172 2,680	7,351 6,001 4,972 5,991 4,534	7, 208 5, 089 4, 964 5, 989 4, 534	53 12 8 2	1,788 1,561 1,123 1,810 2,460	1,788 1,550 1,122 1,807 2,460	2 1 3
Mississippi. *Statistics of spindles for 191	1913 1912 1911 1910 1909	192, 306 191, 092 183, 662 185, 280 176, 640			33,292 31,159 25,719 29,978 37,522	33, 292 31, 159 25, 719 20, 978 37, 522		1,467 2,230 1,057 1,500 2,615	1,467 2,230 1,057 1,500	

Statistics of spindles for 1910 relate to Dec. 31, 1909.

² Statistics not available for 1910.

TABLE 4.—SPINDLES, RAW COTTON CONSUMED, AND STOCKS HELD IN MANUFACTURING ESTABLISHMENTS, BY STATES: 1909 TO 1913—Continued.

[Quantities of cotton are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are included.]

STATE,	Year ending	COTTON S	PINDLES. ¹	Spindles consum- ing cotton mixed	COTTON	CONSUMED (I	sales).	STOCKS ESTABL YEAR (1	IN MANUI ISHMENTS A BALES).	ACTURING AT END OF
	August 31—	Total.	Active.	with other fibers.2	Total.	Domestic.	Foreign.	Total.	Domes-	Foreign.
Missouri	1913 1912 1911 1910 1909	31,920 31,840 30,744 30,744 27,776	31, 920 31, 840 30, 744 30, 744 27, 776	4, 059 4, 059 2, 500	21, 863 19, 868 16, 244 15, 038 16, 711	21,863 19,864 16,236 15,014 16,711	4 8 24	4,580 2,926 1,857 1,991 2,289	4, 580 2, 920 1, 856 1, 989 2, 289	1 2
Now Hampshire	1913 1912 1911 1910 1909	1, 469, 137 1, 453, 778 1, 462, 788 1, 440, 173 1, 313, 581	1,458,115 1,445,161 1,441,423 1,325,900 1,313,357	28, 728 33, 436 29, 237 44, 897	305, 867 295, 095 259, 458 265, 501 278, 457	295, 035 287, 250 250, 865 260, 055 275, 015	10, 232 7, 845 8, 593 5, 440 3, 442	58, 412 78, 138 47, 613 39, 145 91, 684	53, 207 74, 949 43, 489 36, 291 90, 726	5, 205 3, 189 4, 124 2, 854 958
New Jorsey	1913 1912 1911 1910 1909	476,731 485,176 483,057 463,403 460,888	476,731 466,617 471,021 451,408 445,310	10,326 10,326 10,968 27,304	64, 912 62, 433 53, 609 52, 853 52, 416	46, 103 47, 315 40, 166 38, 534 38, 358	18,809 15,118 13,443 14,319 14,058	17,012 17,681 13,057 10,147 15,395	7,229 6,997 4,589 6,161 7,399	9,783 10,684 8,468 3,986 7,996
New York	1913 1912 1911 1910 1909	956, 595 925, 576 963, 969 970, 445 942, 521	922, 341 833, 670 905, 264 962, 841 931, 525	60,907 67,905 83,400	227,813 205,191 182,068 199,787 218,780	224, 786 202, 545 179, 789 195, 875 215, 069	3,027 2,646 2,279 3,912 3,711	23,006 30,166 16,962 14,586 31,384	22,704 29,675 16,520 14,042 30,427	302 491 442 544 957
North Carolina	1913 1912 1911 1910 1909	3, 593, 999 3, 403, 996 3, 353, 706 3, 062, 061 3, 010, 367	3,565,261 3,337,253 3,216,195 2,958,235 2,934,124	5,360 6,700 6,160 5,452	876, 359 824, 476 696, 987 658, 498 756, 677	867,831 816,297 691,317 655,058 753,460	8,528 8,170 5,670 3,440 3,217	69,575 83,040 27,127 31,080 52,188	67,236 81,220 25,497 30,516 51,773	2, 339 1, 820 1, 630 564 415
Ohio	1913 1912 1911 1910 1909	240 240	240 240	17,240 17,858 17,512 16,562	38,459 33,088 26,326 28,304 28,222	38, 352 33, 043 26, 300 28, 377 28, 221	107 45 26 17 1	12,318 10,594 9,079 7,590 10,633	12, 296 10, 587 9, 077 7, 589 10, 632	22
Oklahoma	1913 1912 1911 1910 1909	5,712 5,712 5,712 5,756 5,712	5,712 5,712 5,712 5,756 5,712		9,788 7,918 6,774 6,397 5,269	9,788 7,918 6,774 6,397 5,269		772 365 431 930 564	772 365 431 930 564	
Pennsylvania	1913 1912 1911 1910 1909	249,857 265,715 280,202 297,799 275,654	242, 053 246, 477 254, 120 278, 307 264, 437	140,065 146,208 120,031	76,579 69,887 67,297 66,885 80,541	72,562 65,871 63,008 62,208 75,384	4,017 4,016 4,289 4,587 5,157	10,858 13,159 8,745 8,288 12,431	10,414 11,945 8,308 7,682 11,071	444 1,214 437 606 1,360
Rhode Island	1913 1912 1911 1910 1909	2,533,380 2,552,743 2,526,995 2,412,272 2,399,440	2,464,790 2,458,650 2,499,175 2,371,777 2,361,069	3,340 5,424 5,364 7,340	239,060 229,365 218,034 219,920 230,425	213, 696 208, 685 196, 336 200, 583 209, 816	25,364 20,680 21,698 19,337 20,609	67,832 70,339 49,315 50,069 77,815	59,046 61,714 41,378 45,630 69,895	8,780 8,625 7,937 4,439 7,920
South Carolina.	1913 1912 1911 1910 1909	4,536,353 4,327,178 4,187,317 3,833,901 3,819,149	4, 469, 886 4, 272, 598 4, 098, 621 3, 760, 891 3, 715, 894	1,400 1,892 2,700	775, 851 731, 318 618, 698 627, 708 696, 462	773, 759 728, 505 615, 685 625, 025 693, 687	2,092 2,813 3,013 2,683 2,775	59, 988 66, 550 25, 132 33, 955 53, 149	58, 889 65, 273 22, 664 33, 554 52, 826	1, 099 1, 277 2, 468 401 323
Tennossee.	1913 1912 1911 1910 1909	271,634 254,278 253,460 272,774 272,856	269, 102 247, 474 238, 656 250, 530 253, 762	19,904 17,396 15,748 25,828	81,790 73,441 70,147 70,229 69,653	81,782 73,395 70,104 70,217 69,653	8 46 43 12	11, 280 8, 835 4, 900 5, 640 9, 052	11, 280 8, 835 4, 880 5, 640 9, 052	20
Texas	1913 1912 1911 1910 1909	123,908 114,352 113,100 108,778 106,528	110, 320 97, 556 90, 998 100, 854 98, 604		58,354 51,820 41,310 39,052 42,210	58,354 51,820 41,310 39,052 42,210		5,789 3,311 2,431 1,723 3,097	5,789 3,311 2,431 1,723 3,097	
Vermont	1913 1912 1911 1910 1909	136,304 136,892 105,276 105,184 105,184	129, 304 116, 304 105, 276 91, 712 105, 184	10,648 10,564 11,152	12,226 10,588 8,669 10,441 10,210	11,104 9,845 8,147 9,721 9,617	1, 122 743 522 720 593	1,367 2,446 834 647 1,912	1, 199 2, 041 553 519 1, 679	168 405 281 128 233
Virginia	1913 1912 1911 1910 1909	426, 920 414, 148 372, 816 329, 174 315, 676	426, 920 407, 548 357, 816 324, 542 311, 644	1,044 2,128 3,308 4,018	95,064 86,177 77,702 70,689 84,176	95, 064 86, 177 77, 700 70, 657 84, 176	2 32	9,903 7,831 4,770 4,154 6,494	9, 903 7, 831 4, 770 4, 154 6, 494	
Wisconsin	1913 1912 1911 1910 1909	2,160 2,112 1,920 13,612 13,612	2, 160 2, 112 1, 920 2, 112 2, 112	2,304 2,304 1,968 4,104	10,239 8,979 7,639 7,401 9,105	10,239 8,979 7,635 7,384 9,097	4 17 8	1,821 1,591 1,475 1,914 1,608	1,821 1,591 1,475 1,912 1,607	2
All other states	1913 1912 1911 1910 1909	7,360 7,360 7,360 7,360 7,360	7,360 7,360 7,360 7,360 7,360	8,886 13,116 12,642 8,136	35,785 24,618 22,167 19,941 20,954	35, 516 24, 403 22, 046 19, 911 20, 944	269 215 121 30 10	8,197 3,650 3,790 4,998 6,025	8,096 3,576 3,780 4,989 6,011	101 74 10 9

¹ Statistics of spindles for 1910 relate to Dec. 31, 1909.

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 idle 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 3,593,999 spindles, or 11.2 per cent; Rhode Island, fourth; Georgia, fifth; New Hampshire, sixth; Connecticut, seventh; Maine, eighth; 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 cotton, 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 Connecti-

Ring and mule spindles.—Inasmuch 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 cotton spindles in the United States in 1904, 1909, 1912, and 1913.

TABLE 5.—NUMBER OF ACTIVE RING AND MULE COTTON SPINDLES, BY STATES, FOR SPECIFIED YEARS: 1904 TO 1913.

					NUMBER	OF ACTIVE	COTTON SPIN	IDLES.					
STATE.		1918			1912			1909 t			1904		
	Total.	Ring.	Mule.	Total.	Ring.	Mule,	Total.	Ring.	Mule.	Total.	Ring.	Mule.	
United States		27, 380, 573	4, 139, 193	30, 578, 528	26, 211, 979	4, 366, 549	28, 178, 862	23, 256, 023	4,922,839	23,672,064	18, 218, 800	5, 453, 264	
Alabama Connecticut Georgia Illinois Indiana	993, 580 1, 276, 832 2, 071, 910 50, 957 90, 032	986, 180 857, 836 2,020, 080 36, 824 90, 032	7, 400 418, 996 51, 830 14, 133	960, 416 1,249,593 1,945,772 48,444 91,656	952, 216 847, 134 1, 877, 038 32, 444 91, 656	8,200 402,459 68,734 16,000	913, 503 1,279, 416 1,774, 967 39, 240 124, 104	909, 587 832, 830 1, 703, 071 23, 240 115, 152	3,916 446,586 71,896 16,000 8,952	772, 727 1,208, 715 1,331,557 32,000 129,292	765, 727 715, 739 1, 254, 885 16, 000 104, 424	7,000 492,976 76,672 16,000 24,868	
Kontucky Louisiana Maine Maryland Massachusetts	94, 936 36, 683 1, 078, 394 154, 215 10, 904, 016	78, 416 34, 427 985, 408 154, 215 8, 909, 019	16, 520 2, 256 92, 986 1, 994, 997	92, 424 36, 676 1, 047, 466 128, 546 10, 822, 771	75, 504 34, 420 936, 570 128, 546 8, 724, 925	16,920 2,256 110,896 2,097,846	85,044 67,902 1,028,680 133,302 9,637,601	68, 124 63, 096 867, 364 133, 302 7, 480, 902	16,920 4,806 161,316 2,156,699	81,392 62,052 897,422 136,456 8,589,671	57, 572 56, 552 673, 698 136, 456 6, 177, 227	23, 520 5, 500 223, 724 2, 412, 444	
Mississippi. Missouri. New Hampshire. New Jersey. Now York.	133, 788 31, 920 1, 458, 115 476, 731 922, 341	133, 788 31, 480 1,386, 912 195, 815 724, 716	440 71, 203 280, 916 197, 625	132, 766 31, 840 1, 445, 161 466, 617 833, 670	132, 766 31, 400 1, 366, 360 191, 880 637, 500	440 78, 801 274, 737 196, 170	159,904 30,744 1,325,900 420,784 962,841	159, 104 30, 304 1, 169, 850 107, 381 547, 512	800 440 156, 050 313, 403 415, 329	128, 852 14, 101 1, 304, 476 436, 764 789, 520	128, 852 14, 101 1,033, 721 87, 960 364, 304	270, 755 348, 804 425, 216	
North Carolina. Pennsylvania. Rhode Island. South Carolina Tennessee.	3, 565, 261 242, 053 2, 464, 790 4, 469, 886 269, 102	3, 486, 085 142, 996 1, 688, 672 4, 461, 926 258, 022	79, 176 99, 057 776, 118 7, 960 11, 080	3,337,253 246,477 2,458,650 4,272,598 247,474	3, 268, 573 135, 760 1, 577, 237 4, 268, 618 235, 674	68, 680 110, 717 881, 413 3, 980 11, 800	2,958,235 278,307 2,371,777 3,760,891 247,530	2, 886, 453 139, 062 1, 496, 434 3, 732, 063 237, 530	71, 782 139, 245 875, 343 28, 828 10, 000	1,916,339 280,907 2,086,802 2,876,796 163,903	1,836,315 146,396 1,236,564 2,860,884 153,903	80, 024 134, 511 850, 238 15, 912 10, 000	
Texas. Vermont. Virginia. All other states.	110, 320 129, 304 426, 920 67, 680	110, 320 119, 104 420, 860 67, 440	10,200 6,060 240	97, 556 116, 304 407, 548 60, 850	97,556 106,104 401,488 60,610	10, 200 6, 060 240	97, 628 91, 712 324, 542 64, 308	97, 628 75, 872 316, 970 63, 192	15,840 7,572 1,116	68, 170 108, 028 201, 090 55, 032	68, 170 80, 312 194, 006 55, 032	27, 716 7, 081	

¹In this table the figures for 1909 relate to the calendar year, whereas those for 1909 as shown in Table 4 relate to the year ending August 31.

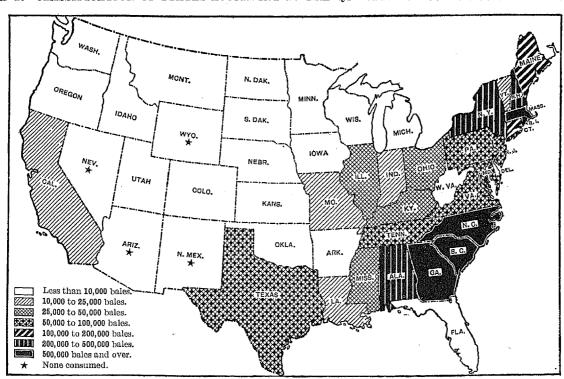
Of the 31,519,766 active cotton spindles in the United States reported for 1913 only 4,139,193, or 13.1 per cent, were mule spindles. This compares with 4,366,549, or 14.3 per cent, in 1912; 4,922,839, or 17.5 per cent, in 1909; and 5,453,264, or 23 per cent, in 1904, showing a continuous decrease not 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 spindles 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 coarse yarns made from short-staple cotton 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 bales, 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 1912, 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.

Massachusetts, with 1,332,912 bales, leads all the other states in the quantity of cotton consumed; North Carolina, with 876,359 bales, is second; South Carolina, with 775,851 bales, 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 cent; 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.

Kinds 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 1918.

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are included.]

KIND AND LOCALITY,		CON CONSULT		STOCKS HELD IN MANUFACTURING ESTABLISHMENTS ON AUGUST 31 (BALES).					
	1913	1912	1911	1913	1912	1911			
United States	5,786,330	5,367,583	4,704,978	778, 158	870,646	542,191			
Domestic— Upland Sea-island Linters Foreign— Egyptian Peruvian Indian	5, 195, 614 54, 778 303, 009 201, 269 10, 341 2, 412	4,826,827 94,856 238,237 180,465 8,539 6,842 11,817	4,258,750 64,237 206,561 147,192 8,903 9,793 9,542	619, 200 18, 525 60, 454 70, 859 1, 044 673 7, 403	709, 495 23, 753 52, 622 77, 029 1, 482 3, 806 2, 459	398,065 19,280 43,422 70,678 1,456 3,909 5,381			
Other Cotton-g r o wing states Domestic—	2,900,518	2,712,223 2,609,360	2, 328, 487 2, 230, 225	234,509	241, 611 224, 730	101, 114			
Upland Sea-island Linter Foreign—	2,834,732 12,696 98,775	11,112 76,345	7, 987 79, 352	2,664 15,325	1,916 11,508	655 11,980			
Egyptian Peruvian Indian Other All other states	$\begin{bmatrix} 10,051\\ 6\\ 475\\ 3,783\\ 2,825,812 \end{bmatrix}$	285 2,555 2,655,360	2,092 2,253 2,376,491	4, 053 4 353 1, 227 543, 649	2,767 4 686 629,035	4,644 222 510 441,077			
Domestic— Upland Sea-island Linters Foreign—	2,360,882 42,082 204,234	2,217,458 83,744 161,892	2,028,525 56,250 127,209	408, 317 15, 861 45, 129	484,765 21,837 41,114	314, 962 18, 625 31, 442			
Egyptian Peruvian Indian Other	191, 218 10, 335 1, 937 15, 124	167, 908 8, 539 6, 557 9, 262	140,614 8,903 7,701 7,289	66, 806 1, 040 320 6, 176	74, 262 1, 482 3, 802 1, 773	66, 034 1, 456 3, 687 4, 871			

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 cotton-growing 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 little sea-island or foreign cotton, having consumed only 27,011 bales of both kinds 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 varns 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, batting, 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.—Table 7 shows the production and consumption of cotton in the United States and the number of active cotton spindles for specified years from 1840 to 1913.

TABLE 7.—PRODUCTION AND CONSUMPTION OF COTTON AND NUMBER OF ACTIVE COTTON SPINDLES IN THE UNITED STATES, BY SECTIONS, FOR SPECIFIED YEARS: 1840 TO 1913.

[The quantities are given in running bales, except these for production in 1850, 1860, and 1870, which are in equivalent 400-pound bales, and those for consumptiom from 1840 to 1870, and for foreign cotton which are in equivalent 500-pound bales. Linters are included.]

YEAR.	Classic	C	OTTON CONSUM	MED (BALES).		ACTIVE COTTON SPINDLES.				
	Cotton produced (bales).1	United States.	Cotton- growing states,	New England states.	All other states.	United States.	Cotton- growing states.	New England states,	All other states,	
1013	14,090,863	5, 786, 330	2, 960, 518	2,210,813	614,999	29, 522, 597	12, 227, 226	17, 311, 451	1, 981, 089	
1012	16,109,349	5, 367, 583	2, 712, 223	2,108,360	547,000		11, 582, 869	17, 139, 945	1, 855, 714	
1911	11,965,962	4, 704, 978	2, 328, 487	1,911,092	465,399		11, 084, 623	16, 510, 981	1, 926, 993	
1910	10,386,209	4, 798, 953	2, 292, 333	2,016,386	490,234		10, 494, 112	15, 735, 086	2, 037, 664	
1909	13, 432, 131	5, 240, 719	2, 553, 797	2,144,448	542, 474	28, 018, 305	10, 429, 200	15, 591, 851	1,907,254	
	11, 325, 882	4, 539, 090	2, 187, 096	1,894,835	457, 159	27, 505, 422	10, 200, 903	15, 329, 333	1,975,186	
	13, 305, 265	4, 984, 936	2, 410, 993	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	2,059,900	475, 802	25, 250, 096	8, 994, 868	14, 407, 580	1,847,648	
1905	13,697,310	2 4, 278, 980	² 2, 140, 151	² 1,753,282	² 385, 547	23, 687, 495	7,631,331	14, 202, 971	1,853,193	
	9,507,786	3, 873, 165	1, 523, 168	1,909,498	440, 499	19, 472, 232	4,367,688	13, 171, 377	1,933,107	
	7,472,511	2, 518, 409	538, 895	1,502,177	477, 337	14, 384, 180	1,570,288	10, 934, 297	1,879,595	
	5,755,359	3 1, 570, 344	³ 188, 748	³ 1,129,498	³ 252, 098	3 10, 653, 435	8 561,360	8 8, 632, 087	1,459,988	
1870.	3,011,996	706, 616	68, 702	551, 250	176, 664	7, 132, 415	327, 871	5, 498, 308	1,306,236	
1860.	5,387,052	845, 410	93, 553	567, 403	184, 454	5, 235, 727	324, 052	3, 858, 962	1,052,713	
1850.	2,469,093	575, 506	78, 140	430, 603	66, 763	3, 998, 022	264, 571	2, 958, 536	774,915	
1840.	2,063,915	236, 525	71, 000	158, 708	6, 817	2, 284, 631	180, 927	1, 597, 394	506,310	

¹ Relates to crop of preceding year.

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.

STOCKS 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

² Does not include foreign cotton.

³ Cotton mills only.

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 one-half 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, IMPORTED, EXPORTED, AND ON HAND, AND ACTIVE CONSUMING COTTON SPINDLES, BY MONTHS: SEPTEMBER, 1912, TO AUGUST, 1913.

[Quantities are given in running bales, except that roun	d bales are counted as half bales and foreign cotton in equivalent 500-pound bales.	Linters are included.1
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	CONSUMED	(BALES).	COTT	ON ON HAND	(BALES).			ACTIVE COT	ACTIVE COTTON SPINDLES (NUMBER).			
MONTH.	MONTH. Total. In cotton-growing states. In all other states.	Motol	In cotton-	In all other	establi	nfacturing shments.	In inde- pendent warehouses	Cotton imported	Cotton exported (bales).	m	In cotton-	In all other
			In cotton- growing states.	In all other states.	and other public stor- age places.	(bales).		Total.	growing states.	in all other states.		
1912. September October November December	436, 161 513, 060 475, 511 446, 275	223, 541 253, 458 243, 308 225, 178	212, 620 259, 602 232, 203 220, 097	205, 314 450, 851 763, 040 940, 706	508, 592 458, 138 577, 972 764, 499	1,386,346 2,821,315 3,370,715 3,235,364	8,930 10,571 9,452 24,846	729, 859 1, 515, 746 1, 734, 687 1, 391, 394	29, 775, 039 30, 030, 733 30, 072, 579 30, 153, 747	11,502,636 11,582,060 11,610,173 11,619,899	18, 272, 403 18, 448, 673 18, 462, 406 18, 533, 848	
1913. January March April May June July August	533, 743 471, 213 485, 573 503, 990 509, 320 460, 512 486, 992 458, 980	271, 504 239, 961 250, 213 261, 327 261, 389 243, 093 248, 455 239, 091	262, 239 231, 252 235, 360 242, 663 247, 981 223, 419 238, 537 219, 889	917, 712 897, 007 849, 573 746, 308 612, 371 492, 593 302, 967 234, 509	995, 281 1, 084, 294 1, 081, 949 1, 000, 082 892, 450 792, 722 066, 987 543, 649	2, 057, 048 2, 250, 899 1, 831, 316 1, 386, 873 938, 854 650, 227 410, 887 495, 280	52, 022 34, 039 27, 889 20, 776 13, 820 8, 019 9, 496 7, 785	900, 931 530, 911 372, 973 534, 581 468, 929 223, 921 140, 710 257, 168	30, 359, 843 30, 536, 486 30, 575, 028 30, 572, 108 30, 556, 177 30, 046, 121 30, 022, 654 30, 602, 282	11,740,465 11,757,852 11,853,142 11,911,333 11,918,309 11,954,524 11,969,736 11,973,633	18, 619, 378 18, 773, 634 18, 721, 886 18, 660, 775 18, 637, 868 18, 091, 507 18, 052, 918 18, 628, 649	

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 THE 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-pound bales.	Linters are included.
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	sui	PPLY OF COT	TON (BALES).				DISTRIBU	TION OF CO	otton (bai	es).		
										Stocks at e	nd of period.	
PERIOD.	Total.	Stocks held at	Ginnings.1	Imports less re- exports.	Total.	Exports.	Consun	iption.	In manu establis	facturing hments.	In inde- pendent	731
		beginning of period.		Carpor Co.			In cotton- growing states.	In all other states.	In cotton- growing states.	In all other states.	warehouses and other public stor- age places.	Else- where.
Sept. 1 to end of Feb.; 1912-13. 1911-12. 1910-11. 1909-10. Sept. 1 to Oct. 31:	15, 276, 489 16, 781, 751 12, 788, 572 11, 575, 330	1,776,885 1,375,031 1,040,040 1,483,585	13,359,928 15,338,052 11,612,951 9,997,967	139, 676 68, 668 135, 581 93, 778	15, 276, 489 16, 781, 751 12, 788, 572 11, 575, 330	6, 803, 528 8, 007, 814 6, 337, 968 4, 599, 682	1,456,950 1,294,599 1,186,347 1,232,689	1,418,013 1,273,596 1,215,685 1,306,710	897, 007 732, 382 583, 512 668, 998	1,084,294 809,673 941,440 1,024,100	2, 250, 809 2, 280, 995 1, 787, 006 1, 903, 350	1,365,79 2,382,69 736,61 839,80
Sept. 1 to Oct. 31; 1912	9, 934, 611 10, 585, 259 8, 045, 964	1,776,885 1,375,031 1,040,040	8, 138, 287 9, 199, 608 6, 992, 942	19,439 10,620 12,982	9, 934, 611 10, 585, 259 8, 045, 964	2,245,605 2,433,909 2,003,389	476, 999 393, 334 357, 097	472, 222 384, 050 393, 533	450, 851 417, 561 355, 476	458, 138 365, 519 340, 048	2,821,315 2,756,531 2,428,136	3,009,48 3,834,35 2,168,28
1912 1911	10, 812, 187 11, 735, 797 9, 077, 214	6,739,785 7,373,966 5,291,945	4,038,183 4,346,097 3,738,562	34,219 15,734 46,707	10,812,187 11,735,797 9,077,214	3, 126, 081 2, 916, 395 2, 529, 596	468, 486 431, 677 408, 151	452,300 427,877 414,980	940, 706 681, 791 610, 559	764, 499 651, 782 741, 890	3,235,364 3,667,041 3,067,221	1,824,75 2,959,23 1,304,81
Jan, 1 to end of Feb.: 1913 1912 1911	8,034,796 9,794,509 6,681,826	6, 765, 320 7, 959, 848 5, 724, 487	1,183,458 1,792,347 881,447	86,018 42,314 75,892	8,034,796 9,794,509 6,681,826	1,431,842 2,657,510 1,804,983	511,465 469,588 421,099	493, 491 461, 669 407, 172	897, 007 732, 382 583, 512	1,084,294 809,673 941,440	2,250,899 2,280,995 1,787,006	1, 365, 79 2, 382, 69 736, 61

¹ The total production of linters for the crop is ascertained at the March 1 canvass, and the entire amount is included only for the specified periods ending with February.

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 February, 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 cotton 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.

Table 10.—COTTON CONSUMED DURING EACH MONTH, BY STATES: SEPTEMBER, 1912, TO AUGUST, 1913.

[Quantities are given in running bales, counting round as half bales, except foreign cotton which is in equivalent 500-pound bales. Linters are included.]

					COTI	on consu	MED (BALI	(BALES) DURING—					
STATE.			19)12					191	13			
	Total.	Septem- ber.	October.	Novem- ber.	Decem- ber.	January.	Febru- ary.	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	503, 990	509, 320	466, 512	486, 992	458,980
Cotton-growing states	2,960,518 2,826,812	223, 541 212, 620	253, 458 259, 602	243, 308 232, 203	225, 178 220, 097	271, 504 262, 239	239, 961 231, 252	250, 213 235, 360	261, 327 242, 663	261, 389 247, 931	243, 093 223, 419	248, 455 238, 537	239, 091 219, 880
Alabama Connecticut Georgia Maine. Maryland	299, 924 145, 477 648, 131 175, 271 73, 589	22, 569 11, 264 47, 822 12, 270 5, 327	26, 583 14, 029 54, 504 15, 961 6, 483	23, 567 11, 932 52, 881 14, 205 6, 046	22, 423 11, 851 49, 458 13, 160 5, 850	28, 675 13, 662 59, 647 16, 388 6, 846	23, 835 12, 025 53, 153 14, 688 5, 905	24, 696 11, 545 54, 023 15, 206 6, 531	25, 696 12, 357 56, 843 14, 874 6, 731	27, 201 12, 603 58, 280 15, 614 0, 145	24, 204 10, 983 52, 971 14, 043 5, 796	25, 332 11, 410 54, 867 14, 384 6, 085	25, 143 11, 816 53, 682 14, 478 5, 844
Massachusetts Now Hampshire Now Jørsey Now York North Carolina		99,379 23,119 4,872 18,031 66,582	121,724 29,789 5,586 20,006 73,097	112,530 24,348 4,812 17,584 73,128	105,778 23,110 5,131 17,487 64,543	130,246 26,682 5,691 19,628 80,183	106, 629 27, 602 5, 097 18, 574 72, 181	111, 164 25, 175 5, 391 19, 225 74, 923	115,734 23,368 5,801 19,908 77,980	114,851 29,522 5,841 19,544 77,253	101,674 25,623 5,379 18,629 72,447	111,345 27,754 5,570 20,161 73,428	101,858 19,775 5,741 19,036 70,614
Pennsylvania Rhode Island South Carolina. Tennessee Virginia All other states.	76, 579 239, 060 775, 851 81, 790 95, 064 367, 731	6, 601 17, 192 59, 230 6, 003 6, 986 28, 914	6,787 21,712 66,539 7,666 8,444 34,150	5, 971 19, 476 62, 261 6, 775 8, 253 31, 742	5,844 18,116 60,498 6,413 6,881 28,732	6,574 22,049 70,374 7,570 8,837 30,691	6,322 19,651 62,585 5,799 7,802 29,365	6,392 19,917 66,173 7,018 7,958 30,236	6, 916 21, 054 69, 349 7, 293 8, 720 31, 366	6,552 20,436 68,276 6,875 8,336 31,991	6, 188 19, 790 64, 759 6, 583 7, 920 29, 523	6, 145 20, 437 65, 304 6, 977 7, 701 30, 092	6, 287 19, 230 60, 503 6, 818 7, 226 30, 929

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

Table 11.—Linter and foreign cotton consumed during each month: September, 1912, to August, 1913.

[Linter cotton is given in running bales and foreign cotton in equivalent 500-pound bales.]

	LINTER (COTTON CO (BALES).	ONSUMED	FOREIGN COTTON CONSUMED (BALES).					
MONTH.	United States.	Cotton- growing states.	All other states.	United states.	Cotton- growing states.	All other states.			
Total	303,009	98,775	204, 234	232,929	14,315	218,614			
September,OctoberNovember,December	24,579 29,182 26,711 22,706	8,548 10,053 9,423 8,360	16,031 19,129 17,288 14,346	18,899 23,298 18,189 20,168	1,202 1,338 1,022 1,299	17,697 21,960 17,167 18,869			
I913. January February March April May June July August	23,118 23,118 25,484 27,327	9,183 7,763 7,350 7,104 7,843 7,372 7,486 8,290	14,866 15,355 15,768 18,380 19,484 17,983 17,264 18,340	24,738 21,375 20,617 21,075 19,636 15,837 15,482 13,615	1,380 1,387 1,245 1,315 1,084 1,220 987 836	23,358 19,988 19,372 19,760 18,552 14,017 14,495 12,779			

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, ginneries, 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 ginning 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 ESTABLISHMENTS AND IN INDEPENDENT WAREHOUSES AND OTHER PUBLIC STORAGE PLACES AT THE CLOSE OF EACH MONTH, BY STATES: SEPTEMBER, 1912, TO AUGUST, 1913.

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are included.]

		The second secon	A Commence of the Assessment o		сот	ron on H	ND (BALE	3).				
STATE AND CLASS OF HOLDER.		19	12					191	13			
•	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	713, 906	908, 989	1,341,012	1,705,205	1,912,993	1,981.301	1,931,522	1,746,390	1,504,821	1,285,315	1,029,954	778, 158
In cotton-growing states	205, 314 508, 592	450, 851 458, 138	763, 040 577, 972	940, 706 764, 499	917, 712 995, 281	897, 007 1, 084, 294	849, <i>5</i> 73 1,081,949	746, 308 1, 000, 082	612,371 892,450	492,593 792,722	362,967 666,987	234, 509 543, 649
In independent warehouses and other public storage places, total	1,386,346	2,821,315	3,370,715	3,235,364	2,657,048	2, 250, 899	1,831,316	1,386,873	938, 854	650,237	410,887	495, 280
In cotton-growing states	1,284,284 102,062	2,718,742 102,573	3,265,488 105,227	3,099,229 136,135	2,450,397 206,651	2,046,029 204,870	1,618,762 212,554	1,175,560 211,313	792, 861 145, 993	529,970 120,267	327,287 83,600	451,173 44,107
Alabama: In manufacturing establishments. In independent warehouses, etc. Arkansas:	17,902 104,760	47, 774 242, 546	81,137 300,431	100, 599 319, 881	99, 138 269, 799	98, 220 223, 027	95, 457 177, 180	87,348 128,213	70,758 83,690	55,416 50,323	40,443 27,030	23,859 35,760
In manufacturing establishments In independent warehouses, etc	414 35,258	1,432 164,479	1,934 199,125	1,776 183,424	1,668 148,902	2,245 $125,172$	1,634 102,071	1,485 70,000	1,181 48,732	967 30,444	763 18,864	537 7,920
Connecticut: In manufacturing establishments Georgia:	33, 799	27,654	30,463	40,055	55, 433	61,529	64,021	64,003	60,182	58, 331	52,637	46,926
In manufacturing establishments In independent warehouses, etc Louisiana:	34,436 219,321	90, 510 500, 466	162,765 657,109	209,050 631,920	205, 408 514, 416	196,793 420,264	186, 653 295, 415	165, 437 259, 910	132,616 172,297	106,783 111,434	74,192 67,069	41,693 78,708
In manufacturing establishments In independent warehouses, etc	186 66, 712	211,358	1,125 273,514	1,178 251,551	1,097 155,271	1,390 112,479	1,569 101,567	695 38, 914		350 23,756	259 16,902	320 15,301
In manufacturing establishments Massachusetts:	24,786	22,373	28, 452	44, 504	61,275	64,860	65,340	60, 479		48,605		27,769
In manufacturing establishments In independent warehouses, etc Mississippi:	262,221 7,051	228, 184 9, 518	279, 937 13, 405	369,929 21,612	490,141 26,415	529,915 29,672	514,468 25,570	464, 010 25, 941	412,530 25,796	368,361 21,731	309,091 16,698	250, 057 10, 808
In manufacturing establishments In independent warehouses, etc New Hampshire:	1,813 62,182	3,405 201,227	4,668 269,265	5,258 262,323	5, 072 210, 241	6,227 172,780	4,859 136,787	4, 068 84, 377			2,332 22,373	1,467 17,174
In manufacturing establishments New Jersey:	54,113	47,827	73,206	103,806	128,735	136,372	133,966	122,852		1	71,129	58,412
In manufacturing establishments In independent warehouses, etc New York:	15,296 (1)	14,683 (1)	16, 427 (¹)	16,990 (1)	19,933 (1)	22,222	27, 335 (1)	27, 589 (1)	22,419 (¹)	21,375 (1)	18,924 (¹)	17,012
In manufacturing establishments In independent warehouses, etc		31,814 80,309	54, 473 72, 035	64,837 81,081	74,670 131,692	72,287 124,862	68, 801 134, 915	61,469 130,194	52,083 73,112	41,952 56,795	31,058 39,800	23,006 14,536
North Carolina: In manufacturing establishments In independent warehouses etc	75, 719 15, 158	144,181 22,477	224, 908 40, 255	271,170 54,117	262, 548 58, 840	250, 572 55, 812	241, 461 57, 522	206, 413 49, 536	170, 230 36, 233	136,084 29,283	103,793 20,485	69,575 8,248
Ohio: In manufacturing establishments In independent warehouses, etc	8,532 (1)	6,844 (1)	8,329 (1)	11,516 (1)	13,856 (¹)	17,008 (¹)	20,002	19,749 (1)	18, 693 (1)	17,169 (1)	14, 949 (1)	12,318 (1)
Oklahoma: In manufacturing establishments. In independent warehouses, etc		663 165, 727	955 166, 414	863 117,511	975 80, 124	1,173 49,842	1,019 25,530	1,563 16,991	1,353 12,962	1,382 6,557	1,125 3,310	772 2,058
Pennsylvania: In manufacturing establishments In independent warehouses, etc	9,612 1,737		10,971 3,508	14,532 6,018	19,691 8,005	21,064 9,875	20, 976 10, 717	19,910 9,466	18,265 9,031	16,018 8,485	13,693 7,549	10,858 6,270
Rhode Island: In manufacturing establishments In independent warehouses, etc	57,627	52,443 (1)	53,820 (1)	68, 261 (1)	96, 121 (1)	118,294 (1)	122, 617	117, 174 (¹)	108, 720 (1)	96,025 (1)	82,476 (1)	67, 832 (¹)
South Carolina: In manufacturing establishments In independent warehouses, etc		124,931 91,073	218, 356 139, 548	257,053 173,539	241,081 166,116	235,142 160,371	216, 343 152, 889	189, 064 120, 066	154,542 101,759	124,779 75,439	90,856 44,059	59, 988 25, 771
Tennessee: In manufacturing establishments In independent warehouses, etc	5,292	11,456	24,686 153,713	32,581 197,376	32, 479 182, 911	32,219 166,005	30, 279 134, 642	28, 519 92, 032	24,328 52,829	20,540 27,396	15,726 14,136	11,280 10,022
Texas: In manufacturing establishments In independent warehouses, etc	3,761	9,587	15,244 1,001,868	19, 123 834, 545	21,427 594,936	21,615 495,713	21, 194 379, 817	18, 684 260, 687	15,347 158,885	12,435 107,261	8,640 66,865	5,789 240,468
Virginia: In manufacturing establishments In independent warehouses, etc	4,636	8,414	16,831 45,385	28, 448 60, 645	32,023	35,167 57,018	32,699 51,861	27, 439 45, 116	23, 827 36, 013	18,818 32,782	13,323 23,777	9,903 6,319
All other states: In manufacturing establishments In independent warehouses, etc	24,814	24,872	32,325 35,140	43,676 39,821		56,987 48,007	60, 829 44, 833	58, 440 55, 430	53,068 40,213	48,727 36,030	45,788 21,961	38,785 15,908

¹ Included in "All other states."

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 cotton on hand in manufacturing establishments and in independent warehouses and other public storage places at the close of each month: September, 1912, to August, 1913.

[Linter cotton is given in running bales and foreign cotton in equivalent 500-pound bales.]

	Datesd			
	LINTER CO HAND AT MONTH (I		FOREIGN C HAND AT MONTH (1	CLOSE OF
MONTH,	In manu- facturing establish- ments.	In inde- pendent ware- houses, etc.	In manufacturing establishments.	In inde- pendent ware- houses, etc.
September	37,744	10,268 15,451 33,188 36,157	79, 340 68, 234 54, 990 56, 940	1,248 944 766 788
January February March April May June July August	93,054 93,083 85,034 81,845 72,393	35,038 33,280 40,700 46,268 43,281 40,877 29,148 27,378	74, 451 83, 696 99, 364 98, 823 96, 157 90, 654 82, 571 79, 979	2, 193 2, 943 2, 516 2, 655 2, 639 2, 329 2, 794 2, 838

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.]

		EXPORTS	(RUNNING	BALES).	
CUSTOMS DISTRICTS.	1913	1912	1911	1910	1909
Total	8,800,966	10,681,758	7,781,414	6,339,028	8, 574, 024
Maine and New Hamp-					
shire	7,950	12, 280	6,298	6,923	8,271
Massachusetts	159,589	186,779	109,921	106,309	106,735
New York	615,418	655, 078	744, 479	734, 230	453, 540
Philadelphia	62,264	90, 482	68, 177	62,558	69,639
Maryland	84, 512	130, 466	119,584	57,717	128, 474
Virginia	73,070	21,666	16,010	6,810	36, 653
North Carolina	317,831	502, 426	383,112	298, 595	403,209
South Carolina	228, 482	249,864	125,985	116,006	82,759
Georgia	1,048,006	2, 158, 827 216, 424	1,100,958 124,056	963,680 144,513	1,204,265
Florida	143,147	357, 110	219, 429		169,466
Mobile	1,350,236	1,600,627	1,513,023	163,938 1,193,922	327, 185 1, 957, 466 153, 234
New Orleans	138,642	199, 887	206, 943	142,381	1,997,400
SabineGalveston	3,884,735	3,700,237	2,761,529	2,130,524	3, 175, 890
Laredo	59,713	4,782	491	1,927	
Torlo Does	00,110	4,102	50	620	6,116 1,420
Eagle PassEl Paso			144	916	2,405
Arizona	325	700	955	1,025	2,403 499
San Francisco	262,917	211,778	84,955	60,169	82,528
Oregon	3,716	211,110	500	200	300
Washington	104,506	213,825	57,249	33,802	79,128
Dakota	520	210,023	39	665	265
Minnesota	908	753	274	177	277
Duluth and Superior	50	,,,,,			211
Michigan	91,021	122, 472	100,612	79,939	94,614
Ohio	0-,0-1	350	1 200,022	, 0,000	02,017
Buffalo	8,049	5,462	6,014	2,060	2,078
St. Lawrence	8, 037	16,024	3,185	4,890	4, 430
Western Vermont		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
]	1

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 RECEIPTS OF RAW COTTON AT PRINCIPAL COTTON PORTS FOR THE YEAR ENDING AUGUST 31, FOR SPECIFIED YEARS: 1875 TO 1913.

[Compiled from Commerce and Finance of the United States.]

					NET RECEI	PTS OF COTT	on (runni	NG BALES).				
PORT.	1918	1912	1911	1910	1909	1905	1900	1895	1890	1885	1880	1875
Galveston	805,313 1,436,959	3,727,958 786,355 1,662,698 384,239 216,114	2, 948, 354 527, 989 1, 608, 208 250, 921 125, 343	2,501,412 163,778 1,315,328 255,665 138,234	3,657,156 241,628 2,003,232 393,911 166,616	2,879,336 (1) 2,689,520 329,556 195,151	1,710,263 (1) 1,867,153 2 340,646 (3)	1,659,999 (¹) 2,584,115 253,187 (¹)	860,112 (1) 1,973,571 261,957 (1)	463, 463 (1) 1, 529, 592 237, 071 (1)	480, 352 (1) 1, 504, 654 358, 971 (1)	354, 927 (1) 993, 481 320, 822 (1)
Brunswick Savannah Charleston Wilmington Norfolk and Newport News	1,306,864 310,293	425, 462 2, 386, 302 416, 013 548, 122 862, 217	218, 946 1, 462, 152 286, 528 410, 182 593, 681	227,301 1,365,825 228,728 312,511 587,363	325, 127 1, 520, 105 210, 574 409, 656 649, 162	199, 193 1,877,343 225,366 375,383 841,174	94, 278 1, 088, 807 265, 523 282, 360 432, 727	(1) 944, 410 425, 487 234, 621 472, 540	(1) 956, 517 327, 079 134, 916 404, 056	(1) 728, 087 507, 802 94, 054 545, 418	(1) 741,018 464,332 78,876 590,032	(1) 606,727 412,931 76,601 387,279
Baltimore Philadelphia New York Boston	8,326	125, 893 3, 972 6, 961 63, 112	119, 104 515 14, 790 39, 093	85,526 2,581 40,700 14,792	104, 836 6, 848 19, 181 19, 430	72,427 13,645 33,798 83,644	101, 648 36, 238 119, 215 118, 891	(1) (1) 187,794 (1)	(1) (1) 176,502 (1)	(1) 99, 200	(1) (1) 229,426 (1)	(1) (1) 179,163 (1)

¹ Not shown separately.

² Includes receipts of Pensacola.

³ Included in receipts of Mobile.

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 page 22. The quantities are given in equivalent 500-pound bales.

The figures in Table 16 are in equivalent 500-pound 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.

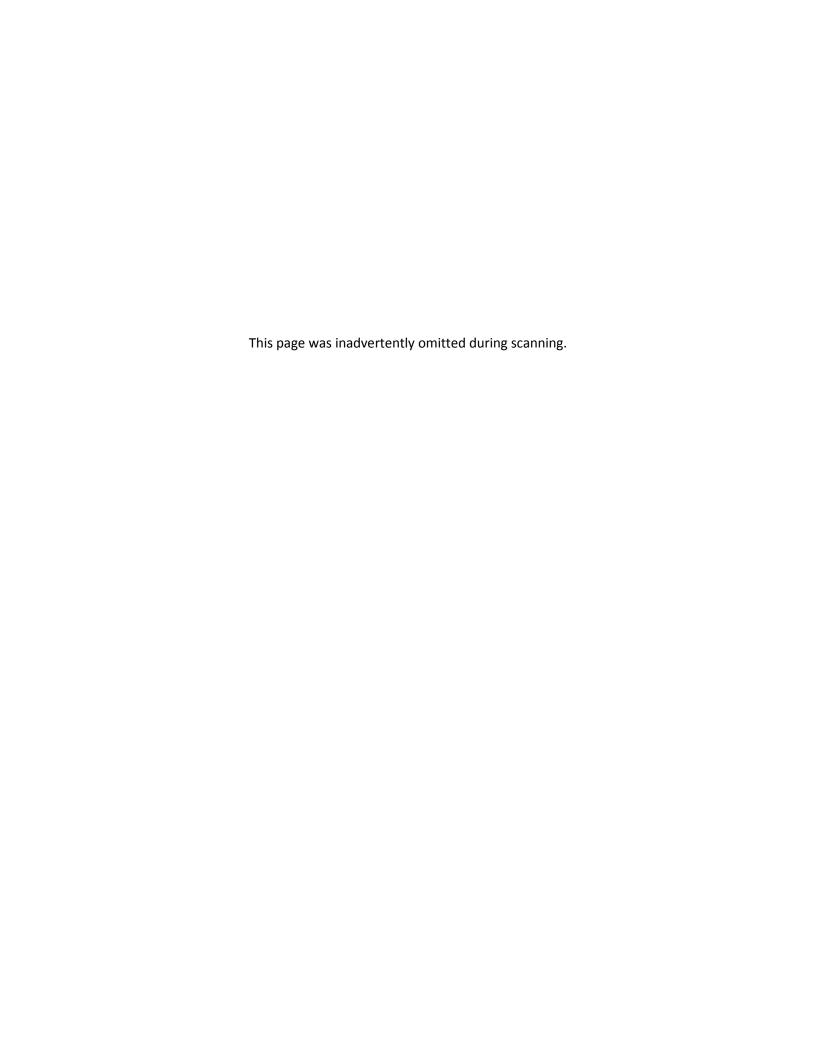
TABLE 16.—EXPORTS OF DOMESTIC COTTON—VALUE AND QUANTITY, WITH DISTRIBUTION OF THE QUANTITY BY COUNTRIES TO WHICH EXPORTED: 1821 TO 1913.

[Compiled from Commerce and Navigation of the United States. The statistics of exports differ slightly since 1865 from those shown in Table 22 because of a difference in the years to which they relate. The figures of this table are for fiscal years.]

				e years to v			ESTIC COT					s) ro—				
YEAR.	Total value.	Total.	United Kingdom.	Germany.	France.	Italy.	Spain.	Belgium.	Russia.	Aus- tria- Hun- gary.	Nether- lands.	All other Europe.	Japan.	Canada.	Mexico,	tries.
1913 1912 1911 1910	\$547,357,195 565,849,271 585,318,869 450,447,243 417,390,655	8,724,572 10,675,445 8,067,882 6,413,416 8,895,970	3,563,216 4,197,336 3,461,054 2,444,558 3,665,355	2,350,761 3,052,764 2,202,707 1,887,657 2,438,090	1,014,834 1,180,895 1,021,998 968,422 1,098,173	478, 894 611, 954 436, 296 393, 327 565, 695	298, 435 297, 481 242, 073 178, 455 301, 789	214,245 202,172 150,225 102,346 157,631	70,625 106,558 84,941 67,203 96,675	109, 202 120, 476 79, 530 57, 220 94, 782	13,932 34,998 18,124 18,823 30,129	52,515 80,675 48,713 43,378 58,174	874,802 458,097 156,724 95,000 208,943	148, 292 175, 237 156, 824 125, 592 131, 453	19,995 15,149 4,631 29,604 42,575	14,824 141,653 4,042 1,831 6,506
1908 1907 1906 1905	437,788,202 481,277,797 401,005,921 379,965,014 370,811,246	7,633,997 9,036,434 7,268,090 8,609,698 6,126,386	2,956,352 3,966,119 3,181,143 3,067,254 2,475,752	2,385,663 2,315,651 1,871,441 2,011,679 1,797,354	889, 083 1, 006, 633 817, 583 818, 304 734, 286	418,921 567,916 486,607 534,735 363,295	262,744 275,868 241,747 295,537 184,862	119,470 154,168 114,673 145,564 105,213	98,371 121,141 112,480 129,060 168,506	90,049 113,630 56,375 62,572 28,158	27,684 29,092 18,490 31,163 16,055	62, 125 65, 083 44, 486 72, 911 61, 488	200,396 262,283 147,269 336,575 45,870	113,997 150,343 141,908 115,857 88,795	4,767 732 29,285 79,082 56,172	4,375 7,775 4,603 9,405 580
1903 1902 1901 1900	316, 180, 429 290, 651, 819 313, 673, 443 241, 832, 737 209, 564, 774	7,086,086 7,001,558 6,661,781 6,201,166 7,546,821	2,799,096 3,132,324 3,106,857 2,302,128 3,609,444	1,915,094 1,705,815 1,629,935 1,610,173 1,728,975	806, 673 775, 773 754, 329 736, 092 803, 406	444,950 445,437 365,359 443,951 417,353	266, 336 270, 602 237, 346 246, 612 248, 635	157,351 132,232 154,682 148,319 129,524	181,938 73,446 53,171 54,950 95,012	39, 912 39, 757 37, 238 44, 919 57, 127	42,542 22,418 53,180 74,635 51,621	82,243 61,679 52,325 65,635 84,500	152,826 178,505 78,558 323,202 182,734	127,640 129,016 102,980 109,983 98,230	66, 507 27, 500 35, 103 18, 522 36, 130	2,978 7,054 718 13,045 4,130
1898 1897 1896 1895	230, 442, 215 230, 890, 971 190, 056, 460 204, 900, 990 210, 869, 289	7,700,529 6,207,510 4,670,453 7,034,866 5,366,565	3,532,101 3,127,186 2,267,222 3,553,782 2,970,903	1,858,525 1,371,577 1,038,457 1,504,631 909,389	842, 038 716, 025 478, 265 790, 690 610, 854	387,581 323,117 261,644 332,656 211,716	263, 648 219, 088 216, 178 255, 679 225, 364	161, 941 83, 485 87, 966 145, 340 128, 907	103,825 84,570 91,622 141,998 140,082	35, 614 23, 971 15, 912 24, 852 960	43,509 34,731 14,219 25,999 18,581	69,189 48,790 51,367 55,319 39,686	224, 214 64, 022 40, 388 22, 130 9, 603	122, 495 80, 408 68, 074 105, 534 65, 085	42,433 30,207 38,817 75,953 35,165	13,416 333 322 294 270
1893 1892 1891 1890 1889	188, 771, 445 258, 461, 241 290, 712, 898 250, 968, 792 237, 775, 270	4, 424, 230 5, 870, 440 5, 814, 718 4, 943, 600 4, 769, 633	2,363,176 3,381,685 3,401,212 2,905,152 2,940,800	850, 387 964, 883 1,019, 144 837, 641 660, 756	508,059 692,785 553,100 484,759 400,197	160,019 171,003 194,022 129,751 131,068	200, 212 187, 458 218, 836 175, 339 181, 533	90,309 134,373 97,423 93,588 147,807	36,356 134,392 135,611 193,163 144,036	10,052 4,447 300 5,610	26, 614 27, 925 43, 669 17, 438 44, 354	22,449 38,996 47,478 19,927 18,264	1,586 3,149 4,813	62, 988 79, 228 69, 261 58, 473 61, 143	41,812 44,235 25,682 26,095 33,802	173 276 20 1,974 263
1888 1887 1886 1885 1884,	223,016,760 206,222,057 205,085,642 201,962,458 197,015,204	4,523,242 4,338,915 4,110,075 3,783,319 3,725,145	2,838.525 2,713,515 2,444,482 2,419,834 2,384,254	560, 624 561, 664 569, 435 468, 987 363, 055	392, 197 466, 090 401, 643 361, 462 457, 369	110,375 73,222 110,473 79,041 51,725	169, 331 138, 499 168, 414 135, 319 135, 928	130,791 110,288 125,069 85,664 30,863	216, 798 151, 267 184, 924 135, 131 193, 639	5,252 3,898 1,762	27, 725 43, 735 31, 672 37, 930 53, 913	18, 258 20, 519 16, 053 17, 750 11, 027		52, 052 47, 904 37, 425 26, 398 19, 216	11, 414 11, 951 21, 035 11, 754 22, 368	152 261 198 151 26
1883	247,328,721 189,812,644 247,695,746 211,535,905 162,304,250	4,576,150 3,479,952 4,381,857 3,644,122 3,256,746	2,776,411 2,361,793 2,729,672 2,433,255 1,967,549	538, 583 324, 962 466, 192 308, 045 274, 960	428,829 333,541 553,854 359,693 393,977	80,607 44,073 75,145 59,126 47,617	196,939 115,264 127,741 133,873 141,215	42,055 4,732 18,318 17,896 19,127	347,354 184,233 267,714 204,500 308,647	4,656 189 4,218 1,699 2,533	57, 610 33, 820 67, 502 65, 325 51, 734	28,780 16,706 18,211 21,097 13,280		32,636 35,159 25,960 19,619 15,481	41, 155 25, 075 26, 772 19, 763 19, 796	535 405 558 231 821
1878. 1877. 1876. 1875. 1874.	180, 031, 484 171, 118, 508 192, 659, 262 190, 638, 625 211, 223, 580	3,215,067 2,890,738 2,982,811 2,520,838 2,717,205	2,070,897 2,040,781 1,914,060 1,823,884 1,807,144	243,208 155,211 217,092 150,570 229,227	472,002 438,178 407,952 310,279 354,731	36,221 23,096 46,759 18,084 24,597	81, 371 92, 061 95, 122 59, 627 106, 718	28,383 4,597 31,076 6,227 17,107	170, 858 50, 219 101, 794 131, 417 108, 181	3,636	55,909 53,711 68,532 8,141 38,009	22,413 13,202 15,019 2,876 18,041		14, 165 11, 017 9, 961 7, 123 8, 022	6,844 7,940 13,945 2,610 4,579	10 775 899 840
1873. 1872. 1871. 1870. 1869.	227, 243, 069 180, 684, 595 218, 327, 109 227, 027, 624 162, 033, 052	2,400,127 1,867,075 2,925,856 1,917,117 1,288,656	1,717,299 1,407,830 2,204,645 1,298,332 873,087	190, 685 85, 033 207, 972 173, 552 140, 855	226,740 176,374 119,223 306,293 201,116	30,568 11,845 42,915 14,549 8,956	55, 444 65, 142 94, 312 55, 409 32, 317	24,253 20,197 35,867 3,452 374	99, 147 49, 367 62, 271 30, 341 19, 525		38,172 45,570 111,405 17,050 5,331	10, 916 1 14, 220 1, 621 536		2,988 3,792 4,786 3,122 2,244	1,101 1,914 22,619 13,219 4,084	56 10 1,291 177 231
1868	152,820,733 201,470,423 281,385,223 6,836,£00 9,895,854	1,569,527 1,322,947 1,301,146 13,214 23,988	1,129,030 1,048,641 1,024,728 12,009 19,302	152,643 56,396 32,276 283 47	186,466 167,858 216,470 714 3,557	12,066 7,223 397	51,241 22,068 17,631	1,608 1,775 653	11,748 10,179 5,372	331	5,045 514 283	675 214 1, 107		2,091 1,288 1,643 184 110	16,457 6,622 101 835	126 169 485 24 20
1863 1862 1861 1860 1859	6,652,405 1,180,113 34,051,483 101,806,555 161,434,023	22,770 10,129 615,032 3,535,373 2,772,937	19,681 7,091 414,685 2,528,274 1,887,372	23,798 132,145 131,362	2,534 46 114,541 567,935 372,981	1,688 9,373 54,037 42,977	1,166 22,310 88,044 121,046	11,364 29,601 28,657	8,502 43,396 87,240	14,943 33,113	5,301 25,515 32,311	1,767 30,013 22,690		303 115 303 2,771 114	2,821 18,097 11,987	226 6 267 612 1,087
1858 1857 1856 1855 1854	131, 386, 661 131, 575, 859 128, 382, 351 88, 143, 844 93, 596, 220	2,237,248 2,096,565 2,702,863 2,016,849 1,975,666	1,561,005 1,367,996 1,798,656 1,346,997 1,392,494	58, 872 89, 866 124, 219 61, 642 75, 440	357,580 348,469 443,535 420,228 288,857	38, 996 34, 480 41, 710 49, 787 25, 452	79, 261 91, 114 116, 959 66, 143 70, 048	18,691 24,495 46,343 24,439 27,961	64,220 63,867 9,287 898 5,830	13,960 15,229 37,306 1,910 20,922	16,995 20,869 26,193 9,883 12,096	8,334 22,544 38,194 18,083 21,589		261 1,715 8,317 1,766 145	18, 169 15, 917 12, 021 15, 054 24, 292	123 19 1,540
1853 1852 1851 1850 1849	112,315,317 71,984,616	2,223,141 2,186,461 1,854,474 1,270,763 2,053,204 1,628,549	1,537,193 1,505,148 1,341,290 863,062 1,478,690	46, 280 44, 277 34, 480 10, 090 27, 689	378, 454 372, 428 278, 329 251, 668 302, 680	34,976 35,868 20,641 18,707 33,316	73,702 58,604 68,545 55,353 46,572	30,989 54,316 32,670 25,492 56,227	42,573 20,950 20,197 8,677 21,301	35, 937 47, 897 34, 618 18, 492 26, 559	14,078 20,518 11,018 8,590 23,775 9,703	13,468 12,396 10,639 7,532 26,003 10,129		24 33 47 89 194 45	14,928 13,400 1,692 2,627 4,437	544 626 308 384 5,761
1847 1846 1845 1844		1,054,440 1,054,440 1,095,116 1,745,812 1,327,267 1,584,594	1,144,006 702,538 692,317 1,210,290 973,459 1,169,691	35,074 21,779 15,391 34,605 12,579 30,507	272, 596 204, 235 264, 106 295, 659 240, 120 273, 629	17, 184 26, 431 28, 620 13, 714 6, 346 18, 371	38,647 24,627 235 673 8,249	30,559 20,369 14,817 28,595 19,771 30,287	20, 534 11, 237 8, 585 14, 991 5, 536 6, 858	40,868 23,561 26,764 41,786 24,456 12,032	3,957 7,700 25,099 6,155 16,348	7,277 7,324 7,887 2,610 898		208 95 166 2,797	8,785 3,323 11,898 3,265	9,204 8,221 20,377 69,024 13,291 22,702
1842	63,870,307	1, 169, 434 1, 060, 408 1, 487, 882 827, 248 1, 191, 905	757, 395 696, 613 989, 830 621, 548 883, 716	19, 525 12, 992 18, 317 1, 780	311, 643 278, 790 358, 180 179, 565 240, 649	8,817 3,738 7,805 10	36 1,049 1,179 5,663	16, 455 19, 632 25, 780 2, 711	5,668 1,972 4,406 4,209	12,032 14,187 16,263 26,336 4,741 11,314	16,783 5,270 21,698 3,731 15,291	2,477 4,194 5,160 3,270 3,069		36 553 59	112	16,448 20,355 29,262 4,504
1837 1836 1835 1834		888, 423 847, 263 774, 718 769, 436 649, 397	585, 710 643, 159 585, 038 540, 169 569, 448 476, 484	9,437 7,530 14,130 5,414 13,235 3,751	198, 617 202, 727 200, 994 159, 897	1, 107 322 26 382	3,003 4,665 3,252 1,756 1,780	11,405 3,539 7,960 2,818 2,410 2,619	5, 577 1, 995 2, 833 1, 950 2, 521 2, 895	11,314 16,860 13,925 9,886 7,611 2,215	4,345 8,841 8,555 9,848	3,609 6,867 1,963 2,128		16 22 26 18	112 4 14 296	5,199 2,977 1,332 1,161 152 404
1832. 1831. 1830. 1829.	29, 674, 883	644, 430 553, 960 596, 918 529, 674	458, 015 441, 634 419, 661 349, 120 293, 666	8, 150 4, 834 2, 246 13, 746 6, 782	154, 935 92, 257 150, 212 134, 408 106, 962	1, 162 612 471 2, 113 814	4,568 1,111 64	(1)	1, 678 1, 524 223 456 1, 300	3,309 5,558 5,629 8,142 1,961	2,727 27,840 1,945 17,135 19,196 7,562	2,788 3,756 3,738 1,257 1,949		72 678 19 21	200	945 69 1 523 248
1827 1826 1825 1824		588, 620 409, 071 352, 900 286, 739 347, 447	253, 000 425, 415 267, 758 287, 426 202, 421 280, 368	6,797 4,121 1,154 590 4,717	140,848 124,337 60,008 81,396 49,987	296 2 435			294 31 268 1,003	366 67	7,562 11,725 9,185 2,840 866 9,301	1,853 2,545 2,872 1,135 402 1,455		70 65 14 41 192	44	248 635 9 20 13
1822 1821		289, 350 249, 787	228,928 175,438	5, 911 1, 496	43,016 54,878	3,913 1,796	570		1,428 609	356 420 70	3,941 8,372	674		2		1,117 4,370

Included with Netherlands.

² Includes exports to Belgium.



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 exported 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 DOMESTIC MANUFACTURES OF COTTON, BY COUNTRIES TO WHICH EXPORTED, FOR THE YEAR ENDING JUNE 30, 1913.

[Compiled by the Bureau of Foreign and Domestic Commerce, Department of Commerce.]

,				E	XPORTS OF	DOMESTIC	MANUFACT	TRES OF CO	OTTON.			<u></u>	
				Clo	ths.				and other apparel.	Cotton	waste.		Ali
COUNTRY.	Total value.	Unbles	iched.	Blead	ched.	Dyed, co		Knit goods	All other (value).	Pounds.	Value.	Yarn (value).	other manufac- tures of cotton (value).
		Yards.	Value.	Yards.	Value.	Yards.	Value.	(value).					
Total	\$53,743,977	213, 189, 754	\$14,928,599	39, 495, 028	\$3,161,526	192,044,459	\$12,578,109	\$2,613,806	\$8,445,377	78,624,075	\$4,449,481	\$ 718 , 423	\$6,848.656
Europe: United Kingdom Germany. Turkey (including Asiatic	4,782,758 1,304,519	1,257,400 46,920	266, 553 12, 939	158,974 3,164	20,689 512	1,052,602 123,600	136,882 13,801	1,041,498 30,834	100,977	32,279,112 17,900,757	1,003,260	9,802 297	492, 562 142, 399
Turkey) Belgium Italy Netherlands	516,074 532,461 221,266 161,108	6,378,660 1,100 7,473 11,390	425,718 220 2,505	199,506 2,384	19,095 597 	2,000 19,082	33,804	1,569 8,841 16,350 33,644	12,354 60,569 10,250 40,029	11,769,069 1,346,719 2,524,265 1,618,311	402,446 114,265 69,075	197	23, 534 60, 008 80, 181 15, 558
United Kingdom Germany Turkey (including Asiatic Turkey) Balginm Italy Netherlands France Russia (including Asiatic Russia) Spain All other Europe North America:	177,763 21,960 58,247 200,520	1,983 6,988 752,258	2, 199 204 699 80, 723	2,033 1,562 42,260	187 5,406	25,890 80,439	1,874 2,376 8,265	17,795 4,224 1,682 5,408	2,506 962 45,124		49, 166	40	33, 216 12, 463 5, 738 53, 113
All other Europe North America: Canada. Mexico Panama San Salvador. Honduras. Guatemala. Nicaragua. Costa Rica. British Honduras. Cuba. Haiti Santo Domingo British West Indies. Dutch West Indies. Danish West Indies. French West Indies (in-	10,536,412 1,064,892 1,122,185 407,820,009,508 427,445 349,401 293,262 135,123 2,903,395 1,465,690 986,070 988,070 983,639 104,531 28,302	9,714,205 443,080 726,585 4,702,641 2,553,986 1,954,712 421,458 1,489,140 284,092 2,781,608 1,031,438 1,914,652 2,746,907 107,606 29,742	779, 084 109, 406 71, 407 253, 706 140, 796 120, 676 38, 352 86, 901 19, 902 821, 245 67, 554 114, 753 226, 729 13, 857 3, 627	4,948,230 552,881 500,115 101,825 913,329 649,940 237,707	491,778 80,849 44,834 9,427 77,896 49,354 21,405 7,206	13, 314, 484 1, 651, 973 3, 874, 441 2, 277, 982 4, 842, 324 2, 696, 966 2, 658, 542 2, 347, 997 614, 103	1,321,377 159,984 229,155 128,197 332,286 185,660 167,700 135,217 42,595	434, 551 41, 294 98, 506 2799 10, 236 5, 801 4, 825 5, 269 3, 343 185, 444 1, 395 18, 143 33, 823 2, 090 2, 395	3, 231, 141 386, 689 513, 663 8, 703 99, 051 38, 658 92, 207 37, 960 31, 521 617, 708 57, 950	8, 568, 998 154, 374 475, 631 9, 951 26, 528 24, 985 17, 715 28, 611 13, 118 801, 674 12, 126 33, 821 35, 444 8, 896	544,662 10,275 32,871 803 1,451 1,713 1,232 2,054 733 58,556 928 2,410 2,673	350, 087 1, 035 1, 145 122 880 8 2, 916 40 602 90	3,383,732 276,360- 130,604 6,705 37,668- 25,683- 23,668 17,775- 18,557 506,387 18,418 33,766
eluding Miquelon)	19,625 68,410	24,022 5,607	4,000 580	18,053 31,544	1, 248 3, 309	93,797 67,223	6,890 5,241	18,343	1,116 $23,611$	2,699 2,318	251 212		6,120 16,884
South America: Chile. Chile. Brazil Argentina Venezuela. Gulana Uruguay Peru Ecuador Bolivia Paraguay Asia and Oceania: China Aden British India. Japan Hongkong British Australasia. Philippine Islands All other Asia and Oceania Afica:	808, 674 1, 453, 774 386, 368 540, 796 376, 314 77, 569 146, 344 198, 331 218, 233 295, 645 3, 261	8,346,412 7,281,696 140,453 1,377,733 1,854,264 249,180 263,021 1,000,554 281,676 2,788,745 9,026	537, 105 379, 911 27, 375 167, 268 197, 317 20, 472 34, 679 68, 710 19, 773 166, 752 1, 139	8 620	2,824 674 14,692 21,371	280, 214 18, 310, 123 828, 183 116, 089 1, 806, 074 757, 675 38, 654 556, 487 2, 379, 883 755, 609 12, 421	23, 269 905, 706 65, 300 9, 419 131, 325 44, 141 2, 922 42, 072 136, 910 52, 387 1, 243	17, 583 3, 879 10, 925 30, 907 374 1, 358 25, 825 11, 196 1, 790 254	34, 252 44, 275 156, 180 171, 379 3, 336 4, 035 45, 907 45, 005 16, 228 5, 936	40,883 2,537 2,525 28,446	2,016 463 3,302 131 190 1,631 1,513	10,766 88,813 58 3,393	47, 260 33, 988 79, 934 69, 234 25, 139 4, 608 32, 754 15, 025 21, 955 1, 280 476
Asia and Oceania: Chiun Aden British India Japan Hongkoug British Australasia Phili ppine Islands All other Asia and Oceania	5,796,984 1,433,950 1,276,076 109,286 545,410 1,813,058 7,077,165 116,514	78, 161, 164 24, 680, 270 12, 935, 236 38, 544 824, 442 4, 918, 467 6, 745, 700 73, 626	5, 373, 877 1, 433, 113 1, 103, 148 8, 077 133, 598 397, 702 500, 873 12, 075	25, 597 10, 225 989, 223 111, 381 203, 066 1, 463, 285 16,994,879	84,858 13,245 23,620	2, 275, 086 541, 003 5, 576 1, 028, 711 3, 323, 371	208, 376 40, 850 518 107, 007 350, 274 4, 016, 150 44, 035		67, 845 10 25, 384 12, 726 12, 863 602, 567 426, 191 33, 831	4,019	591 12, 720	168,678 7,070	21, 594 12, 634 72, 276
Africa: British East Africa British South Africa All other Africa	805,517 298,291	15, 174, 654 62, 582 6, 536, 756	796, 221 12, 167 373, 012	112, 300 70, 473 193, 310	13,837	15,000 118,517 69,055	790 13, 852 6, 551	39,336 6,202	85 209, 833 15, 728				1,378 8,950 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 year 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 one half of the remainder. During the year 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 MANUFACTURES, BY COUNTRIES FROM WHICH IMPORTED, FOR THE YEAR ENDING JUNE 30, 1913.

rd boliamnila	the T	Surpost of	Faraign on	d Domostio	Commerce	Department of	Cammona 1	
[Complied by	otto T	Juicau or	TOTOTER UP	a Domesuc	Communerce,	Debarement of	Commerce	

,					IMPORTS	OF COTTON	MANUFAC	TURES.				
				Clot	ıs.			Clothin	g , ready-			
COUNTRY.	Total value.	Dyed, o	colored, d, etc.	Blead	ched.	Unblea	ched.	made, a wearing	and other apparel.	Laces, edgings, embroider- ies, etc.	Thread and yarn	All other manufac- tures of cotton
		Square yards.	Value.	Square yards.	Value.	Square yards.	Value.	Knit goods (value).	All other clothing (value).	(válue).	(value).	(value).
Total	\$63, 935, 983	27,669,013	\$5,107,156	11,651,671	\$2,131,127	4, 316, 677	\$519,645	\$3,089,411	\$4,287,543	\$35,776,301	\$4,449,254	\$ 8, 5 75, 546
Europe: United Kingdom. Germany. France. Switzerland. Austria-Hungary. Belgium. Italy. Spain. Tyukey (including Asiatic	20, 361, 396 16, 406, 123 12, 264, 492 11, 546, 075 600, 780 405, 001 337, 895 88, 779	20, 306, 569 1, 747, 784 3, 037, 301 132, 195 242, 393 78, 707 37, 320 193, 066	3, 473, 294 340, 159 939, 340 24, 559 40, 887 12, 609 5, 650 46, 533	7, 351, 835 243, 067 2, 871, 706 1, 013, 872 72, 124 1, 439 52 229	1,108,801 58,427 775,127 162,558 15,610 270 7 65	3, 639, 888 53, 694 366, 801 233, 532 525 529	401,438 13,185 70,992 31,954 64 78	75, 925 2, 764, 054 96, 988 135, 497 416 6 73 392	174,713 2,376,454 1,518,229 7,935 62,185 20,289 7,455 11,502	7,997,624 10,680,079 300,867 321,233	3,754,209 488,961 17,924 184,173 406 2,647 2	4,020,939 2,815,575 848,268 319,320 180,345 107,869 59,065 2,320
Turkey All other Europe America:	509,749 152,678	212	81	116	26	42	7	15, 295	922 1,761	486, 590 109, 235	46	22, 237 26, 227
Canada	19,892 21,932 10,649	1,261 20,838 172	227 1,083 29	133 38 44	21 5 28	324 650	40 100	87 154 86	7, 115 3, 093 1, 611	4, 187 13, 003 8, 371	656 16	7,559 4,478 524
Japan China. British India. All other countries.	1,029,086 56,174 31,150 34,132	1,869,252 1,943	222,304	96, 212 62 25 717	9,973 21 2 186	20, 029	1,638 17	255 178 5	79, 756 8, 491 1, 762 4, 270	566,146 43,852 28,065 22,186	214	148,800 3,632 1,321 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 that 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 each year an increase over the preceding one, to meet an increasing demand for American cotton manufactures in nearly all the countries of the world. However, manufacturers of cotton goods in the United States have largely confined their activities 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 differences are shown for any of these countries as between consecutive vears.

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.]

		J 1110 15 ax out								
COUNTRY.	1918	1912	1911	1910	1909	1908	1907	1906	1905	1900
EXPORTS.	\$53,743,977	\$50,769,511	\$40,851,918	\$33,398,672	\$31,878,566	\$25,177,758	\$32,305,412	\$52,944,033	\$49,666,080	\$24,003,087
Europe: United Kingdom Germany All other Europe	4,782,758 1,304,519 1,889,399	3,946,923 933,429 1,594,826	3,511,690 927,166 1,055,002	2,857,625 896,351 979,590	2,092,212 1,035,235 738,992	2,487,349 1,140,332 972,741	2,274,014 1,185,492 965,549	2,042,377 971,647 654,353	1,446,409 601,541 383,692	1,256,729 385,683 270,229
America:		8,590,398 988,263 3,945,437	6,474,722 797,617 3,417,774	5,242,511 772,127 2,511,625	3,712,506 646,488 2,456,345	3,279,519 869,244 2,363,424	3,507,446 934,910 2,636,591	3,587,567 821,302 2,260,618	3,030,341 880,074 2,052,298	2,691,992 958,889 1,176,142
Canada Mexico Central America British West Indies (including Bernuda) Cuba Haiti Other North America Brazil Chile Colombia Peru Venezuela All other South America Asia and Oceania: China	1,022,049 2,903,395 1,465,690 1,138,534 386,368 808,674 1,453,774 198,331 376,314 1,281,848	1,329,675 3,090,262 1,756,755 1,112,072 308,712 805,125 1,162,092 227,607 498,079 1,142,989	967, 547 2, 235, 350 1, 510, 425 999, 611 413, 184 1,001, 591 980, 984 176, 323 449, 254 1,011, 398	819, 124 1, 644, 498 1, 220, 290 762, 347 388, 760 666, 133 802, 886 168, 470 289, 797 903, 874	950,876 1,906,964 1,258,197 579,181 265,177 490,016 823,216 104,760 346,443 1,005,291	687, 311 1,585,376 742,978 577,516 373,545 616,814 624,587 132,409 319,937 692,939	836,047 1,608,653 617,659 828,737 548,367 989,059 874,813 155,792 439,160 843,830	713, 885 1,507, 473 822, 815 452, 468 636, 374 808, 155 603, 021 112, 707 420, 645 902, 684	050, 382 1,330,260 524,860 660,342 823,120 764,408 896,143 157,202 438,094 1,105,447	435,949 612,252 745,603 560,240 436,118 531,131 310,360 113,332 333,294 355,556
Asia and Oceania: China: British India. British Australasia. Aden. Philippine Islands All other Asia and Oceania. Africa.	1,276,076	7,471,103 979,850 1,694,068 2,026,394 5,277,192 613,115 1,275,145	5,412,849 715,174 1,773,201 1,067,382 4,305,518 681,955 966,201	5,847,392 732,184 962,154 464,413 2,936,398 690,710 699,407	8,067,472 760,677 979,440 1,312,265 1,059,042 605,024 682,747	3,413,248 206,807 1,039,426 998,736 836,845 711,534 415,141	5,965,331 684,990 1,229,627 1,995,713 1,646,874 813,339 783,419	29,814,075 655,346 1,285,085 1,634,134 403,896 862,092 782,224	28,017,190 486,843 1,079,179 1,140,875 850,244 1,761,726 586,350	8,804,778 524,449 622,228 (1) (1) 1,838,346 21,039,707
IMPORTS. Total	63, 935, 983	63, 506, 574	64,056,473	66,473,143	62,010,286	68,379,781	73,704,636	63,043,322	48,919,936	41,296,239
Europe: United Kingdom Germany. France. Switzerland Belgium Austria-Hungary. Italy. Spain. Turkey(including Asiatic Turkey) America: America:	(, -, -	19, 400, 725 15, 384, 510 11, 694, 388 13, 602, 023 554, 375 615, 410 310, 025 104, 482 582, 899 121, 867	19,747,868 15,689,422 11,189,892 14,988,217 484,744 604,556 199,036 109,488 271,834 97,566	20, 365, 696 16, 707, 693 11, 820, 515 15, 463, 607 522, 323 659, 844 125, 661 57, 965 166, 228 115, 709	19, 951, 548 14, 859, 770 11, 959, 565 13, 533, 957 558, 974 490, 658 66, 399 49, 927 90, 564 80, 937	22, 421, 517 18, 036, 650 11, 660, 500 14, 478, 002 635, 846 280, 236 182, 792 84, 811 89, 562 59, 011	22, 971, 167 18, 212, 531 15, 309, 309 15, 286, 363 591, 576 293, 965 237, 905 62, 252 69, 687 151, 029	19, 446, 227 16, 459, 615 13, 038, 125 12, 578, 530 458, 557 218, 974 97, 520 86, 052 43, 725 132, 716	15,089,333 14,332,703 8,701,025 9,728,717 354,214 113,833 41,281 57,400 42,796 82,952	17,110,583 8,863,297 5,623,340 8,975,580 321,863 107,128 10,093 2,747 68,355 10,634
Canada. Mexico. All other America. Japan. China. British India. All other countries.	19,892 21,932 10,649 1,029,086 56,174 31,150 34,132	19,108 56,248 7,801 665,926 30,819 34,237 21,722	46, 788 42, 716 15, 788 490, 177 31, 641 28, 255 18, 485	21,470 29,765 10,441 292,951 16,306 44,789 61,880	10,877 23,414 4,778 236,062 11,180 21,984 61,492	20, 912 28, 787 4, 347 305, 270 29, 028 44, 036 9, 385	48, 496 40, 720 4, 966 333, 881 21, 853 43, 311 25, 525	10,467 39,110 2,074 316,278 14,657 67,872 31,917	19, 429 44, 154 2, 465 202, 736 25, 618 50, 441 30, 179	6, 527 33, 328 1, 460 71, 066 25, 073 47, 742 8, 418

¹ Included in "Other Asia and Oceania."

² Includes exports to Hawaii, valued at \$584,398.

Production, consumption, exports, and imports of | tion, domestic exports, and net imports of raw cotton cotton.—Table 22 shows the production of cotton, average net weight of bale, value per pound, consump- | of the cotton trade for the United States.

from 1790 to 1912, thus presenting a complete record

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

Production.—The production statistics relate, when possible, to the year of growth, but when figures for the growth year are wanting, those for a commercial crop which represents the trade movement have been taken. The statistics of production for the years 1790 to 1898, inclusive, have been compiled from publications of the United States Department of Agriculture; for the years 1899 to 1912, inclusive, and for other dates, when available, census figures are used.

Price of upland cotton.—For the years 1802 to 1912, inclusive, the price per pound shown for upland cotton represents the average price of the average grade marketed in New Orleans prior to April 1 of the following year; for the years 1890 to 1901, inclusive, it is the average price of middling cotton on the New Orleans Cotton Exchange; and for the years 1790 to 1889, inclusive, it is taken from reports of the United States Department of Agriculture.

Consumption.—The statistics of consumption for the years 1790 to 1894, inclusive, have been compiled from publications of the United States Department of Agriculture, and those for the years 1895 to 1903, inclusive, from the reports of Latham, Alexander & Co. Census figures are used for the years 1904 to 1911, inclusive, and for other dates, when available. The statistics relate to the 12 months during which the crop of the specified year was chiefly marketed, and not to the calendar year specified.

Domestic exports and not imports.—For the years 1790 to 1819, inclusive, the statistics have been taken from American state papers, and for the years 1820 to 1910 from the reports on Commerce and Navigation of the United States, published by the Bureau of Foreign and Domestic Commerce, Department of Commerce. For the years 1790 to 1842, inclusive, the statistics of exports relate to the 12 months beginning with October 1 of the specified year; for 1843 to 1886, inclusive, to the 12 months beginning with September 1. The statistics of imports relate to the same period as the statistics of consumption.

		PRODUCTIO	N.			771				PRODUCTION	N.				
YEAR.	Running bales, counting round as half bales.	Equivalent 500-pound bales, gross weight.	Average net weight of bale (lbs.).	Average price per pound, upland cotton (cents).	Consumption (equivalent 500- pound bales).	Exports of domestic cotton (equiva- lent 500- pound bales).	Net imports (equiva- lent 500- pound bales).	YEAR.	Running bales, counting round as half bales.	Equivalent 500-pound bales, gross weight.	Average net weight of bale (lbs.).	Average price per pound, upland cotton (cents).	Consumption (equivalent 500-pound bales).	Exports of domestic cotton (equiva- lent 500- pound bales).	Net imports (equiva- lent 500- pound bales).
1912 1911 1910	14,090,863 16,109,349 11,965,962	14,313,015 16,250,276 12,005,688	480 482 480	12. 0 9. 7 14. 7	5,630,835 5,181,826 4,516,779	9, 199, 093 10, 681, 332 8, 025, 991	225, 460 229, 268 231, 191	1849 1848 1847 1846	1 2, 469, 093 2, 866, 938 2, 439, 786 1, 778, 651 2, 100, 537	1,975,274 2,615,031 2,128,433 1,603,763 1,806,110	429 436 417 431	12.3 7.5 8.0 11.2 7.9	575, 506 586, 032 537, 427 385, 916 363, 365	1, 270, 763 2, 053, 204 1, 628, 549 1, 054, 440 1, 095, 116	485 22 558 122 386
1909 1908 1907 1906	10, 386, 209 13, 432, 131 11, 325, 882 13, 305, 265 10, 725, 602	10,315,382 13,587,300 11,375,461 13,595,498 10,804,550	475 484 480 490 482	14.3 9.2 11.5 10.0 10.9	4,559,002 5,198,963 4,493,028 4,974,199 4,877,465	6, 491, 843 8, 889, 724 7, 779, 508 8, 825, 236 6, 975, 494	151, 395 165, 451 140, 869 202, 733 133, 464	1845 1844 1843 1842 1841 1840	2, 100, 537 2, 394, 503 2, 030, 409 2, 378, 875 1, 683, 574 1, 634, 954	1,806,110 2,078,910 1,750,060 2,035,481 1,398,282 1,347,640	411 415 412 409	5.6	227 720	1,095,116 1,745,812 1,327,267 1,584,594 1,109,434 1,060,408	2 680 517 1,835
1904 1903 1902	13,607,310 10,015,721 10,784,473 9,748,546 10,245,602	13,679,954 10,045,615 10,827,168 9,675,771	478 480 481 489	.8.7 12.2 8.2 8.1	4,523,208 3,980,567 4,187,076 4,080,287 3,603,516	0,057,397 6,233,682 6,913,506 6,870,313 6,806,572	130, 182 100, 298 149, 113 190, 080 116, 610				397 394 383 384 379	7.7 7.2 7.8 9.5 8.9 13.4	298, 872 278, 196 222, 461 245, 045 236, 525 221, 738		1,210
1899 1898 1897	9,507,786	9, 459, 935 11, 435, 368 10, 985, 040	480 476 489 482	9.3 7.6 4.9 5.6	3,603,516 3,687,253 3,672,097 3,472,308 2,841,394 2,499,731	6, 806, 572 6, 167, 623 7, 626, 525 7, 811, 031 6, 124, 026 4, 761, 505	116, 610 134, 778 103, 223 105, 802 114, 712 112, 001	1839 1838 1837 1830 1835 1834		1,653,722 1,092,980 1,428,384 1,129,016 1,061,821 962,343	379 373 367	10. 1 13. 2 16. 5	236, 525 221, 738 195, 100 176, 449 184, 731	1, 487, 882 827, 248 1, 191, 905 888, 423 847, 263 774, 718	297 319 355 2510 427 1.574
1896 1895 1894 1893	10, 897, 857 8, 532, 705 7, 161, 094 9, 901, 251 7, 493, 000	8,515,640 7,146,772 10,025,534 7,433,056	477 477 484 474	7.3 8.2 5.9 7.5				1834 1833 1832 1831 1830		930, 962 815, 900 805, 439 732, 218	363 350 360 341	12.9 12.3 9.4 9.7	149, 159 142, 352 130, 895 129, 938	774,718 769,436 649,397 644,430 553,960	1,574 308 69 2 22 22
1892 1891 1890	6,700,365 9,035,379 8,652,597 7,472,511 6,938,290	6, 658, 313 8, 940, 867 8, 562, 089 7, 472, 511 6, 923, 775	475 473 473 478 478	8. 4 7. 3 8. 6 11. 5	2, 983, 665 2, 300, 276 2, 415, 875 2, 846, 753 2, 604, 491 2, 518, 409	6, 961, 372 5, 307, 295 4, 485, 251 5, 896, 800 5, 850, 219 4, 928, 921 4, 730, 192	99, 399 59, 405 85, 735 64, 394 45, 580	1829 1828 1827 1826 1825	1, 076, 696 953, 079 805, 970 1, 057, 402 817, 308	763,598 679,916 564,854 732,218 533,473	339 341 335 331 312	10.0 9.9 10.3 9.3 12.2	89, 723 84, 788 84, 516 103, 535	596, 918 529, 674 421, 181 588, 620 409, 071	378 2 40 597 74 79
1888 1887 1886 1885 1884	6,938,290 7,046,833 6,505,087 6,575,691 5,682,000	6,884,667 6,314,561 6,369,341 5,477,448	477 467 464 463 460	10.7 10.3 10.3 9.4	2,518,409 2,309,250 2,205,302 2,049,687 2,094,682	4,519,254 4,301,542 4,200,651	18, 334 15, 284 11, 983 7, 552 8, 270	1824 1823 1822 1821 1820	751, 748 656, 028 704, 698 636, 042 575, 540	449,791 387,029 439,331 376,569 334,728	286 282 298 283 278	18. 6 14. 7 11. 4 14. 3	100, 000	352, 900 280, 739 347, 447 289, 350 249, 787	26 932 110 2 196
1883 1882 1881 1880	5,713,200 6,949,756 5,456,048 6,605,750	5,521,963 6,833,442 5,136,447 6,356,998	462 470 450 460	10.6 10.6 12.2 11.3	1, 687, 108 1, 813, 865 2, 038, 400 1, 849, 457 1, 865, 922	3,783,319 3,733,369 4,591,331 3,376,521 4,453,495	7,144 11,247 4,716 3,261 5,447	1820 1819 1818 1817 1816 1815	575, 540 632, 576 446, 429 465, 950	340 379	264 280	14.3 17.0 24.0 34.0	100,000	249,787 255,720 175,994 184,942 171,299 163,894	427 24,571 24,454 3,086 2,048 244
1879 1878 1877 1876	5,755,359 5,074,155 4,773,865 4,474,069 4,632,313	5, 466, 387 4, 745, 078 4, 494, 224 4, 118, 390 4, 302, 818	454 447 450 440 444	12.0 10.8 11.3 11.7 13.0	1,500,688 1,457,266 1,458,667 1,314,489 1,255,712	3,742,752 3,290,167 3,197,439 2,839,418 3,037,650	7,578 5,049 5,046 4,832 4,498	1814	254 545	261, 506 271, 967 259, 414 209, 205	279 282 271 275 246	26. 0 29. 0 21. 0	51,778	165 907	2 266
1874 1873 1872 1871 1870	3,832,991 4,170,388 3,930,508 2,974,351	3,528,276 3,873,750 3,650,932 2,756,564	440 444 444 443 442	15.0 17.0 18.2 20.5 17.0	1,098,163 1,213,052 1,115,691 1,146,730 1,026,583	2,504,118 2,682,631 2,470,590 1,824,937 2,922,757	3,784 3,541 10,016 6,374 1,802	1813 1812 1811 1810		146, 444 156, 904 156, 904 167, 364 177, 824	246 246 297 250	12. 5 10. 5 15. 5	51,778 35,565	35, 458 38, 220 57, 775 124, 116	3, 133 897 431
1869 1868 1867 1866	1 3,011,996 2,366,467 2,519,554 2,097,254	4,024,527 2,409,597 2,198,141 2,345,610 1,948,077	440 444 445 444	24. 0 29. 0 24. 9 31, 6	796, 616 860, 481 844, 044 715, 258 614, 540	1, 987, 708 1, 300, 449 1, 502, 756 1, 401, 697	3,026 1,870 345 21,035	1809 1808 1807 1806 1805		171, 548 156, 904 167, 364 167, 364 146, 444	224 276 280 230	16, 0 19, 0 21, 5 22, 0	33, 473	186, 523 101, 981 21, 261 127, 889 71, 315	1,601 6,297 1,485 961
1865 1864 1863 1862 1861	300,000	2,093,658 299,372 449,059 1,596,653 4,490,586 3,841,416	441 477 477 477 477	43.2 83.4 101.5 67.2 31.3	344,278 219,540 287,397	1,301,146 17,789 23,998 22,770 10,129	10,322 68,798 52,405 67,695 61,731	1804 1803 1802 1801 1800	261,044 222,222 231,092 210,526 153,509	135, 983 125, 523 115, 063 100, 418 73, 222	249 270 238 228 228	23. 0 20. 0 19. 0 19. 0 44. 0	23, 013	76,780 70,068 75,424 47,768 41,822	456 183 2 1, 153 2 170 8, 696
1860 1859 1858 *1857 1850	3,849,469 1 5,387,052 4,018,914 3,257,339 3,093,737 3,605,557	3,841,416 4,309,642 3,758,273 3,012,016 2,873,680 3,220,782	477 461 447 442 444	13. 0 11. 0 12. 1 12. 2 13. 5	841, 975 845, 410 867, 489 550, 708 761, 614 731, 484	615, 032 3, 535, 373 2, 772, 937 2, 237, 248 2, 096, 565		1799 1798 1797 1796 1795	88,889 66,667 48,889 44,444	41, 841 31, 381 23, 013 20, 921	225 225 225 225	28. 0 44. 0 39. 0 34. 0	16, 737	35,580 19,065 18,720 7,577	8,870 7,532 7,761 7,336 8,737
1855 1854 1853 1852 1851	2,982,634 3,074,979 3,416,214	3, 220, 782 2, 708, 082 2, 766, 194 3, 130, 338 2, 799, 290	420 434 430 438 428	10.3 10.4 11.0 11.0	641, 391 663, 204 736, 468	2, 702, 863 2, 702, 863 2, 016, 849 1, 975, 606 2, 223, 141 2, 186, 461	1,678 2,295 4,425 1,141 1,423 510	1794 1793 1792 1791	35,556 35,556 22,222 13,333 8,889	16, 736 16, 736 10, 460 6, 276 4, 184	225 225 225 225 225 225	36. 5 36. 5 33. 0 32. 0 29. 0		9,414 3,565 1,097	8, 737 8, 592 5, 127 5, 503 1, 112
1850	2,454,442	2,799,290 2,136,083	428 416	9. 5 12. 1	617, 468 422, 626	2, 186, 461 1, 854, 474	512 330	1790	6, 667	3, 138	225	26. 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:

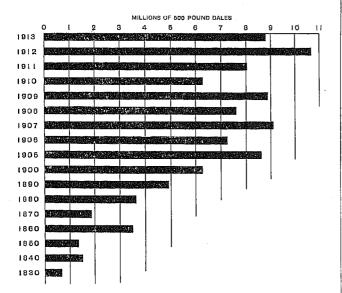
Table 17.—Exports of domestic cotton, by countries to which exported, by months: September, 1912, to August, 1918.

[Running bales, counting round as half bales.]

	EXPORTS OF DOMESTIC COTTON (BALES) TO—											
MONTH.	Total.	United King- dom.	Ger- many,	France.	Italy.	All other coun- tries.						
Total for year ending Aug. 31.	8,800,966	3, 559, 258	2,404,397	1,022,642	496, 499	1,318,170						
1912. September October November December	729, 859 1, 515, 746 1, 734, 687 1, 391, 394	345, 290 638, 780 764, 928 610, 386	163, 449 430, 744 464, 058 384, 345	103,060 239,515 263,582 165,573	36,901 63,606 51,756 57,056	81,159 143,101 190,363 174,034						
1913. January. February March April May June July August	530, 911 372, 073 534, 596 468, 966 223, 921	355, 837 166, 726 97, 185 208, 963 164, 871 88, 906 39, 898 77, 488	240, 087 159, 817 128, 019 133, 024 126, 574 60, 804 40, 548 72, 928	97, 818 26, 991 14, 561 19, 899 23, 643 7, 935 7, 132 52, 933	49, 871 47, 450 44, 847 38, 338 41, 440 27, 077 24, 589 13, 568	157, 318 129, 927 87, 461 134, 372 112, 438 39, 199 28, 543 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 1913.



Exports of sea-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 specified years: 1885 to 1913.

	EXPORTS OF SEA-ISLAND COTTON (EQUIVALENT 500-POUND BALES) TO—									
YEAR.	Total.	United Kingdom.	France.	Ger- many.	All other coun- tries.					
1913 1912 1911 1910 1909 1908 1907 1906 1900 1885 1890 1885	10, 003 20, 192 17, 797 22, 748 19, 654 25, 587 16, 252 31, 624 36, 240 30, 455 18, 568 13, 708	6, 368 14, 821 12, 818 18, 154 13, 589 17, 874 11, 056 23, 870 30, 131 26, 350 16, 853 11, 950	3, 211 4, 905 4, 907 4, 977 4, 974 5, 970 7, 112 3, 925 6, 787 5, 193 3, 878 1, 420 1, 560	259 178 482 520 426 413 185 838 796 36 169	165 288 420 569 188 86 129 120 191 126 185					

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 year.

EXPORTS AND IMPORTS 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 gives 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, if 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 collected by the Bureau of the Census. Those for other countries have been compiled from a number of sources. Among them are Ellison's Annual Review of the Cotton Trade, Liverpool; the Commercial and Financial Chronicle, New York; Cotton Facts, New York; reports of the International Federation of Master Cotton Spinners' and Manufacturers' Associations, Manchester; and statistics furnished by Mitsui & Co., Osaka, Bombay Cotton Trade Association, Bombay, and E. T. Craig, Mexico City.]

COUNTRY.	Year ending August 31—	Active cotton spindles.	Mill con- sumption of cotton (bales).1
Total	1913	143,398,000	21,542,000
	1900	105,681,000	15,177,000
United States:	1913	12, 227,000	2,960,000
Cotton-growing states	1900	4, 368,000	1,523,000
All other states	1913	19,293,000	2,826,000
	1900	15,104,000	2,350,000
Europe:	1913	55,653,000	4,440,000
United Kingdom	1900	45,500,000	3,330,000
Germany	1913	11,186,000	1,800,000
	1900	8,000,000	1,400,000
Russia	1913	9,213,000	1,700,000
	1900	7,500,000	1,350,000
France	1913	7,400,000	1,025,000
	1900	5,500,000	700,000
Austria-Hungary	1913	4,909,000	820,000
	1900	3,300,000	675,000
Italy	1913	4,600,000	800,000
	1900	1,940,000	475,000
Spain	1913	2,000,000	350,000
	1900	2,615,000	400,000
Belgium	1913	1,492,000	240,000
	1900	920,000	170,000
Switzerland	1913	1,398,000	110,000
	1900	1,550,000	125,000
Sweden	1913	534,000	115,000
	1900	360,000	85,000
Portugal	1913	480, 000	75,000
	1900	230, 000	60,000
Netherlands	1913	479, 000	83,000
	1900	300, 000	70,000
Denmark	1913	90,000	25,000
	1900	40,000	15,000
Norway	1913	75,000	11,000
	1900	35,000	10,000
Other European countries	1913	200, 000	30,000
	1900	130, 000	42,000
India	1913	6,084,000	1,762,000
	1900	4,945,000	1,162,000
Japan	1913	2,300,000	1,372,000
	1900	1,274,000	700,000
China	1913	930,000	398,000
	1900	550,000	200,000
Brazil	1913	1,200,000	285,000
	1900	450,000	85,000
Canada	1913	855,000	125,000
	1900	550,000	110,000
Mexico,	1913	500,000	110,000
	1900	470,000	125,000
All other countries	1913	300,000	80,000
	1900	50,000	15,000

¹ The quantities for the United States are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are included. For other countries the quantities are given in equivalent 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 bales 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 take 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 for the 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 somewhat. A detailed presentation of statistics relative to cotton spindles and cotton consumption for the United States appears in earlier pages of this report.

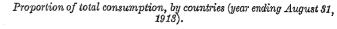
EUROPE.

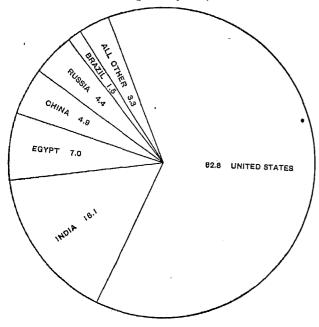
The season of 1912-13, like that of the preceding year, was, on the whole, a profitable one for the European mills. The commitments for the future delivery of goods and the extraordinary stocks of cotton carried over from the previous season insured profitable operation for at least a portion of the 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

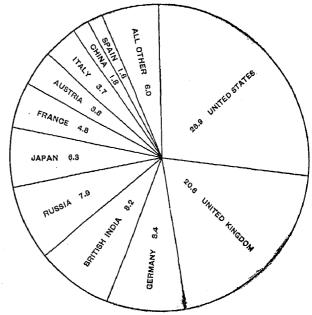
in the United Kingdom was an unusually good one and Germany also experienced a good year. In some countries labor troubles interfered to some extent, while the wars in southeastern Europe had a very injurious effect on the industry in some of the less important countries and depressed it somewhat in others.

DIAGRAM 3.—RELATIVE IMPORTANCE OF THE SEVERAL COUNTRIES IN THE PRODUCTION 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-

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 increased 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, an 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 industry 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.

Although 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 year 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 advantage 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 valued 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 available, 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 market 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.

CANADA.

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.

MEXICO.

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 of 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, thoughincreasing, 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. These 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 delayed 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 STOCKS ON HAND IN FOREIGN COTTON MILLS ON AUGUST 31, BY COUNTRIES: 1909 TO 1913.

[Compiled from the reports of the International Federation of Master Cotton Spinners' and Manufacturers' Associations. Stocks relate only to establishments from which reports were received.]

	Total estimated	Number of spin- ning spin-	TABLI	STOCKS SHMENTS BALES).	ON AUG	GUST 31 ORTING	IN ES- (RUN-		Total es-	Number of spin- ning spin-	TABL	STOCKS SHMENTS BALES).	ON AUG	GUST 31 ORTING	IN ES- (RUN-
COUNTRY AND YEAR.	number of spinning spindles.	dles in mills from which returns were received.	Total.	Amer- ican.	East In- dian.	Egyp- tian.	All other.	COUNTRY AND YEAR.	timated number of spinning spindles.	dles in mills from which returns were received.	Total.	Amer- ican.	East In- dian.	Egyp- tian.	All other.
Great Britain: 1913	55, 652, 820 55, 317, 083 54, 522, 554 53, 397, 466 53, 311, 630	49, 805, 768 48, 783, 945 48, 028, 180 48, 088, 513 47, 868, 046	339, 859 360, 825 204, 986 215, 006 331, 741	209, 051 245, 839 115, 882 128, 285 208, 624	16,346 20,801 10,752	46, 493 44, 665 88, 200	29,722 26,265 21,255 24,165	Portugal: 1913. 1912. 1911. 1910. 1900. Holland:		410,000 390,620	7,767 8,500 7,700 7,625 8,058	ll 5. 175	260 390 260 100 300	250 280 400 400 155	1,850 1,800 1,950
1913. 1912. 1911. 1910. 1909. Russia:	11, 186, 023 10, 725, 732 10, 480, 090 10, 200, 000 10, 162, 908	10, 393, 928 10, 562, 082 10, 199, 362 10, 045, 684 10, 070, 180	257, 684 298, 258 241, 357 271, 059 333, 669	156, 120 197, 838 113, 672 112, 615 186, 924	67, 545 59, 832 92, 653 128, 833 108, 168	24,939 25,186 21,464 18,913 24,296	9,080 15,402 13,568 10,698 14,281	1913. 1912. 1911. 1910. 1909.		453, 752 431, 452 426, 354	9.511	8, 304 6, 015 5, 575	2,178 3,119	76	2,599 263 25 94 175
1913	9,212,557 8,800,000 8,071,664 8,234,137 7,800,000	7,130,843 7,769,907 6,574,347 5,406,904 5,677,272	435,251 599,833 441,875 311,306 345,644	99, 633 95, 148 93, 033 87, 784 87, 520	1 222	21,895 19,606 16,085 12,571 35,124	305,026 480,524 324,857 200,353 217,176	1913 1912 1911 1910 1900	89,556 83,684 70,655 83,208 77,558	89,556 83,684 70,655 83,208 77,558	1.466	1,321 762 730	561		64 145 119 52 125
1913. 1912. 1911. 1010. 1909.	7,400,000 7,400,000 7,300,000 7,100,000 7,000,000	7,228,583 7,146,810 7,112,075 6,889,549 6,794,130	161,545 153,682 131,854 135,273 177,103	80,650 89,004 65,127 64,274 97,940	36 534	19,794 16,398	8,350 6,785 5,455	1913 1912 1911 1910 1909	74,572 73,568 74,320 73,650 75,844	74,572 73,568 74,320 73,656 75,844	2, 182 1, 736 1, 935 1, 647	1,484 1,011 1,223	593 609 679		33
1913	4,909,458 4,797,935 4,503,745 4,643,275 4,351,910	4,909,458 4,797,935 4,309,857 4,151,594 4,200,610	154,240, 170,807 129,574 132,710, 179,833	49,559 95,816	66,625 76,004 71,619	4,154 8,476	2,267	1913. 1912. 1911. 1910. 1909.	6,084,378 6,195,214 6,250,000 5,657,231 5,800,000	4,744,710 4,415,588 4,201,779 4,158,942 1,908,679	495, 106 486, 123 360, 426 361, 715 206, 422	ll ga' aan	485, 470 420, 622 357, 695 356, 203 180, 559	200	736
1913. 1912. 1911. 1910. 1909.	4,600,000 4,580,000 4,582,065 4,200,000 4,000,000	4,332,131 3,623,064 3,379,126 3,500,041 3,131,987	122, 586 133, 127 121, 904 105, 622 135, 765	77, 864 03, 948 54, 354 44, 246 87, 176	34, 174 32, 901 58, 317 57, 889 38, 501	3,060 4,178 5,645 2,492 4,214	6, 858 2, 100 3, 588 995 5, 874	1913. 1912. 1911. 1910. 1909.	2,300,000 2,191,960 2,131,494 1,948,000 1,731,587	2,288,892 2,026,839 1,749,107 1,812,000 1,654,819	584, 710 563, 889 304, 556 293, 000 325, 256	152, 847 41, 872	453, 582 385, 964 217, 520 243, 400 233, 346	7,213 8,564 6,824 4,000 9,550	26, 257 16, 514 38, 340 16, 200 17, 911
1913. 1912. 1911. 1910. 1909.	2,000,000 2,200,000 1,853,000 1,853,000 1,900,000	1,835,428 1,900,000 1,746,741 1,700,000 1,702,000	37,400 38,280 34,534 40,834 84,310	27, 472 30, 104 24, 274 33, 484 64, 600	5,324 4,182 6,234 8,566 7,920	1,681 1,913	2,345 2,871	1913 1912 1911 1910 1909		788,667 777,422	26, 752 41, 992 7, 079 8, 962 25, 729	41,319 6,638	212	351	275 90
1912 1911 1910 1909	1, 398, 062 1, 408, 456 1, 481, 230 1, 496, 698 1, 496, 698	1,287,804 1,285,246 1,254,832 1,273,286 1,390,282	18,046 21,428 12,101 11,680 • 22,974	9,076 12,090 5,849 5,973 11,356	1,490 877 831 1,414 1,609	7,951 4,720 4,016	510 701	1913. 1912. 1911. 1910. 1909 1. Moxico:	1,200,000 (1) (1) (1) (1)	430, 920 344, 282 376, 996 351, 970	43, 058 37, 188 23, 677 28, 595				43,058 37,188 23,677 28,595
1913. 1912. 1911. 1910. 1909.	1,492,258 1,387,654 1,326,722 1,321,780 1,231,165	1,492,258 1,387,654 1,326,722 1,321,780 1,231,165	44,397 50,810 42,815 36,173 46,659	18, 915 21, 862 13, 068 9, 975 17, 930	24,042 28,513 29,207 25,974 28,012	270 102 97 7 262	443 217	1913	500,000 (1) (1) (1) (1)	205, 608 223, 862 88, 898 257, 438	5,065 6,611	1,831 1,076	10	207 315 80	3,027 5,220
1913	534,000 529,772 527 779	381, 935 378, 092 406, 494 377, 423	14,500 11,642 14,733 16,711 17,659	12, 804 10, 644 8, 547 7, 521 13, 065	725 6,061 8,270	239 272 22 858 706	1 103 62								a

¹ Not reported 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 affoat 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 cotton afloat to Great Britain and the Continent on the Friday nearest the end of August: 1909 to 1913.

Total. American. Egyptothen. All other.											
Europe: Liverpool— 1913. 573, 150 375, 550 70, 620 47, 810 31, 650 47, 520 1911. 402, 200 236, 380 43, 220 41, 940 38, 950 44, 11, 940 290 236, 380 43, 220 41, 940 22, 370 16, 80 17, 80 1909. 835, 960 743, 200 11, 790 28, 460 35, 030 17, 480 1912. 213, 000 210, 000 3, 000 1912. 213, 000 210, 000 210, 000 1912. 52, 750 30, 530 1, 960 20, 200 1913. 594, 900 1912. 52, 750 30, 530 1, 960 20, 260 1913. 594, 900 1912. 52, 750 30, 530 1, 960 20, 260 1913. 594, 900 1913. 594, 900 1912. 52, 750 30, 530 1, 960 20, 260 1913. 594, 900 1912. 52, 750 30, 530 1, 960 20, 260 1911. 421, 900 1911. 421, 900 404, 900 1911. 421, 900 404, 900 1911. 421, 900 404, 900 1911. 421, 900 404, 900 1911. 421, 900 404, 900 1911. 421, 900 404, 900 404, 900 1911. 421, 900 404, 900 1911. 421, 900 404, 900 1911. 421, 900 404, 900 404, 900 1911. 421, 900 404, 900 404, 900 1911. 421, 900 404, 900 404, 900 1911. 421, 900 404, 900 404, 900 1911. 421, 900 421, 900 404, 900 1911. 421, 900 421	DODE AND WILLD	Total.									
Liverpool	PORT AND TEAR,										
Liverpool	Europe:										
1913	Livernool		ł								
1912		573, 150	375,550	70,620	47,810	31,650	47,520				
1011		594, 800	466, 270	32, 660		36,830	26, 730				
1910	1011	402, 200	236, 350	43, 220		36, 950	44, 140				
1000 101 101 101 102 102 103 100 101 102 103 100 101 102 103 100 101 102 103 100 101 102 100 101 101 101 101 101 101 102 100 101 101 101 101 101 102 100 101 101 101 101 101 101 101 101 101 102		331, 080	244, 440			16, 890					
London		835, 960	743, 200	11, 790	28, 460	35,030					
1913		(100)	110,200	12,000	-0, 200	00,	,				
1912		5.837	ll			1	5,837				
Bremen		11 165			}						
1913		11,100		[,,				
1912		105 000	103 000		1	1	2,000				
Hayre—							3,000				
1913		220,000	210,000				5,555				
1012		81 700	71 500	1	l	1	10, 200				
Other continental ports—1913 60,250 28,660 2,110 29,480 1912 52,750 30,530 1,960 20,260 Bombay: 594,000 594,000 594,000 1913 594,000 454,000 454,000 1911 421,000 421,000 421,000 1910 494,000 404,000 404,000 1909 172,000 172,000 172,000 Alexandria: 1913 64,532 64,532 64,532 1912 46,666 40,666 40,666 40,666 1911 42,132 42,132 1012 40,666 1913 61,502 5,000 5,000 8,000 14,000 9,000 1912 83,000 42,000 13,000 8,000 14,000 9,000 1912 83,000 42,000 13,000 8,000 16,000 7,000 1913 16,000 70,000 2,000 84,000 16,000 7,000	1010										
1913	Other continental years	100,100	50,200				3,000				
1912 52,750 30,530 1,960 20,260 1913 594,000 594,000 594,000 1912 454,000 454,000 421,000 1910 404,000 404,000 404,000 1910 172,000 172,000 172,000 Alexandria:	Other continental ports—	60 250	25 860]	9 110		20 480				
Bombay:		50,200	20,000		1,110		20, 200				
1913. 554, 000		02,700	50,550		1,900		20,200				
1912	Bombay:	E04 000	11	Į	ł	1	KO4 000				
1911		1504,000	}		}		1454 000				
1910. 404,000 172,000		404,000					401,000				
1909. 172,000 172,	1911	421,000					421,000				
Alexandria: 1913.		404,000									
1913	1909	172,000					172,000				
1012.			lì		04 500		ļ				
1911.		04,832			04,832						
To Great Britain: 1913		46,000			40,000						
To Great Britain: 1913	1911	42,132			42, 132						
To Great Britain: 1913			<u> </u>	<u> </u>		<u> </u>	<u> </u>				
To Great Britain: 1913											
1913. 61,000 25,000 5,000 8,000 14,000 9,000 1912. 83,000 42,000 13,000 3,000 7,000 13,000 7,000 1011. 87,000 61,000 3,000		COTTO	AFLOAT	AUGUST	31 (RUN	NING BA	LES).				
1913. 61,000 25,000 5,000 8,000 14,000 9,000 1912. 83,000 42,000 13,000 3,000 7,000 13,000 7,000 1011. 87,000 61,000 3,000		1									
1913. 61,000 25,000 5,000 8,000 14,000 9,000 1912. 83,000 42,000 13,000 3,000 7,000 13,000 7,000 1011. 87,000 61,000 3,000	To Grant Britain:		11	1		ī					
1912. 83,000 42,000 13,000 8,000 7,000 13,000 1911. 87,000 61,000 3,000 16,000 7,000 To the Continent: 165,000 70,000 2,000 84,000 1912. 128,000 70,000 2,000 56,000		81 000	25 000	5,000	8,000	14,000	9,000				
1911. 87,000 61,000 3,000		83,000	42,000	13,000	8,000		13,000				
To the Continent: 1913. 165,000 79,000 2,000 84,000 1912. 128,000 70,000 2,000 56,000	1011	87 000	61,000	3,000			7,000				
1913.	Mo the Continent:	01,000]] 01,000	, 0,000		10,000	1,000				
1912. 128,000 70,000 2,000 56,000 1911. 166,000 188,000 2,000 26,000	1019 Comments:	185 000	70 000	ł	2.000	1	84 000				
1911. 166,000 138,000 2,000 26,000 26,000		100,000									
100,000 100,000 2,000 20,000		166,000			2,000						
	1911	100,000	199,000		2,000		20,000				
			<u> </u>	1	<u> </u>	<u> </u>	<u> </u>				

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 afford 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, together with the several sources of information:

Stocks of cotton August 31, 1913.

Location.	Quantity (running bales 1).	Source of information.
Mill stocks: United States. Europe. India, Japan, Canada, Brazil, and Mexico (partial).	778,000 2,475,000 1,154,000	Bureau of the Census. New Orleans Cotton Exchange. International Federation of Master Cotton Spinners and Manufacturers' Asso
Stocks in public storage places in United States. Port stocks:	495,000	tions. Bureau of the Census.
United Kingdom	579,000	Liverpool Cotton Associa-
In other European countries	247,000	Liverpool Cotton Associa-
Bombay	594,000	The Cotton Gazette, Liver-
Alexandria	65,000	pool. The Cotton Gazette, Liver-
Cotton afloat: To United Kingdom	61,000	Liverpool Cotton Associa-
To other European countries	165,000	Liverpool Cotton Associa-
Stocks held elsewhere in United States (estimated).	325,000	Bureau of the Census.

 $^{^{\}rm 1}$ 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 MANUFACTURES.

Table 26 shows for the more important countries all oth which import or export cotton or its manufactures, value.

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 COTTON AND OF COTTON MANUFACTURES, FOR SELECTED COUNTRIES.

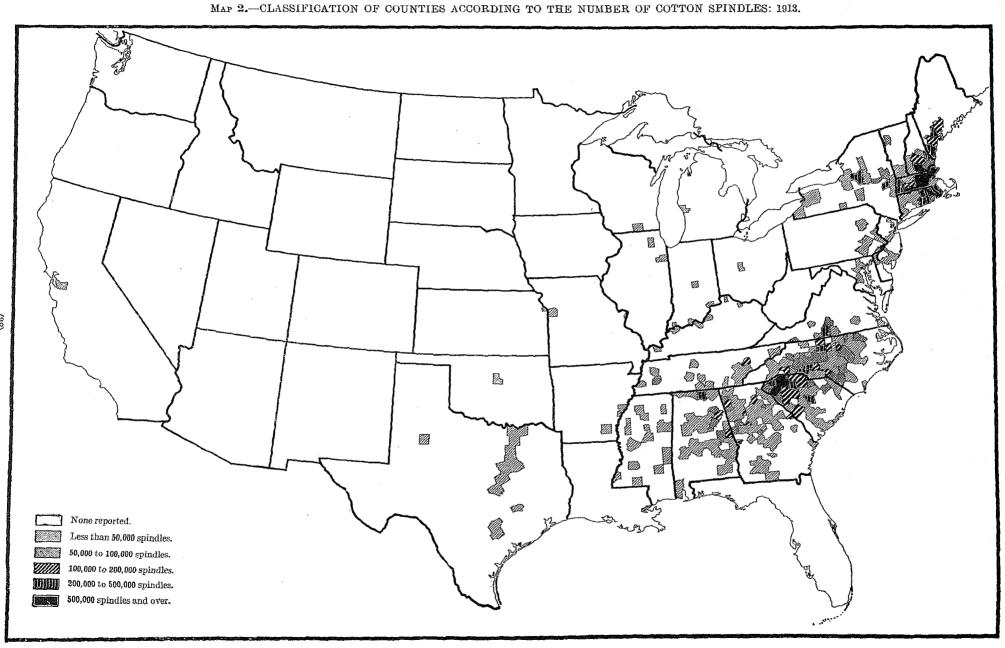
[Compiled by the Bureau of Foreign and Domestic Commerce, Department of Commerce. Owing to many differences in the methods employed by the several countries in classifying their imports and exports of cotton manufactures and in presenting statistics for the same, it is very difficult, if not impracticable, 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 Mexico, which are for the fiscal year, and those for Canada, Siam, and India, which relate to the year ending March 81.]

l		Raw	VALUE OF COTTON MANUFACTURES.						Raw cotton	VALUE OF COTTON MANUFACTURES.			
COUNTRY.	Year.	(equiva- lent 500- pound bales).	Total.	Cloth.	Yarn and thread.	All other.	COUNTRY.	Year.	(equiva- lent 500- pound bales).	Total.	Cloth.	Yarn and thread,	All other.
IMPORTS.							IMPORTS—contd.						
Austria-Hungary Belgium Bulgaria France Germany	1911 1911 1910 1911 1911	605, 525	\$13, 995, 504 53, 871, 021 4, 938, 520 16, 540, 486 45, 230, 948	14, 791, 973 2, 149, 439	\$7,205,208 11,502,975 2,120,178 5,084,585 23,535,344	\$4,263,573 27,576,073 668,903 9,632,244 14,894,754	Siam. India French Indo-China Dutch East Indies	1911 1912 1909 1910	726 109, 884 17, 267 41	\$4,383,297 160,927,139 8,804,840 (⁸)	139, 229, 171	13, 518, 624	8 179 344
Greece Italy Netherlands Norway	1910 1911 1910 1910 1910	9,343 837,182 431,661 17,878	3,103,676 10,102,672 23,715,645 3,664,874	2,400,595 2,123,605 7,047,304	250,415 1,217,693 16,202,286 890,618	452,666 6,761,374 466,055 2,774,256	Philippine Islands Egypt Algeria Tunis	1911 1911 1909 1911	1,401 80 503 59	22,722,779 10,623,144	20,390,157 9,253,630	235,922	735, 924 1, 133, 592
Portugal Roumania Russia Servia Spain Sweden	1910 1910	72, 133 1, 279 870, 753 398, 666 91, 247	3,055,038 3,542,145	931.790	3,945,058 5,428,202 1,414,383 414,491	1,194,027 2,425,487 4,113,910 406,282 2,195,864 2,672,195	Other French Africa British South Africa Other British Africa German Africa	1910 1911 1910 1909		14,696,710 15,095,083 14,293,363 3,381,738	7,846,857 4,140,812	(1) 271,137	1, 182, 231 7, 248, 226 9, 881, 414 510, 548
Switzerland United Kingdom Canada Cuba Mexico	1911 1911 1912 1910 1911	107,788 4,414,176 145,588 2,505 5,809	9,699,186	13,474,039 9,932,313 7,701,307	1 350,605	6,733,387 39,484,489 10,459,326 1,647,274 2,789,202	Austria-Hungary Bolgium France Germany Italy	1911 1911 1911 1911 1911	56,575 292,480 430,713 163,353 347	67, 789, 127 114, 108, 624	1 34 406 232	4,015,346 12,866,059 3,114,248 14,086,982 6,742,613	2,725,524 35,538,684 31,241,489 65,615,410 5,987,844
United States Argentina Brazil Chile	1911 1909	362	15,032,953	22,366,104 8,669,100	4,028,127 3,096,070 2,553,458 1,510,668	3,810,395	Netherlands	1910 1910 1911 1911	158, 575 252 582, 361	26,369,009 13,155,995 52,206,307 595,584,160	12,956,914	199,081	l
Peru China Japan Korea	1911	10,976 21,061,765 920	7,775,497	58,943,028 7,023,753	33,520,033 570,830	3,657,390 180,914	United States India Japan Egypt	1912 1911	1,637,912 1,080	34,049,389	121.674.570	27, 644, 807 20, 065, 914	891, 512 4, 167, 396

¹ Included in "All other."

² Exclusive of 20,176,800 pounds of cotton in the seed.

⁸ Not available.



(38)

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 since it 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 hydroelectric 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 cotton spindles each, arranged in order of number of spindles: 1913.

COUNTY,	Spindles. (number).	COUNTY.	Spindles (number),
Bristol, Mass Providence, R. I. Middlesex, Mass Hillsborough, N. H. Spartanburg, S. C. Hampden, Mass Windham, Conn Essex, Mass Greenville, S. C. Worcester, Mass Kent, R. I. Anderson, S. C. Berkshire, Mass Gaston, N. C. Now London, Conn Oneida, N. Y Androscoggin, Me. York, Me. Strafford, N. H. Union, S. C. Muscoge, Ga. Albany, N. Y. Cabarrus, N. C. Pittsylvania, Va. Richland, S. C. Essex, N. J. Mecklenburg, N. C. Bristol, R. I. Madison, Ala	1,119,692 904,369 805,123 744,874 744,664 730,612 715,670 624,680 587,304 565,648 491,090	Pickens, S. C. Guilford, N. C. Fulton, Ga Greenwood, S. C. Alken, S. C. Kennebee, Me. Richmond, Ga Laurens, S. C. York, S. C. Durham, N. C. Rockingham, N. C. Nowberry, S. C. Cherokee, S. C. Hampshire, Mass. Chambers, Ala. Rutherford, N. C. Alamance, N. C. Calhoun, Ala Merrimack, N. H. Richmond, N. C. Cumberland, Me. Floyd, Ga Priladelphia, Pa Spalding, Ga Baltimore city, Md Knox, Tenn Chester, S. C. Stanly, N. C. Hall, Ga.	205, 588 203, 260 108, 070 104, 768 185, 636 181, 150 179, 856 178, 584 162, 304 159, 616 179, 592 164, 164, 644 138, 500 137, 920 136, 338 128, 911 128, 876 122, 833 122, 430 117, 920 117, 93

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 county 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 practically 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.