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WOODBURY'S

TABLES AND NOTES

ON THE

Cultivation, Manufacture, and Foreign Trade

COTTON.

WASHINGTON:

PRINTED BY BLAIR & RIVES.

1836.







These tabular statements, showing the extent of the cultivation, manufacture, and export of cotton, were prepared by the Secretary of the Treasury, under the circumstances stated in his report to the House of Representatives, in answer to the call on him to lay them before that body. A large number of them was ordered to be printed by the House; but so many important facts upon an interesting branch of statistical research were ascertained to have been condensed in these tables, and the notes accompanying them, as to inspire a strongly expressed wish that an edition might be published for general circulation, independent of that printed for Congress. This was acquiesced in by the author, and the present edition is accordingly submitted to the public without any addition or amendment.

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COTTON.

CULTIVATION, MANUFACTURE AND FOREIGN TRADE OF.

LETTER

FROM

THE SECRETARY OF THE TREASURY,

TRANSMITTING

Tables and notes on the Cultivation, Manufacture, and Foreign Trade of Cotton.

MARCH 4, 1836.

Referred to the Committee on Manufactures, and 15,000 extra copies ordered to be printed under the direction of the Secretary of the Treasury.

TREASURY DEPARTMENT, Feb. 29, 1836.

SIR: Certain tabular statements and notes on the cultivation and manufacture, together with the imports and exports of cotton, are herewith submitted to the House of Representatives, in compliance with their resolution of the 12th instant:

"Resolved, That the Secretary of the Treasury be directed to transmit to this House the tables indicated in a note to his annual report, showing the progress in the cultivation and manufacture of cotton in the United States, and in other countries; also, showing the comparative quantity and value of exports and imports of cotton, and cotton manufactures, in the United States and other countries."

In order that the true character of these tables may be understood, and no expectation as to their contents be formed, which an examination of them might disappoint, a brief explanation will be given of their origin,

progress, and present state of completion.

They were not commenced till the last year; were at first very limited in their object, and have been attended to since, only at a few brief intervals of leisure. In the course of that year, while making official investigations, they were begun, with a view to the collection of such general statistical facts as might enable me to form a satisfactory opinion, upon the extent of influence which the rapid increase of the growth and manufacture of cotton in this country had exercised, and was likely to exercise for a few ensuing years, upon our revenue from foreign importations, and from the sales of the public lands in the southwestern States and Territories.

In the pursuit of these inquiries, the influences of the trade in cotton, whether raw or manufactured, on our exports of domestic products, on our imports of cotton fabrics in particular, and generally upon all our

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foreign importation, as far as dependent on the amount of our exports; and, in fire, its effect upon our whole foreign commerce, as well as on many other branches of our national prosperity, became highly interesting

portions of the principal investigation.

That investigation was also originally confined to the culture and manufacture of cotton in this country since the adoption of our constitution. But in the course of my inquiries, finding that the cultivation of cotton here, and the extent of our exportations of it, were intimately connected with the growth and exportation as well as the manufacture of it in other countries, and that not only our foreign trade, but our foreign relations of peace and war, would probably be hereafter much influenced by the commercial connections which the growth and manufacture of cotton appeared to have established between them and us, I endeavored, incidentally, to collect and preserve, and afterwards arrange, such general statistical facts upon these points, during the same period, in relation to other countries, but chiefly England and France, as could be obtained amidst the pressure of other business in the short time partially devoted to the investigation of this subject.

Many of the statements in the columns from books and reports might doubtless have been made fuller, could I have commanded greater leisure for this object, and especially might more have been added by way of estimate from a few important data embraced under several particular heads. The whole topic, likewise, of the domestic trade in raw cotton and its manufactures, between different portions of the same country, and especially of the United States, might have been usefully embraced, had it come more directly within the scope of my inquiries, and had time permitted. It would throw much light on the coasting trade; communication by roads and canals; different habits and pursuits of the people in different portions of the same country, and their reciprocal dependence for certain raw and manufactured articles, tending so strongly, as for example it does here, to preserve frequent, constant, and friendly intercourse, and to cultivate and strengthen, for both convenience and interest, the bonds of harmony and union.

But unable to enlarge on that, my great solicitude was to obtain, in the first place, pertinent facts, in as great a number as practicable, with a view to form afterwards such estimates and inferences connected with the general object originally proposed, as might throw some new light upon it. The sources whence most of those facts were drawn I noted down, in order to determine afterwards the degree of reliance which should be placed on such as might be found to appear doubtful. In the notes appended to the several tables, the authorities for most of the facts are accordingly referred to. Where the authorities are not given, the statements in the columns are usually the result of my own computations, deduced from the best information at my command.

Having proceeded far enough in the inquiries and statements to answer the purposes originally contemplated, I formed the general estimates, deductions, and opinions, upon the influence of the growth and manufacture of cotton in this country over its revenue, commerce, and prosperity, which were expressed in several places in my last annual report, and which, with some comparative statements connected with this subject, are, on account of their intimate connection, extracted and appended. (Marked Q.)

These tables being now called for by the House of Representatives, they

are submitted without many of those details, which exist on all points, and particularly on such as relate to the different species and localities of the manufactures, and to the kinds of machinery employed in the several operations. These last were easily obtainable, and to some inquirers might be very desirable. But as that minuteness did not come within the scope of my original examinations, what I have thus hastily collected and presented must be regarded rather as a few general facts for comparison, and as hints or suggestions to be followed out by others who enjoy more leisure, than as a full compilation of statistics on the subject of cotton. Yet in their present imperfect and meagre state, under some heads, they still contain under each, it is hoped, a few data which may prove useful, since they bring together, in a condensed and systematic view, many scattered details on a subject very important to the finances of the country at this time, as well as to its future prosperity in each of the three great branches of national industry—agriculture, commerce, and manufactures.

Any inferences or suggestions on the influence of tariffs, upon the growth or manufacture of cotton, or on the propriety of protection to manufactures, or other branches of our national interests, which have been so much agitated in former years, were studiously avoided, as not called for by the

occasion, or the present condition of the country.

The notes contain numerous illustrations, additional explanations, and facts, which could not be conveniently incorporated into the tables; and some of which are very material for deciding correctly upon the accuracy

of the figures and statements contained in the different columns.

The general arrangement of the tables and notes is such, as to present first the facts and estimates on the growth or the crop of cotton, so far as practicable, for a number of different years, in those countries in the world where it is most cultivated. They exhibit next the foreign trade in raw cotton, by giving the exports and imports of it at several periods from and to most of the places abroad where it constitutes an article of much commerce.

The third set of tables shows the amount and condition of the manufacture of cotton, and its consumption at different dates, in most of the countries where it is extensively used; and the last series shows the foreign trade in those manufactures, during a number of years, from and to many of the principal places engaged in it.

A more minute explanation of the contents of each table and its notes

is given, for convenience of reference, in the schedule annexed.

With these hasty explanatory remarks,

I have the honor to be,

Very respectfully,

Your obedient servant,

LEVI WOODBURY,

Secretary of the Treasury.

Hon. James K. Polk,
Speaker of the House of Representatives.

SCHEDULE OF THE TABLES AND NOTES.

A, B, and C, relate to the crop or growth of raw cotton.

A, gives the quantity supposed to be raised in the world at a few different periods, and in each country where it grows.

B, gives the quantity computed to be grown, at several dates, in each of the

southern and southwestern States of this Union.

C, gives the prices of it here, and in England, for many years; the capital and the number of persons estimated to be employed in growing it, and the value of the whole crop here and elsewhere.

D, E, F, G, H, relate to the foreign trade, or the exports and imports of raw cotton.

D, gives the exports from the different quarters of the world chiefly engaged in that trade, at a few separate periods.

E, gives the exports from most of the important places in the United States

where it is shipped.

F, gives the exports from, and to, most of the countries, engaged extensively in this trade.

G, gives the imports of it into England, at several dates, and the amount

from each of the most important countries raising it.

H, gives the imports into France, and whence, as well as the imports into a number of other places.

J, K, L, relate to the manufacture and consumption of raw cotton, in several countries.

I, gives the amount used and manufactured in most of the countries where raw cotton is much worked up.

K, gives the value of the manufactures of it in several countries, and the

amount of capital employed in them.

L, gives the spindles and number of persons employed in the manufacture, in some places, at different poriods.

M, N, O, relate to the foreign trade in cotton manufactures.

M, gives the exports of them from several countries.

N, gives the exports of them from England, and the amounts exported thence to several enumerated places, at different periods, so as to exhibit in the same table the imports of them into the same places from England. O, gives the exports of them from several other countries, and whither.

P, is the last of the tables, and merely presents an exhibit of the dates of the most important changes in the growth, manufacture, and foreign trade of cotton, within the period chiefly referred to in the other tables.

INTRODUCTORY NOTES.

In the subsequent tables the quantity of raw cotton has been computed in pounds, and when stated in the weights of other countries by the authors referred to, the edition (1831) of Kelly's Cambist has been followed as a guide about the contents of the kilogramme, maud, picul, &c. The prices and values, when found in the denominations of foreign currencies, have also generally been reduced to dollars and cents, computing the pound sterling at \$4 80; and the statements of all considerable quantities and amounts have usually been made only in millions and large fractions of millions. This has been done for convenience and uniformity, and was supposed to be sufficient, if not better, for the comparative and general purposes contemplated in the original formation of the tables.

As most persons in conversation, and most authors, speak of "bales," or "bags," rather than pounds, of cotton, whether referring to the crop, the manufacture, or the exports and imports of it, some further explanation may be proper, to show why the term has not been employed in the state-

ments contained in any of these tables.

It was early discovered, in the preparation of them, that many contradictions and errors happened, from the uncertain quantity indicated by different persons in the use of those terms, and which might be obviated by always making the statements in pounds, and giving in a note the amount computed to be contained in bales and bags in different countries, so that the pounds could, when desirable, be converted again readily into bales or bags. By pursuing this course of using only the term pounds, the great object of comparison between the quantities of cotton grown or manufactured or exported at different periods, and in different countries, could also be more clearly and quickly accomplished.

In illustration of these remarks, and to furnish the quantity usually contained in each bale, bag, &c. it appears that in 1790 the bale or bag in the United States was computed at only 200 pounds. (See Treasury Report, 15th February, 1791.) In the Atlantic States it is now estimated often at 300 and 325 pounds, but in those on the Gulf of Mexico, at 400 and 450 pounds. Those used at Lowell in 1831 contained, on an average, 361

pounds (Pitkin's Statistics, page 527, note.)

At Liverpool the Sea Island bale was, a few years ago, estimated at 280 pounds, and the Upland at 320 pounds. The bales imported into France are estimated at 300 pounds each, by Baines's History of Cotton, page 525. In 1824 all the bales imported into Liverpool averaged 266 pounds, and increased yearly, till in 1832 they weighed, on an average, 319 pounds, (McCulloch, page 441). Though on the previous page he considers from 300 to 310 pounds a fair average, and Burns, cited on same page, makes it 310 pounds in 1832. The Egyptian bale contained once only 90 pounds; the Brazilian 180 pounds; (Pitk. 485;) the West Indian 350 pounds; and the Colombian bale or quintal, 101 pounds. (Cyclop. of Com.) In 1832, Burns says the average of the United States bale or bag imported into England, was 345 pounds; Brazilian 180 pounds; Egyptian 220 pounds; West Indian 300 pounds; East Indian 330 pounds. (See McCulloch, 441.)

The amount of our own exports does not depend on computations from any of these data, but on the actual weight in pounds, sworn to at the cus-

tom house.

By the last annual report of the Liverpool market, made in January, 1836, it appears that the bales have so altered in their quantity, that the estimate of the present bales or bags is: for the upland 321 pounds; for Orleans and Alabama 402 pounds; for Sea Island 322 pounds; for Brazil 173 pounds; for Egyptian 218 pounds; for East India 360 pounds; and for West India 230 pounds. As improvements are made in pressing and packing closer, to save something in the expense of bagging and freight, the constant tendency has been here to increase the weight in a bale.

[Doc. No. 146.]

A. COTTON, RAW,

Mary resolvents of the first of	Crop of cotton grown in [1]									
	The World.	United States.	Erazil	West Indies.	Egypt	Rest of Africa.	India.	Rest of Asia.	Mexico and S. America, ex- cept Brazil.	Elsewhere.
Years.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1789 1790	Millions.	1	Millions.		Millions.			Mill'ns.	Millions.	Miln's:
1789 1790 1791 1792 1793 1794 1795 1796 1796 1797 1798	490 [2] - - - - -	1½ 2 3 5 8 8 10 11 15 20	22	19	-	46	130	190	68	
1799 1800 1801 1802 1803 1804 1805 1806 1807	520	35 48 55 60 65 70 80 80 75 82	36	10		45	160	160	56	15
1809 1810 1811 1812 1813 1814 1815 1816 1817	555 [3]	85 80 75 75 70 100 124 130 125	35	12	1 2	44	170	146	57	11
1819 1820 1821 1822 1823 1824 1825 1826 1827 1828	-	167 160 180 210 185 215 255 350 270 325 365	32	10	. 6	.40	175	135	4.1	8
1830 1831 1832	820	350 385 390	38	9	18	36	180	115	35	4
1833 1833 1835 [12]	i 900	445 460	30 [4]	[5]	25	[7]	[8]	[9]		

- [1.] It will be seen by the phraseology adopted, that the crop given against each year is that grown, and not that brought to market in the year, and that the year meant in the table is the calendar, and not the fiscal year. This course has been pursued as more appropriate when applied to the raising of a crop; but in selling it, "the crop of 1835," for example, is often spoken of by others when that, which grew in 1834, is the crop alluded to. This explanation will enable all to make their comparisons in the mode most convenient to them, and will remove some apparent contradictions between certain authors.
- [2.] In forming an estimate of the whole crop of cotton grown in the world in any particular year, I have found no precedent to aid me except for the single year of 1834, when evidence was given before the Chamber of Peers, in France, that it probably amounted to about 460 millions of pounds. But this computation was so deficient, assigning none to Mexico, and none to S. America, or Africa, except to Brazil 24 millions of pounds, and to Egypt 20 millions of pounds, and only 60 millions of pounds to India, and 350 millions of pounds to the United States, and the balance of 6 millions of pounds to the West Indies, that no safe reliance could be placed on it as correct for the whole known world. My own course has been to ascertain from all attainable sources the exports in raw cotton of each country; to add to those the probable amount consumed at home and not exported, looking to the climate of the place, the habits of its population, and the scattered facts on this point found in respectable authors, and then to compute therefrom the whole quantity grown. Another general test of the correctness of one of my conclusions, viz: that the whole crop in the world has quite doubled in the last half century, and now equals quite 900 millions of pounds, though the estimate before named is only 460 millions of pounds, exists in the fact that a greater increase than this has happened in the crop of the United States alone; and though, in some other countries, a diminution has occurred in the exports of cotton from various causes, which need not here be detailed, yet the use of it has probably been reduced in no country, and in many, within that period, it has, from greater cheapness, by improvements in machinery and steam, with its healthfulness, compared with other clothing, largely increased, and in some been for the first time introduced. Supposing that in warm climates, and in a population not highly civilized as in Turkey, two pounds of cotton per head for each person are yearly consumed, (see Urquhart on Turkey, page 150) and in the south of China and India, not over one and a half pounds to each person, and in the places near or under the equator still less; and that in more civilized countries where cotton is used, as in England, France, and the United States, from eight to twelve pounds per head are consumed; and supposing that only a little more than half the population of the globe, estimated at four hundred and fifty millions, use cotton, the consumption would, on an average, at only two pounds per head, be quite equal to the estimated crop for the whole world. For some years past it is supposed that the consumption of cotton has been greater than the crop, and hence, that the old stocks on hands have been more exhausted, and a larger portion of the new crop called for early (see table I). This has sustained the price and required an augmented crop of at least 20 millions of pounds per annum. and Evidence before the French Chambers, February, 1835.

[3.] The crop as well as the export of cotton of the United States, from 1809 to 1815, was sensibly diminished by means of our commercial restrictions and war, and the crop of other countries was increased to supply the place of ours in foreign consumption. Our crop has been estimated with more care, and from better data, than the crop of other portions of the world. From 1821 to 1834 it has been estimated by others much lower than in the table and as follows:

Years.		M	ill's of lbs.	Years.	\	Ml	ill's of lbs.
1821	-	~	111	1828		Ξ,	$213\frac{3}{4}$
1822	-	_	$121\frac{1}{9}$	1829	\ <u>-</u>	-	$255\frac{3}{4}$
1823	~		136	1830	1	-	292°
1824	_		$152\frac{3}{4}$	1831	\ -	_	$311\frac{2}{3}$
1825	-	_	$169\frac{3}{4}$	1832	,	~	$296\frac{1}{4}$
1826	-	' -	$211\frac{2}{3}$	1833	-	-	360
1827	-		285	1834	\ -	-	$320\frac{1}{4}$

The above is from Marshall's tables on the trade, manufactures, &c. of England, page 110. In McCulloch's Commercial Dictionary, page 434, Reuss' tables, page 270, and Baines's History of Cotton, page 303, similar statements are made, but they are manifestly too low, as being often less in quantity than our exports; and they may differ occasionally from being founded on the exports of a particular year, as 1825, and which were chiefly made up of the smaller crop grown in a previous year, as in 1824. They are incorrect even then, as our crop for many calendar years has been from 50 to 90 millions of pounds more than the exports of each succeeding fiscal year; this last being composed of the growth of the previous calendar year, with a small portion of it brought to market from the 1st of August to the 1st of October, omitted, and a like portion of the subsequent calendar year included. The 50 to 90 millions of pounds are the quantity consumed at home, and which quantity lessens in amount as we go back to the periods when our manufactures were fewer, and when we consumed in them some cotton of foreign growth. See another estimate in the 3d volume of the Parliamentary Reports, (1833) page 89. Another difference may arise from the bale made up here, being abroad computed often at only 300 pounds, (see on this ante and post). The crop in the United States in 1834, was injured in the northern parts of the cotton growing States; but so much new land was put into cultivation, that the whole exports were a little larger, and the home consumption is presumed also to have been more. The crop for the year 1835, has likewise been more seriously injured in the same quarters; but the exports of it since September, have, from early ripening, high prices, &c. been larger than either of the two previous years, and some think the whole crop was larger, while it is believed by a few that the whole crop will turn out to be somewhat less, though not so much as apprehended, the increase of lands in cultivation has been so great. February 17, 1836, the exports ascertained, on the Atlantic, had been 377,420 bags; but to same time in 1835, only 340,379; and in 1834, only 309,976. For a view of our power in the United States to grow more cotton, see table B, note [2].

[4.] The crop of Brazil is computed on its ascertained exports at different periods to England and elsewhere, and a home consumption in a small ratio to its population. (See table on exports.) It has been

diminished of late years by importing cotton manufactures for home consumption, as in 1833 and '4, from England largely. See tables N and O. and notes, and Pitkin, 384 and '5, where are more details. Cotton was first planted or cultivated in Brazil in 1781, for exportation. Smithers's History of Liverpool.

- [5] The crop of the West Indies is estimated in a similar manner: after deducting from their exports the probable portion of cotton brought there from the Spanish Main, and thence re-exported. In 1812, it is said, that the crop of all the West Indies did not exceed 53 millions, (Colguboun 378;) and chiefly in Barbadoes, Bahama islands, Dominico, and Granada: 4 Humbolt's Per. Nar. 123 to 5, and notes. But this is believed to have been underrated. England now exports there largely of cotton manufactures. See 1833 and 1834, table N, and notes: and the United States export there some of them yearly, as well as France. All this tends to diminish the crop raised for home consumption, and probably that for export. See exports of Mfts. table O. Cotton was grown first in 1776, at St. Domingo, for export. 2 v. Hist. of Colom. But earlier in other islands, and they furnished a large part of English wants before 1785; Edin. Cyclop. Art. "Cotton." In 1789, Hayti, alone, exported over 7 millions of pounds: about 25 millions of pounds in 1801, and since that, less than 1 million of pounds yearly. See a table in McCulloch, 926. In 1824, a little over 1 million of pounds, and in 1832 about 13 million. See McCulloch, 927.
- [6] The supposed crop of Egypt, in former years, is predicated on the authority of the Dictionary of Spanish Commerce and Finance, vol. 3, page 29. On her exports, (see exports) and for 1834, the New Monthly Magazine for September, 1835. She imported cotton from Smyrna and Greece till within twenty years. See below note 9th. By the last advices her erop grown, in 1835, is said to be short, not exceeding 18 or 20 millions of pounds.
- [7] The crop of the rest of Africa is computed from her exports from Morocco, Gambia, &c. and the habits and number of her population, and her soil and climate, where cotton is indigenous, and has always been grown in many sections since first discovered. McCulloch, Dic. 436. Of late she imports on the eastern side fewer cotton goods from India, and more there and on the western side from England and the United States. See for 1833 and '4, from Eng. table N, and notes. See exports from the United States, table O. In the island of Mauritius, in 1806, nearly two millions of pounds of cotton were raised, but it fell off gradually till in 1831, little or none was produced. 4 Montgomery's History of British Col. page 209. See table N, note [10.]
- [8] In India, the estimate rests on her exports and vast population, long clothed chiefly in cotton of her own growth. McCulloch, Dic. 437. The Isle of Bourbon produced it of a quality almost equal to the Sea Island. London Cyclop. Art. "Cotton." See her exports, Table D. But of late years her exports of manufactured goods have declined, and her importations of them from England alone, exceed \$10,000,000 yearly. See exports of manufactures from England and the United States, table N and O, and evidence on the East India Company, 1832, appendix, page 287:

and on the growth and use of cotton in the islands of the India Archipelago, see 1 Crawford, History, 177, 207, and 449; 2 Crawford, 350. It is believed, that the cultivation of cotton for export is on the increase; labor is so low, and the trade of India having become more free. The estimates for the crop in India are probably not high enough, rather than being too large. See exports, table E and F, and supplement to Cyclop. Brittan. "Cotton."

[9] The rest of Asia, including China, Japan, Persia, Arabia and Turkey, from the mildness of its climate, great population, and customary clothing, is supposed not to be computed too high. In 1766, it was grown much about Smyrna. See Postlethwait's Dictionary, "Cotton." Only about 6 millions of pounds in 1834, near Smyrna, and most of that

was shipped to Marseilles and Trieste. McCulloch, page 1069.

The cultivation of cotton, in China, began about the 13th century, for purposes of manufacture, though before raised in gardens for ornament. The crop increased rapidly, and was very large, probably much beyond the amount assigned in this column, till 1785 to 1790, when it began to be considerably discontinued for the purpose of raising grain, during and in consequence of famine. Much has since been imported from India, though now in the small statistical knowledge attainable on this point as to China, she may raise more cotton than the large amount computed for her, in connection with Japan, Cochin-China, &c. Supplement to Cyclop. Brit. "Cotton." See exports of raw cotton, table D. Travellers and merchants see but little of China usually, except the south parts and the sea board; and if in the great use of silk, furs, &c. in the colder portions, it is considered that 100 millions of her population use cotton, and from their poverty only 1½ pounds each, the whole amount would be 150 millions of pounds yearly in China alone.

- [10] This crop in South America and Mexico rests on similar principles, as the chief clothing was cotton when the country was first discovered by the Spaniards. It is now often of superior quality. (See Humboldt's Per. Nar. page 202.) The exports since have been considerable. (See exports.) But of late years the crop must be less, as Mexico, as well as Peru and Chili imports now from England yearly many cottons, besides what they get from the United States and elsewhere. (See exports of manufactures.) Cotton began to be cultivated for export in Caraccas in 1782. The saw gin is not yet used, but wooden rollers. 2 Hist. of Colomb. The plant is found indigenous, (Mollier's travels in Colombia, page 121; 4 Humb. Per. N. 123.) In Hall's Columbia, page 27, it is said only about 4 millions of pounds are grown in that Government yearly. This is too small an amount. Cultivated in Surinam since 1735. Smithers's Hist. of Liverpool, page 131.
- [11] This column includes some remote islands, and the south of Spain, Italy and Greece, and their islands, with the Canaries, where cotton was formerly more raised, and still is considerably. See as to Spain and Italy. 2 Chaptal on French industry, page 6. From Italy and Egypt, in 1825, when cotton was very high, over $23\frac{3}{4}$ millions of pounds were exported. McCulloch, 949. Some has been raised in New South Wales. McCulloch, Dict. of Com. 436; Smithers's Hist. of Liverpool, page 126; and the cultivation is said to be resumed in Italy. Though some exports were

formerly described as from Portugal, little or no cotton grew there; and the exports of it thence came chiefly from Brazil.

[12] Some confusion has arisen from the different use or application of the word "cotton." It is said to be a word of Arabic origin (Smithers's History of Liv. 115); but the application sometimes of the word "linen," and at others of the word "woollen," to the vegetable of three or four general varieties, and which produces the wool or down now called "cotton," has led to some mistakes about its growth and use formerly in certain countries, which it is now difficult to correct. McCulloch's Dict. of Com. 436 and '8. Baines, 287 and '96, note 66. But it was probably grown and used largely in ancient times in Arabia, as well as India, America, and Africa, except perhaps in Egypt, where linen, it is supposed, chiefly superseded it, and can now be detected, but no cotton, in the clothing of the munimies, by the joints in the fibres of the stalk of the flax, being visible with a microscope, whereas the fibres of cotton from the pod have no joints. See Thompson's paper in Baines's appendix. London Cyclop. article "Cotton," contra. The kind of cotton chiefly cultivated now, and especially in the United States, is not the tree or shrub, but the annual and herbaceous varieties. London Cyclop. art. "Cotton."

B. COTTON, RAW.

Crop of cotton grown in-[1]-[2]

	Virginia.	North Carolina.	South Carolina.	Georgia.	Florida.	Alabama.	Tennessee.	Mississippi.	Louisiana.	Arkansas.
Years.	lbs.	lbs.	.lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1789	Millions.	Millions.	Millions.	${ m Millions}.$	Millions.	Mill'ns.	Mill'ns.	Mill'ns.	Mill'ns.	Mill'n.
1789 1790 1791 1792 1793 1794 1795 1796	L	_	: 12							
1797 1798 1799 1800 1801 1802	5	4	20	10			pad			
1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814	8	7	40	50	•	The state of the s	3		2	
1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824	12	10	50	45		20	20	10	.10	
1825 1826 1827 1828 1829	25	18	70	75	2	45	45	30	38	7
1830 1831 1832 1833 1834 1835	13	10 91	73 65 <u>§</u>	88.75	15 20	65 85	50 45	70 85	55 62	Read of the second seco

[1] I have not been able to find any official returns of either the General or the State Governments, which give the crops of cotton in each State. The present table has, therefore, been compiled from the best data in my power: such as the foreign exports of cotton from each State, the exports coastwise, the quantity supposed to be exported from each not grown within its limits, and the amount yearly consumed within its limits. Many mistakes are made abroad, and some at home, by considering all the exports of each State as its own crop, or by computing the whole foreign exports as the whole crop, or by estimating all the bales in the United States alike, and only at 300 pounds on an average. See such mistakes in Reuss's Tables on American Trade, 270; and Parliamentary Evidence on Manufactures, A. D. 1832.

But it is well known in this country, that the exports from New Orleans, both foreign and domestic, are composed in part of the crops of Louisiana, Arkansas, Tennessee, Mississippi, and Alabama. Part of the crops in each of those States is consumed at home, part is exported coastwise to the northern States, and the crops of the southwestern portion of Mississippi, and the southern portion of Alabama, are chiefly exported from Mobile. In addition to some of the above remarks, applicable to the other cotton growing States, it is proper to add, that part of the crop of Georgia is exported from Florida, and part from South Carolina: part of Florida from

Alabama; and part of North Carolina from Virginia.

For an explanation of some of the fluctuations in our exports in certain

years, see table A, note [3].

[2] From data given under the head of "Capital," in table C, note [3], it will be seen that, in producing the whole cotton crop of the United States, only about two millions of acres of land are cultivated. In table D it appears that all the foreign exports of cotton in the world do not probably exceed 535 millions of pounds, and of which the United States now export about 384 millions of pounds; a large portion of the residue is from the remotest parts of Asia, very little of it now coming to Europe. But if necessary or profitable, we could raise the whole of the other 150 millions, by putting into cultivation only about 500,000 acres more cotton land, and employing less than 100,000 more field hands in this branch of industry.

But supposing that Asia, from her distance and habits, continues to use chiefly her own raw cotton, that the increase of population in the United States should continue much as heretofore, and that the countries in Europe and elsewhere, now supplied with cotton manufactures made chiefly from our crops, should increase in population, or in the use of cotton, as fast as the United States does in population alone, and there would be required to supply the increased annual demand only about 21 millions of pounds more of raw cotton, or the product in the United States of less than 70,000 acres more each year. This has been nearly our average increase of crops in the last ten years. See table and note in extract from annual Treasury report. It has required about 11,000 more field laborers a year, or only $\frac{1}{4}$ th the annual increase of our whole population. But we probably have now, not in cultivation, more acres of land suitable for cotton, than would be sufficient to raise all the cotton now grown in the world; as that would require only three to five millions of acres. Hence it must be obvious, that there is good cotton land enough in the United States, and at low prices, easily to grow, not only all the cotton wanted for foreign export in the world, but to supply the increased demand for it, probably, for The only preventive, of which there is much likelihood, seems to

be in the augmented price of such labor as is usually devoted to this culture; so that it may not be possible to raise the crop at so low a rate as to

keep possession of the European market against all competition.

In getting possession of that market so fully and rapidly heretofore, (as shown in the extracts from the last annual report,) the United States have been much aided by the good quality of their cotton, the low price of land, and the great improvements in cleaning cotton by Whitney's cotton gin since 1793. One person is able to perform with it in a day the work of 1,000 without it. Cox's Digest of Manufactures, page 667; Gales and Seaton's documents, 2d volume. Besides these advantages, the unusual industry and enterprise of our population, and its freedom from taxation compared with the people of most other countries, and the wide extent of our commerce, have promoted our unprecedented progress. Baines's History, 301: 5 Malte Brun, page 193.

The old mode of cleaning it by wooden rollers, and with the bow by hand, is still used in India and Colombia, and it is there sown broad cast instead of in drills, and much neglected afterwards. Baines 64: see 3

Crawford's History, 350.

The great vibrations in the prices per pound of raw cotton grown in the United States, are very striking, as exhibited in table C. The influence of these on the sales of public land and our revenue, from both them and the imports of foreign merchandise, has been briefly examined in the last annual report, extracts from which are annexed. The further influence of these on the prosperity of the south, on the rise in the value of their slave property, and on the great profits yielded by all their capital invested in growing cotton, must be very apparent to every careful observer. The single fact, that in no year has the price been but a fraction below 10 cents per pound, or a rate sufficient to yield a fair profit, while it has, at times, been as high as 29, 34, and even 44, and been, on an average, over 16 cents per pound since 1802, and over 21 since 1790, is probably without a parallel, in showing a large and continued profit. Further details on these and similar considerations must be left to other persons and other occasions. [See table C, note 3.]

[3] In South Carolina, Georgia, and Florida, the Sea Island cotton, (supposed to have come originally from Persia, and in 1786 from Bahama to the United States) succeeds; but grows there to perfection only in certain districts near the seacoast. During the last 30 years the average annual crop has been between 9 and 11 million pounds. See exports and prices, and a table in Seybert, 152-3: Smithers's, 132. But the quality of a part of it is inferior. McCulloch, 436. It has taken the place in Europe of the fine cotton from the isle of Bourbon. London Cyclop. article "cotton," and is superior to that. Supplement to Cyclop. Brit. "cotton."

[4] The growth of cotton in the United States began as early as 1787, even of the sea island, and of other kinds earlier still, in small quantities. McCulloch, 440, says it began soon after the close of the war of the revo-

lution, though not exported till 1790.

T. Cox, cited in Rees's Cyclopedia, in article "United States," says cotton was raised here in gardens before 1786, but not by planters as a crop, and before 1787 we never exported a bale. [He means of our own growth, it is presumed. See table F, note 6.] We exported a little before 1787, viz: 1785, five bags; and in 1786 six bags; which Smithers's History of Liverpool, page 129, supposes was grown here, but see table F. note 9.

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C.—COTTON, RAW.

	/		Crop	of cotton	grown in-	—[1]			
	Prices	s per lb.		employed with grou			employed wing, and dent.	Value of crop	
rs.	United States.	England.	United States.	Egypt.	Brazil.	United States.	Elsewhere.	United States.	Elsewhere.
Years.	Cents.	Pence.	Dollars.	Dollars.	Dollars.			Dollars.	Dollars.
1789 1790	141	12 to 22 12 to 21		Millions.	Millions.	Millions.	Millions.	Millions.	Mil'ons.
1791 1792 1793 1794 1795 1796	26 29 32 33 36 36 36 36 34	13 to 30 20 to 30 13 to 22 12 to 18 15 to 27 12 to 29 12 to 37	31/3		. 33	1 2 0	1	1/3 .	403
1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808	39 44 28 44 19 19 20 23 22 21	22 to 45 17 to 60 16 to 36 17 to 38 12 to 38 8 to 15 10 to 18 14 to 19 12 to 15 10 to 14 9 to 30	80	-	50	10	· ·	8	39‡
1809 1810 1811 1812 1813 1814 1815 1816 1817 1818	16 16 15½ 10½ 12 15 21 29½ 26½ 34	10 to 18 10 to 19 7 to 14 11 to 14 16 to 26 28 av'rage 20\frac{1}{2} \frac{1}{4} \frac{1}{4} 20 \frac{1}{4} \frac{1}{4}	131	1 0	58	. pol (**)	7 3	121	37
1819 1820 1821 1822 1823 1824 1825 1826 1827	24 17 16 16½ 10 & 12 15 21 11 91 10½	135 " 112 " 95 " " 84 " " 85 " " 112 " " 63 " " 63 " " 63 " " 63 " " 63 " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " 63 " " " "	200	- 11 - 12	83	**************************************	7-12	29‡	37
1829 1830 1831 1832 1833	10 10 9 ¹ / ₄ 10 11	5% (6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	650	30	58	ट्यंब	3.	381	29‡
1834 1835	13 16½	8½ ((12½ ((800	31	50	ī	4 to.1	76	$36\frac{1}{4}$
		[2]	[3]			[4]		[5]	

17

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[1] From 1802 to 1826, inclusive, the prices for the United States are taken from Marshall's tables, page 110. Since that date, from official returns.

The prices, given for the United States, are those at the places of exportation, and are the average during the year, and including all kinds of cotton: but the sea island cotton is worth usually two hundred and fifty per cent. more than the other kinds (see below in note 2); and formerly the difference was still greater, when the amount grown elsewhere was not so large. The price of cotton for 1790 is from the Treasury report, 15th February, 1791. The prices from 1791 to 1801, inclusive, are from Almy and Brown's books at Providence, deducting one cent per pound for freight, &c. The prices of raw cotton from 1789 to 1802, in the United States, fluctuated largely, and are quoted somewhat differently in some of the prices current during those years. See the United States Gazette and Pennsylvania Mercury for that period. But the differences are not great if an average be taken for the whole year.

Where rich lands and labor were low, as in Mississippi and Alabama a few years ago, two cents per pound for cotton in the seed, or eight cents when cleaned, would pay expenses. It is supposed to be a profitable crop in the southwestern States at ten cents per pound. In Baines's History of Cotton, page 316, it is stated that the planter can make a profit at six

cents per pound.

In India, the Bengal cotton, of inferior quality, it is said, can be raised for three cents per pound, and delivered in England for five cents. See evidence on East India Company, 1832, page 286, appendix: Smithers's History of Liverpool, 116. It has since been said, that it will cost five cents per pound to deliver it on the wharves at Bombay. It sold in India, in 1831 and 1832, at eight to nine cents per pound. See McCulloch's Dictionary, page 238. In 1820, in 3 Crawford's History, 351, it is said to bring from eight to nine cents in the Indian islands.

[2] The prices in England are given in pence, as they are so much oftener referred to in that form, but can easily be converted into cents; estimating the pound sterling at \$4 80; by doubling the number of pence. They are generally the prices at Liverpool; and from 1793 to 1797, and from 1799 to 1814, are from Tooke on Prices, page 11, appendix; and are of "Georgia bowed cotton," without the duty. The rest, except from 1789 to 1793, and 1834 and 1835, are from Marshall's tables, page 114; and Baines, page 352–3: differing in some cases a little, and in Marshall giving the prices of each kind of cotton separately. See a table in Smithers's History of Liverpool, page 149. Those from 1789 to 1793 are from Paines, page 313, and are of West India cotton; and for 1834 and 1835, the Liverpool reports have been the guide.

As an illustration of the difference in value of different kinds of raw cotton, I annex a statement of their prices at Liverpool. June 16, 1835:

						A.				d.		d.
Uplands	-	wa	_		_		dipoli .	-	from	10	to	123
Orleans	-		÷	~	-		-	-	66	10	10	13
Alabama		-	-		-		÷ ,	~	65			
Sea Island		-	÷		*			**	\$\$ <			
Brazil	*	-	~	•	**		-	-	4.2	13§	to.	16

2

							d.	d.
Surats -	-	-	-	-	-	from	7 to	$8\frac{3}{4}$
Bengal -		-	-	-	~	"	$7\frac{1}{2}$	_
Laguyra -	-	-	-	-		44	$13\frac{1}{2}$ to	
West Indies	ž.	eto	-	-		"	$12\frac{1}{2}$ to	$14\frac{1}{2}$

See more on Prices in Edinburg Review, 427, (1832.) McCulloch, page. The finest kinds of sea island often bring four times as much as the inferior qualities. McCulloch, page 437. In 1799 it sold in Liverpool for five shillings per pound. Smithers, page 156. At Smyrna, before 1767, the price appears to have been six or seven cents per pound. At the river Gambia the price per pound is Postlewait's Dictionary. Montgomery's Colonial History. In Demarara the about four cents. price (in 1815) is said to average about nine to ten cents per pound. Edinburgh Encyclopedia, article "cotton." In Colombia in 1822 the price per pound was about the same as in the United States, but it fluctuates there and in other Spanish American Governments from eight to fifteen cents a pound, with the quality and the year. See Humboldt and Mollier's Travels.

[3] Capital. The capital employed in growing cotton, with the income it yields, is a question of much interest and importance. But very little can be found concerning it in books, and the information obtained on it from different correspondents in the United States is defective, and is founded on quite different data in different States and by different persons.

The elements of any computation must be, the average cost per acre of cotton lands, wild or cleared, and if the former, the expense of clearing them; the amount of labor necessary per acre to produce a given quantity of raw cotton; the cost of labor, whether in the form of wages or otherwise; the expense of tools, horses, &c. with salaries of overseers, taxes paid, &c. &c.

One mode of making the computation is as follows: The average cost of cotton lands when wild, in the old States, did not probably exceed often half a dollar per acre, including fees for patents, &c. In the new States it has generally ranged from \$1 25 to \$20 00 per acre, depending on its quality, location, and the price of cotton. The actual settlers, in purchasing of capitalists, have generally been compelled to give an advance from 50 to 100 per cent.; some times much more.

The expense of clearing wild land averages from ten to fifteen dollars per acre. Land in a condition to be cultivated, will, on an average, in the United States, yield from 250lbs. to 300lbs. of clean cotton. In the old States, 125lbs. clean, or 500lbs. in the seed is an ordinary crop. (Cooper's Polit. Econ. p. 96.) Cox, in 1810, estimated it at 138lbs. and others at 120lbs. (Rees's Cyclop. art. "United States.")

It is believed, that one field hand or laborer, with the aid hereafter named, can cultivate, on an average, eight acres. Some say five to seven, and others ten. He will at the same time assist in raising five to eight acres of corn.

It is usual to employ in this business slave labor, and the next element in the calculation must be the capital invested in slaves for this purpose, and the annual cost of their maintenance.

The price of field hands has nearly or quite doubled in ten years; and they now often cost eight hundred or one thousand dollars, when formerly four and five hundred dollars were the usual rate each.

The maintenance of them is another item very differently computed. Sometimes it is done by the purchase of more land and cultivating it, put-

ting stock on it of cows, sheep, &c. so as, with the aid of other slaves, kept partly for that purpose and partly for the culture of cotton, to raise corn, pork, &c. to feed, and other materials to clothe the whole. In such case the additional land put in cultivation, the additional slaves bought, and the stock on the plantation, &c. must be considered as so much more capital.

The additional slaves in such case, being more youthful, or more aged ones, or infirm females, may be fairly computed at an equal number with the field hands, but costing only about halt the price. The additional land should be for cultivation, about twenty acres for each field hand. The capital in oxen, horses, sheep, tools for husbandry, &c. about thirty

dollars to each slave on the plantation.

To these must be added the capital which may be deemed temporary, and not as a permanent investment, and hence is to be all yearly returned, such as expense for extra clothing not made on the plantation, for medicine, overseers, tools for labor, taxes, freight, &c. which may be forty-five dollars to each slave.

Differing from these last data, in some respects, in substance, and wholly unlike in form, is another mode of computing all the capital invested except that in the mere cotton lands. Instead of estimating the price of slaves, &c. it may be considered that slave labor could be hired, with food, clothing, medicine, &c. at a cost for each field hand from one hundred to one hundred and twenty dollars per year. That from thirty to forty dollars each would defray the annual expense of overseers, tools, horses for each, and that the additional and equal number of slaves, not prime field hands, could be hired and supported for less than half the annual cost of the others.

On these data the cotton crop, as estimated for 1835, at 480 million pounds, would grow on 1,600,000 acres at 300lbs. per acre, or 1,920,000 at 250lbs. each. Considering that some lands wear out quick and are changed, probably the whole quantity cultivated for cotton in the United States, at this

time, should be estimated at two millions or more of acres.

From the above elements the whole capital invested in growing the cotton crop in the United States can be readily computed. On one hypothesis, converting the whole capital into that which is permanent, and partly invested in lands, slaves, and tools, as fixed capital, and partly invested in bank or other stocks, or in loans so as to yield an income, and not a capital sufficient to defray those kinds of expenses which are usually deemed temporary, and are yearly remunerated, or require what is called a circulating or floating capital, and the whole will amount to more than 900 millions of dollars. On another hypothesis, considering the capital, as it generally is, divided into fixed and circulating; the capital as fixed, which is invested in lands, slaves, stocks of horses, tools, &c. and only about thirty millions of dollars for other expenses, as circulating or temporary, and to be itself, and not its income or interest, used and repaid yearly, and the whole capital of both kinds will not quite equal 800 million dollars.

This last amount accords nearly with a still different mode of testing the quantity of capital, by supposing that the whole crop of 480 million pounds, at ten cents per pound, being 48 million dollars, would yield six per cent. on all the money invested in any way in raising the crop. If the capital used was all permanently invested, it would, on this hypothesis, amount to near 800 million dollars; but as from 25 to 30 million dollars is

temporarily invested, and must itself be repaid yearly, the whole may, in the usual mode of treating of capital employed in such business, be con-

sidered rather under than over 800 million dollars.

That amount, however, has been assumed as about correct, in the table, and is near enough for the estimate and comparisons at different periods in this country, and at the same period between this and other countries. In others, as in India, Brazil, and Egypt, the cost of labor is less, and perhaps the value of land, though the latter is doubtful; and the crop per acre, and the amount of labor performed by each hand, is believed to be less, inde-

pendent of the failure there to use much the improved cotton gin.

Here, at 250 pounds per acre as an average crop, and eight acres an average cultivation by one hand, the product would be 2.000 pounds per hand, or at ten cents per pound, would be the average of two hundred dollars per field hand. All the planter obtains over ten cents per pound would yield him a large rate of interest above 6 per cent. to pay for the greater risk and uncertainty of capital invested in this species of property. (See table B, note 2.) The whole crop of 1834 was probably worth 75 million dollars at the actual market prices, though at 10 cents per pound only 48 millions.

It is difficult to institute any just comparison between the profits of capital invested here in the growing of cotton, and in the manufacture of it; as in the latter so much more in proportion is invested in temporary or circulating capital to pay for wages and stock, and the whole of which is to be

annually repaid. Neither have I leisure for the details.

Indeed it might have comported better with the technical language of political economy to have divided the whole expenditures in raising cotton into three heads, viz: labor, capital and land; to yield in return, wages for the labor, profit or interest on the capital, and rent for the land. (See Senior's Outline of Political Economy, page 165, from the Encyclopedia Metropolitana.) It will be easy, for those who prefer it, to throw the calculation into that form; but the results then, would not be such as accord best with the views proposed in this part of the table C; which are, to present to the community here, in plain terms, and in a form as intelligible as possible to people at large, the amount of capital actually employed at different periods in growing the cotton crop in the United States: whether invested in the original purchase of lands, the clearing, or the culture of them; in the purchase of slaves, or in procuring an income for the payment, or in the actual payment of wages of free labor to raise the crop; for buying seed, tools, food, raiment, horses, &c. and for payment of taxes, overseers, or any other expense, incidental or direct, connected with the production of the crop.

Two brief statements of a very general character are subjoined, in illus-

tration of some of the above remarks.

six per cent. of

1st. The capital invested in cotton lands under cultivation, at two million acres, and worth cleared, on an average, \$20 per acre, is - \$40,000,000. The capital in field hands, and in other lands, stock, labor, &c. to feed and clothe them, at \$100 per year, on 340,000 in number, would require the interest or income of a capital, at six per cent. of - - - 544,000,000. The maintenance of 340,000 more assistants, &c. at \$30 cach per year, would require the income of a capital at

167,000,000

Amount carried over The capital to supply enough interest or income to pay for tools, horses for ploughing cotton, taxes, medicines, over-	\$751,000,000
seers, &c. at \$30, for the first 340,000, would be -	167,000,000
Making in all a permanent capital, if so used, equal to	\$918,000,000
2d. The capital in cotton lands, as stated above Capital in the purchase of 340,000 field hands, at \$800 each,	\$40,000,000
on an average Capital in the other 340,000 to aid, and to raise food, clothing,	272,000,000
&c. at half price	136,000,000
Capital in horses, cattle, sheep, utensils, &c. for plantation, about \$30 to each person, to aid in making food and	
clothing, &c	20,400,000
acres to each of the 680,000, worth \$20 per acre cleared Capital, temporary, or floating, to buy clothing not made on	272,000,000
plantation, pay taxes, overseers, freight, tools for cotton, &c. \$45 to each	30,690,000
	\$771,000,000

Making, in all, about \$740,000,000 of capital permanently invested or

fixed, and about \$30,000,000 temporarily or circulating.

The crop in Demarara, per acre, is said to be 400 pounds clean. Edinburgh Encyclopedia, article "Cotton," 1815. But, in another place, the crop in Guiana is computed, on an average, at only 200 pounds, and costs

14 cents (or 7d.) per pound to raise it.

The capital, per acre, invested there in land, buildings, slaves, &c. is computed for 1814, at about \$730, which is nearly double the amount computed above for the United States. (See same book.) He states also the cost of cotton land in Louisiana at about \$12½ per acre, slaves at \$430 each, and assigns 30 for a plantation of 600 acres and over; horses and sheep for same, costing about \$2,250, or \$75 for each slave. Those 30 slaves will raise 1,000 pounds of cotton each; (and, it is presumed, maintain themselves from the land not in cotton, and stock on it.) The annual expenses of overseers, physician, tools, clothing and taxes, with freight of cotton to market, are computed at about \$1,350, or \$45 each per year; which, deducted from the price of the cotton, valued at 21 cents per pound, or about \$6,450, leaves about \$5,100 as a return on the original investment of about \$22,500, (or at the rate of nearly 25 per cent.) viz:

600 acres at \$12\frac{1}{2}\$ per acre	-	-	-	-	-	\$7,500
30 slaves, at \$430 each	-	***	· ·	-	-	12,900
Horses, sheep, &c	••	-	-	-	-	$2,\!250$
						\$22,650

[4] The number of persons is computed on similar data and principles to those suggested in the first mode of estimating the capital. Some allowances are made in certain cases, but for comparison there has been pre-

served similar proportions in all the years for which the computation is carried out in the table.

Thus two millions of acres, at one field hand to every six acres, would require about 340,000 laborers: but many compute that the number in the United States is over 550,000, who are chiefly, though not entirely, engaged in field labor. Suppose the whole number to be double the field hands, as above computed, or 680,000, who are engaged in field labor, picking and otherwise assisting in the cultivation of cotton and corn, and the estimate of laborers is complete at about 680,000. But allowing that a number more should be added, who are connected with the cultivators, as infirm women, very young children, and too aged persons, &c. unable to labor in the field, besides overseers, owners and their respective families, dependent on the cotton crop, and it is presumed that then, a million of persons would be considered as now engaged in the United States, directly and indirectly, in the growing of cotton: but the actual laborers are only about two-thirds of that number.

The numbers are, for comparative views, in all other countries stated on the same principle, though they are doubtless more, in most nations, to raise the same quantity of cotton for reasons too obvious for recital, and especially where the saw gin and horse power are less used.

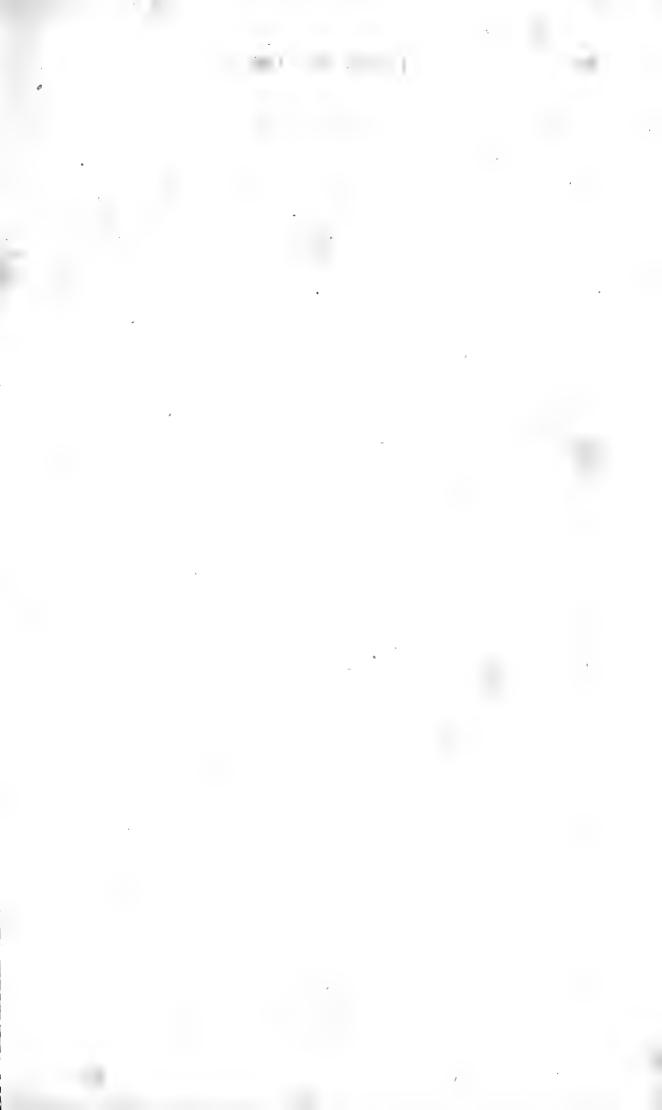
[5] The whole value is computed from the quantity of the crop in any particular calendar year, and the price it bears here the next calendar and

fiscal year, which is the time most of it is sold.

The whole value of what is grown elsewhere is computed from the number of pounds, as estimated in table A, and rating it, on an average, at only one-half the value per pound, at the different perods which the American cotton, on an average, then bore at home. Considering the qualities of each, their cleanliness, distances from a foreign market, the great proportion of it in Asia, &c. this is supposed to be a high enough value. See prices (note 2 above, and note 1) in India, and in Liverpool, of different kinds of cotton. Our cotton is of a better species, and better cleaned, &c. See 3 Crawford's Hist. of Ind. Arch. 350 to 360. Though in 1791, its

y was considered so inferior, that it was supposed foreign cotton must be imported to supply factories. Gales and Seaton's Document, vol. 1.

Finance, page 142.



[Doc. No. 146.]

D. COTTON, RAW.

Exports of cotton from—[10] [11]

	United States.	Egypt and Turkey.	Brazil.	India.	West Indies.	Spanish America.	Elsewhere
Years.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1770	2,000	[8]					
	Millions.	Millions.	Millions.	Millions.	Millions.	Millions.	Millions.
1789	4						
1790	10		20		12		
$\begin{array}{c} 1791 \\ 1792 \end{array}$	15 17 15 15 15 15 15 15 15 15 15 15 15 15 15	-	20	-	12	-	
1793	1						
1794	$1\frac{2}{3}$	-	_	-	-	1	
1795	$6\frac{1}{4}$		-	20			
1796	$\begin{array}{c} 0_{\frac{4}{3}} \\ 6_{\frac{1}{10}} \\ 3_{\frac{4}{3}} \\ 0_{\frac{1}{3}} \end{array}$						
1797	$3\frac{4}{5}$						
1798	$9\frac{1}{3}$						
1799							
1800	$17\frac{1}{5}$		0.4	200	70 1997		
1801	$\frac{20^{\frac{9}{10}}}{27^{\frac{1}{10}}}$	- -	24	30	17	991	7
L802 L803	$\begin{array}{c} 27\frac{\mathrm{i}}{2} \\ 41\frac{\mathrm{i}}{2} \end{array}$	[2] -	-	-	-	$22\frac{1}{2}$	
1804	$\frac{41\frac{1}{10}}{38\frac{1}{10}}$						
1805	$40\frac{1}{3}^{\circ}$			$41\frac{1}{2}$			
806	$37\frac{3}{5}$	1		112			
807	$66\frac{2}{5}$						
808	12 1						
809	531						
810	93^{-9}_{-9}						
811	021		31	••	7	**	13
812	29						
813 814	$egin{array}{c} 192 \ 17rac{4}{5} \ 83 \ 81rac{4}{5} \ 85rac{2}{5} \ 92rac{3}{2} \ 88 \ \end{array}$				the state of the s		
815	83						
816	814						
817	$85\frac{5}{2}$				1		
818	$92\frac{3}{10}$						
819	882				-		
820	1274						
821	$127\frac{4}{5}$ $124\frac{9}{10}$ $144\frac{7}{10}$ $173\frac{7}{10}$ $142\frac{2}{5}$ $176\frac{1}{2}$	$5\frac{1}{2}$	28	50	9	-	(
822	$144\frac{7}{10}$	$5\frac{1}{2}$ $4\frac{1}{2}$					
.823	$173_{7\overline{5}}$	11					
824	$142_{\frac{2}{5}}$	14					
1825	1761	-	-	75			

D—Continued.

COTTON, RAW.

Exports of cotton from-

	United States.	Egypt and Turkey.	Brazil.	India.	West Indies.	Spanish America.	Elsewhere.
Years.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1826 1827 1828	Millions. 204½ 294 210	Millions.	f Millions.	Millions.	${f M}$ illions.	Millions.	Millions.
1829 1830 1831 1832 1833	$\begin{array}{c} 264\frac{3}{4} \\ 298\frac{1}{2} \\ 277 \\ 322\frac{1}{4} \\ 324\frac{1}{3} \end{array}$	$\begin{array}{c} 19 \\ 20\frac{1}{2} \end{array}$	39 37	[5] 68 70	10 12	17 10	4 4
1834 1835	$\frac{324\frac{5}{2}}{384\frac{3}{4}}$	23	30	80	8	7	. 3
[1]	[2]	[3]	[4]	[6]	[7]	[8]	[9]

- [1] The exports of cotton, or, in other words, the foreign trade in raw cotton, in the whole world, is small compared with the whole growth, manufacture, and consumption of that article. It probably does not exceed 535 millions of pounds, and of that the United States export about 384 millions of pounds, or almost three-fourths. Our exports each year have not always corresponded with that part of the crop of the previous year not consumed at home, as in 1808, 1812, &c. commercial restrictions and war caused the stocks on hand to accumulate, and the high prices in some other years have left much less on hand here than usual.
- [2] Before 1802, the exports of cotton did not appear on the custom-house books so as to show what was of foreign and what of domestic growth; and hence, before that year, and occasionally since, to 1825, one or two millions a year of our exports may have been the growth of India or the West Indies. Seybert's Statistics, pages 152 and 257, and see table B, note [4]. See when first begun, table F, note [9]. See amounts for some years, Seybert, 152 and 4.
- [3] From 1821 to 1824, inclusive, from Egypt. See Urquhart on Turkey, page 179. The amount is too high, if the bag or bale was computed as it is now, at 218 pounds instead of 98, as formerly. No exports were from Egypt before 1820; but previously the supplies in England were in a considerable ratio from Smyrna and other parts of Turkey. See table F and London Cyclopedia, article "Cotton," and Edinburgh Encyclopedia, "Cotton." See table A, note [6]. Her exports for 1835, as well as 1834, are said to be diminishing.

- [4] A great part of this is from the northern provinces of Brazil, and includes most of her crop. See Walsh's Travels in Brazil. From one-half million to one million is exported from Rio and Bahia. From 1809 to 1813 from 50,000 to 75,000 bags, averaging 180 pounds each, were exported from Maranham alone, and about two-thirds to three-fourths of it to England, (1 Koster's Travels, page 227). From Pernambuco, the exports of raw cotton were, from 1808 to 1813, on the increase, from 26,877 bags to 65,327. See Koster's Travels, page 146—note. See Smithers's Tables in History of Liv. The exports from Brazil were often formerly described to be from Portugal, as she was a dependency, and as most of it was under her colonial system shipped first to Portugal, and then re-exported. Little or none was raised in the mother country. London Cyclop. art. "Cotton." Coffee and sugar are taking the place of cotton in her exports.
- [5] The exports for 1830 from all places except the United States, are given partly from data in Pitkin's Stat. 484, which show that from India to all Europe in that year they were about 25 millions of pounds; from Egypt and the Levant about $18\frac{1}{4}$ millions of pounds, and from Brazil and West Indies about $49\frac{1}{2}$ millions of pounds. Due additions have been made to these for exports elsewhere than to Europe.
- [6] Of this from India, 60 millions of pounds were shipped from Bombay, and most of the rest from Calcutta. Evid. on East Ind. Comp. pages 13 and 287, appendix, 1832, A. D. See 1 Milbourn's Orient. Com. It is supposed that the exports of cotton from India will increase rapidly as her trade is more free since 1833, though less restricted than formerly since 1823. I Smith's Com. Digest, page 15.

Most of the raw cotton of the India islands has been consumed where raised. McCulloch, page 437. The quantities for all the years except 1805 and 1825, are estimates made by knowing the amount of exports to England and the United States, with those in some of the years to China.

In London Cyclopedia, article "Cotton," the exports from India to China alone, in 1818, are stated at 230 millions of pounds, which must be an error, or all the other computations, as to both crops and exports, are much too low in regard to India.

- [7] The exports from the West Indies sometimes exceed their whole crop, as it is imported from the Spanish Main, and re-exported. See table A, note [5]. Colquhoun, page 378, says sometimes double. In 1793 they exported to England considerable cotton grown in the United States. Smithers, page 156. See more on their exports, table A, note [5].
- [8] The exports of cotton from Spanish America in 1802, were chiefly from Vera Cruz, collected there from other places. 1 Dict'y of Span. Com. and Finance, pages 63 to 69. From 1804 to 1810 about $5\frac{1}{3}$ millions were shipped from Venezuela yearly, (Mollier's Travels in Colombia, 455—note,) and half a million from New Granada. Ditto, 456—note. From Laguyra, in 1823, about one-fourth of a million exported. Hall's Colombia, page 152. In 1822, about one-half of a million exported from Caraccas, and $1\frac{1}{2}$ millions of pounds from all the Spanish provinces. 2 Hist. of Colombia, 1822. The exports for 1834 are an estimate of my own.

Those for 1794 are from 4 Humboldt's Personal Narrative, page 125—note,

of which very nearly half was from Laguyra, (3 do. 192, 6 do. 202,) and $2\frac{1}{2}$ millions of pounds before the revolution, exported from Varagua, Maracaibo, and the Gulf of Cariaco.

See table F, note 9, as to the exports from English territories in America before the revolution, and which were probably grown in the West Indies

or Spanish America.

[9] Among the places not enumerated which have exported some cotton, it is said in Montgomery's Hist. of Brit. Col. page 604, that 14,900 pounds of raw cotton were exported from the river Gambia, in 1833.

In 1775 there was exported to Holland alone from Surinam one-eighth of a million of pounds. 2 Dict'y of Spanish Com. Smithers's Hist. of Liv.

The countries more particularly included under "Elsewhere," though not all, and about which much is known of their exports in cotton, are Demarara and Berbice. See imports into England, table G. The data as to exports from Brazil, West Indies, and "Elsewhere," in last column, are chiefly the ascertained imports from those enumerated places into other countries. From Naples and Spain some cotton was, in 1817, exported to France. 2 Chaptal, page 6. But probably most of the growth of other places. See table A, note [9].

- [10] The cost of exportation or freight from the United States to Europe, is usually less than two cents per pound. Smithers, page 139. Even this has been reduced by the improvements which mark the spirit of the age, as the cotton is so pressed in the bales that it occupies less space in a vessel, and the vessels in this trade are so constructed as to carry more when of the same tonnage.
- [11] A small duty is imposed on it in England and France. Baines's His. 317 and 515. Yet in 1769 it was made free to aid the manufacturer. 3 McPhers. Com. 447. But the duty on raw cotton is remitted or allowed in drawback, on exportation of the manufactured article in England, Pebrier says in his tables, in his work on England, though not if the raw article is re-exported. 3 McPherson on Com. page 659. The duty was 6 per cent. ad valorem in England for some years before 1831 on foreign cotton, then raised to 5s. 10d. per cwt. (1 Com. Dig. page 16, by Smith,) and in 1833 reduced to 2s. 11d. per cwt. On cotton from a British possession, the duty is only 4d. per cwt. See McCulloch, page 440. But formerly, as in 1799, it was from 8s. 9d. per 100 pounds, to 12s. 6d. from different places; and from 1803 to 1815, from 16s. 10d. to 33s. 10d. See a table in Edinb. Encyclop. article "Cotton."

The duty in the United States on foreign cotton imported here is, and always has remained since 1790, at 3 cents per pound. Though Mr. Hamilton recommended its reduction in 1791, to aid our manufactures. See

Rep. Dec. 30, 1791.

The duty in France varies, under various circumstances, from 10 to 16 per cent. See McCulloch, page 639, "Havre," and 2 Com. Dig. 73, by Smith.

There is said to be no duty on raw cotton in Switzerland. In England, in 1833, it is stated to be 3 farthings per pound, or 10 per cent. West. Rev. for April, '33.

[Doc. No. 146.]

E. COTTON, RAW.

	Exports of cotton from—								
ý	Louisiana.	S. Carolina.	Alabama.	Georgia.	New York.	N. Carolina and Virginia.	Rest of the U. States.	Whole value.	
Years.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	Dollars.	
1789	Millions.	Millions.	Millions.	Millions.	Millions.	Millions.	Millions.		
1789 1790 1791 1792 1793	-	3	-	-	-			48,285 52,000 51,470 160,000 Millions.	
1794 1795 1796	-	unique digitare			-		-	21	
1797 1798 1799			-	-		- - -	-	$ \begin{array}{c} 2\frac{3}{16} \\ 1\frac{1}{4} \\ 3\frac{1}{4} \end{array} $	
1800 1801 1802 1803		10 - -	-	3 -		5 - -		. 5	
1804 1805 1806	-	-			-	- -	-	754 754 912 81	
1807 1808 1809 1810	- - - 5	- - - 40	-	- - - 20	- 10	15	- - 4	910 514 724 944 944 144 214 810 154 944 944	
1811 1812 1813	_	-		-	- - -	-	- - -	9 <u>1</u> 3 2 <u>1</u>	
1814 1815 1816 1817		-	- -		-		-	$egin{array}{c} 2rac{1}{2} \ 24rac{1}{2} \ 22rac{1}{2} \end{array}$	
1818 1819 1820	$\frac{1}{30}$	- 37	- - 8	- 25	28	- 6	- 3	31 _‡ 21 22 _‡	
1821 1822 1823 1824	-	_		-	_		-	$20\frac{1}{4}$ 24 $23\frac{1}{4}$ $21\frac{3}{4}$	
1824 1825 1826 1827 1828	-		_		-	-	-	$rac{38rac{2}{4}}{25}$	
1828 1829 1830 1831 1832	$\frac{-}{120\frac{1}{3}}$		24	- - 49	$\frac{1}{37\frac{3}{10}}$	1111	2	22½ 26½ 29¾ 25¼	
1832 1833 1834 1835	164	- - - 67‡	- 51½	- - 5613	303	1113	3	31‡ 36 49½	
1835 [1]	-	[2]	-	-		gan.	-	61½ [3]	

[1] The exports from each State are the foreign ones, and for 1830 and 1834, from official data; but prior to that they are estimates from the crop, consumption at home, &c.

See table F, note [6], as to some exports before the revolution.

The first cotton supposed to be of American growth, brought to New York city, for foreign export, it is said, came from Savannah in 1792, and consisted of only two bags. The amount of exports coastwise has not been ascertained, for reasons stated in the report. Those for foreign countries from any particular State often include more than the crop of that State, as from New York, which raises no cotton, and from Louisiana which raises but a small part of her exports. See table B, note 1.

[2] The portion exported of sea island cotton, was, in 1834, 8,085,935 pounds, and in 1835, was 7,752,736; and was chiefly from South Carolina

and Georgia. See official returns.

Its cultivation was, as remarked in a former table, introduced into South Carolina as early as 1787, from Bahama, and the export of it during the last 20 years has been on an average not far from 8 millions of pounds. It may be cultivated more extensively, it is supposed, in Florida. See prices in table C and notes, and B, note 3.

It is now exported chiefly to England, say seven-ninths, over one-ninth to France, and the rest elsewhere. See McCulloch, page 440. It has taken

the place of the fine cottons formerly from the isle of Bourbon.

See a table of exports of it from 1802 to 1816, inclusive, going in some years to nearly 10 millions of pounds, and to others short of one million; but, as before named, being generally about 8 millions of pounds. Seyb. Stat. pages 152 and 4.

[3] The value has been computed from the quantity and average price through each year, so far as obtainable from official data.

In Seyb. Stat. page 147, is a table of the values from 1803 to 1817,

inclusive.



[Doc. No. 146.]

F. COTTON, RAW.

	_		
Exports o	f. to	what	places.

Exports of, to what places.											
	U. States to England.	U. States to France.	United States to other places.	India to England.	India to China.	Brazil to England.	West Indies to England.	Braziland West Indies to France.	Egypt and Turkey to	Egypt and Turkey to France.	All other places to England.
Years.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1770 1787 1789 1790 1791	$\begin{array}{c} 2,000 \\ -\\ \text{Ratio of her imports from U. S.} \\ \hline 1 & \hline{0} & \overline{0} \\ \hline 1 & \overline{1} & \overline{0} \\ \hline 2 & \overline{1} & \overline$	[9]	Mil's	Mil's. 1 13 15 24 13 14 2 14 25 14 25 15 15 16 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16		Millions. Aillions Trom Braz. Aillions Trom Braz.	Mil's. 623 Ratio. 1312121221221221221221221221221221221221		Mil's. 52/3	Annual Control of Management of the Control of the	Mil'ns. 73/4 [8]
1812 1813 1814 1815 1816 1817 1818 1819	$egin{array}{c c} 26 \\ - \\ \hline 452 \\ \hline 573 \\ \hline 51 \\ \hline 581 \\ \hline 513 \\ \hline 4 \\ \hline \end{array}$	$ \begin{array}{c c} \hline $	- 3	- - - 6 -		· edia edia edia — [4]:—[60~[60]:—[62]:—[58]	$\begin{array}{c c} \hline 1 & \hline 0 \\ \hline 1 & \hline 0 \\ \hline 1 & \hline 1 \\ \hline 2 & \hline 9 \\ \hline 2 & \hline 3 \\ \hline 1 & \hline 1 \\ \hline 1 & \hline 1 \\ \hline 2 & \hline 9 \\ \hline 2 & \hline 3 \\ \hline 1 & \hline 1 \\ \hline 1 & \hline 1 \\ \hline 2 & \hline 4 \\ \hline 2 & \hline 4 \\ \hline 3 & \hline 5 \\ \hline 2 & \hline 1 \\ \hline 5 & \hline 2 \\ \hline 1 & \hline 1 & \hline 1 \\ \hline 2 & \hline 4 \\ \hline 2 & \hline 1 \\ \hline 5 & \hline 2 \\ \hline 1 & \hline 1 & \hline 1 \\ \hline 2 & \hline 4 \\ \hline 2 & \hline 1 \\ \hline 5 & \hline 2 \\ \hline 1 & \hline 1 & \hline 1 \\ \hline 2 & \hline 4 \\ \hline 2 & \hline 1 \\ \hline 5 & \hline 2 \\ \hline 1 & \hline 1 & \hline 1 \\ \hline 2 & \hline 1 \\ 2 & \hline 1 \\ \hline 2 & \hline 1 \\$			es) op Genom spresten stilleperstyllmentemen digentalpendyllmentet	

F—Continued.

COTTON, RAW.

Erno	rte	of	to	what	nl	2006
EADO.	TIS.	OI.	ro.	wnati	w	acces.

	U. States to England.	U. States to France.	United States to other places.	India to England.	India to China.	Brazil to England.	West Indies to England.	Brazil and West Indies to France.	Egypt and Turkey to	Egypt and Turkey to France.	All other places to Eagland,
Years.	lbs	Hrs.	lbe.	the.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	164.
1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 [1]	M.llions 90 93½ 101 142½ 92 140 131 217 151¾ 157 211 205½ 266¾ 252	Milliens. $ \begin{array}{r} 27\frac{1}{3}\\ 21\frac{1}{2}\\ 25\\ 40\frac{1}{2}\\ 30\\ 62\frac{1}{3}\\ 70\frac{1}{2}\\ 67\frac{1}{2}\\ 75\\ 46 \text{ or } 50\\ 73 \text{ or } 77\frac{1}{3}\\ 79\frac{1}{3}\\ 100\frac{1}{3}\\ [2]$	$\begin{array}{c} \text{Mil's.} \\ -934623 \\ -934623 \\ -121423 \\ -121424$	$\begin{array}{c} \text{Mifs.} \\ 23 \\ 9 \\ 4\frac{1}{2} \\ 15 \\ 16\frac{1}{2} \\ 20\frac{1}{4} \\ 21 \\ 20 \\ 32\frac{1}{4} \\ 25 \\ 12\frac{1}{2} \\ 26 \\ 35 \\ 32\frac{1}{4} \\ 42\frac{1}{2} \\ [3] \end{array}$	- - - - 25 (qu.) - 66½	$\begin{array}{c} 29 \\ 19\frac{1}{2} \\ 24\frac{3}{4} \\ 23\frac{1}{2} \\ 25 \\ 25 \\ 33 \\ 9\frac{4}{5} \\ 29 \\ 29 \\ 33 \\ 31\frac{1}{2} \\ 20 \\ 28\frac{1}{2} \\ 18 \\ \end{array}$	$\begin{array}{c} \text{Mil's.} \\ 6^{\frac{8}{1}} \\ 7 \\ 10^{\frac{1}{4}} \\ 7 \\ 6^{\frac{1}{4}} \\ 8 \\ 4^{\frac{3}{4}} \\ 7 \\ 6 \\ 4^{\frac{1}{5}} \\ 2^{\frac{1}{5}} \\ 2 \\ 2 \\ 4 \\ [7] \end{array}$	Mil's	$\begin{array}{c} \text{Mil's.} \\ \frac{1}{4} \\ \frac{3}{4} \\ \frac{1}{4} \\ \frac{3}{4} \\ \frac{4}{1} \\ \frac{1}{3} \\ 7 \\ 7 \\ 19 \\ 10 \\ 5 \\ 7 \\ 6 \\ 3 \\ \frac{4}{10} \\ 8 \\ 9 \\ 1 \\ 1 \\ \frac{1}{2} \\ \frac{1}{3} \\ \frac{4}{10} \\ \frac{1}{10} \\ \frac{1}{$	Mil's.	Mill'as 2 2 2 7 1 122 1 2 1 2 1 2 1 2 1 2 1 2 1

[1] The exports to England from different places are given chiefly from Marshall's tables, page 110; London Cyclop. article "Cotton." As to those from the United States, since 1820, see our own commercial tables. A slight difference sometimes occurs from a reference by some to the exports to Liverpool alone, or to England alone, not including Scotland or Ireland. The exports from the United States to them all were,

Year.		· M	fill's of lbs.	Year.			Mill's of los.
1831	_	-	$217\frac{1}{4}$	1834	_	-	284
1832		-	228	1835	man .	874	$269\frac{1}{9}$
1833	-	-	$238\frac{1}{4}$				U)

See Porter's official tables, page 125. Those for 1817, from India to England, are from Rees's Cyclop. article "United States," in a note. They

are believed to be too high. The quantities are given in pounds, where ascertainable with accuracy, and where not so, the proportions are stated from table G, which are founded on the imports into England, from the United States and other countries. (See Marshall, page 110, and Smithers, page 146.) The actual quantities exported from the United States to all Great Britain, before 1800, cannot be obtained by me; but the number of bales to Liverpool alone, can be, and, as a matter of some curiosity, are annexed: 1791, 64; 1792, 503; 1793, 111; 1794, 348; 1795, 2,147; 1796, 4,668; 1797, 5,193; 1798, 12,163; 1799, 13,236; 1800, 24,138. See more in books cited.

[2] The exports from the United States to England and France, are sometimes taken from their official reports of imports, and sometimes from ours of exports, occasionally differing a little by losses at sea, imperfect returns, and in the former, not always including Scotland and Ireland. The proportions are given in a few cases where the exact quantity was uncertain, on the principle in table G. For 1813 and '14, see that table. But the quantities given for 1834 and 1835, are from our own returns. In respect to the other places to which our exports go, a statement is annexed, giving the details since 1820, while our returns have been made up accurately and in more detail.

STATEMENT of the quantity of Cotton exported from the United States to other places, than Great Britain and France, in the year ending September 30, 1821, to 1835, inclusive.

			1			1	1	1
Years	To Russia.	Holland & Belgium.	Spain.	Spanish W. I.	Trieste.	Hanse Towns.	Italy and Malta.	All other places.
				-				-
	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
1821	304,680	4,186,096	284,832	772,296	34,976	748,110	897,804	2,506,777
1822	713,789	1,970,258	_	445,964	210,138	2,955,581	1,956,253	450,762
1823	309,678	1,650,548	_	_	177,789	2,356,594	217,663	833,332
1824	501,645	$^{\prime}$ 432,976	_	3,853	_	292,852	_	227,529
1825	, -	1,420,225	-	_	_	577,109	980	509,031
1826		,1,592,439	_	_	33,311	2,012,679	_	1,820,116
1827	147,101	[5,861,400]	7,990	·	183,204	3,389,514	148,170	1,440,547
1828		3,780,988	_	_	980,354	[3,386,108]	407,068	1,072,448
1829		9,595,337		_	4,071,247	6,857,796	1,056,387	1,261,925
1830		8,561,193	32,210	-	2,814,477	[4, 123, 047]	235,265	638,877
1831	, , , ,		555,098	-	2,778,858	[2,416,765]	305,695	2,243,741
1832		3,920,016	2,283,875		1,654,775	4,075,122	580,974	[2,250,190]
1833		2,673,253	758,216	1 -	1,107,600	[1,870,620]	-	[1,759,615]
	1,269,494	6,096,462	892,967	-	[3,805,312]	[6,612,895]	190,842	1,153,382
1835	974,801	5,694,358	878,219	_	4,943,061	2,788,147	12,952	[1,493,760]
-								

[3] The exports to England from other places than the United States for 1834 and 5, are from the last annual report, in January, 1836, at Liverpool. It is said, in Smithers's History of Liverpool, page 124, that the first imports from India were in 1798, and proved to be very profitable; but they began five or six years earlier to London, if not to Liverpool. See table G, and notes, and same page in Smithers, that Surats were imported in 1783; in page 125, he says, that $53\frac{1}{2}$ millions of pounds in one of the late years, being then 1824, were shipped from Calcutta to England, but the official tables are lower.

- [4] Of the exports from India to China, in 1828, over 121 millions of pounds were from Calcutta alone. Evidence on East India Company, For 1834, see Baines's History page 32, which is page 13, 1832. too low. For other years except 1831 and 2, see I Milbourne's Oriental Comm. page 281. The cotton trade to China began in the last half century. or about 1787, and the reasons for it are stated in table A, note 9. exports for 1831 and '2, are from McCulloch, pages 237 and 'S. China has raised and manufactured cotton since the 13th century, though less since 1787. See table A, note 9. In London Cyclop, article "Cotton," it is said. that in 1818, about 230 millions of pounds were exported from India to China; but it is probably an error. In supplement to Encyclop. Brit. art. "Cotton." it is supposed to be one-half what had been yearly consumed in England, (1821) or 50 to 60 millions of pounds, which is higher than Milbourne, but it agrees substantially with McCulloch, whose statement is from official returns; it is the greatest article of trade from India to China, except opium. See McCulloch, page 236; 3 Crawford, Hist. of Ind. Ar. 350.
- [5] The exports from Brazil to England, began in 1781. Smithers's Hist. of Liverpool, 124, and are often included till 1868, under the head of Portugal. Smithers, 146. See table D.
- [6] The exports from Egypt alone to England, it is said, did not commence till 1823, (Smithers's Hist. page 136,) and consisted of 2,105 bags, or short of one-quarter of a million of pounds, as their bags then weighed. See London Cyclop, article "Cotton," which says, that before 1790, nearly 6 or 7 millions of pounds yearly, were exported to England from Smyrna.
- [7] Under West Indies, the years 1834 and '5, include Demarara, and elsewhere, not enumerated, as they are not discriminated in the last annual report at Liverpool, which is the authority.
- [8] The exports of 1787, from "all other places" to England, include 13 million of pounds from Demarara and Berbice.
- [9] The exports in 1770, were from the then provinces of New York, 3 bales; from Virginia, four bags; and from North Carolina, 3 barrels. Smithers's History, page 153. It was probably all of foreign growth, i. e. of the Spanish Main, or of the West Indies, as was, it is presumed most, if not all, of the eight bags from "America," seized in 1784. Smithers's Hist. 124 and 156. See table B, note. First exports of our own cotton were in small packages from the United States, called "pockets." Smithers's Hist. 135.

It would seem, that late as 1794, Mr. Jay, when waking the treaty with England, was not aware that any cotton was exported from the United States. In Seyb. Stat. page 92, it is said, that the first export of conton of our own growth took place in 1791. See table B, note 4.

[Doc. No. 146.]

G. COTTON, RAW.

Imp	ports of	Where from.									
	Into England.	United States.	Brazil.	Demerara and Berbice.	West Indies.	Egypt and Turkey.	India.	Other places.			
Years.	lbs.		lbs.	lbs.	lbs.	lbs.		lbs.			
	$\begin{array}{c} \text{Millions.} \\ 1_{\frac{1}{10}} \text{ or } \frac{9}{10} \\ 2 \\ 1_{\frac{1}{10}} \\ 3 \\ 3_{\frac{3}{10}} \\ 3 \\ 5 \\ 11 \\ \end{array}$		Millions.	Millions.	Millions.	Millions.		Millions.			
1787 1789 1790	$ \begin{array}{c} 22 \\ 32\frac{1}{5} \\ 31\frac{1}{5} \end{array} $		$21\frac{1}{2}$	134	$6\frac{2}{3}$	52		6			
1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1803 1804 1805 1806 1807 1808 1810 1811 1812	$\begin{array}{c} 28\frac{3}{4} \\ 28\frac{3}{4} \\ 35 \\ 19 \\ 24\frac{1}{3} \\ 26\frac{1}{3} \\ 32 \\ 23\frac{1}{3} \\ 43\frac{1}{3} \\ 56 \\ 53\frac{3}{4} \\ 43\frac{1}{3} \\ 56 \\ 53\frac{3}{4} \\ 43\frac{1}{3} \\ 58\frac{1}{4} \\ 59\frac{1}{2} \\ 43\frac{1}{3} \\ 21\frac{1}{2} \\ 91\frac{1}{2} $	10000000000000000000000000000000000000	ট ন্থান্তান্ধ থাক থাকন্থান্থা থাক থাদ লাকন্ধিল্যুক্তলাক অত থাক থাক বাক নিল্লুক্তলাধ্য থাদে থাক	Ratio.	Ratio.	Ratio	Ratio. Table Ratio Rati	Ratio. $\frac{1}{8}$ $\frac{1}{1}$ $\frac{1}{6}$ $\frac{1}{1}$ $\frac{1}{6}$ $\frac{1}{1}$			

[Dec. No. 146.]

G—Continued. COTTON, RAW.

Imp	ports of	,		W	here from.			
	Into England.	United States.	Brazil, -	Demerana and Berbice.	West Indies.	Egypt and Turkey.	India. 🗈	Other places.
Years.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823	$\begin{array}{c} 51 \\ 73\frac{2}{3} \\ 96\frac{1}{4} \\ 97\frac{1}{3} \\ 126\frac{1}{4} \\ 174 \\ 137\frac{1}{2} \\ 147\frac{1}{2} \\ 126\frac{1}{2} \\ 141\frac{1}{2} \\ 183\frac{1}{3} \end{array}$	Ratio 10 প্র ক্লেন্স্র ক্লেন্স কল কল বাল	Ratio. 3/5 3/5-44-43-43-43-43-43-15-16-15-18	Ratio. 1 0 1 2 1 5 1 5 1 1 4 1 0 1 4 0 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ratio. $ \frac{1}{12} \frac{1}{2} \frac{1}{11} \frac{1}{34} \frac{1}{35} \frac{1}{52} \frac{1}{52} \frac{1}{76} \frac{1}{332} \frac{1}{45} \frac{1}{52} $	Ratio.	Ratio.	Ratio. \[\frac{1}{2} \overline{0} \\ \frac{1}{3} \overline{0} \\ \frac{1}{2} \overline{4} \\ \frac{1}{1} \frac{1}{4} \\ \frac{1}{1} \frac{1}{4} \\ \frac{1}{1} \frac{1}{3} \overline{6} \\ \frac{1}{1} \frac{3}{3} \overline{6} \\ \frac{1}{2} \frac{1}{6} \\ \frac{1}{7} \frac{2}{2} \end{array}
1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834	$\begin{array}{c} 147\frac{1}{2} \\ 244\frac{1}{3} \\ 170\frac{1}{2} \\ 264\frac{1}{3} \\ 222\frac{3}{4} \\ 218\frac{1}{3} \\ 259\frac{3}{4} \\ 280 \\ 270\frac{2}{3} \\ 288 \\ 320\frac{1}{3} \\ [303\frac{7}{2}] \\ [3] \\ [1] [2] \\ [3] \end{array}$	3 5 3 5 0 15 0 15 0 15 0 15 0 15 0 15 0	10 17 17 17 17 17 17 17 17 17 17 17 17 17		1 2 4 1 2 9 4 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c c} \hline & 1 \\ & 1 \\ & 1 \\ & 7 \\ & 1 \\ & 3 \\ & 6 \\ & 1 \\ & 3 \\ & 6 \\ & 2 \\ & 1 \\ & 3 \\ & 6 \\ & 3 \\ & 3 \\ & 3 \\ & 3 \\ & 0 \\ & 3 \\ & 0 \\ & 3 \\ & 0 \\ & 3 \\ & 0 \\ & 3 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ $	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

^[1] For the early imports of cotton into England, see more in Baine's, 346; McCulloch, 438; and Seyb. Stat. 92, note. In 1787 the imports set down as from Turkey and Egypt, were entirely from the former, Smyrna, Greece, &c. and none from the last until 1820 and 1823, and since that mostly from Egypt. The "other places" were chiefly French and Spanish colonies in 1787; but include India and Turkey where those columns are

blank. See a table in Smithers's History, page 146. The early imports of raw cotton, after the manufacture increased much in England, were from the West Indies, Surinam, and isle of Bourbon. Smithers's History of Liverpool, 123. Those from Brazil, &c. in 1524. See in Smithers, page 454.

- [2] The proportions are given from the imports into Liverpool alone; but will not vary much for the whole kingdom. They are stated in the present form to aid in the comparison, at different periods in the same, and different countries. The fractions are very near the true proportion, but occasionally are the next highest or lowest to the exact sum for convenience in calculation, as is the case in fractions often in all these tables. See Marshall, page 110; Smithers, 147.
- [3] The whole imports into England, Scotland and Ireland, are included in the above column; as some of the writers discriminate between those into England alone, and some do not. See Porter's Official talles, 125: McCulloch, 439. See a table in Smithers page 146; making the imports into Ireland one to two millions of pourds yearly, after from 1791 to 1817. In Baines, the quantities often differ a few millions, and are higher in most See also Edinburgh Review, page 19, (1887). The usual quantity imported into Ireland and Scotland, as contradistinguished from England, has been, during the last ten years, about 10 to 15 millions of pounds per annum, it is believed. In 1834, it was about 20 millions of pounds: in 1835, it was about 18 millions of pounds. Most of that used in Ireland is believed to be re-exported from England, or included in English imports; and no separate tables have been kept of Irish imports since 1825, when those of cotton exceeded 63 millions of pounds. Daine is History, page 430. The largest amounts for 1834 and 1835 are taken from the Liverpool reports of January, 1836; and the smaller ones, in the second lines, from other sources of not so recent date.
- [4] Most of the above ratios from India, between 1793 and 1809, correspond with 1 Milbourne's Orient. Com. page 281, and may differ some from the tables as to Liverpool imports alone.
- [5] The imports from the the United States in 1792, 1793, &c. were said to be chiefly through the British West Indies. Smithers, 157. Our ratio, it will be seen by the sums in the second line for 1834 and 1835, will vary as the English accounts differ concerning the whole actual or estimated amount of her yearly imports.

[Doc. No. 146.]

H.—COTTON, RAW.

Millions Millions	Imp	orts of	Wh	ere Fron	n.	2	I	inports of		
Millions Millions		Into France.	United States.	Egypt & Turkey.	Brazil and the West Indies.	Into Saxony, Prussia, Trieste, and Russia.	Into Switzerland.	Into Spain.	Into China.	Into the United States.
1790	Yea	lis.	lbs.	Ds.	158.	Ros.	lbs.	lbs.	lbs.	lbs.
1791	1789	Millions.	Millions.	Millions.	Millions.	Willions.	Millions.	Millions	Millions.	
1792	1791	-				0		_	_	Millions.
1795	1792	-		_	_	_	-	_	_	1
1795	1793		_		_	_	_	_	_	28
1795	1794	non.			-	-	_	-	_	$\mathfrak{D}^1_{\overline{2}}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1795	-		m	-	i	_	_	-	4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1795				_	-	-		-	4.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1702	+ -	-	-	_	-	-	-	-	<u>ପର୍ଚ୍ଚ</u>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1790	-		_	-	_	-	· —	_	37
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1800	-	-			_	_		_	41
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1801		3		ļ _	_			_	11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1892		2	_	_	_	' _	_		- 032
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1303	_	.4		_		_	21	_	3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1801	_		, <u> </u>	-	. –	_	-	-	34
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		_	45	-	-	-	-		-	1 25
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2110		_	-	-	-		2213	21/4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1807		6			-	-	_	-	35
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1808	-	₩	_	-	_	_	-		1 - 12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1 95	_	_	-	_	-	. –		1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1811	1 -		_	_	_	1	-		1/3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1812	,	_		-	-	_		_	1 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1813	· -	10^{\pm}	-	_		_	-		123
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1814	1 -	10	-	_		-	_	-	$\frac{1}{6}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1815	1	50	-	-	_	_	-		1/6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1816	_			-	_	1 -	_	****	1 6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1817	-	-	-	_	_	-	-	_	3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1818	-	-	-	-	_	-	-		113
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1820	4.41	-	_	-	_	-	_	-	10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1831	1 473	271			_	6	_		245
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1822	GI.	214		_	_	_	_	-	1 1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$.1823	51	25	_	_	-	-	-	_	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1824	795	401	_	_	_	_	_	-	3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1825	013	601	-	-			1 -	20.2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1320	87	701	_	_	_	-	-	90.	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1828	3 GI3	53½	_	_		1	_		n 1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1829	724	675	_			-	_	-	1 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$. 1830	9 843 to 91			7		171	-	-	1/2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				71	$3\frac{1}{2}$		$18\frac{4}{5}$	-	38 to 68	1 3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	183	2 77 to 83	73 to 77	81	$-3\frac{3}{3}$	48	$19\frac{1}{2}$	-	,	1 2
1835 911 91 133	183	1 231	10 to 21	2 -		30	101	5	452	1
	183	5 941	91	4			1			123
[1] [2] [3] [4] [5] [6] [7] [8] [9]	[1]	[5]			$[\bar{3}]$	[4]	[5]	$[\overline{6}]$	[7]	[8] [9]

- [1] The value of the imports of raw cotton into each country it has not been deemed necessary to give in detail, as the quantity, and the prices in the United States and Liverpool, with those in India, and some other places occasionally, are presented, and will enable any person easily to make a computation of the whole value of the imports into any particular country.
- [2] The imports into any country during any particular year, sometimes fall short of the actual consumption in that year, if a large stock from any particular cause be on hand at the begining, or a very small stock at the end of the year. The whole amount imported into any place, and the amount from each country, differ a little occasionally, by mistakes in copying or misprints probably. For imports of 1820 and 1821, into France, see Quarterly Review, (1824-5). For those of 1834, see tables of French Com. for '34; and for 1810, Edinburgh Review, page 61, (1829) which states, those for 1828-9, at 80 or 90 millions of pounds; for 1806, see London Cyclop. article "Cotton." Baines, 515. From 1822 to 1832, see a table in McCulloch's Dict. page 448, which is given below in bags. In 1819, in vol. 3, Dict. of Com. and Finance for Spain, page 244, the value of imports of raw cotton is estimated at only \$2,000,000, into France, but it Those for 1833, and the smallest for 1834 and for 1835, must be too low. are from manuscript. Annexed are the quantities in bales, and the stocks on hand each year, from 1822 to 1835 inclusive, from another and similar source, as to the three last years; the previous ones are from McCulloch. See table T, note [2], as to stocks on hand in England.

Statement of the general imports and stocks of Cotton in France in 1835, compared with those of the thirteen preceding years:

_			^		
		Imports.			Stocks, Dec. 31.
40	bales	205,861	sub.	_	42,545
-	44	169,845	-	1	40,078
_	64	251,074		_	47.194
-	66	204,572	-	_	35,306
-	. 66	320,174	440	_	74,479
-	66	299,617	-		85,403
-	44	206,132	-	-	51,812
	66	242,230	_	-	29,292
-	66	282,752	~		61,260
-	66	218,393	-	-	35,810
-	44	259,159	84	-	22.506
-	66	305,633	_	-	51,753
-	66	274,307	-	-	24,407
-	"	324,425	-		40,096
		- (c	- bales 205,861 - " 169,845 - " 251,074 - " 204,572 - " 320,174 - " 290,617 - " 206,132 - " 242,230 - " 282,752 - " 218,393 - " 259,159 - " 305,633 - " 274,307	- bales 205,861 - " 169,845 - " 251,074 - " 204,572 - " 320,174 - " 290,617 - " 206,132 - " 242,230 - " 282,752 - " 218,393 - " 259,159 - " 305,633 - " 274,307 - "	bales $205,861$ - $\frac{1}{2}$ $169,845$ - $\frac{1}{2}$ $251,074$ - $\frac{1}{2}$ $320,174$ - $\frac{1}{2}$ $290,617$ - $\frac{1}{2}$ $206,132$ - $\frac{1}{2}$ $242,230$ - $\frac{1}{2}$ $282,752$ - $\frac{1}{2}$ $218,393$ - $\frac{1}{2}$ $259,159$ - $\frac{1}{2}$ $305,633$ - $\frac{1}{2}$ $274,307$ - $\frac{1}{2}$

^[3] See Pitkins's Stat. page 485.

^[4] Those for Saxony, Prussia, and Trieste, are given from Pitkins's Statistics, 485. About one-third comes from the United States, and some of it through France and Holland; from Brazil and the West Indies, one-fourth; from Egypt and Turkey, one-fifth; and from India, one-fourth. See note 8, below, and McCulloch's Dict. 442. In Saxony and Prussia, the

manufacture of cotton cloth is considerable, but is chiefly from English varn. See exports of manufactures from England, and supplement to Encyclop. Brittanica, article "cotton." The spinning is slowly increasing by machinery. In 1831 Prussia exported one-fourth more of cotton cloths than in 1826, being 17 millions of yards. Blackwood's Magazine, for January, 1836.

- [5] Of the imports into Switzerland, quite six millions pass in some years through France. Genoa imported in 1830, two and one-half million; in 1831, four and one-tenth millions; 1832, five and one-tenth. Half of this probably goes to Switzerland, and nearly half the imports into Trieste. (See below.) Switzerland has long imported cotton, but it has chiefly been spun by the distaff. Supplement to Encyclop. Brittanica, "Cotton." See more Westminster Review, for April, 1833.
- [6] Those into Spain were chiefly from provinces in America. 1 Dict. of Fin. and Com.
- [7] Except the large sum for 1831, and that for 1832, which are founded on a table in McCulloch, the imports into China are computed from other writers on the exports thither from India, with a small addition from other places, chiefly islands. See tables D and F, and 3 Crawford's History. Most of the exports from India go to China, except what went to the United States formerly, and then and now to England. Table G. It is feared that they are not usually stated high enough. Supplement to Encyclop. Brit. "cotton."
- [8] The imports into the United States are taken from official returns, and have been very fluctuating in amount; they have come chiefly from India. See Seybert, 92, where he says, that before 1825 we consumed two millions of pounds of it yearly. For a table of imports and exports of foreign raw cotton, from 1800 to 1814, see Seyb. St. page 257.
- [9] Other countries of Europe than those enumerated, import considerable quantities of raw cotton: e. g. Holland and Belgium, about 10 or 12 millions of pounds, of which, a part passes into Germany, and 5 or 6 millions of pounds is from the United States. So into Germany direct is imported at Trieste alone, from the United States about 4 to 5 millions, and some from Egypt and Turkey: in all. making in 1830, 12\frac{3}{4} million of pounds; 1831, 19\frac{3}{4} million of pounds; and 1832, 25\frac{3}{4} million of pounds. McCulloch, page 4\frac{1}{2}. Into the Hanse towns are imported from here 2 to 6 millions of pounds more yearly, and about 1 million of pounds to Russia, &c. &c. See exports, table F, note 2. Russia imported into Petersburg, in all, 1830, 2\frac{1}{2} million of pounds; 1831, seven-tenths million of pounds; 1822, one and eight-tenths million of pounds. In 1834, Belgium is said, by Mr. Alexauder, to have imported 12\frac{3}{2} million of pounds of raw cotton. It is said in Westminster Review, for April, 1835, that Lombardy alone consumes four million pounds of raw cotton yearly.

I. COTTON, RAW.

Quantity consumed and manufactured in

			- Gu	control Co.	usume(t ;	and man	ulactu	red in	,			
reals.	England.	France	United State	China and	India. S. America	and Mexicom- cluding Brazil.	Germany.	Turkey and	zzilica.	Spain.	Prussia.	Elsewhere.
-	lbs.	lb:	i. lbs	11.	s. 1	hs.	lbs.	lbs.	. 1	bs.	Its.	1
1	illion 13± 11‡	is.[Million in the th	ons. Millio ree countr	ons. Milli	ons Mil	lions. Mi	llions.	Millio	n. M		To part of	3 4 - 1
	30½ 28 33½ 17¼ 23 25	10	10.10	1 28	5 5	0	15	59 _.	The state of the s	2	2	Ct
4	31 221 31 31 31 31 31 31 31 31 31 31 31 31 31	$\begin{bmatrix} 1 \\ 10\frac{1}{4} \\ 6\frac{1}{4} \\ 15\frac{1}{4} \\ 15\frac{1}{4} \\ 17\frac{1}{4} \\ 18\frac{1}{4} \\ 21\frac{1}{4} \\ 21\frac{1}{4} \\ \end{bmatrix}$	8 [1] () - II [1/3]	_	15		2	50			1 / ·	Ē
8 19 8	$7\frac{1}{5}$	25 23 21	16 [02] 17	270	120	25		43 (4)	5	G	When the same	<u></u>
9: 80 110 17:		- 30 or 20	317	* Constitution of manufacture of			:			- The second probability of the second		
130 149 114 120 177	1	44 47 61 504	50	260	1-2	30		45	8	The state of the s	Military	1.,
131 206 150 250		75 60 96 87		• -	-			di d	-	1-1	70	
208 190 255 257 200		61 714 875 654 78	60 774									
2841 297 3201		87 80	80 to 85	242	อิจั	36	4	i:	10	20		-10
[2]		[3]	1G0 [4]	[11]	[8]			5]	[7]	[6]		[0] [9] [2]

[1] It is important to bear in mind that this table does not show the consumption of manufactured cotton: but only the consumption and manufacture of cotton in its raw state. Hence it includes the quantity of raw cotton raised in any country and not exported, with the additional quantity imported and not re-exported, allowing the quantities on hand at the commencement and termination of each year to be similar. Most of the quartities include what is used in all ways, and made in families as well as in manufactories. It also includes what is consumed in a raw state, which is calculated to be, in England, quite ith. The whole consumption in Europe, in 1830, was about 387 millions of pounds. (Pitk. Stat. 181); or less than the present exports of the United States. The consumption in manufactures of raw cotton in all Europe, in 1803, was estimated at only 60 millions of pounds. Dictionary of Spanish Commerce: and in London Cyclopedia. article "Cotton," computed at only 18 millions of pounds in all Europe, except England and France. Will 1773 the warp in the web of what was called cotton cloth in England was Linen. McCulloch, 438. (See table A, note 9.) See below, note [12].

[2] The above quantities for England are generally taken from Marshalls table, which are copied and approved by Pitkin. But Porter, in his tables, makes the quantity from 1820 to 1832, larger by 5 to 10 millions of pound; per annual. Part of the difference may arise from including Ireland, and part by sometimes looking only to the imports, and deducting the quartity re-ery orted: when, in fact, the quantity on hand at the beginming and end of the year, or the actual quantity entered for home consumption, was essentially different. About 10 to 20 millions of pounds yearly, or often as little as 1, to 1 th of what is imported is re-exported from Marshall and Pitkin's schedules of it. An estimate for 1820, unde in France, was only 2-11 millions of pounds; and in Chamber of Peers for 1831, was 320 millions of pounds; and by I Smide's Com. Dig. page 18, for 1832, was 288 millions of pounds; while the Chanceller of the Exchequer in England, in his late speech, states the quantity for home consumption in 1834 was 320 millions of pounds, and in 1875, 390, millions of pounds. But by the annual Liverpool report in February, 1836, and other sources, the consumption in 1825 is estimated. higher than 1851 by 135 millions of pounds. Others put 1834 at 303 millions of pounds, and 1835 at 330 millions. In the Edinburgh Review, page 423. (1832) a table is given from Freeman and Cook's Com. of G. Brit. rom 1822 to 1831 inclusive, which is as follows: 1822, 1444, n illions of bounds: 1807, 1473; 1824, 1744; 1825, 1694; 1826, 1618; 1827, 2014; 1828, 2073; 1800, 2013; 1830, 242; 1831, 2574. The consumption in Scotland separately, and in part from English imports, exceeded in 4835, 32 millions of pounds. Since 1823, when changes occurred in the fluties, Ireland has made considerable cotton cloth; in 1825, quite 64 millions of yards. But it was chiefly from yarn spun in England; (McCulloch, 444;) or from raw cotton exported there from England; which, from 1821 to 1825, inclusive, was from $1\frac{1}{2}$ to $2\frac{1}{2}$ millions of pounds per annum. See tables on this in Smithers, 150 and 151. London Cyclopedia, article Cotton." In same article see a table on imports and consumption, and tock on hand, same years; at the close of 1823, in England, it was 92 millions of pounds. See Liverpool annual report, where the stock on hand It the close of 1834 was $59\frac{1}{2}$ millions of pounds, and 1835 was $73\frac{1}{2}$ milions of pounds. In 1833 it was about 60 millions of pounds, and had

diminished gradually since 1826, when it was 100 millions of pounds. (Baines, page 318.) See table H, note 2.

[3] See on France, Baines, page 525. But the quantity of imports is generally higher than consumption by 5 or 6 millions of pounds (unless the stock on hand is very large when the last is sometimes highest); as, of late years especially, France re-exports to the neighbouring countries, by land, S or 9 millions of pounds per annum, occasionally. (French Tables of Commerce, page 156, for 1832–3.) About $\frac{\pi}{10}$ of these re-exports are to Switzerland, and the rest to Sardinia, Genea, &c. As far back as 1789 France used but little cotton, except in household manufactures. Quar. Rev. (1824–5) page 394. For 1815, see Baines, page 515, and for 1806 see London Cyclopedia, article "Cotton." In the French Chamber of Peers it was testified, that the consumption in 1834 was 80 millions of pounds. In the Edinburgh Review, page 432, (1832) is a table of raw cotton consumed yearly in France from 1822 to 1831, in which the quantity is different from 1 to 10 or 12 millions in different years, some less and some more, e. g.

Years.				,	M. lbs.	1	Years.					M. lbs.
1822	-	-	-	-	$64\frac{1}{5}$	3	1827	-		-	-	84
1823	-	_	-	-	51%		1828	-	-	-	-	72
1824	-	-	-		73^{-2}_{-2}		1829	-	-	-	_	$79\frac{1}{2}$
1825	-	-	-	-	65	;	1830	-	-	-		$75\frac{1}{4}$
1826	-	-	-	_	843	1-	1831	-	-	-	-	$73\frac{1}{10}$

Those in the table from 1798 to 1806, and 1817, are from Sup. to Ency. Brit. "Cotton." See table K, into what articles the cotton is made, comparative prices, &c.

[4] The large estimates for 1790, 1800 and 1805, in the United States were made by myself, and the small ones, with that for 1815, are from a report of a Committee of the House of Representatives. February 13, 1816. That for 1810 is from Seybert's Statistics, page 92, and includes what cotton was used in household manufactures, as do my own. Mr. Gallatin made a similar one for 1810. Pitkin, 487. Some estimates of earlier date, probably did not include what was used in dwelling houses. Before 1825 we consumed often 2 millions of pounds a year, of rew cotton grown abroad, (Sevb. 257 and 92); and one-fourteenth of the imports and crop in the United States and England is used or consumed in its raw state without being made into either yarn or cloth. Table H. In Coxe's report on Manufactures for 1810, he gives the manufactures of cotton in families at five millions of dollars value, and number of yards 163 millions: which, at 50 cents, the worth of coarse cloth to each pound of cotton in it, would make 8 or 10 millions of pounds used. Coxe reports a few large manufactories, but without any data to show their consumption of raw cotton; but see table L, spindles, note. They probably used 6 to 8 millions of pounds In the French Chamber of Peers the estimate was only 36 millions of pounds consumed in the United States in 1834 (see below). 'The whole manufacture of cotton in the United States must be as large as the estimate, though beyond the usual computation, if we look to the number of spindles, and to the great household manufacture of it in the families of the South and West, for all purposes.

Again it is to be deduced from the fact, that in the great cheapness and healthfulness of cotton manufactures, our population consume each five to six dollars worth of them yearly, for clothing, bedding, sails, &c. &c. which, at a census of 14 millions, would be from 70 to 84 millions of dollars in In England the consumption is computed to be only a fraction less than that, and in France it is \$4 per head. In Belgium, Alexander computes it at 20 francs, or a little over \$3\frac{3}{4}\$ per head. As we import from England, France and Germany, about 7 millions of dollars of cotton manufactures more than we export, and those articles are finer than our own, it is a fair estimate, that we manufacture in this country, from 50 to 70 millions of dollars worth of cotton manufactures; which, at two pounds of raw cotton or near it per dollar of manufactured cloth, on an average, would, in all, equal about 100 millions of pounds or more of raw cotton manufactured here. Of this, about 5 to 20 millions of dollars worth are made in domestic form; and 45 to 50 millions of dollars in factories in A. D. 1835.

In 1831, the convention in New York estimated that only 26 millions of dollars worth of yarn and cloth were made in manufactories; and in 1834, Pitkin, page 484, estimated all manufactures of cotton in the United States at 40 millions of dollars value yearly. This would require in 1831, as in the table, about 77 millions of pounds of raw cotton, as estimated in the convention at New York, for manufactories in 12 States. See McCulloch,

448, who supposes it was a committee of Congress.

As our population is increasing from 1830 to 1840 at the rate of nearly 4 per cent. or quite 400,000 persons per annum, and as 10 to 12 pounds of raw cotton are required per head, and our imports of cotton manufactures do not increase, we must add yearly to our manufactures about 4 to 5 millions more of raw cotton. This would make an addition from the estimate in 1830, so that the whole consumption would, in 1835, equal 100 millions of pounds of raw cotton. An intelligent merchant and manufacturer of the north thinks the consumption now is 106 millions of pounds. The quantity manufactured here in 1827 is estimated by Reuss, in his tables on American Trade, at only 31 millions of pounds, and in 1828 at 36 millions of pounds; but they must be too low, as are the usual estimates for the last three or four years, at only 80 and 85 millions of pounds, or they must include only what was worked up in factories, and the former estimate not all On the great consumption of cotton in household manufactures in the United States, and the opinion entertained in 1791 on the importance and expectations of success in the establishment of manufactures by machinery, and its influence on the growth of cotton in the United States, see more in Hamilton's report, A. D. 1791.

[5] See Urquhart on Turkey, page 150 and 179, that two pounds per head is manufactured there; and also that 50 millions of dollars worth of muslins alone were yearly consumed there and in Africa. They were not all, however, of-domestic manufacture, it is presumed.

In Egypt it has been estimated, that from 8 to 9 millions of pounds of the crop of 1835 will be consumed in that country. See table A, note 9.

[6] This statement for Russia in 1824 is from Porter's tables, 545; see Baines, 406. In the southwestern parts of Russia, bordering on Germany, manufactories and machinery have been considerably introduced, and yarn

from England is woven there, as in India and elsewhere, as well as raw cotton, imported chiefly from the United States, either direct or through the ports on the Baltic. See exports of raw cotton, table F, note. A few others have been established southeast of Moscow. See Lon. Cyclop. article "Cotton," and one cotton mill is in operation in St. Petersburgh.

[7] Used up mostly into calicoes, tapes and galloons. Spain in 1803. 1 Dictionary of Spanish Commerce, 63: 3 do. 148: made 5.640,810 yards of cotton cloth, 51,900 pair of cotton stockings, and 2,686,142 yards of tape.

- [8] In Puebla in Mexico, in 1803, were manufactured 1½ millions of pounds of raw cotton. (4 Dictionary of Spanish Commerce, page 178.) In Campeachy the manufactures are most extensive. 2 Hist. of Colombia.
- [9] Among the other places is Switzerland, which, in 1831, consumed near 19 millions of pounds of raw cotten. Rames, 526: see imports. That country began to use machinery for cotten in 1798, but the progress has been slow, and the establishments are small, though active. Lendon Cyclop, article "Cotten." Muslins have been made there, it is said, a century and a half. But beside England and France, the cotten spun in the rest of Europe in 1823 was estimated at only 18 millions of pounds. London Cyclop, article "Cotten." See table K, note. In 1834, it was estimated by Mr. Alexander, that Belgium concurred 122 millions of pounds of raw cotten. See table, exports of manufactures and notes.
- [10] The statements for 1833, 1821, 1811, 1801, and 1791, are generally computations made from other data as to the crops in the different countries named, which were grown and not exported, and the quantities of raw cotton in ported into each: beyond this, they are rather conjectures than estimates, founded on very satisfactory facts.
- [11] The quantities computed to be manufactured in India and China are very larger: but, perhaps, they are below rather than above the truth. See Supplement to Ency. Brit. article "Cotton," and take. A and F on growth of cotton and exports. In the Indian islands most of their raw cotton is made up, though a little is exported to China. 3 Crawford's History, 350.
- [12] A table is annexed of the consumption of raw cotton in all Europe, from 1831 to 1835, inclusive, compiled by Lambert & Co. of Liverpool, and distinguishing the estimated portion of it from this country.

Consumption of cotton in Europe, reduced to bales of 300 pounds.

1831, bags		1,272,176, 6.	f which	·	928,520	American.
1832, " -	-	1,372,079,	-64	-	1,015,280	66
1833, ** -	**	1,409,786,	66	-	1,066,240	46
1834, " -	_	1,502,559,	.44	_	1,205,043	. 66
1835, " -		1,581,501,	44	_	1.254.586	(:

[Doc. No. 146.]

K. COTTON, MANUFACTURES OF.

nufacturing by -[6]	oyed in mar achinery in—	Capital empl	ly, in—	Whole value of, yearly, in— England. France. United State								
United States.	France.	England.	United States.	France.	England.							
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
Millions.	Millions.	Millions.	Millions.	Millions.	Millions.							
		; ;	1		1							
			!									
	t t s		1									
	*				į							
40	_	-	34	_	95 ?							
				36	Arm							
		· · · · · · · · · · · · · · · · · · ·		!	72 155 148 to 190							
		309?		49	J71 -							
40 ^e or 69	-	325?	26 (40)}	1								
4:	115	216 160 \$ 360 } 3	-	51	144 \$ 178 } \$ (149) \$							
[8] [8]	[10]	250 185 [7]	45 to 50 [3]	[2]	169g (. [1]							

[1] The values in England in the tables are taken, for 1834, from McCulloch and Aiken, Edin. Rev. 472, (1835,) and Baines, 412; for 1833, in 1st line, from Pebrier on Eng. page 314; for 2d line, for 1827, from Edin. Rev. page 22, (1827.) The first edition of McCulloch agreed with Pebrier, but in the second edition he lowered the amount. Baines, 398, and note. That for 1823 was by Mr. Huskisson. Baines, 399. That for

1824 is from Supplement to Encyclop. Brit. "Cotton.".

In McCulloch's Dict'y of Com. and Baines, 406, and Pitkin, 486, it is computed that the present value of the cotton manufacture equals about twice the amount of it exported. It is said that only 37 per cent. is consumed of what is made. Aiken's Lectures. See exports. In 1766 England made about three times as much as she exported of cotton goods, though Edin. Rev. page 166, (1830,) says she then made only one million of dollars worth. Do. page 18, (1827.) The estimate for 1815 is in Edinb. Encyclop. art. "Cotton." The items for computing the value of the annual manufacture, are given in Edin. Rev. (1827) page 22, and in Edin. Rev. page 472, (1835,) and in Baines, 412.

In Scotland alone it is said the manufacture of cotton in 1835 equalled in value $11\frac{1}{2}$ millions of dollars; but in 1832, was estimated by Kennedy at $12\frac{1}{2}$, though prices higher; and in Ireland at $1\frac{1}{3}$ millions of dollars. Baines, 409, thinks the exports are nearly that before named from Scotland, and

the manufacture double. Page 410.

[2] The values in France for 1817 are too high, and that for 1828 too low, it is believed; but were extracted, the first from 2 Chaptal on French Industry, page 150, and Sup. to Encyclop. Brit. "Cotton," and the last from some author not remembered. Estimated at 111 millions of dollars by Minerel, but too high. Baines, 521.

Those for 1832 and 4 are estimates made on the number of spindles, &c.

[3] The value for 1830, in the United States, is from N. Y. Conven. and includes but 12 States and no household goods, otherwise it would equal 40 millions. Pitkin, 483.

The whole value in 1835 is my estimate from the quantity of cotton

worked up, &c. Pitkin, 482.

The value for 1815 is by a Committee of Congress, and is confined to goods made in factories. The whole value of cotton, woollen and flax manufactures in 1810, was computed at only 40 millions of dollars—the value of cotton alone in 1830.

[4] The value of manufactured cottons, when the quantity of raw cotton in them is the same, differs greatly according to different periods of time in the same country, and according to the quality of the raw material, and the

machinery used, and the skill employed. See table M, note [2].

Thus in England, in 20 years after Arkright's invention in spinning, manufactured cottons fell nearly eight-ninths of their former price. Every ten years since, some have computed their fall in price as equal to 50 per cent. In the American Encyclopedia, article "Cotton," it is said, that, from 1815 to 1829, the coarse cloths fell two thirds. See in Pebrier's views of England, page 343, a table showing the fall there at different periods. See table M, note [3], on official and real prices at different periods. In 1810, yarn, on an average, was worth \$4,122 per pound. Report by Gallatin. See

prices of other articles in his report. In 1814 it was estimated under \$1 per pound by Cox. In 1832 it was said that the cost of making most species of yarn had been reduced since 1812 about a half, and that of weaving by power looms, &c. still more. See Edin. Rev. 427, (1832,) a list of prices. Some of the differences as to the whole value of manufactured goods spring from not adverting to all the fall in prices, though the yarn and cloth have increased in quantity. See a table of reduction in prices of spinning. In 1786 it cost 10s. per pound of No. 100, in 1824 only 8d. or only 16 cents instead of 240 cents. Supplement to Cyclop. Brit. "Cotton."

[5] The best cotton goods are supposed to be made in Switzerland, where the skill and machinery are good, and the climate congenial. But the raw material, being carried so far by land, is expensive, and the manufacturer cannot compete with England, though 20 per cent. cheaper than in France.

Baines, 524.

In France many fine goods are made by skill and experience; but the machinery is poorer, and costs more. Edinb. Rev. page 61, (1829.) Hence the prices in those two countries of the cloth made from a pound of raw cotton, exceed on an average, 50 cents, while in England they are about 50 cents, and in the United States are now somewhat less. In 1806 the cotton was made chiefly into velveteens, nankeens, crapes, muslins, &c. See at length London Cyclop. art. "Cotton."

But in 1810 our cotton cloths made in houses and manufactories, on an average, were estimated at 33 cents per yard in Coxe's Tables, page 10. The prices are now lower, notwithstanding the introduction so extensively

of finer cloths and of printing calicoes.

We make more coarse and substantial cloths of cotton now than England, and they can be afforded cheaper by two or three cents per yard. They are in greater demand abroad. Am. Quart. Rev. (1834) page 256. 3 Parliamentary Reports, (1833) page 332. We put more staple into them, the raw material being cheaper here. But the English laces, being made chiefly of sea island cotton, with a very little silk, enhance the value of each pound to over \$5; and the whole manufacture of it equals nine millions of dollars per annum, (McCulloch, page 744,) and 30\frac{3}{4} millions of square yards.

The coarse India cottons are made of the worst materials and less smooth, being chiefly spun by hand, and the raw material poorer. Baines. But the thread so spun is softer and the cloth more durable. Report on Affairs of India, (1832,) appendix, page 310. But the power to spin a fine thread there has been carried almost as far as in England. See table L, note [5].

ON CAPITAL.

- [6] Capital invested is computed on very different principles and data by different persons, and the price of machinery has of late fallen much per spindle. See notes on spindles. In the computation of capital in manufacturing cotton, there is generally included only what is in factories.
- [7] The real capital has doubtless increased in England since 1827, though in the table there is an apparent diminution. That and other differences often arise from the estimates being made by different persons, and on data somewhat unlike, as well as from changes in the value of machinery, and in its increase.

The computation for 1827 is by the Edin. Rev. page 22, 1827; that for 1830 is by some writer not noted; that for 1831 in 1st edition of

McCulloch's Dict'y, Pitk. Stat. 486, for 1833, by Pebrier, page 215, in 1st line, and in 2d line by Baines, 415, and Edin. Rev. page 472, (1835,) and 2d edition of McCulloch; and for 1834 by Aiken, who places buildings and machinery, or the fixed capital at only about half the value of that in Edin. Rev. (1827) page 22, or at about 97 millions of dollars instead of 181 millions.

The ratio adopted for 1827 was, capital in

buying raw material - - £ 9 millions, and for 1834 £ 4

Capital in paying wages - - 19 " " 10

Capital in mills, machinery, looms, shop, &c. - - 37 " " 20

£65 " " £34

So Kennedy in Baines, 413, differs again, making fixed capital only about 15 million pounds, &c. The present value of capital invested in buildings, water privileges, and machinery, is often less than their original cost, and is another source of difference.

[8] The capital in 1915, for the United States, is computed by a Committee of Congress, and is not any too high. Report, Feb. 13, 1846. That in 1830 is by the New York Convention, and is correct according to the number of spindles compared with England and her capital, and is in fact at 40 million dollars for fixtures alone, and about 22 million dollars for the rest. Not too high. That for 1832 is from Reuss on Am. Trade, page 274. The whole capital here, in proportion to each spindle, is more out halls and machinery together than in England, and more for wages. Here is sometimes higher for additional machinery and workmen for finer kinds of manufacture. The average value of her capital to each spindle, as computed by me for 1825, would be about \$20 to each; which would, on the same data, make our capital then equal to \$35 per spindle. But in the New York Convention, in 1530, are given the details of their estimates, and the buildings and machinery alone cost here, on their computation, near \$35 per spindle, and it requires to pay wages, furnish raw cotton and other materials, superintendence, &c. quite \$11 more per spindle, making the whole \$46 each, or now near 80 million dollars capital. In 1810, it was estimated that \$60 per spindle was necessary. See Coxe and Gallatin. It is now \$60 in some factories at Lowell. This agrees nearly with the older computations in England; and as goods become finer, and machinery still cheaper. in the United States, the approximation will be still closer. See table L, note. But another striking cause of difference arises from the kind of goods made here compared with England. requiring there less capital for machinery, looms, &c. Besides, that the spindles there are choaper, and less capital is needed for workmen, when the number of spindles is the same, to tend power looms, color and stamp dies, &c. in proportion, than in the United States. Because there, in 1833, only a little over one-half of the cotton spun was made into cloth in the factories, or only $76\frac{1}{3}$ millions of pounds out of 145 millions of pounds. The rest was sold or exported as yarn and thread. See Baines, 607. And in another estimate, over one-half the exports are in yarn. See table M, note [1]. Baines, 409. While in 1830, in the United States, the computation of yarn sold, compared with cloth made, was not one-tenth of the weight. In 1810 it exceeded one-hali. Gallatin. Another cause of the difference is, perhaps,

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that much of the fine weaving of ginghams, muslins and mixed cloths there is done in hand looms not belonging to the factories. See Baines, 418. In the computation before stated, of the capital per spindle for 1830, in the United States, it may be useful to exhibit it in another form. According to Pitk. page 482.

The capital in mills and fixtures was - - $\frac{540^{6}}{10}$ millions. Do. in other machinery about - - $\frac{41}{10}$ "

Capital in mills and machinery - 45 millions.

Which at $1\frac{1}{4}$ millions of spindles is about \$35 to each.

Capital floating or circulating, in paying wages, was near

Capital circulating, in buying stock, &c. - - - 2 "

About \$11 more per spindle, or \$46 for every spindle.

The valuation placed on machinery should now be less, though most of that in use cost high. See spindles. The English proportion now is about \$12 capital per spindle invested in mills, machinery, and all fixtures connected, or not much over one-third the proportion here. But it is about \$8 to each spindle in the floating capital, for wages, stock, &c. or over two-thirds the proportion here. More of their fine spinning is also done on the mule spindle, which costs but little over half what the throstle spindle does, and which last has been equally as much used here as the other, and of late years, it is believed, far more than the other. In 1831, in England, in Lancashire, the number of mule spindles was more than 12 times that of the throstle. Baines, 209—note. Her capital in mills and machinery alone is said not to exceed \$4,16 to each spindle. See Baines, 414 and 368. But that must exclude water privileges and steam engines, probably, and all looms, out-houses, shops, &c. and refer chiefly to the nule spindle.

In 1824 it was considered in England that we employed too many persons and too much capital per spindle. Sup. to Cyclop. Brit. art. "Cotton."

[9] The advantages of different countries for the cotton manufacture, depend, in a great measure, on their natural condition—long habits and laws. England is superior to most in the abundance and cheapness of iron for machinery; in coal for warming buildings and moving steam power; in suitable climate; ingenuity, experience, and skill of mechanics from great division of labor, &c.; in greater commerce to find best markets; capital at low interest, and wages not high; and property secure. But taxes there and raw material are high, and living is more expensive than in some other places. Edinb. Rev. (1835) page 466. McCulloch, 446. A great increase is supposed to have taken place the past year in erecting cotton factories in England.

The United States, by numerous and cheap water falls, have a good substitute for steam, and will soon have coal as low for warming; have equal ingenuity, and probably now superior merit in machinery; but iron and coal are dearer, and raw material and living both lower, and property as secure; wages and capital higher; much less taxation; and a protective tariff. It is said in Amer. Cyclop. art. "Cotton," that the introduction of the power loom in 1815 has given great permanency and prosperity to our

cotton establishments. See table L, notes to spindles, and notes above in

this table for something more on England and United States.

As to France, Switzerland, India, &c. it is not necessary nor convenient here to enter into details beyond what is stated in other parts of these notes. But it may deserve notice, that the increase in the use of raw cotton has been at a much more rapid rate in England than in France. Edin. Rev. (1832) page 433. See Eaines, 525 and 6, and 515, on these points. See table I—note. See below, note [11.]

The value of cotton manufactures in England is, comparatively, equal to two-thirds of all her public revenue, and to nearly all her exports of other articles. Table M, note 3. In 1797, the cotton manufacture, it is said in Seybert, page 92, took the lead of any other in England. But in 1816 she consumed no more raw cotton than the United States do now.

- [10] The capital of France invested in cotton manufactures, is given for only one year, and computed at a medium between \$20 per spindle, as in England, and \$46 per spindle in the United States. As I have no French estimates on this subject beyond the data given in Baines and other authors, as to the number of spindles merely, and their cost at different periods, the computation has not been extended to other years. Baines, 517 and 518, gives estimates showing that France requires 28 per cent, more capital than England to produce the same manufactures, according to some persons, and according to others 75 per cent. But Doct. Bowring estimates the difference at about 30 to 40 per cent. Baines, 520.
- [11] The subject of wages in the different kinds of manufacture, and in different countries, has not been discussed in detail. But see on it Wade's Hist. of Mid'g Classes, 570 to 576. It may be interesting to many to know that the average wages in 1832, in the United States, of all employed in a cotton factory, were about 14s. 11d. sterling per week; in England, about 10s., sometimes 12s.; in France, only 5s. 6d.; in Switzerland, 4s. 5d.; in Austria, 3s. 9d.; in Saxony, 3s. 6d.; and in India from 1s. to 2s. per week. Ditto, page 576, and Westminster Review for April, 1833. In Niles' Register, November, 1817, page 156, it is said to be only two cents per day in India; but that is probably too low.

L.—COTTON, MANUFACTORIES OF,

ersons	employed, co chiefly,	number of,	h factories	Spindles	cinployed is	n factories,	number of,
Years.	In England.	U. States.	France.	In England	U. States.	France.	Switzerla'd
1750 1760 1770 1784 1787 1789 1790 1791 1792	20,000 16,000? 30,000 80,000 162,000 to 260,000	-	-	49,500	70		
1793 1794 1795 1796 1797 1798 1799 800 801 802 803			•				
804 1805 1806 1807. '	-		120,000		4,500 8,000	81,000	
809 810 811 812 813 814 815 816	800,000? qe.	100,000		Millions. 5 4½? query.	31,000 87,000 80,000? query. - 122,646 130,000	Millions.	
817 818 819 820		_	-	63 63	220,000	$1\frac{2}{100}$,
821 822 823 824 825	427,000		7	6? query.	230,000		259,2 0 0
1826 1827 {	705, 000 to 1,000,000		-	-	Millions.		
1829 1830 1831	policy and the second	{ 179,000 } { 175,146 } 200,000	200,000	7 - 7½ to 8½	14		
1832	1,200,000 1,500,000	9900	600,000	91		3 -	
1830		[4]	[3]	[5] [6] [11] [12]		[7]	[8] • [10]

- [1] The early computations of the number of persons employed are very loose and contradictory. That for 1750, is from Smithers's History of Liverpool, page 154; that for 1760 and 1770, by Edinburgh Review (1827); for 1784, by Smith. and Baines, 218. The more recent estimates for 1809, are too high, and are by Seyb. page 92, and for 1827 in 2d line, are from Edin. Rev. page 13, (1827,) and page 427. (1835) and McCulloch, 443, and The last make the actual laborers only 900,000. As the cloth made is finer, more persons are required to a given number of spindles. So if it is stamped or printed (see below). It is computed, that in 10 years after machinery was introduced into the manufacture of cotton, the number of persons employed in it, was still augmented tenfold; some have said forty times, which is too high. But it no machinery had been used in 1826, beyond what was used in 1760, it would have required from 42 to 53 millions of persons to perform what was then done in the cotton manufacture. (Quar. Review, 1826 and Brownring's Great Britain, pages 232.) They say one man now equals by machinery, 120 in A. D. 1780, or 200 according to Kennedy cited in Edinburgh Review, page 18, (1827.) Smithers 127; or in 1815, one equals from 40 to 60. Edinburgh Encyclop. "cotton." In 1833, Pebrer, page 314, estimates, that 80 millions of persons would be needed in the cotton manufactories without machinery. See on some of above, London Encyclopedia, article, "cotton," printed 1829, and in Edinburgh Cyclopedia, article cotton, (1815) where the number of persons employed is estimated at one million; but too high. See below, note [11.]
- [2] In Spain, in 1803, it was computed, that 6,792 persons were employed in the manufacture of cotton goods. 1 Dictionary of Spanish Com. 65; and in Switzerland, in 1831, about 28,000 persons. West. Rev. for April, 1833.
- [3] The number in France for 1834, is from Baines, page 521. Many there engage in agriculture a part of the year as in India. The number for 1806, is from data in London Cyclopedia, article "cotton," and supplement to Ency. Brit: "cotton" where in 22 departments the number of persons engaged in spinning is said to be 28,460, and in weaving 31,107 persons, and the spindles 800,724. These must include most in France, and the other persons incidentally engaged must be almost double to constitute the recent number of 6 or 7 persons to a spindle in making fine and colored cloths. The number for 1831, is from the West. Rev. April, 1833, page 397.
- [4] In the United States, the estimate for 1815, was made by a committee of the House of Representatives, February 13, 1816. The number includes all engaged in the manufacture, or in making the mills, machinery, &c. and not those alone inside of the mills. These last in 1832, were computed by Reuss, on Am. Trade. page 274. at only 28,683. but by McCulloch's Dictionary, page 448, at 57.466. In 1830, by New York Convention, at 57,520, and dependants at 117, 626 persons, or 175,146 in all, as in 2d line of the table.
- [5] SPINDLES. The spindle is the most convenient article in the cotton manufacture, by which to calculate the extent of it. The power of any one establishment, its cost, the number of persons employed, the quantity of raw cotton consumed, the yarn or cloth made, and most other impor-

tant results can, by the help of a few general data, be very nearly deduced

from the number of spindles.

On the great gain in substituting for the distaff and the spindle used by hand, the present machinery for spinning and other processes to complete the manufacture of cotton, whether moved by horse power, water or steam, some illustrations have already been given in the first note to this table,

and in table K.

With a view to furnish a few more details, which may possess some usefulness and interest, it may be remarked on the power of the spindle, that by improvements in machinery it is said that one now sometimes revolves 8,000 times in a minute, instead of only 50 times as formerly, and that one will now spin on an average from one-sixth to one third more than it did 20 years ago, (below, note 12). Indeed, in 1834, it is said that one person can spin more than double the weight of yarn in a given time than he could in 1829. Schior's Outline of Political Econ. page 198. The quantity of raw cotton spun by one spindle, depends of course, on the fineness of the thread and quality of the machinery. In England, where a considerable portion of the the yarn is finer the average is about $8\frac{1}{2}$ ounces weekly, or from 27 to 28lbs. vearly: (McCulloch, 441 note,) while the average in the United States is about 50 pounds yearly, of varn number 20 and 25 in fineness and about 26 pounds, of number 35 and 40. In 1808 the average was computed at 45 pounds per spindle, of cotton yielding 38 pounds of yarn. (Report to Congress, 1810.) The difference in weight between the cotton and the yarn by loss from dirt and waste is usually estimated from one twelfth to one-eighth. (Baines, 376) At Lowell 100 pounds of cotton yields S9 pounds of cloth, (Lowell Statistics, 1836,) though the average here used to be estimated at only \$5 pounds, (Niles Register, (1827) page 211.) when cotton was not so well cleaned and machinery less perfect. One spindle at Lowell produces through looms &c. on an average 1 - yards of cloth, daily: but this result must differ greatly with the fineness of the thread, excellence of the looms, width of the cloth, &c.

In 1830, it was computed, that 37 spindles were necessary to supply one loom; thoughin 1827, at Lowell, the actual proportion was only 26, at Exeter in 1831, it was 29, and now at Lowell it is 31. The number of looms, in England in 1832 was only 1 to about 40 spindles, so much more yarn is made and not woven there. (McCulloch 441) and those were mostly hand looms. But in 1834, the number of them was about 100,000 power looms and 250,000 hand looms or in all, about 1 to 30. (Baines, page 237.) One loom formerly wove daily, about 20 yards of cloth of the ordinary sevencienths width, more of the 26 inches in width used for calicoes, and less of the 5 quarters wide. The average now is from 30 to 40 yards of No. 20. At Lowell in 1835, it was 38 to 49 yards of No. 14, and 25 to 30 yards of No. 30. It requires from 4 to 5 yards of cloth of Nos. 20 to 25 yarn; to weigh

one pound, and 5 to 6 yards of Nos. 35 and 40.

The power of the spindle, as connected with the number of persons actually employed in factories, is, that, in making plain cloth of ordinary width and fineness, one person is needed to conduct all the business from the raw cotton to the finishing of the cloth for every 20 spindles. If the cloth be colored and printed or stamped, one person will be wanted for every 7 spindles. This would be about 250 persons for all purposes in a factory of 5,000 spindles, making plain brown cloth. One person can manage from 2 to 3 power looms.

The proportion of spindles to a factory was formerly very small, both in England and this country. Before 1806, it was only one or two hundred sometimes, and seldom exceeded 1,000. Soon after that some mills were built, containing 4,000 spindles. The average in new mills is now from five to 6,000. In Lowell, 1836, in 27 mills they have 129,828 spindles, or a little under 5,000 to each, though they print, &c. in some.

A factory with 5,000 spindles, must be about 155 feet long and 45 wide, 4 stories in height, and contain about 140 looms, with other suitable machinery for picking, warping, sizing. &c. Such an one with a few shops and out-houses appurtenant and lami and water privilege, would cost from \$140,000 to \$220,000, according to the materials for building, whether wood, brick or stone, and the distance from navigable waters, so as to affect cost of privilege, freight. &c. with other circumstances too numerous for recital. If bleaching or printing cloths be added, more expense will be necessary, and more persons than 550, the average for such an establishment including machinists.

This would be a permanent investment of capital in buildings, water power, machinery and all appurtenences equal to \$28 or \$44 per spindle, independent of the temporary investment of capital to buy raw cotton, pay wages, &c. It would oftener reach, and even exceed the latter sum than only the former. (See table K, on capital.) In 1810 it was computed, that the capital actually invested in machinery and real estate, averaged \$60 per spindle. (Report of 1810.) It is not proposed here to go into any comparisons of this expense now with former periods, or with other countries, except in regard to to the spindle alone, and the machinery as a

whole. For the rest see table K.

In 1806, when machinery could not by law be exported from England, and the machinists here were unskillful and few, the spindle and its appurtenances from the picker to the loom inclusive, it is computed, cost \$30 each; or 3 to 400 per cent higher than it cost at that time in England, and

over double its present cost in the United States.

The great fall in its cost and value since, with various improvements in machinery, has been the cause of much loss to many capitalists employed in the manufacture. By A. D. 1820, the machinery cost only about double its then value in England. In 1826, the machinery was made here on an average, for about \$14 per spindle, and though now lower it still costs from 40 to 60 per cent more than in England. The whole machinery there and the mill cost only \$4.16 per spindle. (Baines 368, 414,) But that includes probably no learns, &c. and merely the building without the water or steam power, and i've main spindle, moved by hand, and costing less than half what the threstle spindle costs, and which is chiefly in use In France, in 1572, the spinche alone, which is about half the expense of all the machinery, cest so. It used to cost there \$10. (See Hocklin's Livid.) Now the spindle alone costs here about \$41, if of the throstle kind, and \$21 if of the mule kind. In some places in the United States 5 per cent higher. The former clone cost here, late as 1826, it is said, \$8 each. The spindle used in the filling frame, quite extensively at this time, costsabout \$6.

These may constitute useful and sufficient data for further computations. As a matter of some curious interest it may be added that one pound of cotton usually makes 8 yds. of coarse muslin, and is then increased in value from the raw cotton eight-fold. But if spun into the finest yarn, it is worth 5

guineas, and in 1780, if woven into muslin and tamboured was worth £15. (5 Anderson's History of Com. 878.) It may now be converted into a piece of lace worth 100 guineas. Senior's Outline of Polit. Econ. 162, 178. In India, in 1786, they could spin cotton threads over 115 miles to the pound; in England they have since been spun 167 miles long from a single pound. Baines, page 59. Niles' Reg. page 181, March 24, 1821. One pound of cotton spun into No. 160 yarn, extends about \$4,000 yds. in length. Smithers's His. of Liv. page 127. The yarn spun yearly in England would reach round the globe 203,775 times or over 600 times each day. Baines,

page 431.

They use flour for sizing, &c. in cotton manufactures, 42½ pounds to each spindle per annum, or four pounds weekly to each loom. In this country but one pound weekly to each loom. McCulloch, 41%, as to report of 1832. But at Lowell, 3,800 barrels to 4,197 looms yearly, or near four pounds each per week. In England three times as many spindles and factories are moved by steam as by water. Edin. Rev. page 472 (1835). In the United States not one in a hundred factories is moved by steam. The power to move all the cotton mills in England, equals that of 44,000 horses, of which only 11,000 is by the water wheel. Baines, 395: In 1824, the whole power was estimated at only 10,572 horses. Sup. to Encyclop. Brit. "Cotton." Each factory, of common size and employment, requires from 60 to 80 horse power here, or about 11½ horse power to 1,000 spindles.

- [6] For the number of spindles in England, in 1789, see Smithers's History of Liverpool, page 124. For 1812, Edinburgh Encyclop, article "Cotton;" for 1817, Edinburgh Rev. (1827): for the rest, in 1811 and in 1824, Sup. to Cyclop. Brit. "Cotton;" and the others, Brines's Hist. 368, and McCulloch, 441, &c. &c. The above numbers include Scotland. The first cotton mill built in Ireland, was in 1780. London Cyclop, article "Cotton," and Sup. to Encyclop. Brittan. "Cotton." In 1824, Ireland had 145,000 spindles. Sup. to Encyclop. Brittan. "Cotton."
- [7] For 1812, in France, see Quart. Rev. page 357, (1821/5,) and French Industry, by Chaptal, page 15, who says, they then spun only about 30 millions of pounds; this was a large number for the enton spun, as the spindles were poor and imperied. For 1/32, see Nicho. Recellin's evidence before the Chamber of Peers; that is from one-half to one million too high, as grounded on an English estimate, which was too large, too many for the quantity of cotton spun; for 1818, from 2 Chaptal, page 145, who makes 220 factories. Very little spining by rushinery, in Trance, till after 1785. Quarterly Review, 394, (1821/5). First in 1787, (Sup. to Cyclop. Brit. "Cotton,") though cotton had been spun on which since 1767. See 2 Chaptal's Industry of France, page 4. And the cotton cloths were chiefly made from thread or yarn imported from England. Switzerland, and the Levant. There were large numbers of cotton pocket handkerchiefs made at Rouen, Montpelier, &c. early as 1789. 2 Chaptal's Industry of France, page 4.

France had, in 1818, 70,000 looms for cloth, and 10,500 for spining hosiery. 2 Chaptal on French Industry, page 150. But his estimates on all these subjects are considered high. In 1806, her looms for cloth in twenty-two departments are stated at only 28,634. London Cyclop. art. "Cotton," In 1806, the estimate, as to the number of spindles, is from the

London Cyclop. art. "Cotton;" it is increased a little, for the rest of France not included in the above article, and is about one spindle to 25 pounds of raw cotton spun that year, which is a fair proportion, when the goods made are fine, and the machinery is not of the best quality. See note above, and supplement to Encyclop. Brit. art. "Cotton." Power looms are not much used yet in France, West Rev. Ap. '33.

[8] Some spindles and looms moved by machinery have been introduced into India; but most of the cotton manufactured there is by women and in households: the men, who aid in weaving, are also often laborers on the land. Report of the committe on the affairs of the East India Com. App. 310, 1832. Wade on Midd. Classes. page 576. Yarn is often imported from England, it is there spun, so much cheaper by machinery. Smithers, 127. So in Saxony, Russia, &c. Supplement to Cycloped. Brit. "Cotton," In China, it is said, cotton mills with spindles,&c. have been forbidden. In Egypt they have been introduced, but do not succeed well from the dryness of the air, its impurities by fine sand, and want of skill; (Hodgden,) but they are still used by the Government. In Spain, in 1802, were 3,705 work shops for cotton or small manufactories, and 1,494 looms. I Diet, of Com. 65. 3 do. 198, larger. In Switzerland, the first mill with machinery, was built in 1798; London Cyclop, art. "Cotton," where is some notice of a few spindles in other parts of Europe, viz: Saxony, Russia, Prussia, &c. So in Sup. to Encyclop. Brit. "Cotton." And in West. Rev. for App. 1833. The number in the table is from Sup. to Encyclop. Brit. "Cotton."

[9] The number of spindles in the United States.can be computed from the data before given. For those before 1835, see Pitk. Stat. 526, and McCulloch, page 448, and Reuss. Am. Tr. 270. Those for 1809 and 1810, the last too high in his table—see Gallatin's Report for the number in 1807 and 1811. Those at some other dates are from manuscript. Gales and Seaton's Documents, 2 Finance, page 432. Those for 1814, are from Cox's tables. Ditto, page 694, and Seyhert Statistics, page 7, and were returned between 1810 and 1814. For 1820 and 1822, Niles' Register, page 35, March 1823. Those for 1835, are estimated by me on former data. In 1810. Cox in his tables returns 269 mills, but too many, if over oneeighth of them were for cotton Very few spindles were in each of those built before 1807 and '8. The spindles in 1830, are from the manufacturers' convention, and only 12 States, but included most of the manufac-Those had 33,506 looms, to about 14 million of spindles, or near 1 to 40. At Lowell, 129,828 spindles exist to 4,197 looms, or 1 to 32. This is near one-thirteenth of all the spindles in the United States. Lowell Statistics, 1836. The first mill-built there was in 1822, and in 1826, only 2,500 spindles. See Boot's letter to Carey. About 78,000 spindles a year should be added here to make cotton cloth sufficient to meet the demand of the present annual addition to our population. The spindles have increased somewhat faster than that ratio the last five years, and have increased beyond the exports of cotton goods. Of the number of spindles here at different periods in factories, those in 1790 or 1791, were in one mill at Providence, erected by Slater and Brown: those in 1805 were mostly, if not all, in Rhode Island, and two in Massachusetts, and only 8 or 10 mills. One was begun at New Ipswich, in New Hampshire, as early as 1803, it is believed

and one or two in Massachusetts, and one in Connecticut before 1808, one near Philadelphia before 1798, making in all, at that time, 15 mills. Of the spindles in 1815, about 118,000 were in the same State. Gallatin's Rep. 1810; New Hampshire Gazetteer, article "New Ipswich." The Waltham factory in Massachusetts was not erected till 1810 or 1814, and has since devoted much capital to making machinery. There was a great increase in 1806 and '7; again during the war of 1812; again from 1820 to 1825; and in 1831 and '2. If prices continue high as the past year, and the raw material falls, or is stationary, the new markets in Asia, and increased demands in Europe and America, by increased use of cotton, and increased population, will enlarge the number of factories here; but it is very easy, with our extensive water power, and cotton lands,

to overstock the market.

It seems that two machines for spinning and carding were, with much difficulty, obtained in this country, at Philadelphia, early as 1788. One carded 40 pounds of cotton a day, and the other had 50 spindles, and the growth of cotton was urged on the southern States, and the use of these machines in families recommended. In 3 Carey's Museum see the description more at large. In 5 Carey's Museum. (A. D. 1790.) it is said, a, model of a cotton mill and machinery, &c. as used in England, had been obtained at Philadelphia, by the society for promoting manufactures and useful arts. It would seem that T. Cox, Esq. took an active part in urging the cultivation and manufacture of cotton on the country early as 1787. Rees's Cyclop. ar. "United States," and Gales and Seaton's Doc. page 676, vol. 2, of Finance. The English prohibited the export of the cotton machinery, as well as the emigration of their mechanics, under such penalties as delayed the introduction of it here, and caused the price of machinery for many years to be so high here as to retard, and almost defeat successful competition. See before.

- [10] For a detailed account of the different kinds of machinery used in the cotton manufactories, the inventors of them, improvements in them, &c. See London Cyclop. art. "Cotton," and same article in the New Edinb. Encyclop. and supplement to Encyclop. Brit. "Cotton."
- [11] The change of late years in some places in England, from the hand to the power loom, has caused some distress, and the employment of a larger portion of females and children; now about one-fifth there are men, one-third women, and the rest children. Wades' Hist, of the Middling Classes, pages 570 and '1. The number of hand looms in England, in 1820 and 1830, was about the same, viz: 240,000, but that of power looms had increased from 14,000 to 55,000. Each of the latter performs as much as three of the former. Wade, 261. Parliamentary papers, in 1830. In 1834 the power looms had become 100,000. Baines, 237.
 - [12] The American throstle spindle revolved 7,500 times before 1833, though it used to run in England only 4,500, and afterwards only 5,400. West. Rev. for April, 1833, page 403. Machinery and skill, and the raw material have so improved, that where some years ago the threads broke at the rate of 13 per cent., they break now only 3 per cent. Do. Many modern improvements in machinery in England are from America. West. Rev. Ap. 1833.

M. COTTON, MANUFACTURES OF.

Values of exports of their own, from-

	England.	France.	Germany.		Turkey and Africa.		U. States.	China.
Years.	Dollars.	· Dollars.	Dollars.	Dolls.	Dollars.	Dollars.	Dollars.	Dollars.
1789	Millions. Offi. Value.	Millions.	Millions.	Mil'ns.	Millions.	Millions.	Millions.	Millions.
1790 1791 1792 1793	6 8 9 9 3 4 81		, ,	p				
1794 1795 1796	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,					
1797 1798 1799 1809	17 17 28 26½	Anny		1	1			
1801 1802 1803 1804	33 37 34 41	_ 	<u>-</u>	$\bar{5}$.	. –	-30		
1805 1806 1807 1808	45 50 48 61	-					oran .	4
1809° 1810 1811 1812	-92 90 68 78			ø	,	The state of the s		
1813	Real or dec.	-	n.comp	. —	_	18	4	
1814 1815 1816 1817	84 95 106 98 86 71 101 76		1	,				
1818 1819 1820 1821	98 89½ 88½ 70 107½ 79 113 77	_	and the second	Aurilla .	-		_	3
1823 1823 1824	128 82 137 821 143 86	$\begin{array}{c}4\frac{1}{2}\\6\frac{1}{2}\end{array}$,			-		
1825 1826 1827 1828	135 85 119 71½ 157 83½ 159½ 81	quad -		atemas amaga	-	•	$1\frac{1}{10}$ $1\frac{1}{10}$	13
1829 1830 1831	197 831 188 81 208 83	10 10 10 1 3	` ,	_			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-
1832 1833 1834	209. 83½ 222 88¾ 98½	10; 11, 10,		done SMD			$ \begin{array}{c} 1\frac{1}{1_0} \\ 1\frac{2}{1_0} \\ 2\frac{1}{1_0} \\ 2\frac{1}{1_0} \end{array} $	4
1835 [1]	(88) 88½ [2] [3]	[4]	[9]	[5]	[10]	[6]	[7]	[8] [9]

[1] The exports of English manufactures in 1833 and 4, were about one-third in *value* in yarn. See Edinburgh Review, 472, (1835) Baines's and Official Reports. See table K. note on capital. Some years yarn con-

stitutes one-half in weight.

From 1814 to 1823 inclusive, the value of yarn exported compared with the value of other cotton goods increased slowly, from being about one-seventh and one-sixth, to be about one-fifth. London Cyclopedia, article "Cotton." The proportional increase of yarn has been even greater since. See Parker's speech in Parliament, February, 1836. The yarn exported is understood to be generally coarse; between No. 18 and 40. From half to three-quarters of the *lace* made is exported chiefly to the continent. It is mostly made of sea-island cotton, and equals near 9 millions of dollars in value yearly, McCulloch, page 744.

[2] The difference between the official value on exportation, and the declared value is given above. But the declared, or what is sometimes called the real value, in the 2d column is still usually from 2½ to 5 per cent, under the actual market value. (Baines, page 403.) The official value is founded on the quantity, computing the price as it was about the close of the 17th century, or A. D. 1689. The market value has changed more from the official in some articles than in others, e. g.

In 1829, calicoes plain per yard - - 1s. 3d. Official.

" calicoes printed per yard - - 1 6 official

" " " " " - - 0 8\frac{3}{4} real.

" cotton yarn and twist per cwt - £10 0 0 official

" " " " " " " 7 5 0 real.

(Baines, page 351.) See more on prices of manufactures, table K, note 1. The sum entered for 1835, is only for the year ending 5th Jan. 1835, and not any subsequent; and the second sum for 1834, is for the year 1834 only to 5th Jan. while the first sum for 1834, is probably for the whole fiscal year. Some discrepancies occasionally arise by the statements being made with different terminations for the year, as some end in April, and some in January, &c. See returns.

- [3] The exports of dotton manufactures from England are now, and for some years have been, nearly equal to one half of her exports of every kind. The above sums for England are from Baines, page 350. The records for 1813 and before that, for the declared value were burned. Those sums do not include Ireland, amounting from one-tenth to three-tenths of a million yearly. Aikin says 63 per cent, of what is made in England is exported, and Edinburgh Review, page 472, says, in 1833, that the exports from England were about 18½ million pounds sterling, and consumption about twelve and one-tenth million sterling. See for 1831,–2 and 3, McCulloch, 675.
- [4] The exports from France in 1823 and 4, are from 2 Dictionary of Spanish Commerce, page 148. In 1829, from Edinburg Review, page 62, (1829.) In 1833, from Baines 525, note, and in 1831 and 2, from the French tables of commerce, with a slight addition or variation, it is believed, in some cases in the value of the franc. In 1830 from Westminster Review, April, 1833, and Wade on Working Classes, 575, and that 7 millions were printed goods.

[5] Those from Spain in 1803, were chiefly from her possessions in India and America. Dictionary of Spanish Commerce. Spain of late imports largely of cotton manufactures. See table O, note 1, and table N. The Moors introduced this manufacture into Spain, early as the 9th or 10th centuries. Baines, page 38.

[6] Those from India are estimates, and might be extended, from the following data. Her islands and she have long had a domestic trade in cotton goods. 3 Crawford's Hist. of Ind. Archip. 350. It then spread to other

parts of Asia, to the eastern coast of Africa, and next to Europe.

India in 1813, exported to England alone 10 millions of dollars worth of her cotton goods, and now imports as much from England. Montgomery's Anglo. East, Emp. But she still exports certain kinds to England valued in 1831, at about 2 millions of dollars; in 1832, at 1½ millions; and in 1833, at 1 million. Some of these are re-exported. Mct'ulloch, page 672 and 676; Evid. on East Ind. Comp. page 310, App. In 1802, 3. and 4. the United States imported cotton goods of India origin, worth nearly 3 million dollars per year. Seyb. page 218. Hence the exports of cotton manufactures from India formerly were large. But they have fallen off greatly, and especially since 1816, to the United States. Pitk. Stat. 188 and 9. She often exports raw cotton of late years, instead of cotton manufactures. Supplement to Encyclop. Britt. "Cotton." See Seyb. Stat. page 289, on our whole imports thence in 1814, and chiefly cottons. See above:

[7] Those exports from the United States are from official tables. They doubtless would have increased much more rapidly, had the demand for them at home not been so great, by means of their good quality, cheapness and our increasing population.

[8] The whole exports of cotton goods from China to England and her dependencies in 1832, were valued at about 4 million of dollars. McCulloch, 237, article 6 Cotton," and page 240, where is given the pieces of nankeens so exported from 1793 to 1831, which alone at 50 cents each, would range from \$\frac{1}{10}\$th to \$\frac{1}{2}\$ million of dollars yearly. In page 813, he thinks the exports of nankeens have been on the increase to different quarters.

From China the exports of cotton goods consist chiefly of chintzes and nankeen, and the amounts in the table are estimates. The former have greatly diminished of late years. Supplement to Encyclop. Britt. "Cotton." She imports now both English and American cotton goods. (See exports

of them, Tables N, and O.

In 1802, 3, and 4, the United States alone, it is estimated, imported Chinese cotton goods valued from 1 million of dollars to $1\frac{1}{2}$ million yearly. See official returns of all articles imported from China, Gales and Seaton's Doc. page 599 in 1 vol. on Com. and Nav. Formerly the United States imported largely of nankeens, so as some years to export $\frac{1}{100}$ million of dollars of them as in A. D. 1792, Gales and Seaton's Doc. page 144, vol. 1, Com. and Nav. But our official returns since as well as before 1821, do not discriminate the cotton goods imported. From 1818 to 1827, they fell off from about 1 million to $\frac{1}{4}$ million. Pitk. Stat. 305, McCulloch, page 242.

[9] The exports of cotton goods from Germany are chiefly by land and not extensive. This trade could not have existed at all formerly, and the estimates are too uncertain for much reliance.

In and near Vienna are established considerable cotton manufactures by machinery. Supplement to Ency. Britt. "Cotton." According to McCulloch Dict. page 448, the cotton exports from Austria are chiefly in yarn. They are on the increase. See Wade on Working Classes, page 576.

- [10] From Turkey, including the products of Smyrna and the neighborhood as well as Barbary and Morocco, there have been frequently exported in former years, various articles of cotton manufacture; but not of great value as a whole. This manufacture was introduced into Turkey in Europe in the 14th century by the Turks. Some cotton cloth was imported from the coast of Africa to England about the close of the 16th century. The growth and manufacture of cotton were diffused much by the Mahometan conquests. 2 McPherson's Com. 193; Baines 32.
- [11] The barrenness of this table is another illustration of the small extent in the foreign trade of cotton goods except by England, France and the United States. It presents also a singular illustration of the recent date of their progress in it, and of the difficulty in knowing much of the ancient or older business of India and China in this branch of their trade, with such accuracy as to deserve reliance: though more leisure might probably have enabled me to present some more statistical facts on that subject, than I have yet met with. See the diffusion of this manufacture by the Mahometans from Arabia &c. note (10) in this table, and (5).

In 1825, the Dutch exports and imports at Japan, are given (McCulloch, page 812,) and the former as well as the latter contained a few cotton.

goods, from 5 to \$8,000 in value.

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COTTON—MANUFACTURES OF.

Exports of	their own-	-to what place	es—values of.
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Si Dellara Dividia		
Dollars. Dollars. Dollars. Dollars. Dollars. Dollars. Dollars.	જે	Various places to Russia. England to Brazil.
	Year	Dollars. Dol's.
Millions	1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818	Millions. Mil's.

N.—Continued. COTTON—MANUFACTURES OF.

Exports of their own-to what places-values of.

	England to United States.	England to France.	England to Germany.	England to Netherlands.	England to India & China.	England to S. America and Mexico, except Brazil.	Various places to Spain.	Various places to Russia.	England to Brazil.
Years.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dol's.	Dollars.	Dol's.
	Millions. Real	*****		Millions.	\mathbf{M} illions.	${f M}$ illions.	Mil's.	Millions.	Mil's.
1820	Offi. or dec.	Whole sum. 8,700	20	5	4	_ ·	-	$4_{\frac{3}{10}}$	
1821	$6\frac{6}{10}$	~ 8,500	18	5	$5\frac{1}{4}$ $5\frac{1}{2}$				
1822	$S_{\frac{2}{10}}$	18,000	$ \begin{array}{c c} 19 \\ 14\frac{1}{2} \\ 13\frac{1}{2} \\ 15\frac{1}{2} \end{array} $	$\frac{5\frac{1}{2}}{7}$	$5\frac{1}{2}$		•		
1823	7	22,000	145	61	$\frac{6}{53}$			-97	
1824 1825	11	55,000 57,000	155	$\frac{6\frac{1}{2}}{7}$	51 51		_	$2\frac{7}{10}$	
1826	61	119 000	14	6	534 5234 541 92				
1827	$ \begin{array}{c c} & 3 \\ & 3 \\ & 6 \\ & 6 \\ & 6 \\ & 13 \end{array} $	122,000	$ \begin{array}{c c} 14 \\ 14 \\ \hline 13 \\ \hline 4 \end{array} $	$-6\frac{3}{4}$	$9\frac{1}{5}$	5½ 5¾ 7¼ 8¼ 7¼ [7¾]			
1827 1828 1829	$8\frac{3}{4}$	110,000	133	$6\frac{3}{4}$ $6\frac{3}{4}$ 6		$5rac{ ilde{3}}{4}$			
1829	$6\frac{1}{2}$	122,000 50,000	144	$6\frac{3}{4}$	-	$7\frac{1}{4}$			
1830 1831	$6\frac{2}{10}$	50,000	$ \begin{array}{ c c c } \hline 14 \\ 11\frac{1}{4} \\ 15\frac{3}{4} \end{array} $	6	-	84		,	דיפ
1831	10	1 /2 X U V U U U	$11\frac{1}{4}$, 65	91	$7\frac{1}{4}[7\frac{3}{4}]$	7.	· -	53
1832	$S_{\overline{1}\overline{0}}$	318,000	15%	$\begin{array}{c c} 6\frac{1}{5} \\ 8\frac{1}{3} \\ 9\frac{1}{10} \end{array}$	$ \begin{array}{c c} & - \\ & 9\frac{1}{4} \\ & 8\frac{2}{3} \\ & 8 \end{array} $	$6\frac{1}{3}$ $6\frac{1}{2}$		$\begin{array}{ c c } 6 \\ 6\frac{1}{2} \end{array}$	$\frac{3\frac{1}{3}}{6\frac{1}{3}}$
1833	$0 \frac{3}{10}$	450,000	$14\frac{1}{2}$	9To	8	02	-	02	
1834	$\begin{bmatrix} 8_{\frac{1}{10}} \\ 6_{\frac{3}{10}} \\ [or 8_{\frac{3}{10}} \\ 8_{\frac{2}{10}} \end{bmatrix}$	730,000	153	10	71/3	8	5	6	71
1835	\ \(\frac{1}{1}\) \(\text{0}\)	100,000	104	10	3			,	
[1] [3]	[10]	[4]	[9]	[2]	[5]		[6]	[7]	[8]

^[1] This table shows chiefly the exports of cotton goods from England to different places, and from 1820 to 1833 the values are mostly taken from official documents. Porter's tables, 161–7, page 300. The statements in different books sometimes differ from referring to different terminations of the year.

^[2] Since 1832 Belgium has taken, in that year and 1833, about 1½ millions of the amount of what is placed to the whole Netherlands from England. In 1834, it is said by Alexander, she imported of cotton goods, from all places, about 2½ millions of dollars, and smuggled twice as much more, that did not appear on the official returns.

[3] The exact consumption of manufactured cotton goods in each country is seldom attainable. But an approximation to the quantity or value can be easily made from the data given in the tables. Thus the quantity of cotton manufactured in each and not exported, will, with the imports of cotton manufactures not afterwards re-exported, constitute nearly the true amount.

Another general mode of computation might be, that in such countries as Turkey, it has been estimated that only two pounds of raw cotton per head, made into manufactures, is consumed. (Urquhart's Views, page 150.) In warmer, and still poorer countries it would be less. In France, each person is estimated to consume \$4 worth of cotton goods per year; in England, \$5; and here probably \$6.

The exports to Germany and Netherlands are from one-third to one-half in twist and yarn, and are woven there. Porter's tables, page 300. and Baines, 416. So in a great proportion to Russia. Sup. to Encyclop. Brit. "Cotton;" and some even to India. See table O. So chiefly to Prussia.

Blackwood's Magazine, for January, 1836.

- [4] The exports to France from 1789 to 1793 are computed at 5 millions of dollars yearly, in Quar. Review, 394-9 (1824-5). See official returns for the table, and McCulloch, page 644. But it must include all smuggled, and is then not too high. It equals the whole amount of all the regular imports of cotton goods into France at that time from all quarters. 2 Chaptal's Industry of France, page 9. The sums in the table for 1789. &c. are from Bowring's Report, page 52, who says that 10 millions of dollars worth of English manufactures, and chiefly cotton, are of late years smuggled from England to France. See also Baines, 517, note. 'The whole imports of such goods into France in 1823 were 9 millions of dollars; in 1824, 12 millions of dollars. In 1806, about 14½ millions of dollars worth were smuggled. Sup. to Encyclop. Brit. "Cotton." See 2 Dictionary of Spanish Commerce, page 214. In 1812 all the legal imports of cotton goods into France were less than a third of a million of dollars. 2 Chaptal, page 9. Of those smuggled, in late years, quite 2 millions of dollars worth were in bobbinet laces. McCulloch, 1054.
- [5] The exports to India include the islands, and for 1831 and 1832 are from McCulloch, page 446, and the others mostly from official tables. See more in McCulloch, 235, as to that part by the East India Company. The trade in cotton manufactures has increased greatly since the first opening of it in 1814. Do. 533–4, and 539, another table.
- [6] These exports to Spain were chiefly from England, France and Italy, and some from Spanish America. (Dictionary of Spanish Commerce.) Those direct to Spain from England, in 1833 and 1834, were only about 1 million of dollars. But England exported to Gibraltar, in those years, from 1 to 1½ millions of dollars in cotton goods. (see official tables) and which found their way in part into Spain. McCulloch, Dic. page 600. The sum for 1834 is a computation only on the above data, and the fact that France exports therefrom 2 to 2½ millions of dollars yearly. See table O, note [1].
 - [7] The imports into Russia in 1832 were almost wholly from England. Porter's tables, 545; Baines, 416. In 1833, from England, 6 millions of

dollars; and in 1834 only $5\frac{1}{2}$ millions of dollars. Some of them go to places in the Black Sea, &c. McCulloch, 859. Russia excludes certain cotton cloths, but not yarn. Blackwood's Magazine, for February, 1836, page 62. On others her tariff is high. 2 Smith's Com. Dig.

- [8] Exports to Brazil, &c. See McCulloch, 446; Baines, 416; and Official Reports for 1834 and 1835.
- [9] England exports largely cotton goods also to Italy and Italian islands: in 1833, 7 millions of dollars; and in 1834, 10 millions of dollars. See more in McCulloch, page 814, and page 1212, some to Venice, now $\frac{1}{10}$ of a million.

The ratio of this kind of exports from England, in 1834, was as follows: 1. Germany; 2. Italy; 3. United States; 4. India and China; 5. Holland; 6. Brazil; 7. Russia; 8. Turkey and Greece, in 1833 and 1834, over 4 millions of dollars each year; 9. Portugal and islands, in some years 3 to $4\frac{1}{2}$ millions of dollars; 10. British West Indies ditto, 3 to $3\frac{3}{4}$ millions of dollars; 11. Chili alone $2\frac{1}{2}$ to 3 millions of dollars; 12. States of Rio de la Plata alone $1\frac{1}{2}$ to $2\frac{1}{4}$ millions of dollars. See official returns, and Baines, 416. Those for Germany go largely to Trieste. McCulloch, 1186.

The whole exports to Germany in 1833, were estimated to be so divided that from 10 to 11 millions of dollars were in cloths and laces, and the remainder in yarn, being 35 millions of pounds. Beside Trieste, part of these exports pass through the Hanse towns, and others through Rotterdam

and Antwerp. Blackwood's Magazine, for January, 1836.

[10] Those exports to the United States are obtained chiefly from our own official returns of imports, though some, and especially the earliest, are from English tables.

O.
COTTON, MANUFACTURES OF,

		,0,0	TION	, INTELL	OFACI	ORES O	<i>r</i> ,	
			Exports o	f their ow	rn, to what	t places, valu	ues of,	
	France to the United States.	France to England:	France- to her colonies.	Germany to the United States.	United States to So. America and Mexico.	United States to India & Africa.	United States to China.	United States to the West Indies.
rears.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	Millions.	Millions.	Millions.	Millions.	Millions.			
1787 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1821 1822 1823				1 3 0 1 2 0 1 3 0				

O,—Continued. COTTON, MANUFACTURES OF,

	Exports of their own, to what places, values of,											
	France to the United States.	France to England.	France to her Colonies.	Germany to the United States.	United States to So. America and Mexico.	United States, to India & Africa.	United States to China.	United States to the West Indies.				
Years.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.				
	Millions.	Millions.	Millions.	Millions.	Millions.							
1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835	المسلم مسلم مسلم المسلم المسل		- - - - - 1 to 3		$\begin{array}{c} \frac{1}{1} \frac{9}{5} \\ \frac{9}{1} \frac{5}{0} \\ \frac{2}{1} \frac{5}{0} \\ \frac{1}{1} \frac{9}{0} \\ \frac{9}{1} \frac{9}{0} \\ \frac{1}{1} \frac{9}{0} \\ \frac{1}{1} \frac{5}{0} \\ \end{array}$	Whole 10,000 13,000 22,000 37,000 66,000 83,000 120,000 186,000	sum 14,000 9,000 14,900 26,000 56,000 49,000 88,000 215,000 152,000	stated. 99,000 66,000 46,000 49,000 47,000 41,000 53,000 86,000 127,000				

- [1] Over half of the exports of France, in her cotton manufactures, are to her own colonies, according to Baines, 525, note; but this is too much for 1831 and '2. France exports also, about \$1,000,000 of them per year to Holland and Belgium, one-half million to Germany, two and a half million to Spain, and one million to Sardinia. See Tables of French Commerce, for 1832. In 1831, the export was short of a million to Holland and Belgium, Sardinia and Germany each, about two millions to Spain, over 1; to Mexico, and only about one million to her own colonies, with one-fourth of a million to Hayti. Her exports to England given in table, are from her official tables for 1831 and '2. Besides that sanuggled.
 - [2] Those exports from the United States are compil tables, as far as they go back, discriminating to what ce the United States, from France and Germany, are foreturns.
 - [3] Tariff or duty on cotton manufacture manufactures to any particular country are duty imposed on their importation. A

those countries, in respect to cotton goods, would be tedious, and might be supposed to bear on the question of protection, &c. in the United States, and which question, it is not proposed in these tables or notes, to agitate.

It may be added, that the average duty imposed in France, at this time, on the imports of most cotton goods, is very high, amounting almost to a prohibition, except for re-export. So in Russia. Blackwood's Magazine, for January, 1836. In England, it is considered to be about 20 per cent, though low as 10 on some articles. Before 1826, it was much higher, 50 and 67 per cent. See 1 Com. Digest, by Smith, page 98, and Huskisson's speeches, in 1825, in Parliamentary Debates. McCulloch, page 1117. In the United States, the duty in 1790, was about 7½ per cent. on the value of most cotton goods; in 1794, raised to 12½ per cent.; in 1816, to 25 per cent. and a minimum; in 1824, the same with a certain minimum valuation, making the duty larger; in 1828, increased still more by raising the minimum; in 1832, reduced again. See the different acts of Congress on the tariff, and Pitk. Stat. page 188.

This makes the average duty in 1833, on most cotton cloths, and as computed by some, about 42 per cent, and thus exposes it to a biennal reduction till 1842, when, by the existing laws, it will become only 20 per cent. Campbell on Tariff, page 120. The duty on British cotton manufactures has lately been increased in Java, by the Dutch, from 6 per cent to 25 per cent.

Blackwood's Magazine, January 1836, page 51.

[4] More could be given on the exports of cotton manufactures from a few of the above countries at other periods, but the amount and value of them were so small as to deserve very little notice, and the increases of late years, compared with their meagre and blank condition, in this respect, a quarter and a third of a century ago, are striking indications of the revolution going on in Europe and the United States in the manufacture of cotton.

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P. COTTON.

Dates of the most important changes in the cultivation, manufacture, and trade of cotton, chiefly within the period to which these tables generally extend.

	tend.
[1] 1730 1735	First cotton yarn spun in England by machinery, by Mr. Wyatt. Smithers, 153. Cotton first grown in Surmam by the Dutch, or perhaps first exported thence.
[2] 1738 [6] 1742	A patent first taken out by Lewis Paul for an improved method in carding, and the fly shuttle invented by John Kay. Stock cards were first used for cotton by J. Hargiave in 1760, and cylinder cards were not invented till 1762, and were first used by Robert Peel. Carding not brought to perfection till 1775. Baines, 170. First mill for spinning cotton built at Brimingham; moved by mules or horses; but
1750	not successful. The fly shuttle was brought into general use in England in weaving, though some
1756 [3]	postpone the date to 1760. Baines, 116. Cotton velvets and quiltings first made in England.
[4] 1761	Arkwright obtained his first patent for the spinning frame, though he made further improvements in 176°. Became free 1784. Baines says his first patent was in 1769. So does Wade, and that his second patent was in 1771.
1763 1767	Two years after, Thomas Highs claims to have invented the spinning jenny, which J. Hargrave claims also in 1767. Smithers and McCulloch, 436. Edinb. Encyclop. art. "Cotten;" or, according to Baines, in 1764.
1769 1772 1774 [7]	The stocking frame applied to make lace by Hammond. The feeder invented by Lees, and the crank and combs by Hargrave. A bill passed to prevent the export of machinery used in cotton factories. Smithers, 155. And still in force, though not strictly executed. Blackwood's Mag. for Jan. 1836.
1779 1781	Mule spinning invented by Hargrave, or rather perfected by Crompton. Baines, p. 199. First imports of ray, cotton into England from Brazil; poorly prepared; and in three
[5]	to nine years after, first from United States of their own growth; and from India and Bourben about 1785. See table F—note, and Smithers, 156.
1782	Watt took out his patent for the steam engine, though some say in 1769 the first one;
	and got into general use to move machinery in 1790. He begun his improvements in 1761, according to Wade's History of the Middling Classes, page 82.
1783 1785	A bounty granted in England on the export of certain cotton goods. I McPhers, 42 and 56. Power looms invented by Doct. Cartwright; though previous to that some similar in dels had crissed witch had not been patented or used. Bames, 228. Supplement to Encyclop. Brit. art. "Cotton." Steam engines used in cotton factories. Baines, 226.
[9] 1786 1787	Cylinder printing invented by Bell. Baines, 267. Arkwright's patent expired, and a great impulse to manufactures of cotton. 4 McPherson, 79 and 81. Bleaching first performed by oxymuriatic acid by Bertholett. Baines, 184. First machinery to spin cotton put in operation in France, though some cotton was used
17:9	in spinning, &c. since 1767. Encyclop. Brit. 407. Sea island cotton first planted in the United States; and upland cotton first cultivated
	for use and export about this time, or three or four years previous. Some say in 1786. See tables, and Baines, 297; and others in 1790.
1790 [5] 1791 1793	First cotton factory built in the United States in Rhode Island. [8] Water power first applied to the mule spinner by Kelly. Baines, 205.
1793	The cotton gin invented by E. Whitney, in the United Sta es. This is often stated to be in A. D. 1795; but the patent is dated in 1794, March 14.
1794 1795 1796	, Sea island cotton chicfly substituted for Bourbon cotton in England.
1797 1793 1799 1800	First mill and machinery erected in Switzerland for cotton. Spinning by machinery introduced into Saxony. Encyclop. Brit. 411.
1801 1802	Power looms moved by water or steam succeed in Scotland. Dressing and warping machine for power looms invented by Radeliff and Jackson, and contributed much to their success. Blackwood's Mag. for Jan. 1836. An act passed in in England, requiring in cotton mills, as well as some others, certain clothes for appendices—not to work them more than 12 hours each day—and certain instructions in letters to be given to them, &c. Wade's History, page 98.
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P—Dates of most important changes, &c.—Continued.

1803	First cotton factory built in New Hampshire. See table L, note [9]. Power loom, as now used, perfected in England, and patented by Harrock.
1804 1805	Power looms successfully and widely infroduced into England after many failures.
1806 1807	The revolution in Spanish America begins to furnish new markets for cotton manufactures.
1908 1809	Stamping the cylinders for printing cloth by means of dies introduced at Manchester. Lace machinery much improved by Healhcott.
1810	Digest of cotton manufactures in the United States by Mr. Gallatin, and another by T. Cox, E.q. and public attention drawn to their growing importance.
1811	A patent for making bobbin face by machinery, by John Burn; though invented by Mr. Heathcott in 1809. McCulloch, 743.
1813	The India trade made more free, and more British manufactures sent there; took effect April 4, 1814. McCulloch, page 538.
1814 1815	
1816	The power loom introduced into the United States first, at Waltham, in 1815, it is said, in Am. Encyclop. art. "Cotton."
1817	India co. on goods less impored on account of the minimum in the tariff of 1815. Pick.
1818	Stat. 183. Same year the fly frame was introduced into England. New method of preparing sewing cotton invented by Mr. Holt. Cotton averaged about 34 cents per pound; the highest of any year in the United States since 1801.
1819 1820	New cotton lands sold very high in the United States. Steam power first applied with success extensively to lace machinery.
1821 1822	First cotton factory creeted at Lowell.
1823	First export of raw cotten from Ezypt to England.
1821	Higher day amples a larger Uni if Service forcing content manufactures by the minima and principle. See table O, note [3].
1825	Editioning and spinner produced in England by Roberts. Baines, 207. Sean year the tube frame introduced there from America. Cotton rose to 21 cents per pound, and great speculations in it in the United States.
1826	First exports of American cotton manufactures to any considerable value.
1827 1828 1829	Highest duty in the United States on foreign cotton manufactures. Table O, note [3].
1830	About this time Mr. Dyer introduces a machine from the United States into England to make eards.
1831	
1832	Duty on notion manufactures imported into the United States reduced. Table O, note [3]. By 1 & 2 William 4, it was provided in England, that, in cotton mills, work should not be done in night by minutes, and but 9 hours' work on Saturdays. Wades 141. 2, 113.
1833	Further opening of India trade increases the market there for English and American
1834	Cotton goods. Cotton rose to 16% cents per pound—higher than any other year since 1825.
1835	Extensive purchases of new cotton lands in the United States.
[10]	

- [1] In the 16th century, cotton manufactures came to Europe from India, through the trade of Venice. Smithers, 118. He says they were introduced into China from India about 200 years earlier, (Smithers, page 152,) having existed in the latter country from the first knowledge of it. From Venice the trade in them, and then the manufacture, went to Flanders about 1560. They existed in Arabia in the 7th century. Found in America when discovered, at the close of the 15th century.
- [2] In the 17th century, A. D. 1641, raw cotton came to England from Cyprus and Smyrna, and was taken from London to Manchester to be worked up. Smithers, 119. Edin. Rev. (1827) page 2. Though cotton manufactures had been imported early as A. D. 1500; and the first act of Parliament relating to them, nominally, passed in A. D. 1565, though

probably woollens were intended. Table A, note [12]. Calicoes were imported before 1631. Smithers, page 152. Made in London, A. D. 1681; and those from India prohibited, 1721. Smithers, page 153. Baines, 79.

Raw cotton, in 18th century, came chiefly from the French West Indies, Surinam, Brazil, and isle of Bourbon, till near its close, when the imports began from the United States, India, &c. Smithers, 123. In 1660, England prohibited her colonies from sending it to other than British ports or dependencies. 1 McPherson's Com. 486.

[3] Muslins first made at Paisly, in Scotland, A. D. 1700; but they did not succeed well, nor cambrics, till 1725, in Glasgow.

In 1759 French cambrics and lawns were prohibited by law. Smithers,

154.

[4] In 1769, Arkwright built cotton mills at Nottingham, and 1780, at Cromford, &c. the first moved by horse, and the next by water power. He made new improvements, and took out new patents, and, in 1780, commenced actions for violating his patents, in which he failed, (Smithers, 155,) though in some former trials on his first patent he succeeded. Supplement to Encyclop. Brit. "Cotton."

Populace began to destroy cotton machinery in Lancashire in 1779.

The first spinning machines had only a few spindles, say 8; but afterwards increased to 80, (Do.) and sometimes to 120. McCulloch's Dict. page 438.

On machinery of other kinds, see in table, A. D. 1738.

- [5] The raw cotton of India, the Surats, and Bourbons, was first imported into England in 1783. Before, that from Cayenne, Surinam, Demarara, St. Domingo, and Essequibo, was chiefly used. Smithers, 155.
- [6] But Wyatt's invention does not appear to have been well matured or much brought into use, though he and Paul took out a patent in 1738. Baines's Hist. McCulloch's Dict. 439—note.
- [7] It is a remarkable fact, that the cotton manufacture was so little known and appreciated in England when Adam Smith published his Wealth of Nations, (in A. D. 1776,) that the subject is believed not to be alluded to by him in the slightest manner—So, in 1794, it is believed Mr. Jay was not aware that cotton was or would be exported from the United States. Pitk. Stat. page 198. See table F, note 9, page 33. In Postlethwaite's Dict. "Cotton," 1766, he urged its cultivation in English plantations suited to it, and seemed to anticipate the increasing importance of its manufacture.
- [8] Mr. Gallatin states this to be, 1791, in his report on domestic manufactures, April 17, 1810. See Gales and Seaton's Doc's, v. 2, on Finance, p. 425.
- [9] Cloths were sent abroad to be bleached till 1750, and required 8 months, then reduced to 4 months, and, in 1784. Watt introduced the practice of bleaching with chlorine into England in a few hours. Baines's Hist. 246 and 7.
- [10] Many of the above dates and facts appear in the other tables and notes: but they are collected here in chronological order, with some other material events, for the purpose of presenting, in one view or statement, the different periods in which the chief progress from fifty to a hundred years past has been made in the growth, cultivation, and trade of cotton.

 \mathbf{Q} .

Extracts as to the subject of Cotton, from the Annual Treasury Report in December, 1835.

"1. From this it appears that our whole exports, of every kind, in the last five years, including the estimates for 1835, have not exceeded those, during a similar term, from 1803 to 1807, inclusive, but about forty millions, and being an excess no larger than at most intervening periods, while an extraordinary increase has taken place in our exports of domestic products, exceeding, in value, those during that term more than one hundred and fifty millions, and being quite doubled the excess at most intervening periods. Indeed, it will be seen that they have been almost a hundred per cent. larger than they were in any similar term of years previous to 1816, and have exceeded those during such a term, only ten years ago, by the sum of about one hundred and fifteen millions; a difference greater than the whole amount of all our exports of domestic products during the first five years under our present form of government. recent average rate of increase in these exports, however, has not been large, independent of the article of cotton; nor is it likely to augment during the few ensuing years. Adopting a comparison between every term of ten years, from 1792, '93, and '94, to 1832 '33 and '34, and including all articles, it appears that the whole exports of domestic produce exhibit an increase in the last thirty years of less than three per cent. annually, or a rate considerably lower than that of our population, though, in the previous term of ten years, by the great prosperity from our new form of government, and the rapid progress in the cultivation of cotton, that increase was near eight per cent.; and in the high price and large exports of this article in the last term of ten years, it has been about five per cent. annually. But as that price has of late been unusually high, and is now lower, and as the demand for cotton abroad in the ensuing year is not likely to exceed, if it equal, the late customary ratio, and on which some interesting facts may be seen in the statement annexed, (E,) the value of our whole domestic exports (over one-half of which now consists of cotton) will probably be less in 1836 than in 1835.

"2. It may be instructive, in respect to the estimates of our future proceeds from lands, to recollect that, after the present system commenced, the sales never amounted, in fact, to one million of acres a year till 1815, nor to two millions a year till the temptations of the credit system, and the great rise in the price of cotton to 26 and 34 cents per pound, induced larger purchases, extending to over two millions of acres in 1817, and about $5\frac{1}{2}$ millions in 1819; and thus, even fifteen years ago, exceeding in quantity, by nearly a million of acres, the large sales of 1834, and exceeding them in the sum promised to be paid, by the almost incredible amount of more than twelve millions of dollars. But the fall of cotton in 1820, to only about half its former price, combined with other causes, left the purchasers in debt to the Government over twenty-two millions of dollars, and with the change from the credit to the cash system, reduced the sales again to much less than a million of acres a year, caused nearly six milions of the former sales to revert, and kept them down to less than a million in every year after, till the rise of cotton in 1825 gave a new impulse, which being aided by other powerful causes, the sales gradually enlarged till they reached a million again, in 1829. Since that, increasing still more rapidly, they have exceeded, during 1834, four millions of acres, and during 1835, probably nine millions. Among those other causes, the more extensive introduction of steam power on the western rivers and northern lakes, with the public improvements in their navigation, and the increased facilities of intercourse by rail-roads and canals, have of late added much to the sales of the public lands beyond previous years, and beyond the proportional increase of population. To the force of these causes have been joined, during the last three years, as formerly suggested, the effect of the pre-emption law, the increase in the price of cotton, and the unusual

abundance of surplus capital in 1835 seeking new investments."

3. "Beside what has already been remarked on the influence which the increased cultivation of cotton in this country has in various ways exercised, and is likely to exercise hereafter, on our revenue from customs and lands, it might be made a subject of further and very interesting inquiry, in connection with the uncertainty of the estimates on those subjects, affecting, as that cultivation does, more remotely, not only our revenue from lands and customs, but the balance of trade and the export of specie, as well as the continuance, by means of mutual dependence among great interests, of many of our peaceful and presperous relations, both at home and abroad. But without entering, on this occasion, into further details concerning any of these points, it may be mentioned as a very striking result connected with the last one, and as furnishing a strong presumption in favor of greater exemption hereafter from fluctuations by war and commercial restrictions, that while the quantity of cotton exported from this country has increased from half a million of pounds in 1790, to over three hundred and eighty millions in 1835, and has exceeded in value, during six of the last ten years, all our other exports of domestic products of every description, the manufacture of it at home, and chiefly in the northern States, has increased, from consuming only a few bales more, to ninety millions of pounds yearly, and to that extent creates a new and strong bond of reciprocal advantage and harmony; and that while we now furnish, instead of the small quantity in the first years of our Government, quite fifteen-sixteenths of the whole consumption of raw cotton by England, and seven-tenths of that by France, all the presents exports of it to Europe from all the rest of the world do not probably equal, if those two nations could obtain the whole, one-third of what they now consume, or one-fourth of what they now import from the United States alone; and thus, while neither of them produces any of the raw article, except a little in some remote dependencies, that they have an annual manufacture now relying on it, and chiefly on the United States, equal in France to eighty millions of dollars, and in England to one hundred and eighty millions of dollars, and constituting in the latter, after it supplies her own large necessities at home, over one-half in value of her great annual exports to all quarters of the globe."

4. "Exports of Cotton.

	Quantity.	Value.	
Year.	Pounds,	- Dollars.	
1792 1793 1894	138,328 487,600 1,601,760	32,000 107,272 320,352	
	3)2,227,688	459,624	
	742,562	153,208	Average.
1802 1803 1804	27½ millions. 41¼ do. 28¼ do.	$ \begin{array}{ccc} 5\frac{1}{4} & \text{millions.} \\ 7\frac{3}{4} & \text{do.} \\ 7\frac{3}{4} & \text{do.} \end{array} $	
, da	$3)106\frac{7}{10}$ do.	203	<u> </u>
1	35.6	6.9	Average.
1822 1823 1824	$\begin{array}{c} 144\frac{6}{10} \\ 173\frac{7}{10} \\ 142\frac{3}{10} \end{array}$	24 $20\frac{1}{4}$ $21\frac{3}{4}$	-
	$3)460_{15}^{6}$	661/4	
	153.5	22.1	Average
1832 1833 1834	$322\frac{1}{4}$ $324\frac{1}{4}$ $384\frac{3}{4}$	$31\frac{3}{4}$ 36 $49\frac{1}{2}$	
	3)10311	1171/4	
	344	39.1	Averag

Note.—Looking further to the future in connection with the past, a brief comparison of the quantity and value of our exports in cotton at a few equi-distant periods, as exhibited in the above table, will serve to illustrate, in a condensed form, the great influence which the cultivation and exports of cotton alone seem to have exercised, and are likely to exercise hereafter, on the amount of our whole exports of domestic products, and thus indirectly to affect our importations, and consequent revenue from customs. Doubtless some other cultivation and exports would have taken the place of cotton in the south had it not been so successfully grown there; but they probably would have been less valuable, and will be so hereafter if ever substituted for that; because the average increase of all our domestic

exports, including cotton, has been only from 3 to 5 per cent. while that of cotton alone has during the last 30 years been on an average near 25 per cent. annually. But of late the ratio of increase in cotton, though still much greater than that of other exports, has become diminished and more settled, having fallen from quite 500 per cent. during the first ten years of our present Government, to only about 10 per cent. during the last ten, though the whole annual quantity now exported exceeds the enormous amount of 380 millions of pounds. This 10 per cent. increase yearly, considering the vast quantity now grown in the United States, and how fully the cotton raised in the other quarters of the world has already been excluded from the European markets, with other circumstances named in the body of the report, may be justly estimated both as a more regular ratio than any which has prevailed heretofore, and as something larger than its probable increase in the ensuing ten years."

While the preceding tables and notes were in the press, Mr. Adams submitted the following resolution, which was considered and agreed to:

Resolved, That the Secretary of the Treasury, under whose direction the printing of certain tables and notes on the subject of cotton, has been placed by this House, be authorized to add any further explanatory notes on that subject which may occur to him in the progress of the printing.

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ADDENDA.

Table A, note 3, page 9. Other statements made in some of the Atlantic States, and at other periods show a smaller difference between the exports of 1835 and 1836, to the last dates. In some accounts of the exports kept in the southwest for the current year, the quantity is represented there to be less at the most recent dates than during the same period of last year by about 70,000 bales, and the stock on hand to be about 100,000 bales less.

Table B, page 13. Cotton has been raised in Illinois, and even in Pennsylvania. Niles's Register, February and March, 1822, page 371 and 67. But it is believed not to be raised of late to any considerable extent north of Tennessee and Virginia. This table shows another striking fact: that considerably over half the whole crop of cotton in the United States is now raised in the new southwestern States, whose outlets are on the Gulf of Mexico, and where little was grown, and scarcely any exportation made previous to 1803.

Table E, note 2, page 18. In the ninth line from the top, the price named means the price of common cotton.

Table L, note 9, page 56. Since these tables were transmitted to the House of Representatives, the original letter which was written in consequence of a circular from Mr. Hamilton, Secretary of the Treasury, on the subject of manufactures, dated June 22, 1791, from Moses Brown to J.

S. Dexter, dated July 22, 1791, has been sent to me.

It confirms the statement in the notes, that the first cotton mill in Rhode Island was built in 1790. Attempts had been made, Mr. B. says, by himself, in 1789, to get the machinery into operation by water, by means of models for carding and spining, which the State of Massachusetts had procured from abroad. But no mill was actually begun until the autumn of 1789, when one was commenced by the assistance of Mr. Slater, who had then recently come from England, notwithstanding the obstacles which were opposed to the emigration of artists, and the exportation of machinery. About this time a cotton mill was erected at Beverly, Mass. by an incorporated company. See more in that letter, and in Gales and Seaton's Doc. vol. 1, Finance, page 142. Hamilton's Report on Manufactures, and Pennsylvania Mercury, for 1789. It is said that the model of the machine for weaving by water was precured from England, by some persons in Delaware, early as April, 1788. See Penn. Mercury.

[Other small additions to the notes of the later tables were introduced into the body of them in the proper places while they were printing, after the passage of the resolution, inserted immediately before these addenda.]



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