BUREAU OF AGRICULTURAL ECONOMICS
UNITED STATES DEPARTMENT OF AGRICULTURE

## COTTON CONSUMPTION AND COTTON CLOTH PRODUCTION. UNITED STATES, 1922-41



CALENDAR YEAR BASIS

* 1940-41. EXGLUDES GOTTON DISTRIBUTED TO LOW-INGOME FAMILIES FOR MATTRESS MAKING, ETC.

Changes in total annual domestic cotton consumption are closely related to changes in annual domestic cloth production. Nevertheless, the average annual yardage of cloth produced per bal e of cotton consumed varies materially from year to year. This is the result of changes in the proportion of cotton consumed for purposes other than cloth production and of changes in the types and weights of cloth produced. The yardage per bale of cotton consumed (excluding that going to low-income families for mattresses, etc .) averaged much lower in 1941 than in any year since 1922, due to the large production of army duck amo other medium or heavy-weight fabrics. It is Likely to drop still lower in 1942.


## Summary

The rate of domostic cotton consumption is expected to reach new record highs in the next few weeks despite the lower daily rate in March. The WPB Iimitation Ordor No. Inog9 released on April 2l, roquirine many cotton miils to shift a part or all of their oquipment to the production of bag osnaburgis and bag sheetings, should stimulate cotton consumption. Tho shift from lighter to heavier weight constructions wili require a groater quantity of cotton per yard of fabric produced. It will also materially increase the capacity of the carding equipment in many mills which formerly retarded the output of other parts of the plant. In addition, this shift may result in the use of considerably larger proportions of the medium and shorter staples than are now being used.

The 1942 cotton cloth production goal of 14 billion square yards recently announced by the WPB is about 18 percent larger than the estimated 1941 production. With the same average cloth production per pound of cotton as in 1941 the attainmont of this goal would require 12 million beles. The large proposed production of bagging fabrics, duck, and other heavy fabrics, however, seems likely to result in a heavier average weight of cloth produced in 1942 than in 1941 . Fiven a 12 million bale consumption in 1942 will require a considerably higher average rate of consumption for the remainder of the year than that of March or even of Fetruary.

The General Maximum Price Regulation order of the Office of Price Administration announced April 28, together with the amendments relating to cotton yarns and textiles, places absolute price ceilings on all cotton textiles and manufactured textile products. With certain exceptions, the

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ceiling prices on cotton coods (which apply to sales by manufacturers, wholesalers, and retailers) are the highest prices which actually existed in March 1942. For cotton goods not under pricee ceilings in March, the new ceiling will be the highest price which would have existed for these goods had the provisions of Maximum Price Regulation No. 118 (announced April 23) been in effect in March. The latest regilations will bring the relationships among the prices of most cotton goods substantially in line with normal differentials. This will eliminate the incentive some mills previously had to switch from production of goods restricted under price schedules to higher priced products for which no prise ceilings had been established. The new order becomes effective May 11 for prices of goods sold by manufacturers and wholesalers and May 18 for those sold at retail.

Domestic cotton prices reached a 13 -ycar high early in April, but declined slightly thereafter. At the end of April the basic quality (Midaling 15/16 inch) in the 10 markets averaged about 20 cents. This is $1 / 2$ cent above the March average and nearly $2-1 / 2$ times the price existing at the outbreak of the war in September 1939.

The influence of inflationary forces, which has been a major factor in the advance of cotton prices during the past $20-1 / 2$ years, apparently has been curbed somewhat by the prospect for a general price control measure. The movement of 300,000 bales of Government-owned cotton and large quantities of 1941 crop loan cotton into trade channels in April and the decline in the daily rate of consumption in March (officially reported April 14) have also had significant price effects.

- April 30, 1942


# RETIEW OR RECENT DEVELOPMRNTS 

## Domestic Prices

## Basic Quotations Considerably Above <br> Average for March

The 10 -market price of Middling $15 / 16$-inch cotton on April 29 averaged approximately 20 cents per pound. This was almost $1 / 4$ cent less than in late March and $1 / 2$ cent higher than the March average of $19-1 / 2$ cents. The price of this basic quality was, however, almost $1 / 2$ cent below the record high for the season near $20-1 / 2$ cents, established on April 9.

In mid-April the average market price was almost 1 cent higher than a month earlier. This change was almost exactly the same as that for the United States average farm price which rose from 18.06 cents in midwMarch to 19.03 on April 15. The latter price was $1 / 3$ cent above the parity price for April, the second month since 1927 that the actual farm price has exceeded the parity price. The April farm price was the highost for any month since July 1928.

The higher level of cotton prices in April reflects the continued large demand for cotton textiles, willingness by owners of cotton to hold for higher prices, and price ceilings for cotton textiles which are tied to the price of cotton. Tending to hold down the advance were prospects for stronger price control measures and the unusually large movement of Governmentfinanced cotton into trade channels,

## Premiums for Long Staples Especially <br> High in Mill Areas

In recent weeks the premiums for Midaling cotton with staples I-I/8 inches to l-1/4 inches in the Group 3 mill area have been from 650 to 1,275 points ( $6 \mathrm{~m} / / 2$ to $12 \mathrm{\omega} 3 / 4$ cents) above New York May futures contract. These premiums are from $1 / 4$ to $1 / 2$ cent per pound higher than in the first part of March and much higher than the premiums for the corresponding qualities in the center of the long-staple producing areas (Memphis, Tennessee, and Greenwood, Mississippi). On April 24 the premiums for Middling and Strict Middling cotton o.' these long staples in the mill point area were 200 to 300 points greater than those in Memphis and Greonwood. The promiums for these long staples having grade of strict low Midding were 150 to 200 points higher in the mill areas. The spread between Middling $15 / 16$ at Memphis and the same quality in the mill point area was 1.00 cent. There is normally a greater spread between prices in the producing and consuming areas for the long staples than for the basic quality. There is undoubtedly a greater risk in handling the longer staple cottons because the possibility of protection from price changes through hedging is considerably less. As indicated last month, the existing premiums for the longer staples are the highest that have provailed in many years.

As of April 24 the price of SxP (American mgyptian) No. 2 with 1-1/2inch staple at New England mill points was quoted at 43.85 per pound. This compares with a price of $34-1 / 2$ cents a year earlier and is the highest price quoted for No. 2 American- تgyptian cotton in that area since 1929 except on April 17 when tho price was 44.15 cents. Current prices are a little higher than in January when the Government announced its 1942 crop purchase program designed to stimulate production of this cotton, and slightly higher than prices existing immediately following the announcement (in March) of 5 cents per pound increase in the purchase price, with No. 2 ( $1-1 / 2$ inch staple) to be purchased at 38 cents per pound in warehouses in the producing areas. The Government's announced purchase program may now be giving some support to the prices of this cotton, but other factors are perhaps more important. These factors include the rapidly expending consumption of American- Igyptian cotton, uncertainty with respect to imports of extre long staple cotton from Egypt and elsewhere, and inflationary movements.

## Domestic Consumption, Gloth Prices and Mill Mareins

## Consumption at Record High in March

Despite Decline in Daily Rate
The 967,000 bales of cotton consumed in March were materially larger then the quantity used in February despite the decline in the consumption per working day. The second highest consumption per day resulted in the quantity used in March exceeding that of any other month in the history of the domestic industry. The previous record high was established in October last year when the daily rate was less than in March but the number of working days was somewhat greater. From August through March domestic consumption totaled $7-1 / 4$ million bales compared with the previous record high for this period (established last year) of 6.1 million bales. There is little indication of developments in mill activity during spril although it is believod that the daily rate of consumption is now probably running somewhat higher than that of March.

## Government Orders Shift of Iooms

to Osnaburgs and Sheetings
Under Iimitation Order No. Im99, the War Production Board on April 21 directed the cotton textile industry to convert a substantial part of its capacity from civilian to military or more essential constructions. Under this order important proportions of the looms now producing class $A, B$, and 0 sheetings and producing flannel and some other napped goods, are to be converted to the production of bag sheetings needed in the war program for sand bags, camouflage cloth, and for packaging agricultural and chemical products. The order also directs the allocation of all looms operating on osnaburgs of any construction to shift, if necessary, to the production of certain bag osnaburgs specified in the order. In addition, 20 percent of all looms operating on such constructions as bed ticisings, cottonades and suiting for coverts, denims, pin stripes, pin checks, drapery, upholstery, and Turkish and terry woven towels, are to be converted to the production of bag osnaburg.

It is expected that this conversion order will double the production of osnaburgs and shoetings for bags. The conversions are to bo completed within 30 to 60 days from the effective date of tho order which was April 20. This order is also expected to result in increased cotton consumption and the use of a largor proportion of the mediun and short staple cotton. It should further reduce the averago number of yards of cloth produced per bale of cotton consumed. As is indicated in the chart on the cover page, since the Government's defense and war purchases have become important, there has already been a substantial decline in the average yardage of cloth produced per bale.

In announcing the details of this ordor, the War Production Board indicated that the plan now being worked out calls for increasing the production of cotton fabrics from slightly over 9 billion square yards in 1939 to 14 billion this yoar (calendar year 1942), and 15 billion in 1943. Evon with an average cloth production per bale equal to that of 1941, a l4million squarc yard production of cloth would mean the consumption of 12 million bales of raw cotton. Aftor the conversions have been made undor Limitation Order No. Img9, the probablo lowor avorage yardage produced per bale is likely to mean that more than this quantity of cotton will be required to produce 14 billion square yards of cloth.

Ceilings Will Bring Cotton Textile
Prices in Line at March High
The General Maximum Price Regulation order of the Office of Price Administration announced April 28, together with the amendments relating to cotton yarns and textiles, places absolute price ceilings on all cotton products, from the yarn and "grey" goods to the finished articles of wearing apparel or household furnishings. With certain exceptions, the coiling prices on cotton goods, which apply to salcs by manufacturers, wholesalers, and retailers, are the highest prices which actually existed in March 1942. For cortain cotton goods not under price ceilings in March, the new ceiling will now be the highest price which would have existed had the provisions of Maximum Price Regulation Numbers 118, 127, and 128 (announced April 23 to April 28) beon in effect in March. This means that the ceiling prices of all cotton goods will bo substantially in line with usual differentials, which should elininate the incentive some mills previously had to switch from production of goods restricted under price schedules to higher priced products for which no price ceilings had been established. The new order becomes effective May 11 for prices of goods sold by manufacturers and wholesalers and May 18 for those sold at retail.

The new absolute ceiling prices for cotton yarn and cloth manufacturers (the highest recorded in March or its equivalent) are based on margins sot undor previous price regulations which, in turn, were based. on the highest March price for Middling 15/16winch cotton in the 10 designated markets. The new order eliminates the previous fixed relationm ship under which price coilings for goods varicd with the price of cotton. The Office of Pricc Administration, in a release dated April 29, stated its belief that "ceilings now being imposed are amply high to permit raw cotton to riso above any level specified in Scction 3All of the Emergency Price Control Act.

## Foreign Drmand and Consumption

Reports received during the past month indicate tiat cotton consumption is running at exceptionally high rates in Brazil, Canada, Pem, and Argentina. The same may also bo true of sone of the other Western Hemisphere countries for which no reports havo been receivod. In northern and southern Brazil cotton mills are quoted as operating at capacity and are expected to maintain this rate for the duration of the war. This is due both to the reduced imports of cotton and other textiles and to the production of cotton tertiles for shipment to other Iatin-Amorican countries.

A fairly recont report from Poru states that cotton mills have operated at full capacity throughout 1941, with mill consumption increasing from 34,000 bales in 1940 to 49,000 in 1941. At present the demand for cotton fabrics is reported as being in excess of the capacity of the Peruvian mills. To a considerable extert, this is due to the decline in cotton textile imports. The situation in Argentina is apparently quite similar to that in Peru. While the cotton textile industry in Argentina has been expanding in recent years, imports have continued to provide a substantial proportion of the total requirements.

The most recent reports from India indicated that mills were continuing to operate at new record levels. The high rate of cotton mill output is influenced by the reduced imports resulting from the war.

A delayed report from Spain indicated that Sparish spinning mills operated 4 days a week in January and weaving mills about 3 days per week. The arrival of 27,000 bales of cotton in January, to gether with additional vessels expected to arrive in February and March, was expected to relieve partially the acute shortage of raw cotton. The report stated, however, there were rumors in trade circles to the offect that the Spanish Government had finally completed finoncial arrangement for delivery of about 50,000 bales of cotton reportod to have bcen contractod for in August 1941.

Stocks, Production, and Supplies

## Government Financed Stocks <br> Greatly Reducod

Approximately 290,000 bales of Commodity Crodit Corporation cotton were sold in April under the General Sales Progran. This, Dlus other sales, brought the April total to the 300,000-bale limit and the total from January through April to ovor 1 million bales. A net doclinc of 750,000 bales has occurred in the 1941 crop cotton romaining in the Governnont loan. Furthermore, during the 2 wecks onded April 25 withdrawals of 1941 crop loan cotton have boen at a rato far greater than that of the preceding wocks and the quantity of cotton entering the loan dropped to negligible amounts. The indications are that the total amount of cotton actually owned by and in Government loan stocks, will be nearly 2 million bales less at the end of April than on January 1. As a result, the total of such stocks will be the smallest since the latter part of 1937. Eowever, some of the cotton sold by the Government in April may not have beer delivered and the papers completely cleared by the ond of the month. Consequently, the stocks roport may not roveal all of tho decline.

# Fortilizer Tag Salos tho Highost <br> in Several Yoars 

From Docember through March total fortilizor salos in nino of the principal cotton-producing Statos, as indicatod by fortilizer tag sales, woro much largor than salos during the corresponding poriod a year oarlior and the largost since 1929. They were not, howovor, noarly as large relative to lest yoar and the 2 procodins yoars as thoy were up to tho ond of February. This indicates that fertilizor dealers, and perhaps farmers as well, made their fortilizer purchases oarlicr than usual, perhaps in anticipation of higher prices or the fear of inadoquate supply. During the 4 months ended March, sales wore larger than in the like poriod a yoar carlior in each of the nine States except Mississippi. A large amount of the total increase took place in North Carolina where fertilizer sales are much larger than in most States.

It is significant to bear in mind that the fortilizor used in these Statos in 1942 will be applicd to a considerably larger crop acreage than that plantod in 1941. In some of these States the intention to plant roports indicate that acroages of poanuts, tobacco, and some of the other crops requiring fortilizer, will bo increasod substantially. Efforts are being made to encourage farmors to plant thoir full cotton acreage allotments, which are also larger than in 1941. With largor crop acreages, an incroaso in the fortilizer uscd could occur without any increasc, or oven with a decrease, in the quantity ussd per acre.

- This Bureauls April 1, 1942 Farm Labor Report is of more than usual interest in viow of the numorous statoments which have boon mado rolative to the roduced farm labor supply. Supply of farm labor in the cottone producing States is matcrially lower than last jear while the domand for labor is groator. As a result, farm wages aro considerably higher now than a yoar ago. The wages being paid, howover, are less important than the supply of labor available. In the nine principal cotion-producing States. the supply of farm labor on April 1 , 1942 ranged from 59 percent of normal in North Carolina and Alabama to 67 percent in Mississippi. Last year the supply in these nine States ranged from 68 to 80 percent of normal. The demand for labor in these States ranged between 90 and 101 percent of normal this year compared with 85 to 94 percent last yoar.

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Further Gains in Consumption Expected as Production of Bagging Cloths Increase

With the Government making concerted efforts to increase the production of cotton goods and with an increase in the proportion of coarse goods produced, there is every reason to believe that domestic cotton consumption will increase to somewhat higher levels before the end of the current season. Should the 1942 production goal of 14 billion square yards be attained, this would represent an increase of 18 percent ovor the production in 1941. And assuming the same yardage produced per bale of cotton consumed would require 12 million bales of raw cotton compared with about 10ml/4 million bales in
1941. This in itself would require a somewhat higher annual rate of consumption during the remainder of the calendar year than that existing during the first quarter of the year. Furthermore, it is expected that as a result of the greatly increased production of osnaburgs and sheeting for use in the production of bags (see previous reference to the Limitation Order No. Imeg9), the average quantity of cotton required per yard of cloth produced will be groator than that of 1941.

## Carry-Over of "Free" Cotton to Increase

Despite Decline in the Total
As was indicated last month, it appears that the total carrymover of American cotton in the United States on Augrist 1 next will be close to 10 million bales. This will represent a substantial declinc from the slightly more than 12-millionmbale carrymoror on August 1, 1941. Despite this reduction, however, the carry-over of "freell cotton is expected to be larger than last year and possibiy the largest since 1933 or carlier. The exact sizo of such stocks will, of course, depend upon tho quantity of cotton consumed during the romainder of the scason, the amount of additional cotton sold by Comodity Crodit Corporation, and the additional quantity of 1941 loan cotton reposscssed by the producers.

In vicw of the provious increase in the production of coarser cotton fabrics, togother with indication of shifts toward somewhat shortor staples in the production of other fabrics, the consumption of medium and short staple cottons of the current season is now expected to be somewhat larger than had proviously been anticipated. It is likely that the carrymover of such cottons will represent a somewhat smaller proportion of the total and the longer staples a somewhat larger proportion of the total than was estimated in January in connection with the establishment of the acreage goals for 1942. This is considered as a favorable devolopment in viow of the fact that the supply of modium and short staple cottons is much more plontiful in relation to requirements than the supply of long staples.

Table 1.- Cotton, all kinds: Consumption in the United States and percentage change, 1935-41

| Period | Year beginning August 19111 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average | 1939 | 1940 |  | As a percentage of |  |  |
|  | 1935-39 |  |  | Actual | verage |  |  |
|  |  |  |  |  | 935- |  |  |
|  | $\overline{1,000 ~ r u n-~} \overline{1,000 ~ r u n-~} \overline{1,000 ~ r u n-1} \overline{1,000 ~ r u n-~}$ |  |  |  |  |  |  |
|  | :ning bales ning bales ning bales ning bales Percent Percent Percent |  |  |  |  |  |  |
| Aug. | 555.4 | 630.7 | 650.9 | 874.1 | 157.4 | 138.6 | 134.3 |
| Sent. | 567.9 | 624.2 | 638.2 | 875.7 | 154.2 | 140.3 | 137.2 |
| Oct. | 591.7 | 686.5 | 770.8 | 953.6 | 161.2 | 138.9 | 123.7 |
| Nov. | 587.2 | 718.7 | 741.2 | 849.7 | 144.7 | 118.2 | 114.6 |
| Dec. | 568.5 | 650.1 | 777.5 | 887.3 | 156.1 | 136.5 | 114.1 |
| Jon. | 606.5 | 731.8 | 844.8 | 945.9 | 156.0 | 129.3 | 112.0 |
| Feb. | 566.6 | 661.8 | 793.4 | 893.7 | 157.8 | 135.0 | 112.6 |
| Mar. | 623.5 | 627.2 | 854.8 | 966.6 | 155.0 | 154.1 | 113.1 |
| Aug.-Mar. | 4,667.3 | 5.330 .9 | 6,071.6 | 7,246.7 | 155.3 | 135.9 | 119.4 |
| Apr. | 575.0 | 623.1 | 921.0 |  |  |  |  |
| May | 574.9 | 641.6 | 923.5 |  |  |  |  |
| June | 564.5 | 565.4 | 875.8 |  |  |  |  |
| July | - 556.5 | 622.7 | 929.8 |  |  |  |  |
| for year: 6,938.3 |  | 7,783.8 | 9.721 .7 |  |  |  |  |
| $\begin{aligned} & \text { Compiled fi } \\ & \text { I/ Prelimi } \end{aligned}$ | om report nary. | the Bur | of the | nsus. |  |  |  |

Table 2.- Cotton, all kinds: Consumption in United States, total, and daily rate, specified periods, August 1940-March 1942


Table 3.- Cotton: Stocks in consuming establishments, public storage and at compresses, total, Gorermmert-owned or held and "free" stocks, end of month, March 1930, and monthly, August 1940 to date


Compiled from reports of the Bureau of the Census and the Commodity Credit Corporation.
1/Totals and deductions were made before figures were rounded to thousands. Probably includes some futures, the exact amount of which is not known. Preliminary.

Table 4.- Cotton: Loans made by the Commodity Credit Corporation, by weeks, 1940-41 and 1941-42


Compiled from reports of the Commodity Credit Corporation.
1/ Calculations for weelcly data were made before figures wer rounded to thousands.
2/ Number of bales entering loan from beginning of season.
3/ No release was issued showing loans for week ended October 11.
4/ Iess than 500 bales.
$5 /$ November 11 was a holiday.
(1) Total withdrawals to January 10, 1942. Pricr to this week data on the quantity withdrawn were not published.
I/ No report was released for week ended January 13 as cffices were being moved to New Orleans.
8) Data for 2 weeks.

Table 5.- Cotton prices, mill margins and specified index numbers, United States, annual 1929-40, monthly Jenuary 1941 to date


If Average United States farm price for the 5 years August $1909-\mathrm{July} 1914$ or 12.4 cents times the index of prices paic by farmers, interest, and taxes (1910-14 = 100) , 2/ Prices for 1929 are the premiums of $15 / 16^{\prime \prime}$ cotton at six markets (Dallas, Galveston, Houston, Little Rock, liemphis, and New Orleans) added to the price of $7 / 8^{n}$ cotton in the 10 designated markets. Frices for 1930-38 are computed by adding the monthly average premium for liddling $15 / 16^{\prime \prime}$ to the average price of Middling $7 / 8^{\prime \prime}$ in the 10 markets. Prior to July 1937 premiums for $15 / 16^{\prime \prime}$ cotton in Norfolk, Augusta, Savannah, and Nontgomery were estimated. Since 1939 prices are as quoted on Middling $15 / 16^{\prime \prime}$ cotton in the 10 designated markets. On August 6, 1941 Charleston was substituted for Norfolk. 3/Mill margins on unfinished cloth (17 constructions). 4/Federal Reserve Board, adjusted for seasonal variation. $5 /$ Bureau of Labor Statistics $1926=100$, converted to $1910-14=100$. $\overline{6}$ / Preliminary.

