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## SITUATION

BUREAU OF AGRICULTURAL ECONOMICS UNITED STATES DEPARTMENT OF AGRICULTURE

COTTON, 1-1 NCH: PREMIUMS AND DISCOUNTS BY GRADES, 10 MARKETS, NOVEMBER 1942, NOVEMBER 1943 , AND 19.42 AND 1943 GOVERNMENT LOANS.


Quality differentials for the higher grades are not greatly different in the open market from those under the Government loan. In the lower grades, however, the discounts under the 1943 Government loan program, though greater than under the 1942 Loan, are nevertheless substantially narrower than those in the open market. While this chart applies specifically to i-inch cotton the same general relationship applies to the other medium and longer staple lengths.

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THE WORLD COTTON SITUATION
World Production Estimated at 27-1/4 Million Bales in 1942;
Slightly Smaller Production Indicated for 1943

The world agricultural cotton crop for the $1942-43$ season is now astimated at approximately $27,250,000$ bales. This production estimate is about $1 / 3 \mathrm{milli}$ n bales or 1 percent smaller than the production in $1941-42$ and is the smallest since 1935. The largest change occurred in the United States where production increased from $10,744,000$ bales in 1941 to $12,817,000$ bales last season, an increase of nearly 2.1 million bales. However, this increase was more than offset by reductions of about 1.3 million bales in India and 0.9 million in Egypt. The net decline in all other countries is estimated to have been about 0.2 million bales.

Present indications are that world production of cotton in 1943-44 again may be slightly smaller than the preceding year. This is largely attributable to the decline in production in this country (a drop from 12,817,000 bales last season to $11,478,000$ bales in $1943-44$ ) for the production in those foremen)
countries for which data for both 1942 and 1943 are available shows a net countries for which data for both 1942 and 1943 are available shows a net increase of about 3 percent over last season. Last year these countries accounted for approximately two fifths of the total production in foreign countries.

The war has had a marked effect on the cotton situation in many counttries, but more important in this connection is the fact that it has generally
affected both the availability and the reliability of statistics on cotton. Many sources of statistical information on cotton production are no longer available and in other instances the issuance of reports are delayed. Consequently, the compilation of annual production figures by countries is made both more difficult and in some cases less accurate. They, therefore, are published with the belief that their usefulness to those interested in cotton statistics outweighs the imperfections of the data.

## THE DOMESTIC COTTON SITUATION AND OUTLOOK

Returns from Maricetings Smaller in 1943 than
in 1942 but Above Average of the $1920^{\circ} \mathrm{s}$
Cotton farmers are receiving slightly less from their 1943 cotton crop than they received from the larger 1942 crop. Nevertheless, thier returns are far above the average during the decade of the 1930's and during the period 1909 through 1913. The weighted average price received by farmers to December 1 was 20 cents per pound for lint and $\$ 52.20$ per ton for seed. Assuming these prices as the average for the crop as a whole and the sale of all of the $11,478,000$ bales of lint and 80 percent of the seed produced, returns from marketings would total about 1,360 million dollars. This would compare with about 1,426 million dollars in 1942. The inclusion of Government payments would raise these totals to 1,435 million this season and 1,506 million in 1942. The 1943 total, including Government payments, is 78 percent higher than the average returns during the decade of the 1930 's, 64 percent more than the average from 1909 to 1913 , and 4 percent higher than the average for the decade of the 1920's.

The decline from 1942 is accounted for by reductions of 3.2 percent in the harvested acreage of cotton, 10.5 percent in the production of cotton, 7.5 percent in the average yield per acre, and 6.9 percent in total Government payments, the combined effect of which more than offset the higher prices for lint and seed. When reduced to a per-harvested-acre basis, returns from marketings averaged $\$ 62.19$ this season. This compares with $\$ 63.07$ last season. Inclusion of Government payments raises these figures to $\$ 65.60$ for 1943 and $\$ 66.62$ for 1942. These compare with averages of $\$ 26.57$ per acre during the 5 years 1909 to 1913 , $\$ 36.06$ during the decade of the 1920 's, and $\$ 27.06$ during the decade of the 1930 's. In fact, the returns per acre in 1942 and 1943 have been exceeded only in 1919 when the return was $\$ 69.25$ per acre.

Spot Prices in December About the Same as for
November; Many Qualities Below Loan Rate
Cotton prices strengthened slightly during December after showing considerable weakness in late November. The 10 -market price of Middling 15/16-inch ranged from a low of 19.32 cents on December 1 to a high of 19.89 on the 31 st and averaged 19.68 for the month. This monthly average compares with 19.70 in November 1943, 19.67 in December 1942, and the 1943 Government loan rate (10-market average for Middling 15/16-inch) of 19.37 cents.

So far as the 10 -market average is concerned, the market price of cotton is above the loan rate for most of the higher grades (base price plus or minus appropriate premium or discount). However, the loan value of most of the
lower grades exceeds the market value. In the Western irrigated belt the loan value of cotton is generally above the market value.

The fact that many farmers can realize more for certain qualities of cotton by putting it in the loan instead of selling it is one of the princi-. pal factors accounting for the sharp inflow of cotton into the Government loan in the last few months. Then too, many farmers have no doubt placed cotton in the loan which could have been sold for more than the loan value so that they could take advantage of any later advance in market prices -should it occur.

The best source of avallable.infarmation on the movement of cotton into and out of the Government loan is the weekly roport of the Commodity Credit Corporation on cotton loans.

According to these reports; a total of $2,774,796$ bales of cotton had been received for the 1943 loan through January 1. Repayments to the same date totaled 4,757 bales leaving $2,770,039$ bales on January 1, 1944. Comparable data for the same period last season are not available.

Up to January 1 about 22,500 bales of 1943-crop American-Egyptian cotton had been received for purchase by the Commodity Credit Corporation under the terms of its 1943 American- Egyptian cotton program. This compares with 5,572 bales of American-Egyptian cotton which was sold to the Commodity Credit Corporation during the whole of last season: To January 1 only 16 bales of Sea Island cotton had been received by the Commodity Credit Corporation.

Parity Advances to 20.83 Cents in December
The parity price of cotton continued upward in December, rising to 20.83, the highest level since the fall of 1928 . This parity compares with 19.34 in December 1942, 17.73 in December 1941, and 15.87 in December 1940. The parity price of cotton is arrived at by multiplying the average farm price from August 1909 through July $1914^{\circ}$ of 12.4 cents by the index of prices paid by farmers, including interest and taxes (1910-14 =1.00). The advance in parity noted above therefore indicated that the index of prices paid, including interest and taxes, rose from 127 in Decerber 7940 to 143 in December 1941, to 156 in December 1942 and to 168 in December 1943, or gains of 16 points, 13 points, and 12 points, respectively, per year. Even though parity payments have not been made on cotton either this season or last, the parity price of cotton is nevertheless of importance to cotton farmers for it is upon it that the Government loan program is based.... Current legislation makes it mandatory that loans be made at 90 percent of parity as determined at the first of each marketing year.

Grade and Staple Premiums Increasing, Discounts
Decreasing in Recent Months
During the past few years there havie been marked changes in grade and staple premiums and discounts. Quality differentials are much wider now than before the war. In part, this is attributable to the higher average level of cotton prices. One would expect differentials to be wider with l8- or 20-cent cotton than they were when cotton was only 9 or 10 cents per pound. Changes
in the supply of and the demand for different qualities have also been an important factor in the changes in quality differentials.

The National Defense and Far Froduction textile programs gave rise to a greatly increased demand for medium- and high-quality cotton. Much high-quality cotton was availáble in the carry-over, but needs were such that the Government made a particular effort in both 1942 and 1943 to get farmers wherever practicable to "produce the qualities needed in wartime textile production. Despite these efforts the carry-over has become more and more unbalanced with disproportionately large quantities of the lower grades and vory short staples. To encourage increased production of the longer staple lengths in 1942 the premiums under the 1942 loan program for the higher grades of the longer lengths were increased well above those prevailing in the mariset. The market premiums and discounts for most qualities of cotton widened until the late fall of 1942, following which time premiums began to narrow. This narrowing continued into the early fall of 1943, since which time they have again widened moderately. In general, the discounts continued to widen until the summer of 1943, since which time they have... narrowed somewhat. A comparison of market and loan premiums and discounts for all grades of l-inch cotton in the 10 markets in November 1942 and November 1943 is shown in the cover page chart.

Staple Shorter than in Wither 1942 or 1941;
Grade Higher
As the 1943 ginning season has progressed, it has become increasingly evident that the current crop would be of higher grade but shorter staple than in either of the past two seasons. Through December 12, approximately 96 percent or $10,774,805$ bales of the 1943 crop has been ginned. Included in this amount were $10,729,699$ bales of Upland cotton, 44,800 bales of AmericanEgyptian cotton; and 306 bales of Sea Island cotton.

The average staple length of the Upland cotton ginned to December 12 was 31.5 thirty-seconds inch against 32.0 thirty-seconds inch in 1942 and 32.2 thirty-seconds inch in 1941. Largely as a result of adverse weather, which in some large areas of the Belt caused certain varieties tc staple somewhat shorter than average, 19.1 percent of the ginnings had a staple, length of less than 15/16 inch compared with 16.6 percent in 1942 and 13.2 percent in 1941. A larger percentage of the cotton had a staple length of $15 / 16$ and $31 / 32$ inch, accounting for 23.6 percent of the ginnings this, season compared with 21.1 percent last season and 22.2 percent in 1941. With such increases in the shorter staples, the percentage of ginnings in the longer lengths naturally declined. The percentage of cotton which had a staple. length of from 1 inch to $1-3 / 32$ inches inclusive dropped from 57.4 percent. in 1941 to 56.1 percent in 1942 and 52.7 percent this year, and long-staple cotton ( $1-1 / 8$ inch and longer) fell from 7.2 percent in 1941 to 6.2 percent in 1942 and 4.6 percent in 1943.

The grade of the crop was higher in 1943 than in either 1941 or 1942. The grade index (Middling white $=100$ ) for the ginnings through December 12 was 96.5 against 95.6 a year ago and 95.0 in 1941. Strict Middling and higher, White and Extra White, cotton ginned through December 12 totaled $1,657,578$ bales or 15,4 percent of the total ginnings. To the same date last season 887,529 bales or 7.6 percent of the ginnings were Strict Middling and
higher. In fact the quantity of Strict Middling and higher cotton ginned so far this season is nearly as much as the combined ginnings of these qualities during the two preceding seasons.

Ginnings of Middling White and Extra White totaled 3,538,940 bales or 33.0 percent of ginnings compared with $4,253,723$ bales or 36.4 percent last season. Strict Low Middling totaled $3,671,739$ bales or 34.2 percent this season compared with $3,847,453$ bales or 32.9 percent in 1942. Low Midding and lower, White and Extra White, totaled $1,092,517$ bales or 10.2 percent of the total against $1,413,329$ bales or 12.1 percent last season. The proportion of most grades of Spotted and other colored cotton is also running less than to the same date in either of the past two seasons.

The quality of American-Egyptian cotton ginned through December 12 was lower in grade and about the same in staple as a year earlier. Grades 1 and $1-1 / 2$ comprised 57.3 percent as against 81.2 percent a year earlier. In staple length, 40.1 was shorter than $1-1 / 2$ inches as against 39.7 percent last season.

Consumption of Cotton During November at Annual
Rate of 10.3 Million Bales; Large Carry-Over
of American-Egyptian Cotton ir Prospect
In November, 858,813 bales of cotton were consumed by United States mills. This is equivalent to 39,945 bales per working day or nearly 10.3 million bales per season. This annual rate is smaller than that based on the average consumption per working day in either September or October but it is slightly larger than that for July or August when the annual rate was the lowest since the winter of 1941.

Included in the November consumption were 3,559 bales of AmericanEgyptian cotton and 9,359 bales of foreign-grown cotton. July and August are the only months since November 1941 in which the consumption of AmericanEgyptian cotton has been this small and the November 1943 consumption of . foreign-grown cotton was the smallest since November 1940. If consumption of American-Egyptian cotton continues for the remainder of the current season at the November daily rate, or at the August-November average rate which is the same, the total consumption of American-Egyptian cotton would be about 43,000 bales. This would compare with about 50,000 bales consumed in $19.42-43$ and about 47,000 in 1941-42.

The 1943-44 supply of American-Egyptian cotton is variously estimated at from about 104,000 to 117,000 bales (from about 37,000 to 50,000 bales carry-over and 67,000 bales production). Tith such a supply and a consumption of 43,000 bales, the indicated end-of-season carry-over would be from 61,000 to 74,000 bales, or more than the total supply in any year from 1923 through 1940. Even if the carry-over were equal to the lower of these two figures and consumption continued at the present level, instead of continuing the downward trend which has characterized the consumption of American-Egyptian cotton for a year and a half, the carry-over of 61,000 bales would be sufficient to last domestic rills until about January 1946, assuming that the qualities and the distribution among mills were such as to permit. it to be entirely used up at one time.

| It em | Unit <br> or base period | Nov. | Sept | $\frac{1943}{0 c t}$ | Nov. | $\begin{aligned} & \text { ct.of } \\ & \text { year } \\ & \text { go } 1 / 1 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| ddling 15/16-inch, 10 markets: | Cent | 19.27 | 20.44 | 20.32 | 19.70 | 102 |
| Farm, United States ...........: | Cent | 19.22 | 20.20 | 20.28 | 19.40 | 101 |
| Parity .......................... | Cent | 19.22 | 20.46 | 20.58 | 20.71 | 108 |
| Farm, percentage of parity ...: | Percent | 100 | 99 | 99 | 94 | 94 |
| Fremium of 1-1/8-inch over |  |  |  |  |  |  |
| basis 2/: |  |  |  |  |  |  |
| Memphis | Point | 500 | 434 | 450 | 488 | 98 |
| Carolina "B" mill area | Point | 700 | 609 | 640 | 666 | 95 |
| New England mill area | Point | 725 | 634 | 665 | 691 | 95 |
| American-Egyptian, farm, Arizona: | Cent | 44.7 | 46.3 | 46.3 | 46.0 | 103 |
| SxP, New England mill points3/: | Cent | 49.56 | 48.13 | 49.00 | 49.00 | 99 |
| Cloth, 17 constructions ......: | Cent | . 40.62 | 40.62 | 40.62 | 40.62 | 100 |
| Mill margin (17 constructions): | Cent | 21.47 | 20.37 | 20.47 | 21.12 | 98 |
| Cottonseed, farm price .......: | Dollar | 45.01 | 51.90 | 52.50 | 52.50 | 117 |
| Cottonseed, parity ..... | Dollar | 34.95 | 37.20 | 37.40 | 37.70 | 108 |
| Cottonseed, farm, pet.of parity: | Percent | 129 | 140 | 140 | 139 | 108 |
| Consumption: |  |  |  |  |  |  |
| All kinds during month, total | 1,000 bales | 912.9 | 872.1 | 846.2 | 858.8 | 94 |
| All kinds cumulative, total ..: | 1,000 bales | 3,771 | 1,714 | 2,561 | 3,419 | 91 |
| All kinds per day, total | Bale | 44,533 | 40,563 | 40,781 | 39,945 | 90 |
| All kinds, annual rate ........ | llion bales: | 11.4 | 10.4 | 10.5 | 10.3 | 90 |
| American-Egyptian cotton, total: | Bale | 4,402 | 3.633 | 3,723 | 3,559 | 81 |
| American-Egyptian, cumulative : | Bale | 17,453 | 7.002 | 10,725 | 14,284 | 82 |
| Foreign cotton, total .........: | Bale | 14,883 | 10,403 | 9,420 | 9.359 | 63 |
| Foreign cotton, cumulative ...: | Bale | 63,773 | 20.595 | 30,015 | 39,374 | 62 |
| spindle activity: |  |  |  |  |  |  |
| Spindles in place | Thousand | 23,754 | 23,352 | 23,331 | 23,340 | 98 |
| Active spindles | Thousand | 22,978 | 22,631 | 22,599 | 22,623 | 98 |
| Percentage active | Percent | 96.7 | 96.9 | 96.9 | 96.9 | 100 |
| Hours operated, total .........: | Million | 10,558 | 10,325 | '10,070 | -10,179 | 96 |
| Hours per spindle in operation: | Hour | 459 | 456 | 446 | 450 | 98 |
| Hours per day 4/ ...............: | Hour | 15.3 | 15.2 | 14.4 | 15.0 | 98 |
| Stocks, end of month: $\quad$ : $\quad$ : |  |  |  |  |  |  |
| Consuming establishments ......: | 1,000 bales | 2,409 | 1,930 | 2,204 | 2,389 | 99 |
| Public storage and compresses : | 1,000 bales | 13,642 | 10,433 | 12,264 | 12,936 | 95 |
| Total 5/ ........................ | 1,000 bales | 16,051 | 12,363 | 14,468 | 15,325 | 95 |
| Egyptian cotton, total 5/ ....: | Bale : | 36,466 | 37.143 | 44,181 | 48,268 | 132 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Cotton consumption ...........:1235-39 = 100: |  | 171 | 156 | 156 | 153 | 89 |
| indle activity 6/ ...........: | Percent : | 133.9 | 127.5 | 129.5 | 125.3 | 94 |
| rices paid, interest, and taxes: 7 | 910-14=100: | 155 | 165 | 166 | 167 | 108 |
|  | $935-39=100:$ | 220 | 244 | 247 | 247 | 112 |
| Whol esale prices .+........ ${ }^{\text {a }}$ | 910-14 = 100: | 146 | 151 | 150 | 150 | 103 |

ompiled from official sources. I/ Applies to last month for which data are
vailable. 2/ Premiums for Midding $1-1 / 8$ inch based on near active month futures New York. $3 / \mathrm{SxF}$, No. 2, 1-1/2 inch, New England mill points. $4 /$ Total hours er spindle in operation divided by number of days in calendar month. $5 /$ Includes hly stocks in mills and public storage and at compresses. 6/ Based on 5-day
-hour per week operation.

Table 2.- Cotton: Estimated production, United States, foreign countries and world, 1909-42 I/


Table 3.-Sotton: Premium of market value over loan value, by grade and staple length, December 1943 I/


| White and Extra White: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\overline{\text { Middling }} \overline{\text { Fair }}$.......: | 14 | 16 | 33 | 42 | 43 | 45 | 31 | 21 |  |  |  | 56 | - 36 | $\cdots 21$ |
| Strict Good Middling: | 8 | 10 | 27 | 36 | 37 | 39 | 25 | 15 | 46 | 19 | 1 | 56 | 36 |  |
| Good Middling .......: | 2 | 4 | 21 | 30 | 31 | 33 | 19 | - 9 |  | 19 |  | 56 | 36 |  |
| Strict Middling ...: | 1 | 8 | 21 | 30 | 31 | 32 | 18 | 8 |  |  | 16 | 71. | 51 |  |
| Middling | 7 | 8 | 22 | 31 | 31 | 33 | 26 | 18 | 46 | 46 | 45 | 56 | 47 |  |
| Strict Low Middling | 1 | 3 | 12 | 25 | 27 | 28 | 28 | 25 | . 66 | 49 | . 9 | 16 | 9 |  |
| Low Middling ........:- | 40 | $73-$ |  | 113 | 112 - | 110 - | 105 |  | - 19 | 29 | 14 | 12 | - 21 | - 29 |
| Strict Good Ordinary:- | 11 | 51 - | $40-$ | 87 | $87-$ | 87 - | 84 | 84 | - 82 | 97 | 97 | 97 | $\therefore 97$ | - 97 |
| Good Ordinary | 13 | 56 |  | 98 | $98-$ | $98-$ | 95 | 95 | $-87$ | 112 | 112 | 112 | - 112 | - 112 |
| Spotted |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Good Middling .......:- | 3 | 7 |  | 30 |  |  |  |  | 51 | 51 | 56 | 76 | 76 |  |
| Strict Middling .....:- | 2 | 7 | 11 | 30 | 31 | 37 | 37 | 39 | 46 | 51 | 66 | 76 | 76 |  |
| Middling |  |  |  | 11 | 7 - | 8- |  |  | - 68 | 48 | 59 | - 56 | 56 | 56 |
| Strict Low Middling :- |  | 122 | 120 | 168 | 166 - | 163 - | 165 |  | - 107 | 118 | 123 | 82 | 87 |  |
| Low Middling ........:- |  | 95 |  | 142 | 142 - | 139 - | 139 |  | - 81 | 96 | 96 | 96 | 96 | 96 |
| Tinged |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Good Middling |  | 12 | 11 | 5 | 9 | 7 | 5 |  | - 54 | 69 | 54 | 69 | 69 | 69 |
| Strict Middling .....:- |  | 17 |  |  | 1 | 1 | 2 |  | - 59 | 69 |  |  |  | 69 |
| Middling ............:- | 103 | 132 | 129. | 163 | 163- | $163-$ | 167 | 166 | - 168 | 208 | - 209 | 239 | - 249 | - 249 |
| Strict Low Midding :- |  | 137 | $133-$ | 175 | 174 | $170=$ | 170 | 170 | - 177 | 179 | 179 | 179 | $\div 779$ | - 179 |
| Low Middling ........:- | 102 | 42 | $138-$ | 177 | $176-$ | 172 - | 172 | 172 | - 178 | 180 | 180 | 180 | - 180 | - 180 |
| Yellow Stained |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Good Middling . . . . . :- | 43 | 78 | $72-$ | 119 | 119 - | 118 - | 117 | 117 | - 82 | 132 | 147 | 1.72 | - 197 | - 202 |
| Strict Middling ....:- | 47 | 81 | 74 | 122 | 122 - | 121 - | 125 | 125 | - 82 | 132 | - 147 | 172 | - 197 | - 202 |
| Middling ...........:- |  | 105 | 101 - | 149 | 149 - | 152 - | 152 | 152 | - 159 | 204 | 204 | 204 | - 204 | - 204 |
| Gray : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Good Middling .......:- |  | 9 |  |  |  |  |  | 17 | 26 |  | 56 |  | 56 |  |
| Strict Middling .....:- | 12 |  | 0 |  | 18 |  |  | 17 | 21 | 61 | 51 | 51 | 51 |  |
| Middling ............- | 27 | 26 | $17-$ | 1 | $3-$ | $3-$ | 1 | 6 | 11 | 26 | 26 | 21 | 16 |  |

I/ Market value (price of Midding $\overline{15 / 16}$ inch plus or minus appropriate quality differential) less locn Value (loan rate of Middling $15 / 16$ inch plus or minus appropriate quality differential); lengths $13 / 16$ inch to $1-1 / 16$ inches inclusive based on 10 markets; $1-1 / 8$ inches and longer based on Memphis; in points per $1 b$. Compiled from reports of the Cotton and Fiber Branch, F.D.A., and the C.C.C.

Table 4.- Cotton, Upland: Quality of ginnings through December 12, by. States, 1942 and 1943 :


If Strict Midding and higher, White and Extra White, and Good Middling Spotted. $\overline{2} /$ Based on the grade and staple report issued at Atlanta, Georgia, on December 8, 1943, covering the season through November 30. 3/ Less than 0.05 percent. . Compiled from reports of the Cotton and Fiber Branch, Food Distribution Administration.

