## The

# BUREAU OF AGRICULTURAL ECONOMICS <br> UNITED STATES DEPARTMENT OF AGRICULTURE 

COTTON: FACTORS ACCOUNTING FOR REDUCTION FROM FULL YIELD, 13 STATES, 1909-43*

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Boll weevil survivals and estimates of boll weevil population made earlier this spring indicated a situation rather similar to that in early $1943-$ numbers large enough to cause severe damage if weather is cool and damp. Hot and exceptionally dry weather held weevil in check in 1943 and the reduction from full yield from that cause in the 13 old cotton-producing States was only 6.1 percent or well below average.

Should the weather between now and the end of the fruiting season be cool and damp; it would mean that greater than usual effort would have to be employed to hold the boll weevil in check if damage to the crop is to be held to a minimum.

## THTCOTTONSITUATION

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- June 22. 1944
THE DOMESTIC COTTON SITYATION
Receat Stroagtheaiag Puts Spot
Peqcos Near Goverameat
Sale Price

Duriag the past 30 days cotwor pricea prabed into new high ground for Worid Was II. On June 21 the 10-sarket average of Middling 15/16-inch was 21.68 cente per pound ${ }^{\prime} 25$ poimts above last seasen ${ }^{\circ}$ s peak of 21.43 and 30 poicts above the price on April $\mathrm{T}_{0}$ 2g43. the day the President issued the Moldotherlimen order. To stabilize prices at that time the War Food Admixistration and the Office of Price Administration agreed to a program wherebs cottor owned by the Comodity Credit Corporation would be sold at 21. 38 cestis. basis Midditug $15 / 260$ inch at the 10 maxkets.

The Government sales price has been revised from time to time as required by law in order to reflecit advances if the parity price of cotton. At the present time the arerage sales price for Midaling 15/16-inch cotton ite the 10 designated spot markets is 21.88 cests ox 20 points higher than the market price on June 21. Frow April 24,1943 when the program was anoneced, to June 1. 1944, the Commodity Credit Corporation had sold approximately 200,000 bales of cotton under the Stabilization program.

Over the past year the price of cottom in this country has tended to weaken on fayorable wax news. This was reflected in the drop of about $\$ 1.25$ per bale in the earig houss of tradiag after the Allied landings in

France, but the price-depressing influences arising therefrom were more than neutralized by price-strengthening factors. The 10 -market price of 21.68 cents on June 21 was about $2 / 3$ cent higher than the average for the 3 months, March through May, and $1 / 2$ cent higher than during the corresponding months last season.

Daily Cotton Consumption Lowest
Since November 1940 Despite
Efforts to obtain Increased
Textile Output
Consumption of cotton averaged 36,973 bales per working day in May, the lowest of any month since November 1940 and 20 percent below the peak daily consumption of April 1942. Compared with other months this season, the May daily rate was 6 percent below the average for the 9 -month period, August through April.

For the season through May 31 the consumption of cotton totaled $8,412,168$ bales. If this is projected on the basis of the same daily rate in June and July as in May, consumption this season would total about 9,965,000 bales. This would compare with 11,100,082 bales in 1942-43 and 11,170,106 bales in 1941-42, reductions of 10 and 11 percent, respectively.

As was discussed in the April issue of The Cotton Situation, several Government agencies have all taken steps in recent months designed to bring about an increase in textile output. The Office of Price Administration has made upward adjustments in ceiling prices for certain important groups of fabrics. The War Manpower Commission also ordered a 48 -hour work-week for the cotton textile industry effective May 16, and the War Production Board has ordered that mills produce yarn in the present and succeeding quarters at least equal to the production in the peak quarter of 1943.

In view of the sharp deciine in the daily cotton consumption in May, these and other such measures cannot be said to have entirely achieved their stated objective - increased textile output -- although without them the daily consumption might'have been even lower.

Although complete data for determining all of the causes underlying the decline in the daily consumption in May are not available, it might be expected that there was some further deterioration in the cotton textile labor situation. Many cotton mills are adjacent to farming areas and there may have been a number of people normally engaged in farming who had accepted mill employment for the winter months and were then returning to the farm. Then, too, absenteeism may have been greater than normal. Farm work was delayed in many areas by excessive rains. To overcome this late start, members of farm families who worked in nearby mills may have stayed away from their mill jobs for a few days in order to help with the farm work. Increased textile output may also have been delayed in some instances pending action on appeals for ceiling price relief made in accordance with the above-mentioned orders.

WPB Urgency Patings for Cotton<br>Textiles Established

As a further means of obtaining increased textile output, especially of those products for which the need is greatest, the War Production Board recently announced the adoption of an urgency rating pattern for the cotton textile industry, including all cotton fabrics, yarns, cordage and twines in the order of their importance to the war program and the civilian economy.

Under the urgency rating pattern, all cotton textile mills are rated according to the essentiality of the item produced. The War Manpower Commission's manpower priority committee, using this pattern for guidance may channel such new labor as is recruited to those mills producing items most necessary to meet military and civilian needs.

The factors entering into the rating of the many individual items are broken down as follows: (1) the fundamental end-use importance of each item in the wartime economy, and (2) the adequacy of current production as measured against approved minimum essential requirements.

Mills will be rated from 10 through 1 , depending on the production urgency of the fabrics or yarns being manufactured. The ratings of 7 through 1 will be given to those items which are almost exclusively civilian-type fabrics, which, though badly needed, are nevertheless not in such urgent demand as those rated 10, $9_{2}$ and 8 .

Since cotton yarns form the bottleneck in so many operations WPB said, most weaving and knitting yarns also have been assigned a räting of 10, along with certain important twine and cordage items.

Of the 138 cotton textile products classified in the order, 39 had a production urgency rating of 10,15 of 9,43 of 8,12 of 6,18 of 4,2 of 2 , 7 of 1 , and 2 had a production urgency rating of zeroe. In other words, 97 produc'ts or 70 percent of the total had the more urgent ratings of 8,9 , and 10.

Late Crop Increases Potential Damage
From Boll Weevil and Need For
Control Measures
Excessive rains delayed plantings this spring and caused the 1944 cotton cron to be séveral weeks later than normal in much of the Belt., Since late planted cotton is moré susceptible to damage by boll weevil and other insects than that planted earlier, it is especially desirable that the weather be favorable this summer for holding weevils and other insects in check. Of course, farmers cant make the weather; they can only prepare for the possibility of cool, cloudy, and damp weather; just in case. This means having dusting equipment in good condition, adequate poison on hand or readily available, and keeping a close check on the degree of infestation.

Calcium arsenate is a rather bulky material and the movement of large supplies in a short period of time requires considerably transportation
equipment, which in wartime may be hercer than usual to provide. Furthermore, calcium arsenate manufacturers, like fertilizer mixers, tend to have both limited storage space and a tight labor situation. This makes it virtually necessary, if the manufacturers are to produce enough and on time, that the distributors and farmers cooperate to the extent of anticipating their needs well in advance, placing their orders as soon as possible, and accepting delivery as it becomes available.

The price of calciut arsenate in wholesale lots at New York has been about. 7.5 cents per pound for the past 2 years. Compared with present prices of cotton thim is so cheap as to leave no doubt as to the advisability of its use wherever infestation is great enough to be demaging. It can be stored from season to season without deterioration and the investment it represents is comparatively small particularly in relation to current cotton prices. In no sense is this intended to encourage unnecessary hoarding, but officials of the War Food Administration are urging farmers to anticipate their needs well in advance of the time such products are needed and accept delivery whenever the materials are available.

Given reasonable cooperation of thịs sort, the overall supply picture for calcium arsenate is entirely satisfactory. The only shortage which might develop would be of a local nature which.can be prewented if orders are placed early.

Production of calcium arsenate totaled 71 million pounds in the 12month period October 1941-September 1942 and 69 million in 1942-43. In this 2-year period about 75 percent of the production was shipped to the cottonproducing States, primarily for use on cotton. With so large a part of the total production used on cotton, the responsibility for staggering their purchases so as to prevent local shortages.rests with cotton producers, their distributors, and the manufaćturers.

Table 1.- Statistical summary


Table 2.- Cotton: Factors accounting for reduction from full yield, 13 old cotton growing States, 1909-43 I/

| $\begin{aligned} & \text { Crop } \\ & \text { year } \end{aligned}$ | : Boll <br> : weevil. | Deficient moisture | Excessiv <br> moisture | Other <br> climatic | $\begin{aligned} & \text { other } \\ & \text { insects } \end{aligned}$ | $\begin{aligned} & \text { All } \\ & \text { other } \end{aligned}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | : Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 1909 | - 6.1 | 14.9 | 6.0 | 7.7 | 1.8 | 5.5 | 42.0 |
| 1910 | 5.3 | 12.2 | 5.1 | 5.3 | 2.2 | 5.5 | 35.6 |
| 1911 | -1. 3 | . 9.8 | 2.6 | 3.0 | 6.6 | 2.8 | 26.1 |
| 1912 | : 3.3 | 8.1 | 7.6 | 5.0 | 3.2 | 5.5 | 32.7 |
| 1913 | 6.7 | 15.2 | 2.0 | 5.9 | 2.2 | 1.7 | 33.7 |
| 1914 | : $\quad 5.9$ | 7.9 | 2.9 | 3.0 | 3.9 | 1.8 | 25.4 |
| . 1915 | : 9.9 | 6.8 | 5.7 | 6.9 | 2.3 | 5.2 | 36.8 |
| 1916 | $: 13.4$ | 9.2 | 9.1 | 7.0 | 2.4 | 1.3 | 42.4 |
| 1917 | : 9.3 | 15.1 | 1.7 | 8.8 | 2.9 | 2.1 | 39.9 |
| 1918 | : 5.8 | 23.8 | 0.9 | 4.6 | 2.1 | 3.1 | 40.3 |
| 1919 | : 13.2 | 2.7 | 15.3 | 3.2 | 5.6 | 1.9 | 41.9 |
| 1920 | : 19.9 | 2.2 | 8.8 | 2.2 | 4.0 | 1.9 | 39.0 |
| 1921 | : 31.0 | 8.6 | 4.3 | 3.1 | 4.5 | 1.4 | 52.9 |
| 1922 | : 24.2 | 10.3 | 4.9 | 2.3 | 2.4 | 1.1 | 45.2 |
| 1923 | : 19.5 | 7.2 | 8.0 | 2.8 | 7.1 | 0.9 | 45.5 |
| 1924 | : 8.0 | 14.0 | 5.0 | 2.3 | 4.0 | 1.4 | 34.7 |
| 1925 | : 4.1 | 24.6 | 1.4 | 3.0 | 2.2 | 0.7 | 36.0 |
| 1926 | : 17.1 | 5.3 | 3.2 | 2.9 | 8.9 | 2.1 | 29.5 |
| 1927 | : 18.5 | 6.4 | 4.9 | 2.8 | 4.4 | 1.5 | 38.5 |
| 1928 | : 14.1 | 4.4 | 7.3 | 4.9 | 3.4 | 2.3 | 36.4 |
| 1929 | $: 13.3$ | 10.8 | 7.2 | 6.0 | 2.5 | 4.0 | 43.8 |
| 1930 | : 5.0 | 27.7 | 2.8 | 6.3. | 1.9 | 3.4 | 47.1 |
| 1931 | : 8.3 | 8.3 | 2.6 | 3.5 | 1.8 | 3.3 | 27.8 |
| 1932 | : 15.2 | 8.0 | 3. 9 | 6.1 | 3.1 | 6.1 | 42.4 |
| 1933 | : 9.1 | 6.8 | 2.6 | 3.7 | 2.2 | 4.2 | 28.6 |
| 1934 | $: \quad 7.3$ | 20.7 | 1.9 | 7.3 | 1.6 | 3.8 | 42.6 |
| 1935 | : 8.1 | 9.2 | 3.7 | 6.5 | 5.0 | 4.3 | 36.8 |
| 1936 | 4.9 | 16.2 | 1.9 | 8.4 | 3.0 | 4.1 | 38.5 |
| 1937 | $: 5.3$ | 5.7 | 1.5 | 4.1 | 3.0 | 3.5 | 23.1 |
| 1938 | : 9.9 | 6.8 | $3 \cdot 3$ | 4.0 | 4.2 | 4.0 | 32.2 |
| 1939 | $: \quad 8.7$ | 10.1 | 4.2 | 5.9 | 2.2 | 3.1 | 34.2 |
| 1940 | : 6.5 | 5.5 | 6.5 | 6.5 | 1.9 | 3.7 | 30.6 |
| 1941 | : 15.4 | 3.3 | 8.6 | 3.8 | 4.8 | 2.7 | 38.6 |
| 1942 | : 8.8 | 3.6 | 3.5 | 4.0 | 4.0 | 2.9 | 26.0 |
| 1943 | : 6.1 | 12.5 | 1.7 | 5.9 | 2.0 | 2.8 | 31.0 |

$\overline{1 / \text { Includes }} \overline{A l a_{0},} \overline{A r k ., ~ G a ., ~ F l a ., ~ L a ., ~ M i s s ., ~ M o ., ~ I N . ~ C ., ~ O K I a ., ~ S . ~ C ., ~ T e n n ., ~}$ Tex., and Va. Data for cover page chart, Neg. 29270.
Compiled from reports of the Crop Reporting Board.

Table 3.- Cotton, Middling 15/16.inch: Comparison of spot mariket prices and Government ioan rates, specified markets, $1942-43$ and $1943-44$


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