# COTTON <br> Situation 



$$
14 y^{2}=197 ?
$$

| Item | Unit | 1969 | 1970 |  |  | $1971{ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Dec. | Jan. | Feb. | Dec. | Jan. | Feb. |
| GENERAL ECONOMY |  |  |  |  |  |  |  |
| BLS wholesale price indices |  |  |  |  |  |  |  |
| All commodities | $1967=100$ | 108.5 | 109.3 | 109.7 | 111.0 | 111.8 | 112.8 |
| Cotton boradwoven goods | do. | 105.3 | 105.5 | 105.5 | 107.9 | 108.3 | 108.2 |
| Indices of industrial production ${ }^{2}$ |  |  |  |  |  |  |  |
| Overall including utilities | do. |  |  | t avallab |  |  |  |
| Textiles, apparel and leather products | do. |  |  | t avaılab |  |  |  |
| Personal income payments ${ }^{2}$ | Bil. dol. | 774.3 | 777.8 | 781.5 | 817.5 | 825.4 |  |
| Retallapparel sales ${ }^{2}$ | Mil. dal. | 1,681 | 1,616 | 1,735 |  |  |  |
| COTTON |  |  |  |  |  |  |  |
| Broadwoven goods industry Average gross hourly earnings | Dollars | 2.42 | 2.42 | 2.42 | 2.54 | 2.53 |  |
| Ratio of stocks to unfilled orders ${ }^{2}$ | Percent | 42 | 43 | 2.45 | 38 | 37 |  |
| Consumption of all kinds by mills |  |  |  |  |  |  |  |
| Total (4-week period except as noted) | 1,000 bales | ${ }^{3} 717$ | 635 | 626 | ${ }^{1} 722$ | 644 | 663 |
| Cumulative since August 1 | do. | 3,435 | 4,071 | 4,697 | 3,349 | 3,993 | 4,656 |
| Dally rate 4 |  |  |  |  |  |  |  |
| Unadjusted . . . . . . | do. | 28.7 | 31.8 | 31.3 | 28.9 | 32.2 | 320 332 |
| Spindles in place on cotton system ${ }^{\text {5 }}$ | Thousands | 20,133 | 20,206 | 20,113 | 19,559 | 19,500 | 19,476 |
| Consuming 100 percent cotton | do. | 12,440 | 12,378 | 12,213 | 11,649 | 11,645 | 11,625 |
| Consuming blends | do. | 5,068 | 5,116 | 5,178 | 4,989 | 5,027 | 5,036 |
| Mill margin data, expanded series |  |  |  |  |  |  |  |
| Average gray goods price | Cents | 68.87 | 68.90 | 68.88 | 69.84 | 70.12 | 70.48 |
| Average cotton price | do. | 24.95 | 24.98 | 25.02 | 25.86 | 26.18 | 20.77 |
| Margin | do. | 43.92 | 43.92 | 43.86 | 43.98 | 43.94 | 4371 |
| Prices of American upland |  |  |  |  |  |  |  |
| Received by farmers (mid-month) | do. | 19.95 | 19.09 | 20.73 | 20.96 | 21.00 | 2147 |
| Parity (effective following month) | do. | 48.31 | 48.18 | 48.56 | 49.82 | 50.35 | 5086 |
| Farm as percentage of parity. | Percent | 41 | 40 | 42 | 42 | 42 | 42 |
| Stocks |  |  |  |  |  |  |  |
| Mill, end of month | 1,000 bales | 1,281.8 | 1,344.2 | 1,469.1 | 1,157.3 | 1,307.5 | 1,479.9 |
| Public storage and compresses | do. | 9,660.2 | 8,839.4 | 7,989.4 | 9,261.5 | 8,131.6 | 6,9212 |
| Trade |  |  |  |  |  |  |  |
| Raw cotton |  |  |  |  |  |  |  |
| Exports |  |  |  |  |  |  |  |
| Total | do. | 176.1 | 382.3 | 324.6 | 362.1 | 441.2 |  |
| Cumulative since August 1 | do. | 753.7 | 1,136.0 | 1,460.6 | 967.4 | 1,408.6 |  |
| Imports |  |  |  |  |  |  |  |
| Total | Bales | 966 | 3,187 | 7,517 | 499 | 3,413 |  |
| Cumulative since August 1 | do. | 25,195 | 28,381 | 35,899 | 10,479 | 13,892 |  |
| Textile manufactures (equivalent raw cotton) |  |  |  |  |  |  |  |
| Total | 1,000 bales | 48.2 | 40.1 | 35.9 | 30.7 | 31.0 |  |
| Cumulative since August 1 | do. | 220.3 | 260.3 | 296.3 | 157.8 | 188.8 |  |
| Imports |  |  |  |  |  |  |  |
| Total | do. | 73.7 | 93.4 | 82.9 | 68.6 | 79.7 |  |
| Cumulative since August 1 | do. | 411.9 | 505.3 | 588.2 | 382.5 | 462.2 |  |
| MAN MADE FIBERS |  |  |  |  |  |  |  |
| Consumption, dally rate by mills ${ }^{6}$ |  |  |  |  |  |  |  |
| Non-cellulosics . . . . . . . . . . | 1,000 pounds | 3,406 | 3,345 | 3,354 | 3.529 | 3.468 | 3,659 1,855 |
| $\xrightarrow{\text { Rayon and acetate . . . . }}$ ( | do. | 2,237 | 2,271 | 2,047 | 1,925 | 1,909 | 1,855 |
| Prices |  |  |  |  |  |  |  |
| Acrylic . . . . . . . . . . . . . | Dollars | 0.68 | 0.68 | 0.68 | 0.56 | 0.56 | 0.56 |
| Polyester | do. | . 61 | . 61 | . 61 | . 61 | . 61 | . 61 |
| Rayon viscose Staple |  |  |  |  |  |  |  |
| Modified, 1.5 and 3.0 denier | do. | . 38 | . 38 | . 38 | . 38 | . 38 |  |
| Regular, 1.5 denier | do. | . 28 | . 28 | . 28 | . 28 | . 28 | 28 .93 |
| Yarn, 150 denter | do. | . 93 | . 93 | . 93 | . 93 | . 93 | . 93 |

${ }^{1}$ Prelıminary. ${ }^{2}$ Scasonally adjusted. ${ }^{3} 5$-week perıod. ${ }^{4}$ Combined upland and extra-long stapie. "End of morth. "On cottonsystem spinnıng spindles, seasonally adjusted.

## COTTON SITUATION

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Farmers intend to plant about 12 million acres of upland cotton and 111,000 acres of extra-long staple cotton in 1971. For upland cotton, this is about 0.2 million more acres than indicated in the preliminary January intentions survey and compares with 1970 plantings of nearly 11.9 million.

The cotton carryover this summer will total around $41 / 2$ million bales, compared with $53 / 4$ million last August. Although the 1970 cotton crop increased slightly to 10.1 million running bales, total use should moderately exceed the 10.8 million level of $1969 / 70$, primarily reflecting improved export prospects.
U.S. cotton exports may gain one-fourth during $1970 / 71$-to about $31 / 2$ million bales. This improvement over last season's 2.8 million bales id indicated by a sharp decline in foreign Free-World cotton production and reduced stocks along with slightly higher consumption. Output in these countries may fall $2 \frac{1}{2}$ million bales from the 1969/70 level as both acreage and yields are down in many areas.
U.S. cotton mill use during 1970/71 will match or slightly exceed last season's 8 million bales. Consumption has increased above year-earlier levels during recent months and may trend higher during the remainder of 1970/71. In contrast, use of total man-made staple fiber on cotton-system spindles, which had increased in previous years, is down from last year.

Cotton's share of the U.S. fiber market in calendar 1970 remained near the previous year's 40 percent despite a decline in total fiber use. Total domestic fiber consumption of 10.1 billion pounds was about 2 percent below the previous 2 years. This included a net import trade balance of fiber products of nearly 0.6 billion equivalent pounds, slightly above 1969. Per capita domestic fiber use dropped below 50 pounds for the first time since 1967 as cotton, wool, and rayon and acetate use declined. Non-cellulosic per capita use gained slightly.

The 1970 cotton crop totaled $10,116,096$ running bales ( $10,058,965$ bales upland cotton) according to the preliminary ginnings report. This was slightly below the December 1 estimate and compares with 1969 ginnings of 9.9 million bales. The production gain in 1970 was limited primarily due to continued adverse growing and harvesting conditions. The staple length of ginnings averaged a little shorter than in 1969.

Spot market prices for most qualities of upland cotton strengthened during January and February after
declining from early-season levels. Thus, most prices are slightly to moderately above year-earlier levels, with the shorter staples showing the biggest increases.

The extra-long staple cotton carryover this summer may be only about two-thirds of last August's 107,000 bales as expected use is considerably above the below-average 1970 crop. Because of declining supplies, the 1971 national acreage allotment was increased by half. As a result, producers indicated March 1 intentions to plant 111,000 acres this year, 35,000 more than in 1970.
U.S. demand for cotton during the 1960's lagged behind the generally expanding market for fibers. Major factors included intensifying competition from man-made fibers, high levels of U.S. textile imports, and fluctuating cotton supplies and prices. Although cotton's share of the market will continue under pressure during the 1970 's, prospects are brighter than in recent years. A growing population, higher personal incomes, and expanding cotton research and promotion may enable domestic mill use of cotton to increase moderately from the 8 million bales of 1970 . Also, cotton textile imports may continue upward. (See Special Article beginning on page 13.)

## OUTLOOK FOR 71/72

## PLANTING INTENTIONS

Farmers indicated March 1 intentions to plant about 12 million acres of upland cotton and 111,000 acres of extra-long staple cotton in 1971. For upland cotton, this represents about 0.2 million more acres than were previously indicated in the preliminary January intentions survey and compares with 1970 upland plantings of nearly 11.9 million (table 1 ). If these
planting intentions materialize, 1971 planted acreage of upland cotton will exceed the national base acreage allotment by almost 4 percent. Intentions in the Southwest and West show slight to moderate gains over 1970 planted acreage. Producers in the Southeast and Delta indicate cuts of about 2 percent (table 13). Smaller intentions in the eastern half of the Cotton Belt apparently are related to increasing competition from other crops, particularly soybeans and sorghum.

Table 1.-Cotton: Acreage planted, by States, average 1964-68, annual 1969 and 1970 , indic̣ated 1971, and 1971 as a percent of 1970

| States | Planted acres |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1964-68 <br> average | 1969 | $1970^{\text {² }}$ | $1971{ }^{2}$ | 1971 as a Percent of 1970 |
|  | $\begin{aligned} & 1,000 \\ & \text { acres } \end{aligned}$ | 1,000 acres | $1,000$ <br> acres | $\begin{aligned} & 1,000 \\ & \text { acres } \end{aligned}$ | Percent |
| North Carolina | 283 | 184 | 173 | 175 | 101 |
| South Carolina | 413 | 350 | 346 | 350 | 101 |
| Georgia | 477 | 410 | 405 | 390 | 96 |
| Tennessee | 429 | 420 | 425 | 400 | 94 |
| Alabama | 667 | 566 | 565 | 550 | 97 |
| Missouri | 303 | 312 | 310 | 310 | 100 |
| Mississippi | 1,222 | 1,225 | 1,235 | 1,260 | 102 |
| Arkansas | 1,066 | 1,090 | 1,120 | 1,070 | 96 |
| Louisiana | 438 | 440 | 465 | 460 | 99 |
| Oklahoma | 498 | 500 | 525 | 530 | 101 |
| Texas | 4,950 | 5,175 | 5,252 | 5,371 | 102 |
| New Mexico | 162 | 163 | 154 | 160 | 104 |
| Arizona | 305 | 311 | 276 | 298 | 108 |
| California - ${ }^{\text {a }}$ | 685 | 707 | 666 | 711 | 107 |
| Other States ${ }^{3}$ | 41 | 29 | 26 | 26 | 100 |
| United States | 11,939 | 11,882 | 11,942 | 12,061 | 101 |
| American Pima ${ }^{4}$ |  |  |  |  |  |
| Texas | 28.9 | 27.5 | 26.8 | 41.0 | 153 |
| New Mexico | 16.4 | 16.0 | 15.5 | 21.0 | 135 |
| Arizona | 35.0 | 33.6 | 33.1 | 48.0 | 145 |
| California | 0.6 | . 5 | . 5 | . 7 | 140 |
| Total | 80.9 | 77.6 | 75.9 | 110.7 | 146 |

[^0]
## COTTON LEGISLATION

The intended acreage increase for upland cotton primarily reflects the more liberal provisions of the Agricultural Act of 1970, especially the suspension of marketing quotas and penalties. Other major features of the 3-year program include:

- A national average 1971-crop price-support loan rate of 19.50 cents per pound (Middling 1 -inch basis, micronaire 3.5 through 4.9 ), net weight basis at average location-down about 2 cents from the comparable 1970 level.
- A guaranteed support price of 35 cents per pound or

65 percent of parity, whichever is higher, on production from the national base acreage allotment of 11.5 million acres-up from the 1970 domestic allotment of 11.1 million.

- A price support payment of 35 cents less the market price, but in no event less than 15 cents per pound-compared with 16.80 cents in 1970 -and a 30 percent payment bonus for small farms.
- An annual payment limitation of $\$ 55,000$ to any producer.
- A cropland set-aside requirement of 20 percent of the farm base acreage allotment.
- An expanded cotton research and promotion program.


## OUTLOOK FOR 1970/71

## OVERVIEW

The outlook for the remainder of 1970/71 is for continuing strong cotton exports and possibly a slight recovery in mill use. Despite a slightly larger 1970 crop, combined mill use and exports likely will exceed production by 1 to $1 \frac{1}{2}$ million bales, meaning the cotton carryover this summer will be cut to around $41 / 2$ million-smallest in nearly 2 decades.

This season's cotton supply also is small. A sharp drop in the beginning carryover more than offset slightly larger production, resulting in a total supply of about 16 million bales, $1 / 2$ million below $1969 / 70$, and the smallest since 1947.

## DISAPPEARANCE

Combined mill use and exports of cotton may total about $111 / 2$ million bales during $1970 / 71$, $3 / 4$ million above last season. The gain mainly reflects improved exports, which will likely increase to about $31 / 2$ million fales from the small 1969/70 level of $23 / 4$ million (table 14). Even though U.S. supplies are reduced, foreign supplies are down even more and cotton use abroad is expected to increase slightly.

## DOMESTIC MARKET OUTLOOK

## U.S. Mill Use Erasing Downtrend; Cotton's Market Share Holds Steady

Use of cotton by U.S. mills during 1970/71 will match or slightly exceed last year's level of 8 million bades, marking the first time since the mid-1960's that potton use has not declined. Also, in contrast to recent Years, cotton's share of the textile market steadied in palendar 1970 as competition from man-made fibers moderated. But declining military purchases of cotton textiles and lagging general economic activity if tontinued will likely limit expansion in cotton use.

The daily rate of mill consumption of cotton has continued to increase slightly in recent months. The seasonally adjusted rate was 31,558 bales in February, slightly above the previous month and the year-earlier level (table 2). Use during the remainder of 1970/71 may trend higher. This is based, in part, on a higher level of unfilled orders of cotton cloth in recent months in conjunction with lower inventories. Thus, the ratio of stocks to orders, normally a reliable short-term indicator of future cotton use, trended lower during the last half of 1970 and has generally remained below the year-earlier level (table 3). As a result, a pickup in orders could soon be reflected in the rate of mill use.

Reduced supplies of some of the shorter staples may have had some impact on mill use of cotton during recent months. However, mills have generally shifted to the more abundant medium and longer staples according to mill reports. For instance, consumption of cotton stapling less than 1 -inch slipped below 10 percent in recent months as these supplies held near 15 percent of the total, near last year's low level. At the same time, consumption of most medium and longer staples generally increased as percentages of total use (tables 4 and 22).

Man-made fiber competition apparently has lessened in recent months. Cotton-system spinning spindles data indicate that cottonequivalent consumption of man-made staple fiber dropped 6 percent below year-earlier levels during the first 7 months of this crop year, while cotton use declined 1 percent. Rayon and acetate use, in particular, dropped sharply (table 5).

Cotton's share of the textile market in calendar 1970 remained near the previous year's 40 percent. Cotton mill use accounted for 3.8 billion pounds of the 9.6 billion pound textile market. The general economic slowdown and increasing textile imports held total fiber use $21 / 2$ percent below the 1969 level. Cotton mill use declined 3 percent, compared with declines of 23

Table 2.- Cotton and man-made staple fiber: Daily rate of mill consumption on cotton-system spinning spindles, unadjusted and seasonally adjusted, August 1969 to date

| Month | Upland cotton |  |  |  | Man-made staple |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1969/70 |  | 1970/71 ${ }^{1}$ |  | 1969/70 |  |  |  | $1970 / 71^{1}$ |  |  |  |
|  | Unadjusted | Adjusted | Unadjusted | Adjusted | Rayon and acetate |  | Noncellulosic ${ }^{2}$ |  | Rayon and acetate |  | Non. cellulosic ${ }^{2}$ |  |
|  |  |  |  |  | Unadiusted | Adjusted | Unadjusted | Adjusted | Unadjusted | Adjusted | Unadjusted | $\begin{aligned} & \text { Ad. } \\ & \text { justed } \end{aligned}$ |
|  | Bales ${ }^{3}$ | Bales ${ }^{3}$ | Bales ${ }^{3}$ | Bales ${ }^{3}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $1,000$ pounds | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ |
| August | 30,997 | 30,330 | 29,271 | 28,641 | 2,580 | 2,525 | 3,419 | 3,365 | 2,027 | 1,976 | 3,314 | 3,264 |
| September | 31,255 | 31,318 | 30,038 | 30,098 | 2,644 | 2,592 | 3,416 | 3,389 | 1,946 | 1,906 | 3,243 | 3,264 3.217 |
| October. | 31,913 | 30,923 | 31,262 | 30,322 | 2,638 | 2,517 | 3,385 | 3,290 | 2,013 | 1,921 | 3,373 | 3,217 |
| November | 31,851 | 30,893 | 31,623 | 30,702 | 2,552 | 2,426 | 3,391 | 3,398 | 2,006 | 1,909 | 3,447 | 3,278 3,454 |
| December | 28,314 | 30,544 | 28,537 | 30,784 | 2,098 | 2,237 | 3,076 | 3,406 | 1,806 | 1,925 | 3,187 | 3,454 3,529 |
| January | 31,355 | 30,501 | 31,792 | 30,926 | 2,298 | 2,271 | 3,372 | 3,345 | 1,932 | 1,909 | 3,496 | 3,468 |
| February | 30,874 | 29,772 | 32,726 | 31,558 | 2,160 | 2,047 | 3,435 | 3,354 | 1,952 | 1,855 | 3,747 | 3,468 3,659 |
| March | 30,724 | 29,373 |  |  | 2,206 | 2,127 | 3,411 | 3,206 |  |  |  | 3,659 |
| April. | 30,330 | 30,059 |  |  | 2,150 | 2,187 | 3,375 | 3,332 |  |  |  |  |
| May | 30,022 | 29,035 |  |  | 2,100 | 2,045 | 3,449 | 3,235 |  |  |  |  |
| June | 28,817 | 28,363 |  |  | 1,967 | 1,955 | 3,386 | 3,297 |  |  |  |  |
| July | 26,274 | 32,041 |  |  | 1,678 | 2,121 | 2,954 | 3,504 |  |  |  |  |

${ }^{1}$ Preliminary. ${ }^{2}$ includes nylon, acrylic and modacrylic, polyester, and other man-made fibers. ${ }^{3}$ Running bales.

Table 3.- Cotton broadwoven goods at U.S. cotton mills: Ratio of stocks to unfilled orders, seasonally adjusted

| Month ${ }^{1}$ | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 0.20 | 0.26 | 0.37 | 0.43 | 0.43 | 0.37 |
| February | . 19 | . 29 | . 42 | . 43 | . 45 |  |
| March | . 18 | . 32 | . 42 | . 41 | . 44 |  |
| April. | . 17 | . 33 | . 41 | . 39 | . 43 |  |
| May | . 17 | . 37 | . 42 | . 40 | . 41 |  |
| June | . 17 | . 40 | . 42 | . 39 | . 37 |  |
| July | . 17 | . 41 | . 40 | . 38 | . 38 |  |
| August | . 18 | . 36 | . 42 | . 40 | . 38 |  |
| September | . 18 | . 37 | . 44 | . 41 | . 36 |  |
| October | . 21 | . 38 | . 41 | . 42 | . 37 |  |
| November | . 23 | . 34 | . 40 | . 39 | . 34 |  |
| December | . 25 | . 35 | . 40 | . 42 | . 38 |  |

${ }^{1}$ End of month.
Based on data from American Textile Manufacturers Institute, Inc.
percent for wool and 12 percent for rayon and acetate. Non-cellulosic use gained 4 percent (table 1, Special Article).

Per capita mill use of all fibers dropped almost 2 pounds last year-to $461 / 2$ pounds, the second consecutive year in which use has declined. Cotton use totaled 18.6 pounds, down from 19.4 pounds the previous year. Total man-made fiber use of 26.7 pounds was about half a pound below 1969, the first such decline in a decade (figure 1 and table 1, Special Article).
U.S. domestic fiber consumption (mill use adjusted for the raw fiber equivalent of U.S. foreign trade in textile manufactures) also declined slightly in 1970. Domestic use totaled 10.1 billion pounds, 0.2 billion

Bureau of the Census, Current Industrial Reports, M22p Supplement, April 29, 1970, and subsequent monthly reports.
below the previous 2 years. Cotton consumption of 4.1 billion pounds was about $2 \frac{1}{2}$ percent below the 1969 level. On a cotton-equivalent basis-where differences in manufacturing waste and yards of fabric obtainable from a unit of fiber are considered-total domestic fiber use is considerably greater. In 1970, consumption totaled about 13.4 billion pounds, equivalent to 28 million bales of cotton, near the year-earlier level (table 2 , Special Article).

Cotton textile imports also influence the quantity of cotton consumed by U.S. mills. After trending upward during most of the 1960's, imports have leveled of in recent years at close to 1 million equivalent bales annually. On a raw cotton equivalent basis, imports of cotton manufactures totaled 79,700 bales in January, near the average level of recent months. Cotton textile exports, which generally average less than half USS. imports, also have remained stable in recent monthss (tables 15 and 16).

Man-made fiber textile imports, which also increxie the supply of competitive products, have increased rapidly in recent years. They are now running about one-third above the year-earlier level. These imports totaled 329 million pounds in 1970, probably equivalent to about 1 million bales of cotton (tables 17 and 18).

Textile deliveries to U.S. military forces hate declined sharply in recent years following a majar buildup in the mid-1960's. Military use of cocton textiles, which usually comprises a substantial portion of total deliveries, has paralleled this decline. On a raw fiber equivalent basis, cotton deliveries have continued to drop during recent months and now are running about one-tenth of the year-earlier level (tables 19, 20, and 21).

Table 4.-American upland cotton: U.S. mill consumption by staple length, by month, August 1969 to date

| $\begin{aligned} & \text { Year } \\ & \text { and } \\ & \text { month } \end{aligned}$ | Mill consumption by staple length |  |  |  |  |  |  |  |  | Total con-slimption ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Less than } \\ 1^{\prime \prime} \end{gathered}$ |  | $\begin{aligned} & 1 " \text { and } \\ & 1-1 / 32 " \end{aligned}$ |  | $\begin{gathered} 1-1 / 16^{\prime \prime} \text { and } \\ 1-3 / 32^{\prime \prime} \end{gathered}$ |  | Longer than$1-3 / 32{ }^{\prime \prime}$ |  | Total |  |
|  | Quantity | Share of total | Quan. tity | Share of total | Quantity | Share of tota! | Quantity | Share of total | Quantity |  |
|  | $\begin{aligned} & 1,000 \\ & \text { bales }^{3} \end{aligned}$ | Pct. | $\begin{aligned} & 1,000 \\ & \text { bales }^{3} \end{aligned}$ | Pct. | $\begin{aligned} & 1,000 \\ & \text { bales }^{3} \end{aligned}$ | Pct. | $\begin{aligned} & 1,000 \\ & \text { bales }^{3} \end{aligned}$ | Pct. | $\begin{aligned} & 1,000 \\ & \text { bales }^{3} \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales }^{3} \end{aligned}$ |
| 1969/70 |  |  |  |  |  |  |  |  |  |  |
| Aug. (4) | 79.0 | 13.2 | 169.5 | 28.3 | 321.5 | 53.6 | 29.6 | 4.9 | 599.6 | 618.6 |
| Sept. (5) | 76.7 | 12.7 | 165.8 | 27.3 | 322.1 | 54.8 | 31.8 | 5.2 | 606.4 | 624.0 |
| Oct. (4) | 100.4 | 13.0 | 211.5 | 27.5 | 416.7 | 54.2 | 41.1 | 5.3 | 769.7 | 796.7 |
| Nov. (4) | 73.1 | 12.0 | 162.0 | 26.7 | 337.7 | 55.5 | 35.4 | 5.8 | 608.2 | 635.8 |
| Dec. (5). | 81.3 | 12.0 | 183.9 | 27.2 | 373.4 | 55.3 | 36.8 | 5.5 | 675.3 | 706.1 |
|  | 66.9 | 11.1 | 163.2 | 27.0 | 336.3 | 55.7 | 37.3 | 6.2 | 603.7 | 625.2 |
| Feb. (4). | 66.7 | 11.3 | 160.8 | 27.3 | 319.4 | 54.3 | 41.9 | 7.1 | 588.8 | 617.5 |
| Mar. (5) | 86.7 | 11.7 | 198.9 | 26.8 | 404.7 | 54.6 | 51.1 | 6.9 | 741.5 | 766.5 |
| Apr. (4) | 67.4 | 11.5 | 159.9 | 27.2 | 322.3 | 54.8 | 38.2 | 6.5 | 587.8 | 605.6 |
| May (4). | 69.4 | 12.0 | 153.5 | 26.7 | 314.5 | 54.6 | 38.5 | 6.7 | 575.9 | 599.6 |
| June (5). | 82.1 | 11.9 | 183.4 | 26.7 | 376.4 | 54.7 | 46.3 | 6.7 | 688.1 | 719.0 |
| July (4) | 53.5 | 10.6 | 145.6 | 28.8 | 275.0 | 54.4 | 31.2 | 6.2 | 505.2 | 524.9 |
| 1970/71 |  |  |  |  |  |  |  |  |  |  |
| Aug. (4) . | 59.7 | 10.7 | 154.4 | 27.6 | 309.0 | 55.3 | 35.8 | 6.4 | 558.9 | 584.2 |
| Sept. (5). | 74.0 | 10.3 | 196.5 | 27.4 | 402.3 | 56.2 | 43.9 | 6.1 | 716.6 | 749.6 |
| Oct. (4) | 56.0 | 9.4 | 167.5 | 28.1 | 335.8 | 56.4 | 36.3 | 6.1 | 595.7 | 624.3 |
| Nov. (4) | 56.0 | 9.2 | 166.0 | 27.3 | 352.6 | 58.0 | 33.1 | 5.5 | 607.8 | 631.5 |
| Dec. (5) | 65.5 | 9.6 | 193.3 | 28.3 | 389.0 | 57.0 | 35.1 | 5.1 | 682.9 | 712.4 |
| Jan. (4) | 58.2 | 9.6 | 173.6 | 28.5 | 345.2 | 56.8 | 31.1 | 5.1 | 608.1 | $634.9$ |
| Feb. ${ }^{4}$ (4) | 60.8 | 9.7 | 173.5 | 27.7 | 357.6 | 57.2 | 34.0 | 5.4 | 625.9 | 653.6 |

Table 5.-Upland cotton and man-made staple fibers ${ }^{1}$ : Mill consumption on cotton-system spinning spindles, by months, 1969/70 to date

| Year and month ${ }^{2}$ | Cotton | Cotton equivalent man-made staple fibers ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Rayon and acetate | Noncellulosic | Total |
|  | Bales ${ }^{4}$ | Bales ${ }^{5}$ | Bales ${ }^{5}$ | Bales ${ }^{5}$ |
| 1969/70 |  |  |  |  |
| August (4) | 619,941 | 118,241 | 195,176 | 316,178 |
| September (4) | 634,267 | 121,181 | 194,997 | 316,178 |
| October (5) | 797,825 | 151,110 | 241,551 | 392,661 310,537 |
| November (4) | 637,019 | 116,953 | 193,584 219,494 | 310,537 339,694 |
| December (5) | 707,848 | 120,200 | 219,494 192,465 | 339,694 297,799 |
| January (4) | 627,099 | 105,334 | 192,465 | 297,799 |
| February (4) | 617,482 | 98,986 | 196,070 | 295,056 |
| March (5) | 768,100 | 126,411 | 243,398 | 369,809 |
| April (4) | 606,616 | 98,542 | 192,682 | 291,224 |
| May (4) | 600,431 | 96,239 | 196,889 | 293,128 |
| June (5) | 720,439 | 112,690 | 241,585 | 354,275 |
| July (4) | 530,097 | 76,901 | 168,601 | 245,502 |
| Total ${ }^{6}$ | 7,857,998 | 1,342,788 | 2,476,492 | 3,819,280 |
| 1970/71 |  |  |  |  |
| August (4) | 585,416 | 92,916 | 189,177 | 340,691 |
| September (5) | 750,943 | 111,467 | 229,224 | 284,791 |
| October (4) | 625,241 | 92,260 | 192,531 | 284,791 |
| November (4) | 632,455 | 91,971 | 196,738 | 288,709 |
| December (5) | 713,426 | 103,441 | 227,400 | 330,841 |
| January (4) | 635,842 | 88,534 | 199,555 | 288,089 |
| February ${ }^{7}$ (4) | 654,510 | 89,723 | 213,880 | 303,603 |

${ }^{1}$ In cotton-equivalent bales. ${ }^{2}$ Numbers in parentheses indicate number of weeks in period. ${ }^{3}$ Based on a cotton-equivalent factor of 1.10 for rayon and acetate and 1.37 for non-cellulosic. ${ }^{4}$ Running bales. ${ }^{5}$ Cotton equivalent of monthly consumption divided by 480 . ${ }^{6}$ Sum of monthly consumption not adjusted to August 1-July 31 marketing year basis. ${ }^{7}$ Preliminary.

The average mill margin for cotton cloth has remained firm in recent months after trending upward since early 1970/71. Both raw cotton prices and the wholesale value of fabric produced from a pound of cotton have recently advanced. In February, the margin averaged 43.71 cents per pound, slightly below the previous month and February 1970.

Cloth values have trended up in recent months, reaching their highest level in February since the series originated almost 5 years ago. However, rising raw cotton prices offset the higher fabric values. In February, cotton prices jumped over half a cent to 26.77 cents per pound, $13 / 4$ cents above the year-earlier level (table 6).

## 1970 Ginnings Near Previous Estimate; Staple Shorter

Preliminary ginnings indicate that the 1970 crop of all kinds of cotton totaled $10,116,096$ bales (including 57,131 bales of extra-long staple cotton) (table 7). This is down only slightly from the December 1 crop estimate and compares with 1969 ginnings of 9.9 million running bales. The production gain was limited primarily due to 1970 being a second consecutive year of adverse growing and harvesting conditions. Based on the December crop
report, yields averaged 441 pounds per acre, only percent above the below-average 1969 yield; harvested acreage was up 1 percent (table 13).

According to the Consumer and Marketing Service, the average staple length of preliminary ginnings was 33.4 thirty-seconds inches, down from last season's 33.6 and the record average length of 33.9 thirty-seconds inches for the 1968 crop. Almost two-thirds of ginnings stapled 1-1/16 inches and longer, near the year-earlier proportion (tables 8 and 22).

The average fiber strength of the 1970 crop was about the same as for the preceding crop. However, the grade index, at 91.5 (Middling White equals 100 ), was above the 91.1 achieved in 1969. Cotton "miking" in the 3.5 to 4.9 premium category also was up slightly at 84 percent of ginnings.

The 1970 cotton crop held against outstanding price support loans by the Commodity Credit Corporation totaled about 1.4 million bales as of March 19. This compares with 2.8 million bales of the 1969 crop held on approximately the same date last year. About 1.5 million bales of CCC-owned cotton have been sold this season, leaving a current inventory of around 1.7 million (including extra-long staple cotton) (tables 9 and 23).

Upland cotton farm prices have strengthened thiss season, averaging above year-earlier prices each monthi.

Table 6.- U.S. price of unfinished cloth (expanded series), price of raw cotton, and mill margin

| Year and month | Cotton fabric |  |  |
| :---: | :---: | :---: | :---: |
|  | Fabric values ${ }^{1}$ | Price of raw cotton ${ }^{2}$ | $\underset{\text { margins }^{3}}{\text { Mill }}$ |
|  | Cents |  |  |
| 1969 ( 43.51 |  |  |  |
| August . | 68.62 | 25.11 | 43.51 |
| September | 68.79 | 24.76 | 44.03 |
| October | 68.81 | 24.75 | 44.06 |
| November | 68.84 | 24.88 | 43.96 |
| December | 68.87 | 24.95 | 43.92 |
| January | 68.90 | 24.98 | 43.92 |
| February | 68.88 | 25.02 | 43.89 |
| March | 68.85 | 25.06 | 43.65 |
| April. | 68.76 | 25.11 | 43.41 |
| May . | 68.58 | 25.17 | 43.33 |
| June | 68.56 68.46 | 25.23 25.35 | 43.11 |
| July | 68.46 | 25.35 |  |
| Average | 68.74 | 25.03 | 43.71 |
| 1970 - 41.98 |  |  |  |
| August . . . | 68.47 | 25.49 | 43.29 |
| September | 68.81 | 25.52 | 43.53 |
| October | 69.12 | 25.59 25.52 | 43.96 |
| November | 69.48 | 25.52 | 43.98 |
| December | 69.84 | 25.86 26.18 | 43.94 |
| January | 70.12 | 26.18 26.77 | 43.71 |
| February | 70.48 | 26.77 |  |

${ }^{1}$ Estimated value of fabric obtainable from a pound of fiber. ${ }^{2}$ Monthly average prices per pound for four ternipmit growths, even running lots, mike 3.5 .4 .9 , prompt Differenc delivered Group 201. Mill Points (Group B). ${ }^{3}$ between fabric values and fiber prices.

Consumer and Marketing Service

Table 7.-Cotton ginned: United States, crops of 1968, 1969, and 1970:

| State | 1968 | 1969 | $1970^{2}$ | 1968 | 1969 | $1970^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\substack{\text { running } \\ \text { bales }}}{1,000}$ | $\begin{aligned} & 1,000 \\ & \text { running } \\ & \text { bales } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { running } \\ & \text { bales } \end{aligned}$ | $\begin{gathered} 1,000 \\ 500-l b . \\ \text { bales }^{3} \end{gathered}$ | $\begin{gathered} 1,000 \\ 500-16 \\ \text { bales }^{3} \end{gathered}$ | $\begin{gathered} 1,000 \\ 500.16 \\ \text { bales }^{3} \end{gathered}$ |
| United States | 10,917 | 9,937 | 10,116 | 10,948 | 10,008 | 10,186 |
| Alabama | 402 | 466 | 514 | 400 | 468 | 516 |
| Arizona | 725 | 625 | 494 | 724 | 626 | 495 |
| Arkansas . . . . | 1,033 | 1,141 | 1,041 | 1,034 | 1,147 | 1,050 |
| California | 1,594 | 1,336 | 1,176 | 1,580 | 1,320 | 1,164 |
| Fliorida . . | 10 | 277 | 88 | 10 | 9 | 7 |
| Georgia . . . . . | 269 | 277 | 287 | 262 | 276 | 287 |
| Loulsiana . | 545 | 482 | 521 | 545 | 483 | 523 |
| M/ississippl | 1,519 | 1,308 | 1,622 | 1,523 | 1,321 | 1,605 |
| M/issouri . . . . | 197 | 326 | 223 | 196 | 323 | 224 |
| New Mexico | 165 | 147 | 129 | 165 | 148 | 130 |
| N. Carolina . | 130 | 106 | 162 | 125 | 102 | 158 |
| Oklahoma. | 260 | 271 | 187 | 265 | 278 | 192 |
| \$. Carolina | 264 | 211 | 216 | 250 | 205 | 211 |
| Tennessee | 323 | 417 | 386 | 323 | 420 | 391 |
| Texas | 3,473 | 2,807 | 3,144 | 3,537 | 2,874 | 3,225 |
| All other | 8 | 8 | 6 | 9 | 8 | 6 |

Totals were made from unrounded data. ${ }^{2}$ Preliminary.
Gross weight bales.

The United States total for 1970 includes 6,021 bales of the fop of 1970, ginned prior to August 1 which were counted in he supply for the cotton season of 1969-70, compared with 19,784 for 1969, 6,065 for 1968, and 256,540 for 1967. Also hicluded are 57,131 bales of American Pima cotton for 1970,

Table 8.-Upland cotton: Ginnings, by staple length, crops of 1969 and 1970

| Staple | Upland ginnings ${ }^{\text {t }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity |  | Share of total |  |
|  | 1969 | $1970^{1}$ | 1969 | $1970^{1}$ |
|  | $\begin{aligned} & 1,000 \\ & \text { bales } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales } \end{aligned}$ | Percent | Percent |
| 7/18 ${ }^{\prime \prime}$ and |  |  |  |  |
| shorter | 140.5 | 37.6 | 1.4 | 0.4 |
| 29/32" | 416.1 | 305.4 | 4.2 | 3.5 |
| \$1/32" | 628.9 | 1,020.7 | 6.4 | 10.1 |
| " | 498.9 | 561.4 | 5.1 | 5.6 |
| $1 / 132^{\prime \prime}$ | 552.4 | 499.6 | 5.6 | 5.0 |
| 1/1/6" | $1,037.3$ | 1,028.9 | 10.5 | 10.2 |
| /3/32" | 3,050.2 | 3,833.8 | 31.0 | 38.2 |
| 1/1/8' $\cdot$. | 2,849.7 | 1,996.4 | 28.9 | 19.8 |
| 5/32, and | 527.1 | 615.7 | 5.3 | 6.1 |
| longer | 165.5 | 115.7 | 1.6 | 1.1 |
| Total | 9,866.7 | 10,060.2 | 100.0 | 100.0 |

Preliminary, Unrevised data.
sonsumer and Marketing Service.
December 1, prices averaged 22.4 cents per pound, mpared with 20.94 cents during 1969/70. The pbruary price was 21.47 cents, slightly above the Terious month and February 1970 (table 24).
compared with 76,838 for $1969,78,182$ for 1968 , and 64,779 for 1967.

The average gross weight per bale for 1970 is 503.5 pounds compared with 503.6 for 1969 and 501.5 for 1968. The number of active cotton gins for the crop of 1970 is 3,754 compared with 3,943 for 1969 and 4,218 for 1968.

Bureau of the Census.
The support price for the 1970 crop of upland cotton (average of the crop) is 20.15 cents, almost half a cent above the previous crop. Prices received by farmers do not include the direct price support payment on domestic allotments ( 65 percent of the farmer's final allotment) which was 16.80 cents this season. The 1969 payment was 14.73 cents per pound.

Average spot market prices for most qualities of upland cotton strengthened during January and February after declining from early-season levels. As a result, most prices now are slightly to moderately above year-arlier levels, with the shorter staples showing the biggest increases. For instance, the average spot market price for Middling $15 / 16$-inch cotton was 22.10 cents per pound in February, almost 2 cents above February 1970. Middling $1-1 / 16$-inch cotton in February averaged 25.22 cents, compared with 24.90 cents last year (table 24).

## Greater Plantings and Reduced Carryover Highlight ELS Outlook

Acreage planted to the 1971 crop of extra-long staple cotton will be largest since 1964, according to March 1 intentions. Producers indicated they planned to plant 111,000 acres, slightly above January intentions and about one-third above 1970 plantings (table 1). Larger acreage reflects a 50 percen' increase in the national

Table 9.-Commodity Credit Corporation stocks of cotton, United States, August 1, 1970 to date

|  | Date | Total | Upland |  |  | Extra-long staple ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Owned ${ }^{2}$ | Under loan | Total | Owned ${ }^{3}$ | Under loan | Total |
|  |  | 1,000 bales |  |  |  |  |  |  |
| August | 1 | 3,030 | 2,957 | --- | 2,957 | 73 | -- | 73 |
| August | 7 | 2,944 | 2,881 | --. | 2,881 | 63 | --- | 63 |
| August | 14 | 2,942 | 2,881 | --- | 2,881 | 61 | --- | 61 |
| August | 21 | 2,918 | 2,858 | --- | 2,858 | 60 | -** | 60 |
| August | 28 | 2,918 | 2,858 | - | 2,858 | 60 | --- | 60 |
| September | 4 | 2.819 | 2,751 | 9 | 2,760 | 59 | --- | 59 |
| September | 11 | 2,826 | 2,751 | 16 | 2,767 | 59 | --- | 59 |
| September | 18 | 2,673 | 2,595 | 19 | 2,614 | 59 | --- | 59 |
| September | 25 | 2,672 | 2,595 | 18 | 2,613 | 59 | $\cdots$ | 59 |
| October | 2 | 2,619 | 2,542 | 20 | 2,562 | 57 | --- | 57 |
| October | 9 | 2,625 | 2,542 | 26 | 2,568 | 57 | --- | 57 |
| October | 16 | 2,525 | 2,419 | 49 | 2,468 | 57 | --- | 57 |
| October | 23 | 2,564 | 2,419 | 89 | 2,508 | 56 | --- | 56 |
| October | 30 | 2,531 | 2,318 | 157 | 2,475 | 56 | --- | 56 |
| Novermber | 6 | 2,584 | 2,318 | 21.1 | 2,529 | 55 | $\left({ }^{4}\right)$ | 55 |
| November | 13 | 2,569 | 2,242 | 272 | 2,514 | 55 | $\left({ }^{4}\right)$ | 55 |
| November | 20 | 2,764 | 2,242 | 466 | 2,708 | 54 | 2 | 56 |
| November | 27 | 2,907 | 2,210 | 641 | 2,851 | 53 | 3 | 56 |
| December | 4 | 3.111 | 2,210 | 845 | 3,055 | 52 | 4 | 56 |
| December | 11 | 3,204 | 2,168 | 982 | 3,150 | 47 | 7 | 54 |
| December | 18 | 3,417 | 2,168 | 1,194 | 3,362 | 47 | 8 | 55 |
| December | 25 | 3,417 | 2,036 | 1,326 | 3,362 | 47 | 8 | 55 |
| January | 1 | 3,528 | 2,036 | 1,434 | 3,470 | 47 | 11 | 58 |
| January | 8 | 3,862 | 2,012 | 1,795 | 3,807 | 43 | 12 | 55 |
| January | 15 | 3,994 | 2,012 | 1,925 | 3,937 | 39 | 18 | 57 |
| January | 22 | 3,959 | 1,977 | 1,929 | 3,906 | 34 | 19 | 53 |
| January | 29 | 3,939 | 1,977 | 1,909 | 3,886 | 32 | 21 | 53 |
| February | 5 | 3,816 | 1,876 | 1,887 | 3,763 | 31 | 22 | 53 |
| February | 12 | 3,754 | 1,876 | 1,827 | 3,703 | 30 | 21 | 51 |
| February | 19 | 3,447 | 1,639 | 1,758 | 3,397 | 30 | 20 | 50 |
| February | 26 | 3,372 | 1,639 | 1,682 | 3,321 | 30 | 21 | 51 |
| March | 5 | 3,075 | 1,433 | 1,591 | 3,024 | 30 | 21 | 51 |
| March | 12 | 2,993 | 1,433 | 1,510 | 2,943 | 30 | 20 | 50 |
| March | 19 | 2,796 | 1,349 | 1,397 | 2,746 | 30 | 20 | 50 |

${ }^{1}$ Includes American Pima and Sea Island. ${ }^{2}$ Excludes cotton sold September 4 to date for delivery in the 1969 marketing year.
${ }^{3}$ Includes American Pima cotton transferred to CCC from the national stockpile. ${ }^{4}$ Less than 500 bales.

Agricultural Stabilization and Conservation Service.
acreage allotment-to 117,791 acres-because of rapidly dwindling supplies.

The ELS carryover this summer may total about two-thirds of last August's stocks of 107,000 bales. A much smaller carryover is likely despite slightly smaller mill use, as 1970 production fell sharply (table 14). As a result, USDA announced a "shortfall" this year of 43,000 bales, all of which has now been sold at market prices.

Smaller production-57,131 running bales, down from 76,800 last season due to lower yields-has resulted in stronger cotton prices this year. Farmers' prices for ELS cotton to December 1 averaged 44.6 cents per pound, compared with 40.5 cents a year earlier. In February, prices averaged 43.6 cents, slightly below early-season levels. The support price for the current crop is 40.5 cents, half a cent above a year earlier. Producers are eligible for a direct price support payment of 9.29 cents a pound, compared with 8.88 cents for the 1969 crop.

## EXPORT MARKET OUTLOOK

## Little Change in World Output and Use

Global cotton production and consumption ap projected to remain near last year's levels of 51.7 and 53.2 million bales, respectively. A small gain is posibibe for cotton use with perhaps a slight decline in output. Consumption may increase a little in communist and foreign Free-World countries, with little change likely in the United States. World cotton production could decline slightly despite record-high USSR output Sharply lower foreign Free-World prospects at responsible (table 25).

Little change also is expected from last seasonis world exports of 17.2 million bales. U.S. shipments may account for about one-fifth of total trade, up from ${ }^{11}$ percent in 1969/70.

## Brighter U.S. Export Prospects

## Reflect Smaller Competitive Supplies

U.S. cotton shipments may increase $3 / 4$ million bales this season to about $31 / 2$ million. A $2 \frac{1}{2}$ million-bale decline in foreign Free-World production, along with slightly higher consumption and reduced stocks, increased the demand for U.S. cotton. During August-February of the 1970/71 season, shipments totaled 1.9 million bales, up about one-fourth from the year-earlier level (table 26).

Foreign Free-World production is projected at 23.4 million bales in 1970/71, according to the Foreign Agricultural Service. This compares with last season's 25.9 million bales and the $1964-68$ average of 23.9 million. Both acreage and yields are down in many countries. Brazil shows the sharpest decline. Its production prospects are almost 1 million bales below 1969/70. Significantly smaller output also is likely in Mexico, India, Nigeria, and the United Arab Republic (tables 10 and 25). Major factors include poor growing conditions, a tight credit supply, and farmers' disappointment with returns from last season's cotton crops.

Foreign Free-World consumption has trended steadily upward in recent years and a further slight increase is expected this season. Use may total about 27.3 million bales, fractionally above $1969 / 70$, and a little over 1 million above the 1964-68 average (table 10). As in the United States, man-made fiber competition is limiting Ggains in cotton use abroad.

Because of declining output, the gap between foreign Free-World production and consumption is widening
substantially during 1970/71. The difference may increase to about 4 million bales, triple the year-earlier deficit, and the greatest in a decade (table 10 ).

## Funds Available for Government Export Financing

Through mid-March, funds available for financing U.S. cotton exports under special government programs (including authorizations and loans issued but not used in previous years and those which may not be used in fiscal 1971) would cover shipments of around $1^{1 / 4}$ million bales. Currently available authorizations under P.L. 480 for financing cotton exports during 1970/71 are below last year's total, while Export-Import Bank credits issued are about the same (table 11).

## Prices Strengthen in Import Markets

Prices for most qualities of U.S. and foreign-grown cotton, c.i.f. Liverpool, have increased during the past year and now exceed year-earlier levels by 2 to 3 cents per pound in most instances. Recent prices for U.S.-grown cotton generally have averaged near those of competitive growths (tables 12 and 27).
U.S. Strict Middling $1-1 / 16$-inch cotton prices averaged 31.52 cents per pound in February, about half a cent above the previous month and almost 3 cents above February 1970. The U.S. price was slightly above the c.i.f. Liverpool index for similar qualities in February (table 12).
U.S. and foreign average spot export prices are shown in table 29.

Table 10.- Cotton: Supply and distribution in the foreign Free World, 1959-70


Includes cotton afloat, in transit, and in free ports. ${ }^{2}$ Preliminary. ${ }^{3}$ Estimated.
Foreign Agricultural Service.

Table 11.-Special programs of the U.S. Government for financing cotton exports: Fiscal years 1968-71 ${ }^{1}$

| Program | 1967/68 |  | 1968/69 |  | 1969/70 |  | 1970/71 ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quan. tity |
|  | Mil. dol. | $\begin{gathered} \text { Mil. }_{3} \\ \text { bales } \end{gathered}$ | Mil. dol. | $\begin{gathered} \text { Mil. } \\ \text { bales }^{3} \end{gathered}$ | Mil. <br> dol. | $\underset{\text { bales }^{3}}{\text { Mil. }}$ | Mil. dol. | $\text { Mil. }_{\text {bales }^{3}}$ |
| Export-Import Bank ${ }^{4}$ | 67.4 | 0.6 | 50.1 | 0.4 | 71.1 | 0.6 | 75.0 | 0.6 |
| P.L. 480 sales Foreign currencies . . . . . . . . | 120.9 | . 9 | 83.9 | 5.7 | 130.3 | 1.0 | 86.1 | . 6 |
| Dollar credit ... | 12.1 | . 1 | 3.4 | $\left({ }^{5}\right)$ | 8.1 | . 1 | 1.0 |  |
| Total ${ }^{6}$ | 200.3 | 1.6 | 137.5 | 1.1 | 209.6 | 1.7 | 262.1 | 1.3 |
| Barter | 41.9 | . 4 | 30.8 | 0.3 | 77.7 | 0.7 | ${ }^{7} 52.6$ | ${ }^{7} 0.4$ |
| ccc credit .... | 47.9 | . 4 | 46.8 | . 4 | 48.2 | . 4 | ${ }^{8} 24.2$ | ${ }^{8} .2$ |

${ }^{1}$ Authorized for delivery and shipment. Data may differ slightly from actual shipments due to shipping time lags. ${ }^{2}$ Preliminary. Data through March 17, 1971. ${ }^{3}$ Running bales, partly estimated. ${ }^{4}$ Includes amounts advanced by participants or disbursed by others at Export-Import Bank risk. ${ }^{5}$ Less than 50,000 bales. ${ }^{6}$ Totals made from unrounded data. ${ }^{7}$ Data through December 31, 1970. ${ }^{8}$ Data through February 26, 1971.

Estimates compiled from Agricultural Stabilization and Conservation Service and Foreign Agriculturat Service reports and from Export-import Bank reports.

Table12.-Index of prices of selected cotton growths and qualities, and price per pound of U.S.SM 1-1/16" c.i.f. Liverpool, England

| Month | 1969 |  | 1970 |  | 1971 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Index ${ }^{1}$ | $\begin{gathered} \text { U.S. } \\ \text { sin } \\ 1-1 / 16^{, 2} \end{gathered}$ | Index ${ }^{1}$ | $\begin{gathered} \text { U.S. } \\ \text { SM } \\ 1-1 / 16^{\prime, 2} \end{gathered}$ | Index ${ }^{1}$ | $\begin{gathered} \text { U.S. } \\ \text { SM } \\ 1-1 / 16^{\prime, 2} \end{gathered}$ |
|  | Cents |  |  |  |  |  |
| January | 28.19 | 29.01 | 28.19 | 28.75 | 30.91 | 30.95 |
| February | 27.78 | 28.79 | 28.08 | 28.81 | 31.15 | 31.52 |
| March | 27.83 | 28.60 | 28.19 | 29.00 |  |  |
| April | 28.31 | 28.60 | 28.38 | 29.31 |  |  |
| May | 28.64 | 28.60 | 28.50 | 29.40 |  |  |
| June | 28.19 | 28.49 | 28.50 | 29.45 |  |  |
| July | 27.74 | 28.13 | 28.58 | 29.70 |  |  |
| August | 27.09 | 28.00 | 28.84 | 29.75 |  |  |
| September | 26.99 | 28.00 | 29.32 | 30.26 |  |  |
| October | 27.15 | 28.15 | 29.66 | 30.70 |  |  |
| November | 327.74 | 28.56 | 30.20 | 30.58 |  |  |
| December | ${ }^{3} 28.75$ | ${ }^{3} 28.75$ | 30.68 | 30.39 |  |  |
| Average | 27.82 | 28.47 | 28.93 | 29.68 |  |  |

[^1]Compiled from Foreign Agriculture Service records and the weekty Cotton and General Economic Review, Liverpool, England.

# U.S. DEMAND FOR COTTON: TRENDS AND PROSPECTS ${ }^{1}$ 

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#### Abstract

Demand for cotton by U.S. mills declined during the 1960's as competition from man-made fibers intensified. Use of 8 million bales in 1970 was only slightly below the 1960 level, but cotton's share of the market, at 40 percent, was down substantially from a decade ago. In addition to suffering competitive losses from man-made fibers, U.S. cotton encountered increasing levels of textile imports and fluctuating supplies and prices of cotton during most of the decade. However, prospects for use are brighter than in recent years. An increasing population and higher incomes as well as expanding cotton research and promotion may stimulate mill use to $81 / 2$ to 9 million bales, compared with 8 million in 1970. Larger mill use together with increasing cotton textile imports could mean a total U.S. market for cotton goods of about 10 million bales in 1980 , compared with $8 \frac{1}{2}$ million at present.


KEY WORDS: Cotton, fiber demand, domestic use, inter-fiber competiition, 1980 prospects.

## INTRODUCTION

Cotton consumption in the 1960's contrasted sharply with the generally expanding U.S. market for fibers. Although mill use of 8 million bales in 1970 was only dightly below the 1960 level, cotton's share of the market, at 40 percent, fell substantially. Factors contributing to smaller cotton use during recent years include intensifying competition from man-made fibers, high levels of U.S. textile imports, smaller military use, and fluctuating cotton supplies and prices. Also, lagging general economic growth during the past 2 years has hurt cotton use.

However, these adverse factors have been partially offset by an expanding population, higher consumer incomes, more research and improved cotton products, and increasing promotion efforts.

This article examines the impact of these factors on consumer cotton demand for major apparel, household, and industrial end uses, and the derived demand by mills. Also, cotton and other fiber prospects for the 1970's are analyzed.

## RAW COTTON DEMAND

## MILL CONSUMPTION

## Impact of Man-made Fibers

Consumption of cotton by U.S. mills totaled nearly 4 billion pounds in 1970, down less than a tenth from 1960. However, per capita use dropped about a fifth. Since total per capita fiber use rose during the 1960's, cotton's share of the textile market declined sharply. This was in contrast to rising use of man-made fibers (figure 1 and table 1). On a per capita basis, use of rayon and acetate and non-cellulosic fibers during the 1960's fncreased at an average annual rate of 3.1 percent and 18.6 percent, respectively, while cotton use trended downward by 1.1 percent.

## Textile Trade Cuts Into U.S. Mill Use

Larger imports of cotton textiles also appeared to cut into U.S. mill consumption of cotton during 1960-70. Imports averaged the equivalent of around 1 million

[^2]
## MILL CONSUMPTION OF FIBERS, PER CAPITA



Figure 1
bales of cotton a year during the late 1960 's, about double the 1960 level. These imports probably displaced significant quantities of domestically produced cotton products, thereby reducing demand for raw cotton by U.S. mills. For example, 1970 imports accounted for about 12 percent of the total domestic market for cotton, up from 6 percent in 1960.

Cotton textile imports increased despite the Long-Term Textile Agreement. Under this 1962 agreement, U.S. imports of cotton textiles may be restricted when domestie markets are threatened or subjected to disruption. However, certain provisions, such as a 5 -percent annual growth factor and reciprocal agreements, provide for increasing levels of imports. Since 1960, cotton textile imports have increased at an average annual rate of 10 percent.

A relatively low and declining level of U.S. cotton textile exports also has hampered domestic mill output of cotton goods. Textile exports were equivalent to about 0.4 million bales of cotton in 1970, down from about 0.5 million in 1960 .

Larger imports of man-made fiber manufactures also had an adverse effect on domestic mill use of cotton in recent years by increasing the supply of competitive fabrics. These imports jumped from 31 million equivalent pounds of raw fiber in 1960 to 329 million in 1970, probably equivalent to about 1 million bales of cotton. Wearing apparel accounted for most of the increase.

## DOMESTIC COTTON USE

## Domestic Use Exceeds Mill Use

U.S. foreign trade in cotton textiles must be considered in measuring the quantity of cotton used by U.S. consumers. This domestic use is estimated by adding the raw fiber equivalent of imported textile manufactures to mill use of raw cotton and deducting the raw fiber equivalent of exported textile products. 0 n this basis, domestic use has been a little higher than mill use in recent years because of an import trade balance. Since 1966, the cotton textile import balance hass averaged slightly over half a million bales. Thus, 1950 per capita domestic cotton use was near 20 pounds, over 1 pound greater than mill consumption. However, pet capita use still was 15 percent below 1969 (tabie 2).

## Cotton's Market Share Drops to One-third on Cotton-Equivalent Basis

Fibers do not substitute on a pound-for-pound basis. This results from differences in waste involved if manufacturing fabric from various fibers and from differences in the yards of fabric obtainable from on equal poundage of the various fibers. Thus, when these differences are considered, a more meaningful comparison of fibers is possible.

As man-made fibers generally have higher uilility factors than cotton, the conversion of fibers into

Table 1.-Mill consumption of fibers: Total and per capita, 1940-70

| Year beginning Jan. 1 | Popula-tion July $1^{1}$ | Cotton ${ }^{2}$ |  |  | Wool ${ }^{3}$ |  |  | Rayon and acetate ${ }^{4}$ |  |  | Non-cellulosic man-made fibers ${ }^{5}$ |  |  | Man-made fiber waste ${ }^{6}$ |  |  | All fibers ${ }^{7}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Percentage of fibers | Per capita | Total | Percentage of fibers | Per capita | Total | Percentage of fibers | Per capıta | Total | Percentage of fibers | $\begin{gathered} \text { Per } \\ \text { capita } \end{gathered}$ | Total | Percentage of fibers | Per capita | Total ${ }^{\text {a }}$ | Per capitas |
|  | Mil. | MII. lb. | Pct. | 1 b . | Mil. $\mathrm{lb} .$ | Pct. | Lb. | MII. <br> lb. | Pct. | Lb. | Mil. lb. | Pct. | Lb. | MII. <br> lb. | Pct. | Lb. | MII. lb. | Lb. |
| 1940 | 132.1 | 3,959.1 | 80.4 | 30.0 | 407.9 | 8.3 | 3.1 | 482.1 | 9.8 | 3.6 | 4.3 | 01 | (10) | 12.3 | 0.2 | 0.1 | 4,925.3 | 37.3 |
| 1941 | 133.4 | 5,192.1 | 80.0 | 38.9 | 648.0 | 10.0 | 4.9 | 5919 | 91 | 4.4 | 11.6 | . 2 | 0.1 | 14.0 | . 2 | . 1 | 6,492.8 | 48.7 |
| 1942 | 134.9 | 5,633.1 | 81.4 | 41.8 | 603.6 | 8.7 | 4.5 | 620.8 | 9.0 | 46 | 23.1 | . 3 | . 2 | 15.0 | . 2 | . 1 | 6,918.8 | 51.3 |
| 1943 | 136.7 | 5,270.6 | 79.5 | 38.6 | 636.2 | 9.6 | 4.7 | 656.1 | 9.9 | 4.8 | 353 | . 5 | . 3 | 21.4 | . 3 | . 2 | 6,633.2 | 48.5 |
| 1944 | 138.4 | 4,790.4 | 77.3 | 34.6 | 622.8 | 10.0 | 4.5 | 704.8 | 11.4 | 5.1 | 45.8 | . 7 | . 3 | 21.9 | . 4 | . 2 | 6,195.2 | 44.8 |
| 1945 | 139.9 | 4,515.8 | 75.1 | 32.3 | 645.1 | 10.7 | 4.6 | 769.9 | 12.8 | 5.5 | 49.8 | . 8 | 4 | 25.4 | . 4 | . 2 | 6,014.4 | 43.0 |
| 1946 | 141.4 | 4,809.1 | 73.7 | 34.0 | 737.5 | 11.3 | 5.2 | 875.5 | 13.4 | 6.2 | 53.2 | . 8 | . 4 | 25.6 | . 4 | . 2 | 6,527.0 | 46.2 |
| 1947 | 144.1 | 4,665.6 | 72.5 | 32.4 | 689.2 | 10.8 | 49 | 987.9 | 15.4 | 6.9 | 51.4 | . 8 | . 4 | 18.6 | . 3 | . 1 | 6,433.7 | 44.6 |
| 1948 | 146.6 | 4,463.5 | 69.7 | 30.4 | 693.1 | 10.8 | 4.7 | 1,149.4 | 17.9 | 7.8 | 717 | 1.1 | . 5 | 18.6 | . 3 | . 1 | 6,409.2 | 43.7 |
| 1949 | 149.2 | 3,839.1 | 70.4 | 25.7 | 5004 | 9.2 | 3.4 | 994.5 | 18.2 | 6.7 | 92.8 | 1.7 | . 6 | 15.6 | . 3 | 1 | 5,4515 | 36.5 |
| 1950 | 151.7 | 4,682.7 | 68.3 | 30.9 | 634.8 | 9.3 | 4.2 | 1,350.0 | 19.7 | 8.9 | 1405 | 20 | 9 | 28.0 | . 4 | . 2 | 6,857.5 | 45.2 |
| 1951. | 154.3 | 4,868.6 | 71.1 | 31.6 | 484.2 | 71 | 3.1 | 1,274 6 | 18.6 | 83 | 1955 | 2.8 | 1.3 | 8.4 | . 1 | . 1 | 6,849.6 | 44.4 |
| 1952. | 157.0 | 4,470.9 | 69.4 | 28.5 | 4664 | 7.2 | 3.0 | 1,214.7 | 18.8 | 7.7 | 249.0 | 3.9 | 1.6 | 26.4 | . 4 | . 2 | 6,446.6 - | 41.1 |
| 1953 | 159.6 | 4,456.1 | 68.7 | 27.9 | 494.0 | 76 | 3.1 | 1,222.5 | 189 | 7.7 | 279.3 | 4.3 | 18 | 21.8 | . 3 | . 1 | 6,489.1 | 40.7 |
| 1954 | 162.4 | 4,127.3 | 68.4 | 25.4 | 384.1 | 6.4 | 24 | 1,154.7 | 19.1 | 7.1 | 328.6 | 5.4 | 20 | 250 | . 4 | . 2 | 6,035.2 | 37.2 |
| 1955. | 165.3 | 4,382.4 | 65.2 | 26.5 . | 413.8 | 6.2 | 2.5 | 1,419.1 | 211 | 86 | 432.2 | 64 | 2.6 | 51.1 | . 8 | . 3 | 6,717.6 | 40.6 |
| 1956 | 168.2 | 4,362.6 | 666 | 25.9 | 440.8 | 6.7 | 26 | 1,200.8 | 18.3 | 7.1 | 484.1 | 74 | 2.9 | 42.4 | . 7 | . 3 | 6,551.2 | 38.9 |
| 1957 | 171.3 | 4,060 4 | 65.1 | 23.7 | 3688 | 5.9 | 2.2 | 1,1770 | 189 | 69 | 5675 | 91 | 3.3 | 48.0 | . 8 | . 3 | 6,237.2 | 36.4 |
| 1958 | 174.1 | 3,866.9 | 648 | 22.2 | 331.1 | 5.5 | 19 | 1,127.2 | 18.9 | 6.5 | 575.3 | 9.6 | 3.3 | 61.7 | 1.0 | . 4 | 5,971.5 | 34.3 |
| 1959 | 177.1 | 4,334.5 | 63.3 | 245 | 4353 | 6.4 | 25 | 1,252.4 | 18.3 | 71 | 7414 | 108 | 42 | 70.9 | 1.0 | . 4 | 6,846.3 | 38.7 |
| 1960.... | 180.7 | 4,190.9 | 64.6 | 23.2 | 411.0 | 6.3 | 2.3 | 1,055 4 | 163 | 58 | 7616 | 117 | 4.2 | 57.7 | . 9 | 3 | 6,488.3 | 359 |
| 1961 | 183.8 | 4,081.5 | 62.2 | 22.2 | 412.1 | 6.3 | 2.2 | 1,128.0 | 172 | 61 | 8614 | 13.1 | 47 | 652 | 1.0 | . 4 | 6,560.9 | 35.7 |
| 1962 | 186.7 | 4,188.0 | 59.5 | 22.4 | 429.1 | 6.1 | 2.3 | 1,263 4 | 17.9 | 68 | 1,075 6 | 153 | 58 | 73.8 | 10 | 4 | 7,042.3 | 37.7 |
| 1963 | 189.4 | 4,040.2 | 558 | 21.3 | 411.7 | 5.7 | 2.2 | 1,440 2 | 19.9 | 76 | 1,2575 | 17.3 | 66 | 773 | 1.1 | 4 | 7,240.0 | 38.2 |
| 1964 | 192.1 | 4,244.4 | 54.6 | 22.1 | 356.7 | 46 | 19 | 1,516 3 | 195 | 79 | 1,554 8 | 200 | 8.1 | 911 | 12 | . 5 | 7,777.5 | 40.5 |
| 1965. | 194.6 | 4,4775 | 527 | 23.0 | 3870 | 4.6 | 2.0 | 1,550.4 | 182 | 80 | 1,961.5 | 231 | 10.1 | 102.2 | 1.2 | . 5 | 8,491.9 | 43.6 |
| 1966 | 196.9 | 4,630.5 | 514 | 235 | 3702 | 41 | 19 | 1,5911 | 177 | 81 | 2,299 1 | 25.5 | 117 | 98.8 | 1.1 | . 5 | 9,004.4 | 45.7 |
| 1967. | 199.1 | 4,4230 | 492 | 222 | 3125 | 3.5 | 16 | 1,5002 | 167 | 75 | 2,620.1 | 29.1 | 13.2 | 124.0 | 14 | 6 | 8,990.2 | 45.1 |
| 1968 | 201.2 | 4,146.5 | 423 | 20.6 | 3297 | 34 | 16 | 1,6880 | 172 | 84 | 3,4620 | 35.4 | 172 | 1554 | 16 | 8 | 9,793.8 | 48.6 |
| 1969 | 203.2 | 3,932.7 | 401 | 19.4 | 3128 | 32 | 1.5 | 1,614 9 | 165 | 79 | 3,7980 | 387 | 187 | 1364 | 14 | 7 | 9,804.7 | 48.3 |
| $1970^{1}$ | 2054 | 3,814 8 | 399 | 186 | 240.4 | 25 | 12 | 1,4136 | 148 | 69 | 3,948.6 | 413 | 192 | 132.7 | 14 | 6 | 9,558.0 | 46.5 |

'Bureau of the Census. Population continental United States as of July 1, including Armed Forces overseas ${ }^{2}$ Mill consumption as reported by the Bureau of the Census For American cotton, tare as reported by the Crop Reporting Board has been deducted, for foreign cotton, 3 percent ( 15 pounds) was deducted, ( 20 pounds beginning August 1, 1958) Since 1950, data have been adjusted to
scoured basis Data from Wool Consumption reports of the Buicau of the Census "Textile Organon, publication of the Textule Economics Bureau, incoiporated Includes filament and staple fibers Data are United States producers domestic shipments, plus imports for consumption Textile Organon Nylon, acrylic polyester, glass fiber, etc United States producers' shipment plus
imports for consumption ${ }^{6}$ Producers' man-made fiber waste consumed by mills ${ }^{7}$ Includes flax and silk imports fo consumption ${ }^{\text {"Totals }}$ made from unrounded data ${ }^{9}$ Tota consumption divided by population and not a summation of per capita consumption of fibers 10 Less than 0.05 pound 'Preliminary

Table 2.-Domestic consumption ${ }^{1}$ of fibers, ${ }^{2}$ actual and cotton equivalent ${ }^{3}$ : Total and per capita, 1955-1970

| Year beginning Jan. 1 | Population July $1^{4}$ | Cotton |  |  | Wool |  |  | Rayon and acetate ${ }^{5}$ |  |  | Non-cellulosic man-made fibers ${ }^{5}$ |  |  | All fibers ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Percentage of fibers | Per capita | Total | Percentage of fibers | Per capita | Total | Percentage of fibers | Per capita | Total | Percentage of fibers | Per capita | Total | $\begin{aligned} & \text { Per } \\ & \text { capita }^{6} \end{aligned}$ |
|  | Mil. | Mil. $l b .$ | Pct. | $L b$. | $\begin{gathered} \text { Mil. } \\ l b . \end{gathered}$ | Pct. | $L b$. | $\begin{gathered} M i l . \\ l b . \end{gathered}$ | Pct. | $L b$. | $\begin{gathered} M i l . \\ l b . \end{gathered}$ | Pct. | $L b$. | $\begin{gathered} M i l . \\ l b . \end{gathered}$ | $L b$. |
|  | Actual |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1955 | 165.3 | 4,206.6 | 64.5 | 25.4 | 489.6 | 7.5 | 3.0 | 1,395.2 | 21.4 | 8.4 | 426.3 | 6.6 | 2.6 | 6,517.8 | 39.4 |
| 1956 | 168.2 | 4,216.0 | 66.0 | 25.1 | 526.2 | 8.2 | 3.1 | 1,166.5 | 18.3 | 6.9 | 477.3 | 7.5 | 2.8 | 6,386.0 | 38.0 |
| 1957 | 171.3 | 3,878.0 | 64.3 | 22.6 | 449.4 | 7.4 | 2.6 | 1,145.8 | 19.0 | 6.7 | 558.5 | 9.3 | 3.3 | 6,031.7 | 35.2 |
| 1958 | 174.1 | $3,729.0$ $74,274.4$ | 63.8 62.4 | 21.4 24.1 | 416.7 557.3 | 7.1 8.1 | 2.4 3.1 | 1,123.4 | 19.2 | 6.5 | 579.4 | 9.9 | 3.3 | 5,848.5 | 33.6 |
| 1960 | 180.7 | 7 7 4,232.8 | 64.3 | 23.4 | 538.5 | 8.1 | 3.1 3.0 | 1,266.9 | 18.5 | 7.2 5.8 | 752.6 766.0 | 11.0 | 4.2 | 6,851.2 | 38.7 |
| 1961 | 183.8 | ${ }^{7} 4,048.5$ | 61.6 | 22.0 | 535.0 | 8.1 | 2.9 | 1,121.1 | 17.1 | 6.1 | 870.6 | 13.2 | 4.7 | 6,575.3 | 35.7 |
| 1962 | 186.7 | 4,277.5 | 59.4 | 22.9 | 570.4 | 7.9 | 3.1 | 1,259.9 | 17.5 | 6.7 | 1,093.0 | 15.2 | 5.9 | 7,200.8 | 38.6 |
| 1963 | 189.4 | 4,136.7 | 55.8 | 21.8 | 558.7 | 7.5 | 2.9 | 1,440.6 | 19.5 | 7.6 | 1,273.6 | 17.2 | 6.7 | 7,409.6 | 39.1 |
| 1964 | 192.1 | 4,331.3 | 54.6 | 22.5 | 490.8 | 6.2 | 2.6 | 1,528.6 | 19.3 | 8.0 | 1,575.1 | 19.9 | 8.2 | 7,925.9 | 41.3 |
| 1966 | 194.6 196.9 | $4,664.4$ $4,951.3$ | 53.3 52.5 | 24.0 | 530.5 502.9 | 6.1 5.3 | 2.7 2.6 | 1,572.0 | 17.9 | 8.1 | 1,992.1 | 22.7 | 10.2 | 8,759.0 | 45.0 |
| 1967 | 199.1 | 4,678.0 | 50.0 | 23.5 | 425.6 | 4.5 | 2.1 | 1,522.4 | 16.3 | 7.6 | 2,727.7 | 29.2 | 12.0 | $9,426.3$ $9,353.7$ | 47.9 |
| 1968 | 201.2 | 4,432.2 | 43.2 | 22.0 | 466.3 | 4.5 | 2.3 | 1,730.4 | 16.9 | 8.6 | 3,639.3 | 35.4 | 18.1 | 10,268.2 | 51.0 |
| $1969{ }^{\circ}$ | 203.2 | 4,188.5 | 40.7 | 20.6 | 433.6 | 4.2 | 2.1 | 1,655.1 | 16.1 | 8.1 | 4,005.5 | 39.0 | 19.7 | 10,282.7 | 50.6 |
| $1970{ }^{8}$ | 205.4 | 4,087.5 | 40.4 | 19.9 | 349.5 | 3.5 | 1.7 | 1,471.4 | 14.5 | 7.2 | 4,205.5 | 41.6 | 20.5 | 10,114.0 | 49.2 |
|  | Cotton equivalent ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1955 | 165.3 | 4,206.6 | 58.5 | 25.4 | 269.3 | 3.8 | 1.6 | 1,961.9 | 27.3 | 11.9 | 750.6 | 10.4 | 4.5 | 7,188.4 | 43.5 |
| 1956 | 168.3 | 4,216.0 | 60.2 | 25.1 | 289.4 | 4.1 | 1.7 | 1,649.7 | 23.6 | 9.8 | 845.2 | 12.1 | 5.0 | 7,000.3 | 41.6 |
| 1957 | 171.3 174.1 | $3,878.0$ $3,729.0$ | 57.5 56.7 | 22.6 21.4 | 247.2 229.2 | 3.7 3.5 | 1.4 1.3 | $1,613.3$ $1,574.3$ | 23.9 | 9.4 | 1,001.6 | 14.9 | 5.8 | 6,740.1 | 39.3 |
| 1959 | 177.1 | 7 7,274.4 | 55.4 | 24.1 | 306.5 | 4.0 | 1.7 | 1,786.0 | 23.1 | 10.1 | 1,0455.3 | 17.5 | 6.0 7.7 | 6,575.6 | 37.8 43.6 |
| 1960 | 180.7 | ${ }_{7}^{7} 4,232.8$ | 57.2 | 23.4 | 296.2 | 4.0 | 1.6 | 1,481.0 | 20.0 | +8.2 | 1,393.5 | 18.8 | 7.7 | 7,403.4 | 41.0 |
| 1961 | 183.8 | ${ }^{7} 4,048.5$ | 54.2 | 22.0 | 294.3 | 3.9 | 1.6 | 1,554.9 | 20.8 | 8.5 | 1,576.0 | 21.1 | 8.6 | 7,473.7 | 40.7 |
| 1962 | 186.7 | 4,277.5 | 51.6 | 22.9 | 313.7 | 3.8 | 1.7 | 1,726.6 | 20.8 | 9.2 | 1,968.5 | 23.8 | 10.5 | 8,286.3 | 44.4 |
| 1963 | 189.4 192.1 | $4,136.7$ $4,331.3$ | 47.9 | 21.8 | 307.3 | 3.5 | 1.6 | 1,930.9 | 22.4 | 10.2 | 2,263.9 | 26.2 | 12.0 | 8,638.7 | 45.6 |
| 1965 | 194.6 | 4,664.4 | 44.3 | 22.5 24.0 | 270.0 291.8 | 2.8 2.8 | 1.4 1.5 | 2,070.1 | 21.9 20.2 | 10.8 | $2,777.4$ $3,443.3$ | 29.4 | 14.5 | 9,448.8 | 49.2 |
| 1966 | 196.9 | 4,951.3 | 43.1 | 25.1 | 276.6 | 2.4 | 1.4 | 2,169.3 | 18.9 | 11.0 | 3,443.3 $4,088.4$ | 32.7 35.6 | 17.7 | $10,526.2$ $11,485.6$ | 54.1 58.3 |
| 1967 | 199.1 | 4,678.0 | 40.3 | 23.5 | 234.1 | 2.0 | 1.2 | 2,028.7 | 17.5 | 10.2 | 4,655.9 | 40.2 | 23.4 | 11,596.7 | 58.2 |
| 1968 | 201.2 | 4,432.2 | 33.7 | 22.0 | 256.5 | 2.0 | 1.3 | 2,292.5 | 17.4 | 11.4 | 6,176.3 | 46.9 | 30.7 | 13,157.5 | 65.4 |
| $1969{ }^{197}{ }^{8}$ | 203.2 | 4,188.5 | 31.2 | 20.6 | 238.5 | 1.8 | 1.2 | 2,177.5 | 16.2 | 10.7 | 6,806.6 | 50.8 | 33.5 | 13,411.1 | 66.0 |
| $1970^{8}$ | 205.4 | 4,087.5 | 30.5 | 19.9 | 192.2 | 1.4 | . 9 | 1,960.2 | 14.7 | 9.5 | 7,146.9 | 53.4 | 34.8 | 13,386.9 | 65.2 |

"Domestic" consumption data derived by adjusting mill consumption for raw fiber equivalent of U.S. foreign trade in textile products and for consumption of man-made waste fiber. The trade balance for man-made textile fiber products was allocated on the basis of relative production figures computed from Textile Economics Bureau reports. The
man-made fiber waste was allocated on the man-made fiber waste was allocated on the of the Textile Economics Bureau, Inc. ${ }^{2}$ Does
not include flax and silk. ${ }^{3}$ Based on cotton equivaient factors as follows: (a) regular and intermediate tenacity rayon and acetate filament yarn-1.51; (b) rayon and acetate $\begin{array}{ll}\text { staple fiber-1.10; } & \text { (c) high tenacity rayon }\end{array}$ $\begin{array}{lc}\text { yarn-prior } & \text { to } 1953-1.53,1954-1.64, \\ 1955-1.71, & 1956-1.74,1957-1.77, \\ 1958 & \text { to }\end{array}$ $\begin{array}{ll}\text { 1955-1.71, } & \text { 1956-1.74, 1957-1.77, } \\ \text { date-1.80; } & \text { (d) non-cellulosic fiber for uses }\end{array}$ date-1.80; (d) non-cellulosic fiber for uses
other than tires-1.74; (e) non-cellulosic fiber used in tires-2.73; (f) non-cellulosic staple
fiber-1.37; and (g) giass fiber-1.70. Wool fiber
based on cotton equivalent factor-0.55. ${ }^{4}$ Bureau of the Census. Population continental United States as of July 1, including Armed Forces overseas. 5 Includes man-made population and not a summation of per capita data. ${ }^{7}$ includes picker lap reported by the Bureau of the Census as raw cotton ${ }^{8}$ Preliminary.
cotton-equivalent pounds results in a much larger total fiber market and a smaller cotton share. For instance, cotton's 1970 share of the 13.3 billion-pound equivalent domestic textile market was only 31 percent, compared with 57 percent in 1960 (figure 2). This reflects recent
growth in man-made fibers, a pound of which generally displaces more than a pound of cotton (table 2). A pound of non-cellulosic man-made fiber, for example, displaces an estimated average of 1.7 pounds of cotton.

## CONSUMER DEMAND AND INTERFIBER COMPETITION

Many factors have caused demand for cotton to decline. An important one has been the emergence of many new and improved substitute products, prrticularly man-made fiber products. These products have entirely displaced cotton in some end uses, such as tire cord. More recently, partial displacement has become increasingly evident, generally through blending. This displacement has resulted from both price and nonprice factors.

## PRICE COMPETITION

Cotton and man-made fibers have long competed on the basis of price. Perhaps the most intense competition has involved cotton and rayon and acetate staple fibers. ${ }^{2}$ This competition probably has intensified with the development of modified rayon staples.
Non-cellulosic man-made staple fiber prices, after having declined sharply during recent years, now are also very close to cotton on an equivalent fiber basis. For example, the list price of 1.5 denier polyester staple, a common noncellulosic fiber, declined from $\$ 1.29$ per pound in 1960 to 61 cents in 1970-a drop of more than half. During the same period, the price for SM 1.1/16-inch cotton declined from 38 cents to 30 cents.
${ }^{2}$ Waugh, Frederick. Demand and Price Analysis. Econ. Res. Ser. USDA Tech. Bul. No. 1316, 1964, Washington, D.C.

Superficially, polyester in 1970 appeared to be roughly twice as expensive as cotton. However, on a cotton-equivalent basis, the price gap narrows considerably: The adjusted cotton price is 34 cents and the polyester price is 51 cents (table 3). Furthermore, as list prices for polyester reportedly are discounted by about one-fourth or more, only a small real difference now is implied between cotton and polyester prices.

Recent experience suggests that perhaps the short-run price elasticity of demand for cotton, estimated at 0.1 to $0.2^{3}$, is understated when cotton prices are rising and overstated when prices are declining. For example, cotton prices rose sharply in 1967 and 1968 in response to an anticipated supply shortage occasioned by a short 1967 crop. During this period, prices rose and cotton use dropped sharply-from about $9-1 / 2$ million bales in $1966 / 67$ to $8-1 / 4$ million in $1968 / 69$. Although a small part of this drop can be attributed to reduced military demand for cotton products, most was due to a substantial market loss to man-made fibers. For instance, man-made fiber blend output jumped more than 50 percent as cotton broadwoven goods production declined almost one-fifth. Man-made fiber's relatively stable supplies, and declining prices during the 2 -year period, were in contrast to cotton. Although cotton

[^3]Table 3.-Cotton and man-made staple fibers: Price of cotton landed Group B mill points, list prices of man-made f.o.b. producing plants, actual and cotton equivalent, 1960-70

| Year beginning January 1 | Cotton ${ }^{1}$ |  | Rayon |  |  |  | Non-cellulosic ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Regular ${ }^{3}$ |  | Modified ${ }^{4}$. |  | Polyester |  | Acrylic |  |
|  | Actual | Cot. equiv. ${ }^{5}$ | Actual | Cot. equiv. ${ }^{5}$ | Actual | cot. equiv. ${ }^{5}$ | Actual | Cot. equiv. ${ }^{5}$ | Actual | cot. equiv. |
|  | Dollars |  |  |  |  |  |  |  |  |  |
| 1960 | 0.38 | 0.43 | 0.30 | 0.31 | 0.40 | 0.42 | 1.29 | 1.08 | 1.14 | 0.96 |
| 1961 | . 38 | . 43 | . 27 | . 28 | . 40 | . 42 | 1.17 | . 98 | 1.04 | . 87 |
| 1963 | . 40 | . 45 | . 27 | . 28 | . 40 | . 42 | 1.14 | . 96 | . 93 | . 78 |
| 1964 | .39 6 | . 44 | . 27 | . 28 | . 40 | . 42 | 1.14 | . 96 | . 80 | . 67 |
| 1965 | 6.34 | . 39 | . 28 | . 29 | . 38 | . 40 | . 99 | . 83 | . 80 | . 67 |
| 11966 | 6.30 6.29 | . 33 | . 28 | - 29 | . 36 | . 38 | . 84 | . 71 | . 80 | . 67 |
| 1967 1988 | .29 .31 | .33 .35 | . 28 | .29 .29 | . 36 | . 38 | . 81 | .68 .53 | .80 .78 | .67 .66 |
| 1969 | . 35 | . 40 | . 28 | . 29 | . 37 | . 39 | . 61 | . 51 | . 68 | . 57 |
| 1970 | . 31 | . 35 | . 28 | . 29 | . 38 | . 40 | . 61 | . 51 | . 68 | . 57 |
|  | . 30 | . 34 | . 28 | . 29 | . 38 | . 40 | . 61 | . 51 | . 65 | . 55 |

'SM $1.1 / 16^{\prime}$ ', Group $B$ mill points $\div 0.96$, to convert to a denier vis basis. ${ }^{2} 1.5$ denier. ${ }^{3} 1.5$ denier, viscose. ${ }^{4} 1.5$ and 3.0 ds follows viscose. ${ }^{5}$ Actual prices converted to cotton equivalents dollows: Cotton, $\div 0.88$, Rayon, $\div 0.96$, and non-cellulosic, $\div$
1.19. ${ }^{6}$ Prices for August 1964-July 1966 exclude equalization payments.

Consumer and Marketing Service and Modern Textiles Magazine.
prices later declined, cotton was not able to recoup many of the market losses suffered during the period.

## NONPRICE COMPETITION

Several studies indicate that cotton and man-made fiber price competition is overshadowed by nonprice factors. ${ }^{4}$ In addition to fashion and style, these factors include technology, promotion and advertising, and availability and stability of supplies.

## Technological Developments Aid Man-made <br> Fibers: Blends a Result

Significant gains in man-made fiber use can be attributed to technological developments in the textile industry. Durable press, for example, revolutionized the industry. Man-made fibers quickly capitalized on this development through blends and mixtures-blends through the combining of staple fibers of different properties prior to spinning, and mixtures where fabrics are made from 2 or more different yarns.

Such blends and mixtures, hereafter referred to as blends, have increased dramatically in recent years. The leading blend is polyester and cotton, usually 50-65 percent polyester. Substantial quantities of $65 / 35$ and $50 / 50$ polyester-cotton blends are used in such end uses as men's shirts and bedsheeting, respectively. ${ }^{5}$ Production of polyester-cotton blends in 1969 was more than 10 times that of 1960 . This blend now accounts for about half of total blend production (table 4).

Blend production slightly exceeded 5 billion square yards in 1969, accounting for about one-third of the U.S. broadwoven fabric market. This was up from less than 2 billion square yards in 1960 when blends accounted for only 12 percent of the total market. The sharp expansion reflects significant substitution of blends for 100 -percent fabric. All-cotton goods dropped from three-fourths to half the total broadwoven fabric market during the 1960's (table 4).

## Large Expenditures for Research and Promotion

The development and marketing of improved man-made fiber products resulted from massive industry expenditures on research and promotion. Such expenditures have been estimated by several private sources at an aggregate annual level of $\$ 250$ million, far above similar expenditures for cotton.

To help counter erosion of cotton's markets and to improve its competitive position, the Cotton Research and Promotion Act was enacted in 1966. Under auspices of the Act, Cotton, Incorporated (formerly Cotton

[^4]Table 4.- Cotton and man-made fiber broadwoven fabric production

| Item | 1960 | 1969 |
| :---: | :---: | :---: |
|  | Million square vards |  |
| Cotton | 11,197 | 9,181 |
| 100 percent | 10,677 | 8,481 |
| Biends | 520 | ${ }^{1} 700$ |
| Man-made fiber | 3,267 | 7,614 |
| 100 percent | 2,025 | 2,717 |
| Blends | 1,242 | ${ }^{1} 4,897$ |
| Polyester | 391 | 3,182 |
|  | 219 | 2,604 |
| Polyester/other | 172 | 578 |
| Other | 851 | ${ }^{1} 1.715$ |
| Total | 14,464 | 16,795 |

${ }^{1}$ Estimated.
Compiled from Current Industrial Reports of the Bureau of the Census.

Producers' Institute) now is allocating each year about $\$ 10$ million of producers' contributions to research and promotion. Research is aimed at developing new and improved cotton products as well as reducing farm production costs. Promotion, of course, is aimed at increasing demand for cotton.

Cotton research and promotion will likely receive increased attention during the 1970 's. And greater emphasis likely will be placed on research. Cotton, Incorporated's $\$ 10$ million budget for 1971 calls for about an equal division of expenditures between research and promotion, compared with previous budgets in which about one-third was allocated to research. The 1971 program emphasizes cooperation with textile mills and manufacturers in advertising as well as in coordinating market development and technical research activities. Reduction of farm production costs also will receive major attention.

Moreover, the Agricultural Act of 1970 provides for additional funds for cotton research and promotion. For each of the 1971, 1972, and 1973 crops, the law authorizes up to $\$ 10$ million. Also, for both the 1972 and 1973 crops, the Secretary has the discretion to make an additional $\$ 10$ million available.

## Production Variability Hurts Cotton

A third nonprice factor which has probably hurt cotton use in its battle with man-made fibers may be termed production variability. In contrast to man-made fibers, cotton output has fluctuated greatly. Also, there have been imbalances among the various staple lengths and grades. As mentioned earlier, the extremely small 1967/68 cotton crop and trade expectations for reduced supplies of longer staples were particularly damaging.

Man-made fiber production, on the other hand, is not subject to factors such as weather, insects, and pianty disease, so output can more easily be adjusted to changing market conditions. Because of exceptionally
strong demand for man-made fibers, particularly non-cellulosic fibers, production capacity has more than doubled since the early 1960's. Further expansion is projected for the early 1970's by the Textile Economics Bureau, a private trade organization. It expects producing capacity to reach 8.5 billion pounds by November 1972, an increase of about 18 percent from November 1970.

Planned increases are sharpest for man-made staple fibers, some of which compete directly with cotton. Non-cellulosic staple capacity may increase almost one-fifth by November 1972 with capacity for polyester staple, one of cotton's fiercest competitors, increasing about one-fourth. Producing capacity for rayon and acetate staple may gain slightly.

Over the next few years, cotton growers will have greater flexibility in tailoring production to market needs. Under provisions of the Agricultural Act of 1970, acreage allotments and marketing quotas are suspended for each of the 1971 through 1973 crops. Cotton producers, after meeting "set-aside" requirements and maintaining their soil conserving base, may increase plantings and not be subject to marketing quota penalies. However, price-support payments will be made only on the base acreage allotment, while price-support loans will be available on total production in 1971. Also, in 1972 and 1973 , loans on total production will be davailable if the carryover does not exceed 7.2 million bales.

## COTTON'S COMPETITIVE LOSSES

Although domestic cotton use of a little over 4 billion pounds in 1969 approximated the 1960 level, cotton's share of the total fiber market on a cotton-equivalent basis fell sharply (figure 2). In general, this meant that cotton failed to capture any of the rapidly expanding market for textiles during the 1960's. Cotton indirectly lost perhaps up to one-fourth of its textile market to man-made fibers. If cotton had been able to maintain its 1960 share of all end uses in which it is competitive, and assuming the same expansion in the total fiber market during the 1960 's, domestic cotton use would have been about 1-1/4 billion pounds or 2-1/2 million bales greater in $1969 .{ }^{6}$

## Cotton Apparel Use Falters

Apparel is cotton's largest market, accounting for almost half of end-use consumption. In 1969, about 1.9 billion pounds of cotton ( 9.5 pounds per person) were consumed in apparel items, according to National

[^5]

Figure 2

Cotton Council estimates. ${ }^{7}$ This was down from 11.8 pounds per capita at the beginning of the decade. Use in 1969 represented about 45 percent of the total apparel market on a cotton-equivalent basis, down from 64 percent in 1960. If cotton had been able to maintain its 1960 share throughout the decade, total cotton apparel use possibly would have been over three-fourths billion pounds greater in 1969. Thus, cotton lost perhaps almost one-third of its apparel market during the 1960's (table 5).

In terms of per capita use, men's and boy's clothing is the largest apparel category. Men purchased the equivalent of about 28 pounds of fiber in 1969, about half cotton. This compares with total use of 23 pounds per capita in 1960, of which about three-fourths was cotton. As a result, cotton's declining share of the market implies an indirect loss of about half a billion pounds, or about one-third of its market between 1960 and 1969.

In contrast to men's and boys' apparel, per capita use of women's and misses' apparel declined slightly during the decade. About a 3 pound loss in cotton use more than offset increased man-made fiber use. Thus, cotton suffered its greatest percentage loss in this market, losing over one-third during the 1960's.

The only apparel market cotton still dominates is girls' and children's clothing. Cotton's share was 60 percent in 1969; however, this was 15 percentage points below the 1960 level. Thus, cotton lost about one-fifth of this market to man-made fibers during 1960-69 (table 5).

## Cotton Lags in Household Market

The past decade saw a rapid growth in the household textile market, cotton's second largest end use, Increasing demand for carpets, rugs, sheets, towels, drapery, and upholstery pushed use from 11.6 cotton-equivalent pounds per capita in 1960 to 18.2 pounds in 1969. However, as in the case of the apparel market, cotton failed to keep pace. Although use of cotton expanded 15 percent during the decade, its market share slipped from 57 to 37 percent. Much of this slippage was due to increasing use of man-made fibers in carpets and rugs, an end use apparently not $2 s$ well suited to cotton and one in which less price competition is evident. Taking this into consideration (see footnote 6), cotton's actual losses amounted to about one-fifth of the household market-far less than in the apparel market (table 5).

## Smallest Cotton Losses in Industrial Market

The third largest use for cotton is industrial products, a market in which cotton experienced its smallest losses during the 1960's as its share declined from 27 percent to 22 percent. After adjusting for non-competitive uses, such as tire cord and bags, cotton's loss amounted to about 17 percent of the market-less than in either the apparel or household markets (table 5). Smaller industrial cotton losses during the 1960's, however, also indicated that cotton had already lost most of this market prior to 1960 ; the tire cord market is a good example.

## PROSPECTIVE FIBER USE DURING THE 1970'S

## FACTORS AFFECTING DEMAND

Consumer demand for fibers in the United States during the 1970's will depend largely on the level of disposable personal income, the size and age-sex composition of the population, tastes and preferences, and technological developments in the textile industry. Also, increased leisure will have positive implications for fiber use, as demand increases for sportswear and vacation home furnishings. Textile product performance characteristics, such as comfort, durability, and easy care, will likely receive increased emphasis during the 1970's. Improved blends of cotton and man-made fibers probably will comprise a larger part of the apparel and household markets by 1980.

## Population and Income of Greatest Significance

Population and income likely will affect fiber use most in the next decade. During the 1970's, the U.S. population is expected to increase 10 to 15 percent. ${ }^{8}$

[^6]The lower end of this range conforms fairly close to current birth rates and prospective growth. If other factors remain constant, this would imply about a 10.12 percent increase in aggregate fiber use by 1980.

In addition, the continually changing age.ese composition of the population has important ramifications. For instance, a larger proportion of the U.S. population will be in the higher consuming 25.45 age group by 1980 .

The average consumer's real disposable income may increase about one-third during the 1970 's. This should result in greater total fiber use. Past studies have indicated an income elasticity of demand for fibers in the range of 0.5 to 1.0 .9 This means that a 10 -percent increase in per capita disposable personal income elicitis 8 5-10 percent expansion in fiber use, assuming other
${ }^{8}$ For 1980, the Census Bureau's Series "C" U.S. population projection indicates 235.2 million; the Series " $D$ " projection indicates 227.5 million.
${ }^{9}$ Donald, James R., Lowenstein, Frank, and Simon, Martin S. The Demand for Textile Fibers in the United States. Tech. Bul. 1301 (Nov. 1963) USDA, ERS; Cotton and Other Fiber Problems and Policies in the United States, National Advisory Commission on Food and Fiber, Washington, D.C. July 1967.

Table 5．－Domestic consumption of cotton and all fibers，by end use，in cotton－equivalent
pounds， 1960 and 1969

| Item | 1960 |  |  |  |  | 1969 |  |  |  |  | Cotton＇s competitive losses ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cotton use |  | Total fiber |  | Cotton＇s market share | Cotton use |  | Total fiber |  | Cotton＇s market share |  |  |
|  | Total | Per capita | Total | Per capita |  | Total | Per capita | Total | Per capita |  | Total | Percent－ age |
|  | Mil． <br> $l b$. | $L b$ ． | Mil. $l b .$ | $L b$. | Pct． | Mil． $l b$ ． | $L b$. | Mil． lb． | $L b$. | Pct． | Mil． <br> lb． | Pct． |
| Apparel | 2，132 | 11.8 | 3，351 | 18.6 | 64 | 1，918 | 9.5 | 4，257 | 21.1 | 45 | ${ }^{3} 850$ | 31 |
| Men＇s and boys＇ | 1，294 | 16.5 | 1，780 | 22.7 | 73 | 1，267 | 14.2 | 2，511 | 28.1 | 50 | 577 | 31 |
| Women＇s and Misses＇．．． | 511 | 8.0 | 1，134 | 17.8 | 45 | 355 | 4.8 | 1，254 | 16.9 | 28 | 197 | 36 |
| Girls＇and Childrens＇ | 327 | 8.6 | 437 | 11.5 | 75 | 296 | 7.7 | 492 | 12.8 | 60 | 76 | 20 |
| Household | 1，181 | 6.6 | 2，085 | 11.6 | 57 | 1，360 | 6.7 | 3，667 | 18.2 | 37 | 314 | 19 |
| Industrial | 741 | 4.1 | 2，695 | 15.0 | 27 | 703 | 3.5 | 3，188 | 15.8 | 22 | 133 | 17 |
| Total | 4，054 | 22.5 | 8，131 | 45.2 | 50 | 3，981 | 19.7 | 11，112 | 55.0 | 36 | ${ }^{3} 1,297$ | 25 |

${ }^{1}$ Data of National Cotton Council converted to pounds and adjusted for the estimated net trade balance of textile manufactures．${ }^{2}$ Cotton＇s competitive losses were calculated by holding cotton＇s 1960 market share constant throughout the decade for each major end－use
category．Some specific end uses in which cotton＇s 1969 share was below 10 percent，such as sweaters，men＇s tailored coats and jackets automotive floor covering，industrial tape，and machine ribbons，were excluded；others，such as women＇s gloves and hosiery，carpets and rugs，
tire cord，bags，nets，and electrical insulation， were included only to the extent that cotton suffered direct displacement from man－made fibers during 1960－69．${ }^{3}$ Sum of categories
Source：Based on Cotton Counts Its Customers， National Cotton Council of America．
factors remain about constant. If this relationship holds through the next decade-where real disposable personal income is expected to increase about one-third to about $\$ 3,500$ per capita-consumption by U.S. mills would total about one-fourth above the 46.5 pounds per capita consumed in 1970.

## Sharp Decline in Fiber Prices May Halt

Fiber consumption during the 1970's also will be influenced by fiber prices, but the impact on aggregate use probably will be less than in the 1960's. Although cotton and man-made fiber prices, particularly the non-cellulosic staples, dropped sharply during the past decade, further substantial price declines are less likely in future years. Both man-made fiber prices, which are reportedly discounted a fourth or more from list prices, and cotton prices now may be near production costs. ${ }^{\circ}{ }^{\circ}$ Relative prices, of course, will continue to influence the final composition of fiber demand.

## Further Technological Advances

Technological developments, which played such an important role in textile fiber use during the 1960 's, will continue to receive a great deal of eemphasis. The trend from 100 -percent cotton fabric to man-made fiber blends will likely continue in the 1970's, although it may slow since the pentration of blends has reached the point where further substantial substitution may not be feasible for many end uses. Also, the cotton proportion may increase for some blends, such as men's shirts, where cotton currently accounts for about 35 percent of the average blend.

## Greater Research and Promotion Expenditures

Finally, continued large expenditures on textile research and promotion are probable during the 1970's. As in the 1960's, sizable funds for man-made fibers will likely be devoted to product development and advertising, although the cost-price squeeze for some man-made fibers may limit larger expenditures. Funds currently available for man-made fiber research and promotion are perhaps 10 times the total spent on cotton. In response to the prospect of continuing stiff competition from man-made fibers, cotton research and promotion likely will expand during the next few years. As pointed out earlier, there are indications that cotton interests will attempt to reduce man-made fiber's advantage in this important area through both private and governmentsupported programs. For instance, the Agricultural Act of 1970 provides additional funds for cotton research and promotion during the early 1970's.

[^7]
## TEXTILE PROJECTIONS FOR 1980

## Fiber Use to Keep Expanding

By 1980, the average American consumer may use 10-15 more pounds of fiber processed in U.S. mills than he did in 1970. Total per capita fiber use may grow about 2 percent annually during the 1970 's, compared with an annual growth rate of nearly 4 percent during the past decade. This would mean total mill use of fibers of 55 to 60 pounds per capita in 1980, compared with 46.5 pounds in $1970 .{ }^{11}$ Most of this increase will likely be man-made fibers, particularly the non-cellulosics. Although per capita mill use of rayon and acetate leveled off in the late 1960's, portending little change for the 1970's, non-cellulosic consumption may expand about 5 percent a year during the next decade. However, this would be less than one-third the rate of the past 2 decades, reflecting limited prospects for further substantial displacement of natural fibers. Still, per capita non-cellulosic use may reach 30 to 35 pounds by 1980, over 50 percent above the present level (table 6).

## Prospective Cotton Use Brighter

The outlook for U.S. mill use of cotton during the 1970's is brighter than in recent years. Since World War II, per capita use has steadily trended downward. However, assuming supplies are available at competitive prices, the downward trend may moderate further as increased cotton research and promotion stimulate consumption. A Gompertz curve fit to per capita mill use since 1941 shows a gradually slower decline in use over the past 3 decades (figure 3). Projection to 1980 indicates a further small decline in per capita cotton consumption. The annual rate of decline over the next 10 years will likely average less than half of 1 percent, compared with declines of 1.1 percent during the 1960 's and 3.4 percent in the 1950 's. As a result, per capita cotton use by U.S. mills may total about 18 pounds in 1980, compared with 18.6 pounds in 1970 (figure 3 and table 6). But a tenth larger population will more than offset this decline. Thus, with a growing population, prospective cotton use of $8-1 / 2$ to 9 million bales is indicated for 1980, compared with 8 million in 1970. ${ }^{12}$

## Textile Imports May Increase

Imports of cotton manufactures captured an additional 1 percent of the domestic market every ${ }^{2}$

[^8]
## COTTON MILL USE PER CAPITA



Figure 3

Table 6.- Per capita mill use of fibers:
Actual 1950-70 and projected 1980

| Fibers | Annual growth rates |  |  | Per capita use |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1950-59 | 1960-69 | Projected $1970-79$ | 1960 | $1970^{1}$ | 1980 |
|  | Percent |  |  | Pounds |  |  |
| Cotton | -3.4 | -1.1 | ( ${ }^{2}$ ) | 23.2 | 18.6 | 18 |
| Rayon/acetate. | -2.5 | +3.1 | 0 | 6.0 | 6.9 | 7 |
| Non-cellulosic .. | +16.6 | +18.6 | +4-6 | 4.4 | 19.8 | 30-35 |
| Total ${ }^{3}$ | -2.3 | +3.9 | +1.5-2.5 | 35.9 | 46.5 | 55-60 |

[^9]years on the average during the past decade. This expanding U.S. use of foreign cotton products is largely related to labor cost differentials which allow imported items to be priced below many domestically produced products. If recent trends continue, imports during the 1970's will increase their share of the domestic market about 0.5 percentage point annually. ${ }^{13}$ This would raise cotton textile imports' share of the domestic market to about 17 percent in 1980, compared with 12 percent in 1970 (table 7).

Man-made fiber manufactured imports have gained rapidly in recent years, both in terms of quantity and as a share of the domestic market. However, these imports still accounted for less than 6 percent of the total domestic market in 1970. But, like cotton, man-made fiber imports may increase their share of the domestic market about 0.5 percentage point annually during the next decade. Thus, imports of man-made fiber textiles in 1980 may total a little over 1 billion equivalent pounds, or around 10 percent of the domestic man-made fiber market (table 7).

In contrast to imports, exports of textile products from the United States showed little change in the 1960 's, after trending downward in the 1950's. Cotton exports averaged about 200 million equivalent pounds during 1965-69 and little change is expected from this level during the 1970 's. Man-made fiber textile exports trended up slightly during the past decade. However,

[^10]foreign man-made fiber production is increasing rapidly. Thus, U.S. exports of man-made fiber products may remain near the 1970 level, meaning shipments of about 150 million equivalent pounds in 1980 (table 7).

As a result of larger prospective textile imports and relatively stable exports, the net import trade balance for both cotton and man-made fibers is projected to rise substantially by 1980 . The cotton import balance may total over half a billion equivalent pounds, about double the 1970 level, while the man-made fiber import balance may increase to almost 1 billion equivalent pounds, about 5 times the current level (table 7).

## Increasing Imports and Mill Use to Boost Domestic Consumption

Boosted by larger mill use and increasing cotton textile imports, domestic cotton consumption (mill use adjusted for textile trade) may expand over 1 million bales during the 1970's. This would place total domestic use at around 10 million bales in 1980 , compared with 8-1/2 million in 1970.

Man-made fiber domestic use may nearly double during the next decade, reaching about 10 billion pounds by 1980 . This compares with 5.7 billion pounds in 1970 and less than 2 billion in 1960.

As a result, total domestic use of cotton and man-made fibers may increase by half during the 1970's, reaching a projected 15 billion pounds by 1980 (table 7). This would mean an increase of over 15 pounds per capita in domestic fiber use.

Table 7. - Mill use, textile trade, and domestic use for cotton and man-made fibers: 1960, 1965-70, projected 1980

| Fiber and year | Mill use | Textile trade |  |  | $\begin{gathered} \text { Domestic } \\ \text { use } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Imports | Exports | Net |  |
|  | Million pounds |  |  |  |  |
| $\begin{gathered} \text { COTTON } \\ 1960 . \end{gathered}$ | 4,191 | ${ }^{1} 275$ | 233 | +42 | 4,233 |
| 1965 | 4,477 | 361 | 174 | +187 | 4,664 |
| 1966 | 4,631 | 510 | 190 | +321 | 4,951 |
| 1967 | 4,423 | 443 | 188 | +255 | 4,678 |
| 1968 | 4,147 | 474 | 188 | +286 | 4,432 |
| 1969 | 3,933 | 488 | 232 | +256 | 4,183 |
| $1970^{2}$ | 3,815 | 472 | 200 | +273 | 4,088 |
| 1980 | 4,100 | ${ }^{3} 800$ | 200 | +600 | 4,700 |
| MAN-MADE |  |  |  |  |  |
| 1960 | 1,875 | 31 | 91 | -59 | 1,815 |
| 1965 | 3,614 | 79 | 129 | -50 | 3,564 |
| 1966 | 3,989 | 123 | 140 | -17 | 3,972 |
| 1967 | 4,244 | 139 | 133 | +6 | 4,250 |
| 1968 | 5,305 | 193 | 129 | +64 | 5,370 |
| 1969 | 5,549 | 257 | 146 | +111 | 5,661 |
| $1970^{2}$ | 5,495 | 329 | 147 | +182 | 5,677 |
| 1980 | 9,100 | ${ }^{3} 1,050$ | 150 | +900 | 10,000 |
| TOTAL4 |  |  |  |  |  |
| 1960 | 6,477 | 439 | 329 | +110 | 6,586 |
| 1965 | 8,479 | 596 | 315 | +280 | 8,759 |
| 1966 | 8,990 | 776 | 340 | +437 | 9,426 |
| 1967 | 8,980 | 704 | 330 | +374 | 9,354 |
| 1968 | 9,782 | 813 | 327 | +487 | 10,268 |
| 1969 | 9,795 | 875 | 387 | +488 | 10,283 |
| $1970^{2}$ | 9,550 | 918 | 354 | $+564$ | 10,114 |
| $1980^{5}$ | 13,275 | ${ }^{3} 1,850$ | 350 | +1,500 | 14,775 |

${ }^{1}$ Includes picker laps imported as raw cotton. ${ }^{2}$ Preliminary. ${ }^{3}$ Data based on continued annual import penetration of 0.5 percent. ${ }^{4}$ includes wool. ${ }^{5}$ Excludes wool.

Compiled from unrounded data.

Table 13.-Cotton: Acreage, planted and harvested, production, and yield per acre on harvested acreage, by regions, 1960 to date

${ }^{1}$ California, Arizona, New Mexico, and Nevada. ${ }^{2}$ Texas and Oklahoma. ${ }^{3}$ Missouri, Arkansas, Tennessee, Mississippi, Louisiana, Mlinois, and Kentucky. ${ }^{4}$ Virginia, North Carolina, South Carolina, Georgia, Florida, and Alabama. ${ }^{5}$ Not adjusted for final acreage compliance with allotments. ${ }^{6}$ Preliminary.
${ }^{7}$ Indicated March 16, 1971. ${ }^{8} 500$-pound gross weight bales. ${ }^{9}$ Actual yield per acre. ${ }^{10}$ Vield trend-the 5 -year centered average.

Statistical Reporting Service.

Table 14.-Cotton: Supply and distribution, by types, United States, 1955 to date

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Year beginning August 1} \& \multicolumn{6}{|c|}{Supply} \& \multicolumn{3}{|c|}{Distribution} <br>
\hline \& \multirow[b]{2}{*}{Carryover August 1} \& \multicolumn{2}{|c|}{Ginnings} \& \multirow[b]{2}{*}{Net imports} \& \multirow[b]{2}{*}{City crop} \& \multirow[b]{2}{*}{Total} \& \multirow[b]{2}{*}{Mil consumption ${ }^{3}$} \& \multirow[b]{2}{*}{Net exports} \& \multirow[b]{2}{*}{Total} <br>
\hline \& \& Current crop less ginnings ${ }^{1}$ \& New crop $^{2}$ \& \& \& \& \& \& <br>
\hline \& \multicolumn{9}{|c|}{1,000 bales $^{4}$} <br>
\hline \& \multicolumn{9}{|c|}{All kinds} <br>
\hline 1955 \& 11,205.4 \& 14,228.1 \& 404.8 \& 136.6 \& 47.0 \& 26,021.9 \& 9,209.6 \& 2,214.7 \& 11,424.3 <br>
\hline 1956 \& 14,528.8 \& 12,746.4 \& 230.8 \& 136.4 \& 50.0 \& 27,692.4 \& 8,608.4 \& 7,597.7 \& 16,206.0 <br>
\hline 1957 \& 11,322.6 \& 10,649.6 \& 212.6 \& 141.2 \& 58.0 \& 22,384.0 \& 7,999.2 \& 5,716.8 \& 13,716.0 <br>
\hline 1958 \& $8,737.0$ \& 11,222.8 \& 150.5 \& 136.5 \& 51.0 \& 20,297.8 \& 8,702.8 \& 2,789.5 \& 11,492.3 <br>
\hline 1959 \& 8,884.9 \& 14,364.6 \& 139.8 \& 130.7 \& 50.0 \& 23,570.0 \& 9,016.7 \& 7,182.4 \& 16,199.1 <br>
\hline 1960 \& 7,558.7 \& 14,125.2 \& 227.7 \& ${ }_{5}{ }^{1} 127.2$ \& 63.0 \& 22,101.8 \& 8,279.3 \& 6,632.4 \& 14,911.7 <br>
\hline 1961 \& 7,227.8 \& 14,096.8 \& 287.4 \& ${ }^{5} 152.4$ \& 64.0 \& 21,828.5 \& 8,953.8 \& 4,912.9 \& 13,866.7 <br>
\hline 1962 \& 7,831.4 \& 14,576.8 \& 244.7 \& 136.6 \& 68.0 \& 22,857.5 \& 8,418.9 \& 3,350.9 \& 11,769.8 <br>
\hline 1963 \& 11,215.6 \& 15,045.3 \& 152.1 \& ${ }^{6} 134.8$ \& 102.0 \& 26,649.8 \& 8,608.7 \& 5,662.4 \& 14,271.1 <br>
\hline 1964 \& 12,378.3 \& 14,996.9 \& 180.1 \& 118.2 \& 70.0 \& 27,743.5 \& 9,170.9 \& 4,059.6 \& 13,230.5 <br>
\hline 1965 \& 14,290.6 \& 14,752.8 \& 9.9 \& 118.4 \& 87.6 \& 29,259.3 \& 9,496.8 \& 2,942.1 \& 12,438.9 <br>
\hline 1966 \& 16,862.5 \& 9,552.5 \& 265.5 \& 104.6 \& 50.0 \& 26,826.1 \& 9,484.9 \& 4,668.8 \& 14,153.7 <br>
\hline 1967 \& 12,533.3 \& 7,182.1 \& 6.1 \& 149.1 \& 30.0 \& 19,900.6 \& 8,981.5 \& 4,205.6 \& 13,187.1 <br>
\hline 1968 \& 6,448.3 \& 10,910.5 \& 79.8 \& 67.6 \& 40.0 \& 17,546.2 \& 8,242.2 \& 2,731.4 \& 10,973.6 <br>
\hline 1969 . \& $6,520.8$ \& 0 9,857.3 \& 6.0 \& 51.9 \& 40.0 \& 16,476.0 \& 7,990.6 \& 2,768.2 \& 10,758.8 <br>
\hline \multirow[t]{2}{*}{$1970^{9}$} \& 5,760.5 \& ${ }^{0} 10,116.1$ \& --- \& 50.0 \& 40.0 \& 15,966.6 \& $8,005.0$ \& 3,515.0 \& 11,520.0 <br>
\hline \& \multicolumn{9}{|c|}{Other than extra-long staple} <br>
\hline 1955 \& 11,028.5 \& 14,186.6 \& 404.8 \& 50.7 \& 47.0 \& 25,717.6 \& 9,084.7 \& 2,194.4 \& 11,279.1 <br>
\hline 1956 \& 14,399.0 \& 12,697.3 \& 230.8 \& 43.3 \& 50.0 \& 27,420.4 \& 8,496.2 \& 7,539.8 \& 16,036.0 <br>
\hline 1957 \& 11,269.3 \& 10,569.9 \& 212.6 \& 96.6 \& 58.0 \& 22,206.4 \& 7,899.8 \& 5,707.1 \& 13,606.8 <br>
\hline 1958 \& 8,615.3 \& 11,140.9 \& 150.5 \& 51.0 \& 51.0 \& 20,008.7 \& 8,593.7 \& 2,766.0 \& 11,359.6 <br>
\hline 1959 \& $8,732.6$ \& 14,295.5 \& 139.8 \& 547.5 \& 50.0 \& 23,265.4 \& 8,879.4 \& 7,178.2 \& 16,057.6 <br>
\hline 1960 \& $7,404.3$
$7,089.5$ \& 14,059.2 \& 277.7 \& 541.5 \& 63.0 \& 21,795.7 \& 8,131.2 \& 6,625.0 \& 14,756.3 <br>
\hline 1961 \& 7,089.5 \& 14,035.8 \& 287.4 \& ${ }^{5} 68.2$ \& 64.0 \& 21,544.9 \& 8,783.2 \& 4,905.8 \& 13,689.0 <br>
\hline 1962 \& $7,741.0$
$11,016.0$ \& $14,467.0$
$14,884.1$ \& 244.7
152.1 \& 54.5
654 \& 68.0 \& 22,575.2 \& $8,258.3$ \& 3,348.2 \& 11,606.5 <br>
\hline 1964 \& 12,125.1 \& 14,880.2 \& 180.1 \& 35.5 \& 170.0 \& 27,298.6 \& $8,468.0$
9.018 .6 \& $5,660.8$
$4,038.4$ \& $14,128.8$
$13,057.0$ <br>
\hline 1965 \& 14,031.3 \& 14,667.2 \& 9.9 \& 30.8 \& 87.6 \& 28,826.8 \& 9,355.9 \& 2,936.4 \& 12,292.3 <br>
\hline 1966 \& 16,574.0 \& 9,481.3 \& 256.5 \& 28.9 \& 50.0 \& 26,390.7 \& 9,349.9 \& 4,655.9 \& 14,005.8 <br>
\hline 1967 \& 12,279.5 \& 7,1.13.8 \& 6.1 \& 57.6 \& 30.0 \& 19,487.0 \& 8,854.0 \& 4,161.3 \& 13,015.3 <br>
\hline 1968. \& 6,257.6 \& 10,832.3 \& 79.8 \& 37.9 \& 40.0 \& 17,247.6 \& 8,115.9 \& 2,722.9 \& 10,838.8 <br>
\hline \multirow[t]{3}{*}{$1970^{\circ}$} \& $6,365.5$
$5,653.1$ \& $9,780.5$
0,059 \& 6.0 \& 30.9 \& 40.0 \& 16,222.9 \& 7,879.0 \& $$
2,753.3
$$ \& $$
10,632.3
$$ <br>
\hline \& 5,653.1 \& ${ }^{0} 10,059.0$ \& --- \& 30.0 \& 40.0 \& 15,782.1 \& 7,900.0 \& $$
3,500.0
$$ \& $$
11,400.0
$$ <br>
\hline \& \multicolumn{9}{|c|}{Long staple (other than upland) ${ }^{7}$} <br>
\hline 1955 \& 176.9 \& 41.5 \& --- \& 85.9 \& --- \& 304.3 \& 124.9 \& 20.3 \& 145.2 <br>
\hline 1956 \& 129.8 \& 49.1 \& --- \& 93.1 \& ... \& 272.0 \& 112.2 \& 57.9 \& 170.1 <br>
\hline 1957 \& 53.3
121.7 \& 79.7 \& -.. \& 44.6 \& --- \& 177.6 \& 99.4 \& 9.7 \& 109.1 <br>
\hline 1959 \& 121.7
152.3 \& 81.9 \& $\cdots$ \& 85.5 \& --- \& 289.1 \& 109.1 \& 23.5 \& 132.6 <br>
\hline 1960 \& 152.3 \& 69.1
66.0 \& --- \& 83.2
85.7 \& --- \& 304.6 \& 137.3 \& 4.2 \& 141.5 <br>
\hline 1961 \& $\frac{1}{8} 38.3$ \& 61.0 \& --- \& 84.2 \& --- \& 306.1
283.6 \& 148.1 \& 7.4 \& 155.4 <br>
\hline 1962 \& 8
8
8
8
89.4 \& 109.8 \& --- \& 82.1 \& --- \& 282.3 \& 160.6 \& 2.7 \& 163.3 <br>
\hline 1964 \& 8199.6
825.2 \& 161.2 \& --- \& ${ }^{6} 80.4$ \& --- \& 441.2 \& 140.7 \& 1.6 \& 142.3 <br>
\hline 1965 \& 1253.2
8259.3 \& 116.7
85.6 \& --- \& 82.7
87.6 \& --- \& 452.6 \& 152.3 \& 21.2 \& 173.5 <br>
\hline 1966 \& ${ }_{8}^{8} 288.5$ \& 71.2 \& --- \& 87.6 \& \& 432.5
435.4 \& 140.9 \& 5.7 \& 146.6 <br>
\hline 1967 \& 8253.8 \& 68.3 \& --- \& 11

91.5 \& --- \& 435.4
413.6 \& 135.0
127.5 \& 12.9 \& 147.9 <br>
\hline 1968 \& 190.7 \& 78.2 \& --- \& 29.7 \& --- \& 413.6
298.6 \& 127.5 \& 44.3
8.5 \& 171.8
134.8 <br>
\hline $19700^{\circ}$ \& 155.3 \& $10^{76.8}$ \& --. \& 21.0 \& ... \& 253.1 \& 111.6 \& 8.5
14.9 \& 134.8
126.5 <br>
\hline \& 107.4 \& 1057.1 \& --- \& 20.0 \& --- \& 184.5 \& 105.0 \& 15.0 \& 120.0 <br>
\hline
\end{tabular}

${ }^{\text {'Current }}$ crop less ginnings prior to August 1 beginning of cotton. ${ }^{2}$ Ginnings prior to August 1 end of season. ${ }^{3}$ Adjusted to cotton marketing year basis, August 1-July 31. ${ }^{4}$ Running bales except "net imports" which are in bales of 500 pounds, gross Weight. "Does not include picker laps reported as raw cotton by the Bureau of the census. ${ }^{6}$ Imports for consumption beginning 1963. ${ }^{7}$ Includes American-Egyptian, Sea Island, and foreign-grown cotton. In some years prior to 1962, small amounts of foreign-grown long-staple upland cotton are the Census Foreign stockpile cotton included by the Bureau of the Census as of August 1 was 7,168 bales in $1962,61,168$ in

1963, 27,474 in 1964, 18,307 in 1965, 12,500 in 1966, and 884 in 1967. In bond cotton is not included: 116,609 bales as of August 1 in 1963, 60,297 in 1964, 38,022 in 1965, and 33,284 in 1966. . Preliminary and estimated. ${ }^{10}$ Bureau of the Census ginnings report of March 22, 1971. i I Imports exceed quota of 85,600 bales, in part, because import data are not adjusted to August 1 -July 31 marketing year. Also, may include 6,000 or more bales of cotton stapling less than $1-3 / 8$ inches.
Bureau of the Census.

Table 15.-Raw cotton equivalent of U.S. imports for consumption of cotton manufactures, 1965 to date

| Year and month | Yarn, thread, and cloth |  |  |  |  |  | Primarily manufactured products |  |  |  |  |  |  |  |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yarn | Sewing thread crochet, knitting yarn | Cloth |  | Total |  | Pile fabrics and mfrs. | Table damask and mfrs. ${ }^{2}$ | Bedclothes and towels ${ }^{3}$ | Gloves hosiery and hdkf | Other wearıng apparel ${ }^{4}$ | Lace fabric and articles ${ }^{5}$ | Household and clothing articles ${ }^{6}$ | Misc. products ${ }^{7}$ | Fioor coverıng | Total |  |  |  |
|  |  |  | Prımarily cotton | Other ${ }^{1}$ | Werght | Bales |  |  |  |  |  |  |  |  |  | Weight | Bales | Weight | Bales |
|  | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales }^{8} \end{aligned}$ | $\begin{gathered} 1,000 \\ \text { bales }^{8} \end{gathered}$ | $\begin{aligned} & 1,000 \\ & \text { bales } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales }^{8} \end{aligned}$ | 1,000 pounds | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | 1,000 pounds | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $1,000$ <br> pounds | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales }^{8} \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales }^{8} \end{aligned}$ |
| 1965 | 24,414 | 324 | 173,359 | 5,038 | 203,235 | 523.2 | 5,349 | 3,315 | 16,885 | 2,9444 | 116,947 | 1,198 | 6,682 | 2,295 | 1,960 | 157,575 | 328.3 | 360,710 | 751.5 |
| 1966 | 101,919 | 345 | 218,210 | 10,012 | 330,486 | 688.5 | 5,929 | 3,174 | 27,302 | 3,090 | 124,910 | 1,306 | 9,498 | 2,913 | 1,689 | 179,811 | 374.6 | 510,297 | 1,063.1 |
| 1967 | 43,620 | 277 | 201,531 | 12,385 | 257,813 | 537.1 | 6,162 | 2,410 | 28,577 | 3,126 | 129,966 | 1,323 | 9,178 | 3,386 | 1,444 | 185,572 | 386.6 | 443,385 | 923.7 |
| 1968 | 57,217 | 456 | 194,143 | 16,775 | 268,591 | 559.6 | 7,080 | 1,857 | 34,539 | 3,555 | 136,492 | 1,610 | 12,002 | 4,633 | 3,487 | 205,255 | 427.6 | 473,846 | 987.2 |
| 1969 | 31,049 | 337 | 220,245 | 23,531 | 275,162 | 573.3 | 8,269 | 2,511 | 34,339 | 3,320 | 139,396 | 1,852 | 13,213 | 5,756 | 4,079 | 212,735 | 443.2 | 487,897 | 1,016.5 |
| $1970{ }^{9}$ | 24,345 | 376 | 211,801 | 24,262 | 260,784 | 543.3 | 8,671 | 1,943 | 32,349 | 2,861 | 139,854 | 1,471 | 12,126 | 8,177 | 4,078 | 211,530 | 440.7 | 472,314 | 984.0 |
| 1969 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan. | 1,584 | 12 | 5,188 | 933 | 7,717 | 16.1 | 160 | 66 | 1,906 | 204 | 8,355 | 146 | 576 | 321 | 226 | 11,960 | 24.9 | 19,677 | 41.0 |
| Feb. | 1,581 | 8 | 11,690 | 941 | 14,220 | 29.6 | 302 | 114 | 1,995 | 227 | 9,802 | 165 | 603 | 175 | 125 | 13,508 | 28.1 | 27,728 | 57.8 |
| Mar. | 2,812 | 56 | 24,492 | 1,856 | 29,216 | 60.9 | 476 | 237 | 4,160 | 324 | 14,776 | 174 | 1,632 | 384 | 446 | 22,609 | 47.1 | 51,825 | 108.0 |
| Apr. | 4,623 | 29 | 27,005 | 2,805 | 34,462 | 71.8 | 811 | 179 | 3,073 | 301 | 11,503 | 236 | 1,318 | 448 | 459 | 18,328 | 38.2 | 52,790 | 110.0 |
| May | 3,017 | 42 | 17,231 | 2,486 | 22,776 | 47.4 | 759 | 218 | 4,697 | 302 | 12,522 | 169 | 1,361 | 597 | 505 | 21,130 | 44.0 | 43,906 | 91.5 |
| June | 3,758 | 40 | 23,625 | 3,060 | 30,483 | 63.5 | 936 | 218 | 3,104 | 315 | 12,839 | 133 | 1,271 | 644 | 341 | 19,801 | 41.3 | 50,284 | 104.8 |
| July | 3,126 | 27 | 16,431 | 2,271 | 21,855 | 45.5 | 922 | 253 | 2,934 | 234 | 15,837 | 116 | 1,068 | 498 | 337 | 22,199 | 46.2 | 44,054 | 91.8 |
| Aug. | 2,397 | 16 | 22,876 | 2,191 | 27,480 | 57.2 | 800 | 185 | 2,513 | 281 | 14,641 | 162 | 1,178 | 462 | 353 | 20,575 | 42.9 | 48,055 | 100.1 |
| Sept. | 1,592 | 24 | 18,369 | 1,706 | 21,691 | 45.2 | 850 | 235 | 2,287 | 273 | 11,531 | 111 | 1,024 | 543 | 214 | 17,068 | 35.6 | 38,759 | 80.7 |
| Oct. | 1,821 | 30 | 16,935 | 1,952 | 20,738 | 43.2 | 1,003 | 315 | 2,258 | 251 | 10,154 | 180 | 1,101 | 639 | 413 | 16,314 | 34.0 | 37,052 | 77.2 |
| Nov. | 2,128 2,589 | 17 36 | 19,621 16,872 | 1,706 | 23,472 | 48.9 | 559 691 | 261 | 2,790 | 283 | 8,964 | 139 | 1,072 | 494 | 440 | 15,002 | 31.3 | 38,474 | 80.2 |
| Dec. | 2,589 | 36 | 16,872 | 1,619 | 21,116 | 44.0 | 691 | 230 | 2,625 | 327 | 8,446 | 123 | 1,049 | 552 | 219 | 14,262 | 29.7 | 35,378 | 73.7 |
| $1970^{9}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan. | 2,341 | 27 | 21,110 | 1,796 | 25,274 | 52.7 | 535 | 284 | 3,378 | 175 | 12,918 | 133 | 1,153 | 598 | 366 | 19,540 | 40.7 | 44,814 | 93.4 |
| Feb. | 2,461 | 40 | 19,901 | 1,527 | 23,929 | 49.9 | 503 | 74 | 2,312 | 131 | 10,899 | 144 | 1,008 | 466 | 327 | 15,864 | 33.0 | 39,793 | 82.9 |
| Mar. | 2,674 | 46 | 19,971 | 2,338 | 24,975 | 52.0 | 606 | 238 | 3,287 | 196 | 12,244 | 146 | 1,093 | 647 | 362 | 18,819 | 39.2 | 43,794 | 91.2 |
| Apr. | 2,373 | 24 | 15,040 | 2,098 | 19,535 | 40.7 | 603 | 121 | 1,927 | 129 | 99,181 | 136 | 835 | 653 | 320 | 14,905 | 31.1 | 34,440 | 71.7 |
| May | 1,978 | 46 | 19,803 | 3,119 | 24,946 | 52.0 | 823 | 109 | 3,374 | 419 | 9,707 | 123 | 1,179 | 837 | 303 | 16,874 | 35.2 | 41,820 | 87.1 |
| June | 1,745 | 37 | 15,552 | 2,894 | 20,228 | 42.1 | 1,014 | 154 | 2,493 | 324 | 12,056 | 110 | 1,051 | 728 | 394 | 18,324 | 38.2 | 38,552 | 80.3 |
| July | 2,315 | 23 | 19,856 | 3,012 | 25,206 | 52.5 | 1,167 | 193 | 2,443 | 229 | 13,696 | 135 | 1,228 | 901 | 328 | 16,902 | 35.2 | 34,745 | 72.4 |
| Aug. | 1,506 | 28 | 14,505 | 1,821 | 18,213 | 37.9 | 801 | 197 | 1,968 | 182 | 11,325 | 97 | 938 | 686 | 225 | 16,419 | 34.2 | 34,632 | 72.1 |
| Sept. | 1,875 | 12 | 14,505 | 1,821 | 18,213 | 37.9 | 801 | 197 | 1,968 | 182 | 11,325 | 97 | 938 | 686 | 225 | 16,419 | 34.2 | 34,632 | 72.1 |
| Oct. | 957 | 39 | 14,867 | 1,139 | 17,002 | 35.4 | 746 | 141 | 2,268 | 213 | 10,065 | 132 | 889 | 620 | 359 | 15,433 | 32.2 | 32,435 | 67.6 |
| Nov. | 2,350 | 14 | 21,666 | 1,326 | 25,356 | 52.8 | 534 | 209 | 2,774 | 273 | 17,551 | 101 | 1,081 | 640 | 329 | 23,492 | 48.9 | 48,848 | 101.8 |
| Dec. | 1,770 | 40 | 15,558 | 909 | 18,277 | 38.1 | 368 | 79 | 2,709 | 222 | 9,125 | 99 | 953 | 656 | 427 | 14,638 | 30.5 | 32,915 | 68.6 |
| $\begin{gathered} 1971^{9} \\ \text { Jan. } \end{gathered}$ | 1,974 | 27 | 15,714 | 1,357 | 19,072 | 39.7 | 544 | 112 | 2,946 | 262 | 13,192 | 125 | 854 | 730 | 423 | 19,188 | 40.0 | 38,260 | 79.7 |

[^11]robes, pajamas, and ornamented wearing apparel). ${ }^{5}$ Includes nets and nettings, veils and veilings, edgings, embroideries, etc., and lace window curtains. ${ }^{6}$ Includes braids (except hat braids), tubing, labels, lacing, wicking, loom harness, table and bureau covers, garters, suspenders and braces, corsets and brassieres, etc ${ }^{\text {I }}$ Includes,
belts and belting, fish nets and netting, and coated, filled or waterproof fabrics. ${ }^{8} 480$ pound net weight bales. ${ }^{9}$ Preliminary.

Table 16.-Raw cotton equivalent of U.S. exports of domestic cotton manufacturers, 1965 to date

| Year and month | Yarn, thread, twine, and cloth |  |  |  |  |  |  | Manufactured products |  |  |  |  |  |  |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yarn | Sewing thread crocket, darning and embroidery cotton | Cloth |  |  | Total |  | House furnishings |  |  |  | Wearing apparel |  | Other house hold and clothing articles $^{6}$ | Industrial prodducts ${ }^{7}$ | Total |  |  |  |
|  |  |  | Twine and cordage | Standard constructions and tire cord ${ }^{1}$ | Other ${ }^{2}$ | Weight | Bales | Blankets | Quilts, spreads, pillow cases, and sheets | Towels | Other ${ }^{3}$ | Knit ${ }^{4}$ | Other ${ }^{5}$ |  |  | Weight | Bales | Weight | Bales |
|  | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales }^{8} \end{aligned}$ | $\begin{gathered} 1,000 \\ \text { pounds } \end{gathered}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales }^{8} \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { pounds } \end{aligned}$ | $\begin{aligned} & 1,000 \\ & \text { bales }^{8} \end{aligned}$ |
| 1965 | 7,104 | 1,832 | 1,237 | 85,509 | 24,792 | 120,474 | 251.0 | 851 | 4,955 | 6,370 | 2,838 | 2,838 | 15,197 | 9,953 | 10,256 | 53,258 | 111.0 | 173,732 | 361.9 |
| 1966 | 6,518 | 2,049 | 1,303 | 95,473 | 27,370 | 132,713 | 276.4 | 724 | 5,128 | 6,514 | 3,037 | 2,962 | 17,451 | 10,155 | 10,842 | 56,813 | 118.4 | 189,526 | 394.8 |
| 1967 | 5,737 | 1,806 | 1,342 | 86,244 | 33,553 | 128,682 | 268.1 | 691 | 5,885 | 6,435 | 3,104 | 2,694 | 20,458 | 11,216 | 9,234 | 59,717 | 124.4 | 188,399 | 392.5 |
| 1968 | 4,442 | 1,754 | 1,464 | 79,302 | 35,900 | 122,862 | 256.0 | 593 | 5,671 | 5,536 | 3,878 | 2,809 | 24,666 | 11,914 | 10,271 | 65,338 | 136.1 | 188,200 | 392.1 |
| 1969 | 37,432 | 1,821 | 1,193 | 85,344 | 32,827 | 158,617 | 330.5 | 523 | 4.670 | 5,176 | 3,686 | 2,756 | 33,014 | 12,081 | 11,540 | 73,446 | 153.0 | 232,063 | 483.5 |
| $1970{ }^{\text { }}$ | 15,178 | 1,641 | 920 | 85,458 | 28,473 | 131,670 | 274.3 | 597 | 4,665 | 5,289 | 3,620 | 2,770 | 27,200 | 10,661 | 12,932 | 67,734 | 141.1 | 199,404 | 415.4 |
| 1969 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan. | 300 | 79 | 36 | 3,103 | 300 | 3,818 | 8.0 | 28 | 209 | 171 | 200 | 179 | 1,557 | 682 | 533 | 3,559 | 7.4 | 7,377 | 15.4 |
| Feb. | 471 | 128 | 108 | 5,794 | 893 | 7,394 | 15.4 | 23 | 160 | 203 | 234 | 185 | 1,492 | 924 | 473 | 3,694 | 7.7 | 11,088 | 23.1 |
| Mar. | 3,749 | 188 | 149 | 8,060 | 4,808 | 16,954 | 35.3 | 42 | 526 | 659 | 488 | 307 | 4,315 | 1,714 | 1,112 | 9,163 | 19.1 | 54.4 |  |
| Apr. | 3,291 | 181 | 125 | 7,104 | 3,374 | 14,075 | 19.3 | 75 | 454 | 377 | 491 | 226 | 3,125 | 1,057 | 1,041 | 6,846 | 14.3 | 20,921 | 43.6 |
| May | 5,728 | 179 | 124 | 6,672 | 3,382 | 16,085 | 33.5 | 35 | 473 | 506 | 355 | 261 | 4,064 | 894 | 1,134 | 7,722 | 16.1 | 23,807 | 49.6 |
| June | 3,904 | 168 | 147 | 6,210 | 3,093 | 13,522 | 28.2 | 46 | 432 | 445 | 223 | 225 | 2,821 | 819 | 9953 | 5,964 | 12.4 | 19,486 | 40.6 |
| July | 2043 | 112 | 58 | 7,114 | 2,027 | 11,354 | 23.7 | 37 | 313 | 432 | 231 | 238 | 2,747 | 1,257 | 943 | 6,198 | 12.9 | 17,552 | 36.6 |
| Aug. | 2,066 | 145 | 110 | 7,590 | 3,116 | 13,027 | 27.1 | 47 | 447 | 414 | 346 | 251 | 2,145 | 1,242 | 1,188 | 6,080 | 12.7 | 19,107 | 39.8 |
| Sept. | 902 | 190 | 82 | 8,606 | 2,846 | 12,626 | 26.3 | 51 | 405 | 500 | 225 | 243 | 2,142 | 1,161 | 1,146 | 5,873 | 12.2 | 18,499 | 38.5 |
| Oct. | 2,255 | 177 | 93 | 7,997 | 3,708 | 14,230 | 29.6 | 63 | 449 | 586 | 263 | 250 | 2,634 | 877 | 1,107 | 6,229 | 13.0 | 20,459 | 42.6 |
| Nov. | 5,538 | 115 | 75 | 10,019 | 3,037 | 18,784 | 39.1 | 48 | 426 | 458 | 309 | 202 | 2,622 | 731 | 930 | 5,726 | 11.9 | 24,510 | 51.1 |
| Dec. | 7,185 | 158 | 88 | 7,077 | 2,245 | 16,753 | 34.9 | 29 | 378 | 426 | 322 | 185 | 3,351 | 724 | 980 | 6,395 | 13.3 | 23,148 | 48.2 |
| $1970^{9}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan. | 3,301 | 121 | 108 | 7,293 | 2,701 | 13,524 | 28.2 | 32 | 290 | 348 | 177 | 205 | 2,716 | 1,015 | 935 | 5,718 | 11.9 | 19,242 | 40.1 |
| Feb. | 2,345 | 148 | 34 | 6,852 | 1,702 | 11,081 | 23.1 | 32 | 256 | 322 | 288 | 209 | 3,275 | 897 | 887 | 6,166 | 12.8 | 17,247 | 35.9 |
| Mar. | 2,548 | 126 | 102 | 8,841 | 2,364 | 13,981 | 29.1 | 27 | 371 | 368 | 222 | 196 | 3,502 | 737 | 1,070 | 6,493 | 13.5 | 20,474 | 42.7 |
| Apr. | 2,849 | 133 | 73 | 7,297 | 3,092 | 13,444 | 28.0 | 34 | 350 | 344 | 250 | 219 | 2,683 | 807 | 954 | 5,641 | 11.8 | 19,085 | 39.8 |
| May | 1,634 | 118 | 59 | 6,886 | 3,319 | 12,016 | 25.0 | 25 | 494 | 443 | 319 | 274 | 1,983 | 834 | 1.010 | 5,382 | 11.2 | 17,398 | 36.2 |
| June | 325 | 116 | 110 | 7,094 | 2,508 | 10,153 | 21.2 | 43 | 387 | 362 | 315 | 221 | 2,265 | 999 | 1,149 | 5,741 | 12.0 | 15,894 | 33.1 |
| July | 220 | 125 | 75 | 7,085 | 1,745 | 9,250 | 19.3 | 41 | 324 | 459 | 400 | 290 | 1,841 | 779 | 1.129 | 5,263 | 11.0 | 14,513 | 30.2 |
| Aug. . | 288 | 135 | 71 | 5,490 | 1,922 | 7,906 | 16.5 | 81 | 372 | 607 | 209 | 215 | 1,739 | 886 | 1.228 | 5,337 | 11.1 | 13,243 | 27.6 |
| Sept. . | 363 | 150 | 59 | 6,126 | 2,212 | 8,910 | 18.6 | 88 | 333 | 426 | 266 | 225 | 1,509 | 956 | 1.100 | 4,903 | 10.2 | 13,813 | 28.8 |
| Oct. | 392 | 185 | 61 | 8,162 | 2,253 | 11.053 | 23.0 | 67 | 503 | 642 | 332 | 291 | 2,036 | 972 | 1,080 | 5,923 | 12.3 | 16,976 | 35.4 |
| Nov. | 465 | 153 | 101 | 7,489 | 2,689 | 10,897 | 22.7 | 92 | 648 | 529 | 364 | 240 | 1,898 | 959 | 1,157 | 5,887 | 12.3 | 16,784 | 35.0 |
| Dec. | 448 | 131 | 67 | 6,843 | 1,966 | 9,455 | 19.7 | 35 | 337 | 439 | 478 | 185 | 1,753 | 820 | 1,233 | 5,280 | 11.0 | 14,735 | 30.7 |
| $\begin{array}{r} 1971^{9} \\ \text { Jan. } \end{array}$ | 425 | 160 | 39 | 7,067 | 2,036 | 9,727 | 20.3 | 31 | 356 | 339 | 334 | 157 | 1,749 | 877 | 1,319 | 5,162 | 10.8 | 14,889 | 31.0 |

[^12]mitts of woven fabric. ${ }^{\text {s }}$ Includes underwear and outerwear o
woven fabric, handkerchiefs, and wearing apparel containing mixed fibers (corsets, brassieres, and girdles, garters, armbands and suspenders, neckties and cravats).
elastic webbing, waterproof garments, and lace and lace articles, elastic webbing, waterproof garments, and lace and lace articles,
7 ${ }^{8} 480$ pound net weight bales. ${ }^{9}$ Preliminary.

Compiled from reports of the Bureau of the Census.

Table 17.-Man-made fiber equivalent of U.S. imports for consumption of man-made fiber manufactures, 1965 to date

| $\begin{aligned} & \text { Year } \\ & \text { and } \\ & \text { month } \end{aligned}$ | Tops, yarn, thread, and cloth |  |  |  |  |  |  | Primarily manufactured products |  |  |  |  |  |  |  | Total manu-factured imports |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sliver tops and roving | Yarns thrown or plied | Yarns spun | Sewing thread and handwork yarns | Rayon tire fabric including cord fabric | Fabric woven | Total | Wearing apparel |  | Handkerchiefs | Laces and lace articles $^{2}$ | Narrow fabrics ${ }^{3}$ | Knit <br> fabric in the piece | Other manu-fac- $_{4}$tures | Total |  |
|  |  |  |  |  |  |  |  | Knit ${ }^{1}$ | Not knit |  |  |  |  |  |  |  |
|  | 1,000 pounds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1965 | 53 | 279 | 503 | 389 | 569 | 26,094 | 27,887 | 12,832 | 17,749 | 217 | 1,587 | 4,960 | 2,634 | 11,166 | 51,145 | 79,032 |
| 1966 | 759 | 926 | 2,596 | 334 | 1,739 | 44,198 | 50,552 | 18,788 | 19,636 | 189 | 2,119 | 4,132 | 3,370 | 24,279 | 72,513 | 123,065 |
| 1967 | 147 | 4,604 | 3,957 | 328 | 990 | 32,714 | 42,740 | 30,692 | 30,194 | 170 | 2,185 | 4,057 | 4,441 | 24,339 | 96,078 | 138,818 |
| 1968 | 70 | 11,032 | 6,526 | 709 | 5,298 | 38,086 | 61,721 | 50,310 | 41,019 | 182 | 2,344 | 4,752 | 5,169 | 27,828 | 131,604 | 193,325 |
| 1969. | 780 | 4,510 | 10,848 | 700 | 3,419 | 48,322 | 68,579 | 76,851 | 66,696 | 507 | 2,778 | 5,292 | 7,213 | 29,544 | 188,881 | 257,460 |
| $1970^{\text {S }}$ | 1,790 | 10,449 | 11,114 | 2,569 | 2,120 | 54,989 | 83,031 | 96,583 | 91,337 | 346 | 4,783 | 5,327 | 19,615 | 28,370 | 246,361 | 329,392 |
| 1969 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan. | 16 | 96 | 518 | 24 | 47 | 2,023 | 2,724 | 2,658 | 3,601 | 19 | 103 | 227 | 715 | 2,202 | 9,525 | 12,249 |
| Feb. | 6 | 513 | 958 | 52 | 129 | 3,288 | 4,946 | 4,307 | 4,821 | 25 | 132 | 344 | 541 | 1,922 | 12,092 | 17,038 |
| Mar. | 108 | 258 | 1,282 | 59 | 732 | 4,433 | 6,872 | 5,184 | 6,012 | 44 | 123 | 692 | 513 | 2,951 | 15,519 | 22,391 |
| Apr. | 31 | 262 | 1,041 | 59 | 1,086 | 4,663 | 7,142 | 5,033 | 4,764 | 37 | 193 | 571 | 586 | 2,474 | 13,658 | 20,800 |
| May | 63 | 286 | 16,56 | 36 | 763 | 4,148 | 6,952 | 6,409 | 4,791 | 39 | 222 | 500 | 540 | 2,979 | 15,480 | 22,432 |
| June | 56 | 272 | 829 | 63 | 79 | 4,237 | 5,536 | 8,243 | 5,816 | 54 | 193 | 435 | 452 | 2,669 | 17,862 | 23,398 |
| July | 54 | 129 | 1,090 | 39 | 00 | 4,768 | 6,080 | 9,618 | 7,153 | 56 | 325 | 438 | 509 | 2,749 | 20,848 | 26,928 |
| Aug. | 76 | 578 | 618 | 75 | 109 | 4,116 | 5,572 | 8,894 | 6,444 | 35 | 328 | 392 | 584 | 2,852 | 19,619 | 25,191 |
| Sept. | 158 | 352 | 781 | 61 | 245 | 4,647 | 6,244 | 7,980 | 6,033 | 48 | 310 | 438 | 596 | 2,667 | 18,072 | 24,316 |
| Oct. | 83 | 807 | 826 | 82 | 1 | 4,650 | 6,449 | 8,597 | 5,896 | 64 | 404 | 442 | 607 | 2,555 | 18,565 | 25,014 |
| Nov. | 37 | 552 | 641 | 63 | 142 | 3,790 | 5,225 | 4,897 | 4,720 | 53 | 266 | 411 | 688 | 1,826 | 12,861 | 18,086 |
| Dec. | 91 | 449 | 609 | 88 | 85 | 3,578 | 4,900 | 4,916 | 6,652 | 34 | 181 | 402 | 882 | 1,701 | 14,768 | 19,668 |
| $1970{ }^{5}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan. | 127 | 394 | 1,070 | 182 | 203 | 4,830 | 6,806 | 5,011 | 8,060 | 57 | 232 | 548 | 1,094 | 2,238 | 17,240 | 24,046 |
| Feb. | 43 | 449 | 673 | 168 | 138 | 3,006 | 4,477 | 5,050 | 6,783 | 48 | 148 | 347 | 836 | 2,006 | 15,218 | 19,695 |
| Mar. | 265 | 954 | 1,348 | 102 | 450 | 4,842 | 7,961 | 5,852 | 7,274 | 34 | 189 | 488 | 1,299 | 2,207 | 17,343 | 25,304 |
| Apr. | 373 | 898 | 1,220 | 231 | 363 | 4,701 | 7,786 | 6,104 | 6,378 | 27 | 226 | 502 | 1,309 | 2,366 | 16,912 | 24,698 |
| May | 275 | 1,001 | 838 | 197 | 488 | 4,352 | 7,151 | 7,261 | 6,322 | 17 | 219 | 431 | 1,307 | 2,197 | 17,754 | 24,905 |
| June | 88 | 1,105 | 1,126 | 269 | 41 | 4,527 | 7,156 | 9,609 | 7,721 | 29 | 376 | 480 | 1,626 | 2,024 | 21,865 | 29,021 |
| July | 143 | 1,002 | 1,073 | 288 | 1 | 4,966 | 7,473 | 10,607 | 8,902 | 24 | 512 | 436 | 1,636 | 2,303 | 24,420 | 31,893 |
| Aug. | 149 | 953 767 | 1,139 | 188 | 103 | 5,274 | 7,806 | 11,113 | 9,225 | 20 | 629 | 425 | 1,541 | 2,745 | 25,698 | 33,504 |
| Sept. | 155 | $\begin{array}{r}767 \\ \hline 129\end{array}$ | 631 573 | 231 | 147 | 4,745 | 6,676 | 9,900 | 8,655 | 16 | 663 | 462 | 1,747 | 2,767 | 24,210 | 30,886 |
| Oct. | 58 | 1,129 | 573 | 218 | 40 | 5,133 | 7,151 | 9,710 | 8,007 | 20 | 730 | 358 | 2,128 | 2,662 | 23,615 | 30,766 |
| Nov. | 104 | 936 | 642 | 215 | 146 | 4,187 | 6,230 | 7,538 | 6,665 | 26 | 512 | 377 | 2,497 | 2,783 | 20,398 | 26,628 |
| Dec. | 10 | 861 | 781 | 280 | 0 | 4,426 | 6,358 | 8,828 | 7,345 | 28 | 347 | 473 | 2,595 | 2,072 | 21,688 | 28,046 |
| $1971{ }^{\text {s }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan. | 43 | 744 | 786 | 430 | 209 | 5,552 | 7,764 | 8,829 | 8,255 | 22 | 257 | 446 | 3,437 | 2,359 | 23,605 | 31,369 |

[^13]Compiled from reports of the Bureau of the Census.

| Year and month | Tops, yarn, thread, and cloth |  |  |  |  |  | Primarily manufactured products |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sliver tops and roving ${ }^{1}$ | Yarns spun | Sewing thread and handwork yarns | Tire cord and tire cord fabric | Cloth woven | Total | Hosiery | Underwear and nightwear | Outerwear | House furnishings | Knit or crocheted fabrics | Narrow fabrics ${ }^{2}$ | Other manufactures ${ }^{3}$ | Total | Grand total |
|  | 1,000 pounds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1965 | 4,809 | 2,451 | 364 | 24,982 | 62,739 | 95,345 | 766 | 2,462 | 4,169 | 4,521 | 5,252 | 2,535 | 14,006 | 33,711 | 129,056 |
| 1966 | 6,384 | 1,481 | 528 | 26,742 | 66,379 | 101,514 | 888 | 2,456 | 4,209 | 6,418 | 5,754 | 3,299 | 15,438 | 38,462 | 139,976 |
| 1967 | 4,500 | 2,141 | 465 | 16,460 | 67,758 | 91,324 | 1,146 | 1,978 | 4,831 | 8,766 | 6,796 | 4,080 | 14,057 | 41,654 | 132,978 |
| 1968 | 5,042 | 2,872 | 540 | 9,794 | 65,372 | 83,620 | 1,303 | 2,111 | 6,316 | 10,406 | 6,683 | 4,543 | 14,012 | 45,374 | 128,994 |
| 1969. | 6,002 | 5,286 | 683 | 9,609 | 69,736 | 91,316 | 1,403 | 2,327 | 8,891 | 10,441 | 9,138 | 4,266 | 18,448 | 54,914 | 146,230 |
| $1970^{4}$ | 5,644 | 5,357 | 1,380 | 8,313 | 67,871 | 88,565 | 1,038 | 2,162 | 9,602 | 12,455 | 12,146 | 4,131 | 17,327 | 58,861 | 147,426 |
| 1969 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January | 265 | 202 | 31 | 611 | 2,650 | 3,759 | 75 | 127 | 552 | 435 | 271 | 197 | 936 | 2,593 | 6,352 |
| February | 369 | 342 | 43 | 655 | 3,986 | 5,395 | 75 | 132 | 684 | 536 | 247 | 238 | 1,172 | 3,084 | 8,479 |
| March | 297 | 606 | 87 | 1,465 | 8,400 | 10,855 | 129 | 299 | 980 | 1,239 | 597 | 479 | 1,969 | 5,692 | 16,547 |
| April | 513 | 519 | 80 | 1,402 | 7,177 | 9,691 | 170 | 205 | 902 | 1,000 | 676 | 392 | 1,922 | 5,267 | 14,958 |
| May | 558 | 309 | 50 | 623 | 7,012 | 8,552 | 111 | 188 | 842 | 745 | 710 | 435 | 1,748 | 4,779 | 13,331 |
| June | 563 | 374 | 51 | 503 | 5,698 | 7,189 | 162 | 143 | 716 | 812 | 756 | 338 | 2,194 | 5,121 | 12,310 |
| July . . | 474 | 282 | 58 | 1,102 | 5,197 | 7,113 | 85 | 168 | 735 | 943 | 672 | 280 | 1,313 | 4,196 | 11,309 |
| August... | 872 | 496 | 66 | 862 | 6,312 | 8,608 | 105 | 235 | 753 | 1,172 | 798 | 439 | 2,101 | 5,603 | 14,211 |
| September | 720 | 483 | 50 | 783 | 5,082 | 7,118 | 116 | 203 | 652 | 756 | 674 | 353 | 1,073 | 3,827 | 10,945 |
| October . . | 424 | 495 | 64 | 846 | 6,855 | 8,684 | 123 | 261 | 813 | 1,003 | 1,215 | 409 | 1,701 | 5,525 | 14,209 |
| November | 493 | 640 | 58 | 431 | 5,560 | 7,182 | 139 | 207 | 674 | 971 | 1,310 | 472 | 1,216 | 4,989 | 12,171 |
| December | 453 | 539 | 46 | 325 | 5,673 | 7,036 | 113 | 161 | 588 | 830 | 1,214 | 235 | 1,175 | 4,316 | 11,352 |
| $1970{ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January . | 623 | 553 | 87 | 739 | 4,832 | 6,834 | 110 | 159 | 571 | 1,184 | 1,069 | 313 | 1,580 | 4,986 | 11,820 |
| February | 400 | 439 | 38 | 408 | 6,039 | 7,324 | 117 | 232 | 695 | 1,141 | 1,026 | 277 | 1,353 | 4,841 | 12,165 |
| March | 503 | 544 | 81 | 651 | 6,604 | 8,383 | 120 | 168 | 773 | 1,077 | 1,108 | 341 | 1,453 | 5,040 | 13,423 |
| April | 471 | 476 | 43 | 639 | 5,988 | 7,617 | 91 | 194 | 869 | 1,181 | 920 | 278 | 1,689 | 5,222 | 12,839 |
| May. | 431 | 528 | 161 | 684 | 5,790 | 7,594 | 58 | 193 | 819 | 957 | 926 | 428 | 1,531 | 4,912 | 12,506 |
| June | 397 573 | 455 357 | 333 334 | 550 | 6,277 | 8,012 | 70 | 175 | 862 | 921 | 1,096 | 333 | 1,593 | 5,050 | 13,062 |
| August | 544 | 334 | $\begin{array}{r}70 \\ \hline\end{array}$ | 792 | 4,581 | 6,460 6,394 | 72 99 | 149 | 775 862 | 894 1,570 | 720 | 287 | 1,348 1,301 | 4,245 5,307 | 10,705 |
| September | 228 | 248 | 72 | 760 | 5,505 | 6,813 | 80 | 158 | 860 | 1,570 935 | 953 | 429 | 1,301 1,080 | 5,307 4,495 | 11,701 11,308 |
| October . | 644 | 357 | 81 | 1,375 | 5,986 | 8,443 | 83 | 204 | 862 | 896 | 1,223 | 456 | 1,516 | 5,240 | 13,683 |
| November | 421 | 482 | 47 | 542 | 6,131 | 7,623 | 70 | 205 | 874 | 808 | 1,144 | 300 | 1,417 | 4,818 | 12,441 |
| December | 409 | 584 | 33 | 558 | 5,484 | 7,068 | 68 | 114 | 780 | 891 | 1,104 | 282 | 1,466 | 4,705 | 11,773 |
| $1971{ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January | 481 | 608 | 40 | 654 | 5,527 | 7,310 | 36 | 118 | 727 | 903 | 1,148 | 429 | 1,624 | 4,985 | 12,295 |

${ }^{1}$ Includes products made from waste. ${ }^{2}$ Includes ribbons, trimmings, and braids (except hat braids). ${ }^{3}$ Not elsewhere classified. ${ }^{4}$ Preliminary. Compiled from reports of the Bureau of the Census.

Table 19.-Textile fabrics: Deliveries to U.S. military forces, raw fiber content, by major fiber, by months 1969 to date

| Year and month | Cotton |  |  |  |  |  | Wool |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ```100 percent cotton fabric``` | Cotton and man-made fiber mixtures |  |  | To |  | 100 percent wool fabric | Wool and man-made fiber mixtures |  |  | Total |
|  |  |  | ent <br> re <br> n | Less than 50 percent cotton |  |  |  | 50 perce or mor wool | $\begin{aligned} & \text { Les } \\ & 50 \mathrm{p} \\ & w \end{aligned}$ |  |  |
|  | 1,000 pounds |  |  |  |  |  |  |  |  |  |  |
| 1969 |  |  |  |  |  |  |  |  |  |  |  |
| January | 4,365 |  |  | 48 |  |  | 239 | 0 |  |  | 239 |
| February | 6,028 |  |  | 67 |  |  | 312 | 0 |  |  | 326 |
| March . | 7,366 |  |  | 82 |  |  | 487 | 0 |  |  | 497 |
| April | 6,639 |  |  | 80 |  |  | 368 | 0 |  |  | 385 |
| May. | 8,299 |  |  | 59 | 8,4 |  | 183 | 0 |  |  | 248 |
| June | 7,016 |  |  | 80 |  |  | 121 | 0 |  |  | 207 |
| Auly | 2,884 |  |  | 73 42 | 2,9 |  | 204 448 | 0 0 |  |  | 253 455 |
| September | 2,109 |  |  | 38 |  |  | 792 | 0 |  |  | 455 809 |
| October. | 3,285 |  |  | 70 |  |  | 1,064 | 0 |  |  | 1,098 |
| November | 3,409 |  |  | 105 |  |  | 1,062 | 0 |  |  | 1,096 |
| December | 4,223 |  |  | 127 |  |  | 1,646 | 0 |  |  | 1,096 |
| Total | 57,833 |  |  | 871 | 60,6 |  | 6,926 | 0 |  |  | 7,293 |
| 1970 |  |  |  |  |  |  |  |  |  |  |  |
| January | 4,739 |  |  | 156 |  |  | 1,591 | 0 |  |  | 1,824 |
| February | 4,846 |  |  | 46 |  |  | , 985 | 0 |  |  | 1,168 |
| March . | 4,063 |  |  | 100 |  |  | 1,131 | 0 |  |  | 1,308 |
| April | 2,870 |  |  | 70 |  |  | 998 | 0 |  |  | 1,294 |
| May | 2,710 |  |  | 32 |  |  | 588 | 0 |  |  | - 699 |
| June | 2,270 |  |  | 37 |  |  | 655 | 5 |  |  | 801 |
| July . | 801 |  |  | 24 |  |  | 643 | 0 |  |  | 752 |
| August .- | 866 |  |  | 0 |  |  | 313 | 0 |  |  | 355 |
| September | 510 408 |  |  | 0 |  |  | 227 | 0 0 |  |  | 292 257 |
| November | 320 |  |  | 0 |  |  | 106 | 0 |  |  | 174 |
| December | 275 |  |  | 0 |  |  | 31 | 0 |  |  | 9 |
| Total | 24,678 |  |  | 465 | 28,6 |  | 7,484 | 5 | 1,444 |  | 8,933 |
| $\begin{aligned} & 1971 \\ & \text { January } \end{aligned}$ | 117 | 349 |  | 0466 |  |  | -4 | 0 |  |  | 9 |
|  | Man-made |  |  |  |  |  |  |  |  |  |  |
|  | Cellulosic |  |  | Non-cellulosic |  |  | Total |  |  | Glass | Total all fibers |
|  | Filament yarn | Staple fiber | Total | Filament yarn | Staple fiber | Total | Filament yarn | Staple fiber | Total |  |  |
|  | 1,000 pounds |  |  |  |  |  |  |  |  |  |  |
| 1969 |  |  |  |  |  |  |  |  |  |  |  |
| January | 0 | 0 | 0 | 1,278 | 166 | 1,444 | 1,278 | 166 | 1,444 | 41 | 6,332 |
| February | 0 | 0 | 0 | , 689 | 241 | 1930 | - 689 | 241 | -930 | 0 | 7,600 |
| March .. | 1 | 0 | 1 | 1,105 | 126 | 1,231 | 1,106 | 126 | 1,232 | 24 | 9,267 |
| April | 0 | 0 | 0 | - 987 | 179 | 1,166 | - 987 | 179 | 1,166 | 64 | 8,451 |
| May | 0 | 0 | 0 | 491 | 171 | 1.662 | 2491 | 171 | , 662 | -1 | 9,324 |
| June | 1 | 0 | 1 | 1,031 | 391 | 1,422 | 1,032 | 391 | 1,423 | -1 | 8,907 |
| July Aust. . | 0 | 0 | 0 | 509 393 | 201 | 710 483 | 1, 309 393 | 201 | - 710 | 15 | 3,961 3,250 |
| September | 0 | 0 0 | 0 | 393 370 | 90 92 | 483 462 | $\begin{array}{r}393 \\ 370 \\ \hline\end{array}$ | 90 92 | 483 | 16 | 3,250 3,458 |
| October | 15 | 0 | 15 | 450 | 344 | 794 | 465 | 344 | 809 | 2 | 5,519 |
| November | 2 | 2 | 4 | 448 | 460 | 908 | - 450 | 462 | 912 | 6 | 5,879 |
| December | 2 | 0 | 2 | 630 | 496 | 1,126 | - 632 | 496 | 1,128 | 20 | 7,553 |
| Total | 21 | 2 | 23 | 8,381 | 2,957 | 11,338 | 8,402 | 2,959 | 11,361 | 191 | 79,501 |
| 1970 |  |  |  |  |  |  |  |  |  |  |  |
| January |  | 0 |  |  |  | 1,569 | - 842 | 728 | 1,570 | 5 | 8,617 |
| February | 41 | 0 | 41 | 645 | 605 | 1,150 | -686 | 605 | 1,291 | 11 | 7,708 |
| March . | 1 8 8 | 0 | 1 0 | 639 | 612 | 1,251 | -639 | 612 | 1,251 | 10 | 6,954 5,818 |
| April | 8 | 1 | 9 0 | 594 | 754 | 1,348 | - 602 | 755 | 1,357 | $\begin{array}{r}3 \\ 3 \\ \\ \hline\end{array}$ | 5,818 4,455 |
| May June. | 0 | 0 | 1 | 208 | 516 530 | 724 770 | 208 <br> 240 | 516 531 | 724 | 3 0 | 4,152 |
| July | 0 | 1 | 1 | 145 | 504 | 649 | -145 | 505 | 650 | 0 | 2,550 |
| August | 0 | 1 | 1 | 21 | 424 | 445 | - 21 | 425 | 446 | 1 | 2,062 |
| September | 0 | 1 | 1 | 175 | 310 | 485 | 175 | 311 | 486 | 0 | 1,513 |
| October . | 0 | 0 | 0 | -30 | 247 | 217 | -30 | 247 | 217 | 0 | 1,0918 |
| November | 0 | 0 0 | 0 | 3 | 449 | 452 | 3 | 449 | 452 | 0 | 1,365 |
| December. | 0 | 0 | 0 | 2 | 211 | 213 | - 2 | 211 | 213 | 0 | 165 |
| Total | 50 | 5 | 55 | 3,483 | 5,890 | 9,373 | 3,533 | 5,895 | 9,428 | 23 | 47,003 |
| $\begin{aligned} & 1971 \\ & \text { January } \end{aligned}$ | 0 | 0 | 0 | 11 | 338 | 349 | 11 | 338 | 349 | 0 | 824 |

Based on data from the Defense Supply Agency, Department of Defense.
de fiber fabrics: Denverios to U.S. 1969 to date
of fabric, by months, November

${ }^{1}$ January-December.
Based on data from the Defense Supply Agency, Department of Defense.

Table 21.-Wool and fiber mixture fabrics: Deliveries to U.S. military forces,
in equivalent square yards of fabric, November 1969 to date

| Fiber and fabric | 1969 |  |  | 1970 |  |  |  |  |  |  |  |  |  |  |  |  | $\frac{1971}{\text { Jan. }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nov. | Dec. | Tota ${ }^{1}$ | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |  |
| WOOL Thousand square yards | Thousand square yards |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Blanketing | 311 | 1,010 | 1,915 | 876 | 503 | 513 | 245 | 118 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 2,336 | 0 |
| Flannel... | 14 | 0 | 118 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 2, 16 | 0 |
| Gabardıne | 265 | 365 | 1,396 | 165 | 92 | 195 | 539 | 446 | 169 | 365 | 116 | 71 | 0 | 0 | 0 | 2,158 | 0 |
| Melton | 218 | 174 | 1,983 | 176 | 176 | 210 | 137 | 96 | 122 | 127 | 35 | 96 | 105 | 74 | 25 | 1,379 | 0 |
| Serge | 711 | 611 | 4,441 | 895 | 544 | 669 | 554 | 243 | 614 | 522 | 344 | 174 | 223 | 82 | 0 | 4,864 | -6 |
| Tropical | 0 | 0 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| Total wooi | 1,519 | 2,160 | 9,947 | 2,112 | 1,320 | 1,589 | 1,475 | 903 | 986 | 1,014 | 495 | 350 | 328 | 156 | 27 | 10,755 | -6 |
| MIXED FIBER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cotton and cellulosic | 6 | 0 | 7 | 0 | 0 | 0 | 26 | 1 | 7 | 4 | 4 | 3 | 0 |  | 0 | 45 | 0 |
| Cotton and noncellulosic ....... | 1,764 | 2,089 | 13,640 | 2,249 | 1,564 | 1,546 | 1,511 | 1,423 | 1,611 | 1,287 | 1,402 | 803 | 864 | 1,445 | 1,120 | 16,825 | 1,463 |
| Wool and noncelluiosic ....... | 223 | 192 | 1,993 | 1,289 | 978 | 1,010 | 1,764 | 673 | 868 | 692 | 272 | 412 | 252 | 442 | -97 | 8,555 | - 57 |
| Cellulosic and noncellulosic ....... | 20 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total mixed fiber .... | 2,013 | 2,281 | 15,661 | 3,538 | 2,542 | 2,556 | 3,301 | 2,097 | 2,486 | 1,983 | 1,678 | 1,218 | 1,116 | 1,887 | 1,023 | 25,425 | 1,520 |
| COTTON AND NON-CELLULOSIC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Broadcloth | 212 | 236 | 4,339 | 338 | 128 | 425 | 505 | 137 | 361 | 335 | 0 | 0 | 0 | 0 | 0 | 2,229 | 0 |
| Duck | 0 | 0 | 325 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oxford | 338 | 150 | 2,079 | 480 | 223 | 201 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 904 | 0 |
| Poplin | 78 | 279 | 448 | 517 | 298 | 153 | 494 | 560 | 736 | 0 | 0 | 0 | 84 | 0 | 173 | 3,015 | 374 |
| Sateen | 703 | 847 | 3,254 | 206 | 684 | 433 | 348 | 562 | 399 | 828 | 1,003 | 566 | 305 | 720 | 377 | 6,431 | 488 |
| Twill. | 276 | 261 | 998 | 320 | 0 | 255 | 71 | 56 | 10 | 124 | 399 | 237 | 474 | 725 | 570 | 3,241 | 601 |
| Tropical . . . . . . . | 152 | 285 | 1,879 | 343 | 228 | 80 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 741 | 0 |
| Other broadwoven fabrics | 0 | 27 | 298 | 40 | 0 | 0 | 0 | 107 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 253 | 0 |
| Webbing | 4 | 3 | 22 | 4 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| Total cotton and non-cellulosic ... | 1,763 | 2,088 | 13,642 | 2,248 | 1,565 | 1,547 | 1,511 | 1,422 | 1,612 | 1,287 | 1,402 | 803 | 863 | 1,445 | 1,120 | 16,825 | 1,463 |

${ }^{1}$ January-December.
Based on data from the Defense Supply Agency, Department of Defense.

Table 22.-American upland cotton: Carryover, ginnings, supply, disappearance, and CCC inventory, by staple length, 1961-70

| Year begınning August 1 | Shorter than 1 inch |  | 1 inch and $1^{1 / 32}$ inches |  | 1/16 6 inches and over |  | All staple lengths |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Percentage of total | Quantity | Percentage of total | Quantity | Percentage of total | Quantity |
|  | $\begin{aligned} & 1,000 \\ & \text { bales } \end{aligned}$ | Percent | 1,000 <br> bales | Percent | $\begin{aligned} & 1,000 \\ & \text { bales } \end{aligned}$ | Percent | $\begin{aligned} & \text { 1,000 } \\ & \text { bales } \end{aligned}$ |
|  | Carryover |  |  |  |  |  |  |
| 1961 | 598 | 9 | 3,030 | 43 | 3.450 | 48 | 7,078 |
| 1962 | 1,378 | 18 | 2,154 | 28 | 4,193 | 54 | 7,725 |
| 1963 | 2,855 | 26 | 3,189 | 29 | 4,961 | 45 | 11,005 |
| 1964 | 3,686 | 31 | 4,253 | 35 | 4,171 | 34 | 12,110 |
| 1965 | 4,339 | 31 | 4,576 | 33 | 5,103 | 36 | 14,018 |
| 1966 | 5,932 | 36 | 5,791 | 35 | 4,842 | 29 | 16,565 |
| 1967 | 4,921 | 40 | 4,244 | 35 | 3,105 | 25 | 12,270 |
| 1968 | 2.189 | 35 | 1,641 | 26 | 2,416 | 39 | 6,246 |
| 1969 | 821 | 13 | 1,281 | 20 | 4,245 | 67 | 6,347 |
| $1970^{1}$ | 329 | 6 | 1,002 | 18 | 4,278 | 76 | 5,609 |
|  | Ginnings |  |  |  |  |  |  |
| 1961 | 3,854 | 27 | 3,075 | 22 | 7,334 | 51 | 14,263 |
| 1962 | 3,842 | 26 | 3,645 | 25 | 7,267 | 49 | 14,754 |
| 1963 | 3,872 | 26 | 4,199 | 28 | 7,058 | 46 | 15,129 |
| 1964 | 3,439 3,999 | 23 | 4,338 | 29 | 7,255 | 48 | 15,032 |
| 1965 | 3,999 | 27 | 3,555 | 24 | 7,293 | 49 | 14,847 |
| 1966 | 2,556 1,705 | 27 | 1,642 | 17 | 5,293 | 56 | 19,491 |
| 1967 | 1,705 1,635 | 23 15 | 1,109 | 15 | 4,556 | 62 | 7,370 |
| 1969. | 1,684 | 17 | 1,707 1,590 | 16 | 7,496 6,593 | 69 | 10,838 |
| $1970^{1}$ | 1,970 | 20 | 1,528 | 15 | 6,593 6,562 | 65 | 9,867 10,060 |
|  | Supply ${ }^{2}$ |  |  |  |  |  |  |
| 1961 | 4,452 | 21 | 6,105 | 29 | 10,784 | 50 |  |
| 1962 | 5,220 | 23 | 5,799 | 26 | 11,460 | 51 | 22,479 |
| 1963 | 6,729 7,126 | 26 | 7,388 | 28 | 12,017 | 46 | 26,134 |
| 1964 | 7,126 8,338 | 26 29 | 8,591 | 32 | 11,426 | 42 | 27,143 |
| 1966 | 8,488 | 29 33 | 8,131 | 28 | 12,397 | 43 | 28.866 |
| 1967 | 6,626 | 34 | 5,353 | 28 27 | 10,135 7,662 | 39 39 | 26,056 19,641 |
| 1968. | 3,824 | 22 | 3,348 | 20 | 9,913 | 39 58 | 19,641 17,085 |
| $19700^{1}$ | 2,505 | 15 15 | 2,871 | 18 | 10,838 | 67 | 16,214 |
| 1970 | 2,299 | 15 | 2,530 | 16 | 10,840 | 69 | 15,669 |
|  | Disappearance ${ }^{3}$ |  |  |  |  |  |  |
| 1961 | 3,074 | 23 | 3,951 | 29 | 6,591 | 48 | 13,616 |
| 1963 | 2,365 3,042 | 21 | 2,610 | 23 | 6,499 | 56 | 13,616 11,474 |
| 1964 | 3,042 2,786 | 22 | 3,135 | 22 | 7,846 | 56 | 14,023 |
| 1965 | 2,786 2,405 | 21 | 4,015 2,341 | 11 19 | 6,323 7,554 | 48 | 13,124 |
| 1966 | 2,405 | 20 26 | 2,341 3,189 | 19 23 | 7,554 7,030 | 61 | 12,300 |
| 1967 | 4,436 | 33 | 3,189 3,712 | 23 28 | 7,030 | 51 39 | 13,786 13,394 |
| 1969 | 3,003 | 28 | 2,067 | 19 | 5,667 | 53 | 10,737 |
|  | 2,176 | 20 | 1,869 | 18 | 6,560 | 62 | 10,605 |
|  | cCC Inventory |  |  |  |  |  |  |
| 1961 | $3^{3}$ ( ${ }^{4}$ ) |  | 211 |  | 1,232 | 85 | 1,446 |
| 1963 | $\begin{array}{r} 678 \\ 2,300 \end{array}$ | 14 | 1,127 24 |  | 2,883 | 62 | 1,4888 |
| 1964 |  | 19 | 1,970 24 |  | 3,746 | 47 | 8,017 |
| 1965 | $\begin{aligned} & 2,300 \\ & 3,362 \end{aligned}$ | 33 | 3,099 30 |  | 3,771 | 37 | 10,232 |
| 1966 | 3,904 | $34$ | 4,033 36 |  | 3,460 | 30 | 11,397 |
| 1967 |  | 40 | 4,513 37 |  | 2,750 | 23 | 12,077 |
| 1968 | 3,900 | 70 | 1,390 | 25 25 | 310 37 | 5 | 5,600 |
| $1970^{\circ}$ | 93 | $\left({ }^{4}\right)^{3}$ | 466 | 17 | 2,240 | 64 80 | 57 2,799 |
|  | 2 |  | 129 | 4 | 2,826 | 96 | 2,799 2,937 |

[^14]Compled from reports of Consumer and Marketing Service and Agricultural Stabilization and Conservation Service.

Table 23.-Commodity Credit Corporation stocks of cotton, United States, August 1, 1969 - July 31, 1970

|  | Date | Total | Upland |  |  | Extra-long staple ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Owned ${ }^{2}$ | Under Ioan | Total | Owned ${ }^{3}$ | Under loan | Total |
|  |  | 1,000 bales |  |  |  |  |  |  |
| 1969 |  |  |  |  |  |  |  |  |
| August | 1 | 2,911 | 2,799 | $\cdots$ | 2,799 | 112 | --- | 112 |
| August | 8 | 2,911 | 2,799 | ... | 2,799 | 112 | --- | 112 |
| August | 15 | 2,911 | 2,799 | --- | 2,799 | 112 | --- | 112 |
| August | 22 | 2,911 | 2,799 | 6 | 2,805 | 106 | --- | 106 |
| August | 29 | 2,931 | 2,793 | 39 | 2.832 | 99 | --- | 99 |
| September | 5 | 2,936 | 2,786 | 56 | 2,842 | 94 | --- | 94 |
| September | 12 | 3,035 | 2,786 | 65 | 2,943 | 92 | -.. | 92 |
| September | 19 | 2,938 | 2,775 | 72 | 2,847 | 91 | --* | 91 |
| September | 26 | 2,941 | 2,775 | 77 | 2,852 | 89 | --- | 89 |
| October | 3 | 2,881 | 2,700 | 94 | 2,794 | 87 | --- | 87 |
| October | 10 | 2,910 | 2,700 | 123 | 2,823 | 87 | --- | 87 |
| October | 17 | 2,939 | 2,653 | 200 | 2,853 | 86 | --- | 86 |
| October | 24 | 3,056 | 2,653 | 318 | 2,971 | 85 | $\binom{4}{4}$ | 85 |
| October | 31 | 3,162 | 2,558 | 519 | 3,077 | 85 | $\left({ }^{4}\right)$ | 85 |
| November | 7 | 3,374 | 2,558 | 730 | 3,288 | 85 | 1 | 86 |
| November | 14 | 3,422 | 2,333 | 1,004 | 3,337 | 83 | 2 | 85 |
| November | 21 | 3,736 | 2,333 | 1,317 | 3.650 | 83 | 3 | 86 |
| November | 28 | 3,859 | 2,237 | 1,534 | 3,771 | 83 | 5 | 88 |
| December | 5 | 4,078 | 2,237 | 1,749 | 3,986 | 83 | 9 | 92 |
| December | 12 | 4,215 | 2,142 | 1,982 | 4,124 | 82 | 9 | 91 |
| December | 19 | 4,421 | 2,142 | 2,188 | 4,330 | 82 | 9 | 91 |
| December | 26 | 4,509 | 2,112 | 2,306 | 4,418 | 81 | 10 | 91 |
| 1970 |  |  |  |  |  |  |  |  |
| January | 2 | 4,590 | 2,112 | 2,387 | 4,499 | 81 | 10 | 91 |
| January | 9 | 4,998 | 2,105 | 2,799 | 4,904 | 78 | 16 | 94 |
| January | 16 | 5,179 | 2,105 | 2,983 | 5,088 | 72 | 19 | 91 |
| January | 23 | 5,229 | 2,101 | 3,035 | 5,136 | 71 | 22 | 93 |
| January | 30 | 5,240 | 3,101 | 3,045 | 5,146 | 71 | 23 | 94 |
| February | 6 | 5,236 | 2,086 | 3,055 | 5,141 | 71 | 24 | 95 |
| February | 13 | 5,222 | 2,086 | 3,040 | 5,126 | 71 | 25 | 96 |
| February | 20 | 5,158 | 2,063 | 2,997 | 5,060 | 71 | 27 | 98 |
| February | 27 | 5,095 | 2,063 | 2,934 | 4,997 | 71 | 27 | 98 |
| March | 6 | 5,049 | 2,045 | 2,905 | 4,950 | 71 | 28 | 99 |
| March | 13 | 4,996 | 2,045 | 2,853 | 4,898 | 71 | 27 | 98 |
| March | 20 | 4,885 | 2,019 | 2,769 | 4,788 | 71 | 26 | 97 |
| March | 27 | 4,815 | 2,019 | 2,700 | 4,719 | 71 | 25 | 96 |
| April | 3 | 4,742 | 1,999 | 2,647 | 4,646 | 71 | 25 | 96 |
| April | 10. | 4,673 | 1,999 | 2,579 | 4,578 | 71 | 24 | 95 |
| April | 17 | 4,606 | 1,994 | 2,517 | 4,511 | 72 | 23 | 95 |
| April | 24 | 4,522 | 1,994 | 2,435 | 4,429 | 72 | 21 | 93 |
| May | 1 | 4,434 | 1,980 | 2,362 | 4,342 | 72 | 20 | 92 |
| May | 8 | 4,313 | 1,980 | 2,243 | 4,223 | 72 | 18 | 90 |
| May | 15 | 4,215 | 1,968 | 2,158 | 4,126 | 72 | 17 | 89 |
| May | 22 | 4,137 | 1,968 | 2,081 | 4,049 | 72 | 16 | 88 |
| May | 29 | 4,045 | 1,954 | 2,003 | 3,957 | 72 | 16 | 88 |
| June | 5 | 3,962 | 1,954 | 1,921 | 3,875 | 72 | 15 | 87 |
| June | 12 | 3,817 | 1,928 | 1,803 | 3,731 | 72 | 14 | 86 |
| June | 19 | 3,711 | 1,928 | 1,700 | 3,628 | 71 | 12 | 83 |
| June | 26 | 3,624 | 1,906 | 1,638 | 3,544 | 71 | 9 | 80 |
| July | 3 | 3,562 | 1,906 | 1,576 | 3,482 | 71 | 9 | 80 |
| July | 10 | 3,472 | 1,895 | 1,498 | 3,393 | 71 | 8 | 79 |
| July | 17 | 3,404 | 1,895 | 1,430 | 3,325 | 71 | 8 | 79 |
| July | 24. | 3,316 | 1,895 | 1,343 | 3,238 | 71 | 7 | 78 |
| July | $31^{5}$ | 3,030 | 1,890 | 1,067 | 2,957 | 71 | 2 | 73 |

${ }^{1}$ Includes American-Egyptian and Sea island. ${ }^{2}$ Excludes cotton sold September 9 to date for delivery in the 1969 marketing Year. ${ }^{3}$ Includes American-Egyptian cotton transferred to CCC
from the national stockpile. ${ }^{4}$ Less than 500 bates. ${ }^{5}$ Prelıminary.
Agricultural Stabilization and Conservation Service.

Table 24.-Cotton: American Middling White, spot prices in designated U.S. markets, loan rates, and prices received by farmers for upland cotton, August 1967 to date

${ }^{1}$ Excludes domestic allotment payments, price support and readings of 3.5 through 4.9. ${ }^{4}$ Average of the crop. ${ }^{5}$ Average of
diversion payments. ${ }^{2}$ Weighted average. ${ }^{3}$ Spot market loan rates exclude 14 -point premium in 1965, 20 -point premium in 1966, 30 -point premium in 1967,35 -point premium in 1968, micren-point premium in 1969 and 1970 for 3.5-4.9 micronaires. Spot prices are for cotton with micronaire
six markets, October 1968 to date. ${ }^{6}$ Average price to Dec. 1 , 1970.

Agricultural Stabilization and Conservation Service, Consumer and Marketing Service, and Statistical Reporting Service.

Table 25.-Cotton: Acreage, yield, and production in specified countries,
average 1964-68, annual 1969 and $1970^{1}$

| Continent and country | Acreage |  |  | Yield |  |  | Production ${ }^{2}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average $1964-68$ | 1969 | $1970^{3}$ | Average $1964-68$ | 1969 | $1970^{3}$ | Average 1964-68 | 1969 | $1970^{3}$ |
|  | $\begin{aligned} & 1,000 \\ & \text { acres } \end{aligned}$ | $1,000$ acres | $\begin{aligned} & 1,000 \\ & \text { acres } \end{aligned}$ | Pounds peracre | Pounds per acre | Pounds per acre | $\begin{aligned} & 1,000 \\ & \text { bales } \end{aligned}$ | $1,000$ bales | $\begin{gathered} 1,000 \\ \text { bales } \end{gathered}$ |
| NORTH AMERICA: United States | 11,076 | 11,058 | 11,168 | 504 | 434 | 441 | 11,641 | 10,009 |  |
| Costa Rica. | 117 | 11,058 | 11,168 | 508 | 222 | 576 | 11,6418 | 10,009 | 10,27] |
| El Salvador | 164 | 122 | 145 | 673 | 818 | 745 | 230 | 208 | ${ }^{6}$ |
| Guatermala | 233 | 182 | 175 | 702 | 633 | 658 | 341 | 240 | 240 |
| Honduras | r 33 | 1,340 | 10 100 | 625 | 600 | 672 | + 43 | $1{ }^{15}$ | 14 |
| Micaragua | 1,822 348 | 1,340 240 | 1,100 215 | 618 674 | 627 620 | 676 | 2,345 489 | 1,750 310 | 1,550 |
| Tota ${ }^{4}$ | 13,797 | 13,072 | 12,923 | 526 | 461 | 469 | 15,129 | 12,560 | 12,617 |
| SOUTH AMERICA: |  |  |  |  |  |  |  |  |  |
| Argentina | 986 | 1,100 | 1,000 | 235 | 279 | 264 | 483 | 640 | 550 |
| Brazil | 5,670 | 6,800 | 6,000 | 215 | 219 | 176 | 2,540 | 3,100 | 2,200 |
| Colombia | 437 | 635 | 600 | 462 | 405 | 400 | 421 | 590 | - 500 |
| Ecuador | 54 130 | 30 125 | 50 125 | 228 | 320 | 336 | 26 | 20 | 35 |
| Paraguay | 130 550 | 125 420 | 125 | 185 | 288 446 | 288 468 | 51 | 75 390 | 75 |
| Venezuela | 118 | 120 | 120 | 264 | 280 | 280 | 65 | 390 | 400 70 |
| Total ${ }^{4}$ | 7,962 | 9,313 | 8,323 | 247 | 254 | 222 | 4,10 | 4,901 | 3,846 |
| EUROPE: |  |  |  |  |  |  |  |  |  |
| Bulgaria | 117 | 115 | 115 | 295 | 313 | 313 | 72 | 75 | 75 |
| Greece | 342 | 375 | 330 | 514 | 653 | 640 | 366 | 510 | 440 |
| Italy | 29 | 20 | 20 | 248 | 192 | 192 | 15 | 8 | 8 |
| Spaın | 444 | 340 | 240 | 385 | 374 | 480 | 356 | 265 | 240 |
| Yugoslavia | 24 | 28 | 30 | 240 | 240 | 224 | 12 | 14 | 14 |
| Total ${ }^{4}$ | 1,016 | 938 | 795 | 398 | 460 | 481 | 843 | 892 | 797 |
| U.S.S.R. (Europe and Asia): . . . | 6,060 | 6.300 | 6,500 | 711 | 678 | 798 | 8,980 | 8,900 | 10,800 |
| AFRICA: |  |  |  |  |  |  |  |  |  |
| Angola . | 98 | 135 | 135 | 201 | 320 | 320 | 41 | 90 | 90 |
| Cameroon... Central Africa | 205 | 265 | 225 | 199 | 254 | 128 | 85 | 140 | 60 |
| Republic | 275 | 300 | 300 | 106 | 136 | 144 | 61 | 85 | 90 |
| Chad | 737 | 750 | 750 | 119 | 128 | 112 | 182 | 200 | 175 |
| Kenya | 154 | 150 | 150 | 56 | 58 | 58 | 18 | 18 | 18 |
| Malawi | 76 | 85 | 85 | 145 | 198 | 198 | 23 | 35 | 35 |
| Morocco. | 43 | 45 | 50 | 368 | 267 | 288 | 33 | 25 | 30 |
| Mozambique | 906 | 800 | 800 | 96 | 120 | 120 | 181 | 200 | 200 |
| Nigeria | 840 | 1,000 | 1,000 | 117 | 192 | 96 | 204 | 400 | 200 |
| Rhodesta | 103 | 250 | 250 | 377 | 461 | 461 | 81 | 240 | 240 |
| South Africa, Republic of | 90 | 110 | 110 | 421 | 327 | 436 | 79 | 75 | 100 |
| Sudan | 1,161 | 1,300 | 1,325 | 355 | 369 | 362 | 858 | 1,000 | 1,000 |
| Tanzania | 495 | 500 | 500 | 286 | 312 | 350 | 295 | - 325 | 365 |
| Uganda - Anited Arab Repubilc | 2,125 | 2,000 | 2,000 | 78 | 794 | 91 | 345 | 390 | 380 |
| United Arab Republic | 1,756 | 1,680 | 1,650 | 591 | 714 | 640 | 2,161 | 2,500 | 2,200 |
| Total ${ }^{4}$ | 9,865 | 10,386 | 10,376 | 239 | 285 | 259 | 4,906 | 6,156 | 5,601 |
| ASIA AND |  |  |  |  |  |  |  |  |  |
| OCEANIA: |  |  |  |  |  |  |  |  |  |
| Afghanistan | 310 | 300 | 300 | 175 | 160 | 160 | 113 | 100 | 100 |
| Australia | 57 | 78 | 80 | 876 | 751 | 960 | 104 | 122 | 160 |
| Burma | 500 | 350 | 350 | 69 | 69 | 69 | 72 | 50 | 50 |
| China, Mainland | 12,080 | 12,300 | 12,500 | 261 | 265 | 265 | 6,580 | 6,800 | 6,900 |
| India. | 19,706 890 | 19,400 940 | 19.400 | 118 314 | 126 363 | 114 | 4,860 | 5,100 | 4,700 640 |
| Iraq | 75 | 75 | 75 | 269 | 288 | 288 | 482 | 715 | 45 |
| Srael | 55 | 82 | 85 | 986 | 1,077 | 875 | 113 | 184 | 155 |
| Korea, Republic of | 48 | 45 | 45 | 190 | - 213 | 213 | 119 | 20 | 20 |
| Pakistan Southern Yemen | 4,059 | 4,345 | 4,400 | 250 | 273 | 273 | 2,116 | 2,475 | 2,500 |
| Southern Yemen | 45 | 70 | 40 | 203 | 240 | 240 | 19 | 20 | 700 |
| Syria ${ }^{\text {Thailand }}$ | 662 | 700 150 | 675 55 | 518 | 470 | 498 | 714 | 685 | 700 |
| Turkey. | 1,733 | 1,575 1,50 | 1,350 | 255 474 | 256 559 | 645 | 118 1,710 | 80 1,835 | 1,815 |
| Total ${ }^{4}$ | 40,498 | 40,417 | 40,180 | 203 | 215 | 212 | 17,104 | 18,154 | 17,735 |
| World Total ${ }^{4} \ldots \ldots .$. | 79,255 |  | 79,177 | 310 | 308 | 312 |  | 51,685 | 51,496 23,408 |
| Foreign Free Worla ${ }^{4}$ | 49,778 | 50,586 | 48,749 | 230 | 245 | 230 | 23,853 | 25,858 | $23,408$ |
| Communist countries ${ }^{4}$ | 18,401 | 18,860 | 19,260 | 409 | 403 | 444 | 15,677 | 15,818 | 17,818 |

[^15]Foreign Agricultural Service. Prepared or estimated on the basts of official statistics of foreign governments, other forelgn som materials, reports of U.S. Agricultural Attaches and Forelgn Service Officers, results of office research and related information. February 1971.

Table 26.-Cotton: Exports by staple length and by countries of destinations, United States,
6.-Cotton: Exports by staple length and by countries of destinations,
December 1970, January 1971, and cumulative totals since August 1, 1970

| $\begin{aligned} & \text { Country } \\ & \text { of } \\ & \text { destination } \end{aligned}$ | December 1970 |  |  |  | January 1971 |  |  |  | Cumulative totals since Aug. 1, 1970 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1-1/8 inches and over | $\begin{gathered} 1 \text { inch } \\ \text { to } \\ 1-1 / 8 \\ \text { inches } \end{gathered}$ | Under 1 inch | Total | 1-1/8 inches and over ${ }^{1}$ | $\begin{gathered} 1 \text { inch } \\ \text { to } \\ 1-1 / 8 \\ \text { inches } \end{gathered}$ | Under 1 inch | Total | 1-1/8 inches and over ${ }^{1}$ | $\begin{aligned} & 1 \text { inch } \\ & \text { to } \\ & 1-1 / 8 \\ & \text { inches } \end{aligned}$ | Under 1 inch | Total |
|  | Running bales |  |  |  |  |  |  |  |  |  |  |  |
| Europe |  |  |  |  |  |  |  |  |  |  |  |  |
| United Kingdom | 125 | 5,923 | 0 | 6,048 | 400 | 6,155 | 1,652 | 8,207 | 875 | 30,532 | 2,152 | 33,559 |
| Belgium and Luxembourg . | 5,079 | 4,609 | 857 | 10,545 | 850 | 3,327 | 418 | 4,595 | 7,679 | 13,053 | 1,375 | 22,107 |
| Denmark | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,67 | - 5 | 1,30 | 5 |
| Ireland (Eire) | 0 | 0 | 0 | 0 | 0 | 2,150 | 0 | 2,150 | 0 | 3,149 | 0 | 3,149 |
| Finland . . . | 0 | 200 | 0 | 200 | ${ }^{0}$ | 0 | 0 | 0 | 0 | 200 | 0 | 200 |
| France . . | 448 | 2,009 | 142 | 2,599 | 1,457 | 6,627 | 222 | 8,306 | 3,500 | 11,715 | 432 | 15,647 |
| Germany (West) | 1,157 | 2,902 | 108 | 4,167 | 1,818 | 7,904 | 0 | 9,722 | 6,075 | 25,127 | 130 | 31,332 |
| Italy . . . . . . | 3 | 4,187 | 30 | 4,220 | 753 | 8,982 | 1,439 | 11,174 | 756 | 21,635 | 1,545 | 23,936 |
| Netherlands | 1,755 | 1,030 | 0 | 2,785 | 1,484 | 4,652 | 0 | 6,136 | 5,476 | 8,569 | 0 | 14,045 |
| Norway | 0 | 199 | 0 | 199 | 0 | 100 | 102 | 202 | 0 | 299 | 102 | 401 |
| Portugal | 0 | 10 | 0 | 10 | 0 | 230 | 0 | 230 | 0 | 240 | 0 | 240 |
| Spain .. | 0 | 1,003 | 0 | 1,003 | 119 | 3,815 | 0 | 3,934 | 169 | 4,868 | 0 | 5,037 |
| Sweden | 0 | 3,646 | 815 | 4,461 | 100 | 2,470 | 269 | 2,839 | 490 | 10,071 | 1,834 | 12,395 |
| Switzerland | 4,411 | 3,393 | 0 | 7,804 | 840 | 3,917 | 1,286 | 6,043 | 7,112 | 12,269 | 1,486 | 20,867 |
| Other | 0 | 653 | 97 | 750 | 0 | 26,245 | 103 | 26,348 | 0 | 26,898 | 200 | 27,098 |
| Total Europe | 12,978 | 29,764 | 2,049 | 44,791 | 7,821 | 76,574 | 5,491 | 89,886 | 32,132 | 168,630 | 9,256 | 210,018 |
| Other Countries |  |  |  |  |  |  |  |  |  |  |  |  |
| Canada . . . | 1,632 | 17,948 | 5,010 | 24,590 | 2,529 | 20,712 | 6,919 | 30,160 | 8,998 | 87,098 | 32,493 | 128,589 |
| Colombia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 881 | 0 | 891 |
| Chile | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 22 |
| India | 407 | 280 | 0 | 687 | 11,727 | 11,781 | 0 | 23,508 | 16,636 | 13,188 | 0 | 29,824 |
| Pakistan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indonesia | 510 | 25,866 | 9,485 | 35,861 | 0 | 1,321 | 445 | 1,766 | 1,415 | 58,424 | 11,019 | 70,858 |
| Korea | 1,935 | 37,905 | 18,360 | 58,200 | 814 | 29,627 | 13,338 | 43,779 | 5,648 | 154,718 | 66,309 | 226,675 |
| Hong Kong | 359 | 3,144 | 10,350 | 13,853 | 204 | 3,825 | 25,955 | 29,984 | 1,074 | 8,846 | 51,844 | 61,764 |
| Taiwan . | 204 | 10,515 | 4,599 | 15,318 | 399 | 12,076 | 6,694 | 19,169 | 1,903 | 39,940 | 22,612 | 64,455 |
| Japan. | 824 | 71,280 | 52,590 | 124,694 | 404 | 73,094 | 58,429 | 131,927 | 2,182 | 219,565 | 175,673 | 397,420 |
| Australia | 0 | 0 | 0 | 0 | 0 | 124 | 0 | 124 | 0 | 124 | 0 | 124 |
| Morocco | 0 | 6,264 | 0 | 6,264 | 0 | 2,622 | 0 | 2,622 | 0 | 11,076 | 52 | 11,128 |
| Republic of |  |  |  |  |  |  |  |  |  |  |  |  |
| South Africa Other | 418 | ${ }_{25} 34$ | 31 8. | 793 | - ${ }^{\circ}$ | 3,221 | $\begin{array}{r} 801 \\ \hline \end{array}$ | 4,022 | 418 | 5,086 | 2,044 | 7,548 |
| Other . . . | 4,030 | 25,005 | 8,019 | 37,054 | 11,775 | 35,392 | 17,074 | 64,241 | 21,952 | 140,651 | 36,678 | 199,281 |
| World Total | 23,297 | 228,315 | 110,493 | 362,105 | 35,673 | 270,369 | 135,146 | 441,188 | 92,368 | 908,249 | 407,980 | 1,408,597 |

${ }^{1}$ Includes American Pima and Sea Island Cotton.
Bureau of the Census.

Table 27.-Cotton: Average prices ${ }^{1}$ of selected growths and qualities, c.i.f. Liverpool, England,
1968-70, and January 1970 to date

| Year and month | M I'" |  | SM 1/16'' |  |  |  |  |  |  | SM1 1 //8" |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U.S. | $\begin{gathered} \text { Pakistan } \\ 289 \mathrm{~F} \end{gathered}$ | U.S. | Mexico | Nicaragua | Syria | $\begin{gathered} \text { U.S.S.R. } \\ \text { Pervy1 } \\ 31 / 32 \\ \mathrm{~mm} . \end{gathered}$ | Iran | Turkey (Izmir) | U.S. | Uganda BP 52 |
|  | Equivalent U.S. cents per pound |  |  |  |  |  |  |  |  |  |  |
| 1968 | 28.22 | 28.28 | 33.07 | 30.89 | 29.40 | 32.29 | 32.22 | 32.00 | 31.14 | 34.85 | 37.74 |
| 1969 | 25.53 | 27.15 | 28.47 | 28.45 | 26.70 | ${ }_{2}^{2} 20.21$ | 29.39 | 28.52 | 27.88 | 29.97 | 33.55 |
| 1970 | 27.46 | 29.61 | 29.67 | 30.71 | 28.45 | ${ }^{2} 29.26$ | 32.47 | 29.22 | 28.35 | 31.32 | 33.15 |
| 1970 |  |  |  |  |  |  |  |  |  |  |  |
| January | 26.50 | 27.89 | 28.75 | 29.65 | 27.52 | ${ }_{2}^{2} 28.60$ | 31.58 | 28.50 | 27.50 | 30.25 | 31.55 |
| February | 26.62 | 29.55 | 28.81 | 29.56 | 27.20 | ${ }_{2}^{2} 28.60$ | 31.15 | 28.62 | 27.50 | 30.31 | 32.06 |
| March | 27.00 | 29.55 | 29.00 | 29.80 | 27.45 | ${ }_{2}^{2} 28.75$ | 32.15 | 28.75 | 27.40 | 30.50 | 32.25 |
| April | 27.31 | 29.75 | 29.31 | 30.02 | 27.90 | ${ }_{2}^{2} 28.88$ | 31.99 | 28.75 | 27.78 | 30.81 | 32.25 |
| May | 27.40 | 29.44 | 29.40 | 30.14 | 27.81 | ${ }_{2}^{2} 28.81$ | 31.75 | 28.75 | 28.32 | 30.90 | 32.62 |
| June | 26.95 | 29.75 | 29.45 | 30.21 | 27.75 | ${ }_{2} 28.88$ | 31.44 | 28.75 | 28.14 | 31.20 | 32.75 |
| July | 27.06 | 29.40 | 29.70 | 30.49 | 27.92 | ${ }_{2} 29.00$ | 31.53 | 28.80 | 27.94 | 31.50 | 33.60 |
| August | 27.31 | 28.84 | 29.75 | 30.96 | 28.20 | ${ }_{2}^{2} 29.15$ | ${ }^{3} 33.75$ | 29.25 | 28.06 | 31.50 | 32.69 |
| September | 28.16 | 29.00 | 30.26 | 31.38 | 29.15 | ${ }^{2} 29.44$ | 33.75 | 29.25 | 28.62 | 32.01 | 34.20 |
| October | 28.60 | 29.76 | 30.70 | 31.64 | 29.66 | 29.77 | 34.00 | 29.54 | 28.87 | 32.45 | 34.50 |
| November | 28.82 | 30.85 | 30.58 | 32.16 | 30.38 | 30.48 | 33.50 | 30.31 | 29.36 | 32.28 | 34.31 |
| December | 27.83 | 31.40 | 30.39 | 32.50 | 30.50 | 30.80 | 33.00 | 31.17 | 30.75 | 32.09 | 35.00 |
| 1971 |  |  |  |  |  |  |  |  |  |  |  |
| January ${ }^{\text {² }}$ | 28.85 | 31.57 | 30.95 | 33.00 | 30.50 | 30.80 | 32.92 | 32.05 | 30.92 | 32.75 | 35.42 |
| February | 29.68 | ${ }^{3} 32.02$ | 31.52 | 33.44 | 30.85 | 30.96 | 32.69 | 32.22 | 30.88 | 33.21 | 36.62 |

${ }^{1}$ Generally for prompt shipment. ${ }^{2}$ Including War Risk surcharge. ${ }^{3}$ Average of 3 quotations.
Foreign Agricultural Service.

Table 28.-Cotton: Average prices ${ }^{1}$ of selected growths and qualities, c.i.f. Bremen, Germany, annual 1968-70, and January 1970 to date

| Year and month | M Lt. Spot $1 / 32^{\prime \prime}$ |  | SM 1 1/16" |  |  |  |  |  |  | SM $11 / 8^{\prime \prime}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U.S. | $\begin{gathered} \text { Brazil } \\ \text { Type } 4 / 5 \end{gathered}$ | U.S. | Mexico | Nicaragua | Syria | U.S.S.R. Pervyi 31/32 mm . | Iran | Turkey (Izmir) | U.S. | Uganda BP 52 |
|  | Equivalent U.S. cents per pound |  |  |  |  |  |  |  |  |  |  |
| 1968 | 26.32 | 27.63 | 32.10 | 30.52 | 28.72 | 30.87 | 32.00 | 30.80 | 30.31 | ( ${ }^{4}$ ) | 36.71 |
| 1969 | 24.33 | 24.64 | 28.48 | 27.80 | 26.14 | 28.71 | 28.81 | 28.64 | 27.76 | 31.21 | 33.46 |
| 1970 | 26.51 | 26.76 | 29.54 | 30.20 | 28.05 | 29.00 | 31.86 | 29.17 | 28.49 | 31.28 | 33.08 |
| 1970 |  |  |  |  |  |  |  |  |  |  |  |
| January | 25.09 | 25.48 | 29.01 | 28.96 | 26.99 | 27.85 | $\left({ }^{4}\right)$ | 29.12 | 27.72 | 31.05 | 31.86 |
| February | 25.46 | 25.44 | 28.99 | 29.22 | 26.96 | 28.51 | $\left({ }^{4}\right)$ | 28.98 | 27.55 | 31.14 | 31.92 |
| March | 25.71 | 26.22 | 29.02 | 29.60 | 27.61 | 228.90 | ( ${ }^{4}$ ) | 28.48 | 27.67 | 31.05 | 32.12 |
| April | 25.95 | 27.44 | 29.30 | 29.70 | 27.65 | ${ }^{3} 28.15$ | ${ }^{5} 31.07$ | 28.80 | 28.31 | 31.40 | 32.20 |
| May | 26.19 | 27.62 | 29.45 | 29.72 | 27.76 | 28.75 | 31.15 | 28.99 | 27.94 | 31.40 | 31.82 |
| June | 26.38 | 27.00 | 29.26 | 30.05 | 27.64 | 28.90 | 31.15 | 28.87 | 28.10 | 30.95 | 31.98 |
| July | 26.38 | $\left(\begin{array}{l}4 \\ 4\end{array}\right.$ | 29.30 | 30.12 | 27.98 | 28.90 | 31.15 | ${ }^{4}$ ) | 28.26 | 30.90 | 32.70 33.29 |
| August | 26.45 | $\left({ }^{4}\right)$ | 29.38 | 30.35 | 28.15 | 29.01 | 31.15 | 28.65 | 28.45 | 30.98 | 33.29 |
| September | 26.81 | $\binom{4}{4}$ | 29.79 | 30.66 | 28.54 | 29.28 | 32.40 | 28.94 | 28.65 | 31.39 | 34.58 |
| October | 27.49 | $\binom{4}{4}$ | 30.11 | 31.18 | 28.93 | 29.47 | 32.68 | 29.34 | 29.04 | 31.57 | 34.71 |
| November | 27.65 | $\left({ }^{4}\right)$ | 30.25 | 31.40 | 29.12 | 29.97 | 32.83 | 29.92 | 29.47 | 31.68 | 34.95 |
| December ${ }^{5}$ | 28.58 | 28.15 | 30.60 | 31.42 | 29.32 | 30.30 | 32.35 | 30.25 | 30.72 | 31.80 | 34.95 |
| 1971 |  |  |  |  |  |  |  |  |  |  |  |
| January | 28.05 | 29.99 | 30.48 | 31.82 | 29.71 | 30.48 | 32.60 | 30.71 | 30.70 | 32.19 | 35.85 |
| February ... | 28.51 | 30.80 | 30.95 | 32.20 | 30.20 | 30.54 | 32.62 | 31.00 | 30.08 | 32.60 |  |

${ }^{1}$ Generaliy for prompt shipment. ${ }^{2}$ Average of 3 quotations. ${ }^{3}$ One quotation. ${ }^{4}$ Not quoted. ${ }^{5}$ Average.
of 2 quotations.
Foreign Agricultural Service.

Table 29.-Foreign spot prices per pound including export taxes ${ }^{1}$ and U.S. average spot export prices, December 1970, January and February 1971

\begin{tabular}{|c|c|c|c|c|}
\hline \multirow{2}{*}{Market} \& \multicolumn{2}{|c|}{Foreign} \& \multicolumn{2}{|r|}{United States} \\
\hline \& Quality \& Price per pound \({ }^{3}\) \& Price per pound \({ }^{4}\) \& Quality \({ }^{5}\) \\
\hline \& \multicolumn{4}{|c|}{Cents} \\
\hline \& \multicolumn{4}{|c|}{December 1970} \\
\hline Bombay, India \& \multirow[t]{2}{*}{\begin{tabular}{l}
Digvijay, fine 7/8" \\
289 F Sind Find S G
\end{tabular}} \& 48.43 \& 21.40 \& SLM 15/16" \\
\hline Karachi, Pakistan \& \& N.A. \& 22.23 \& SLM 1" \({ }^{\prime \prime}\) \\
\hline Izmir, Turkey . \& Standard II \& 26.07 \& 25.57 \& M 1-1/16'', \\
\hline Sao Paulo, Brazil \& \multirow[t]{2}{*}{Type 5 M 1-1/16"} \& 29.95
6 \& 21.83 \& SLM 31/32"' \\
\hline Torreon-Coahuila, Mexico \& \& 68.76

29 \& 7 25.57 \& M $1-1 / 16^{\prime \prime}{ }^{\prime \prime}$ <br>
\hline Lima, Peru Alexandria, UAR \& Giza 66 good \& 29.73
30.55 \& 726.93
826.91 \& SLM 1-3/16"
M 1-1/8" <br>
\hline \multirow[b]{2}{*}{Bombay, India . . . . . . . . . . . . . . . . . . . . . . . . .} \& \multicolumn{4}{|c|}{January 1971} <br>
\hline \& \& 60.26 \& 21.93 \& SLM 15/16" <br>
\hline Karachi, Pakistan \& 289 F Sind Fine S G \& N.A. \& 22.56 \& SLM 1'' <br>
\hline Izmir, Turkey .. \& Standard 11 \& 27.08 \& 25.83 \& M 1-1/16" <br>
\hline Sao Paulo, Brazil \& Type 5 \& 30.84 \& 22.30 \& SLM 31/32" <br>
\hline Torreon-Coahuila, Mexico \& M 1-1/16" \& ${ }^{6} 29.34$ \& 25.83 \& M 1-1/16" <br>
\hline \multirow[t]{2}{*}{Lima, Peru, ....} \& Tanguis type 5 \& 30.24 \& ? 27.00 \& SLM 1-3/16" <br>
\hline \& Giza 66 good \& 30.55 \& ${ }^{8} 26.96$ \& M 1-1/8' <br>
\hline \& \multicolumn{4}{|c|}{February 1971} <br>
\hline Bombay, India \& \multirow[t]{2}{*}{Digvijay, fine 7/8"
289 F Sind Fine S G} \& 52.18 \& 22.50 \& SLM 15/16" <br>
\hline Karachi, Pakistan \& \& N.A. \& 23.19 \& SLM 1' <br>
\hline Izmir, Turkey \& Standard II \& 28.82 \& 26.27 \& M 1-1/16" <br>
\hline Sao Paulo, Brazil \& Type 5 \& 30.51 \& 22.82 \& SLM 31/32'* <br>

\hline Torreon-Coahuila, Mexico \& $$
\text { M } 1-1 / 16^{\prime \prime}
$$ \& ${ }^{6} 28.89$ \& 26.27 \& M 1-1/16" <br>

\hline Lima, Peru \& Tanguis Type 5 \& 31.43 \& 727.67 \& SLM 1-3/16" <br>
\hline Alexandria, UAR \& Giza 66 good \& 30.55 \& ${ }^{8} 27.95$ \& M 1-1/8" <br>
\hline \multicolumn{2}{|l|}{\multirow[t]{5}{*}{${ }^{1}$ Includes export taxes where applicable. ${ }^{2}$ Quotations on net weight basis. ${ }^{3}$ Averages of prices collected once each week. ${ }^{4}$ Average spot market gross weight price divided by 0.96 to convert price to a net weight basis. ${ }^{5}$ Quality of U.S. cotton generally considered to be most nearly comparable to the}} \& \multicolumn{3}{|l|}{\multirow[t]{5}{*}{foreign cotton. ${ }^{6}$ Torreon-Coahuila District cotton delivered uncompressed ex-warehouse Brownville, Texas, Mexican export taxes paid. Net weight price-actual price divided by 0.96 . ${ }^{7}$ Based on El Paso market. ${ }^{8}$ Based on average of Fresno, Greenwood, Memphis and El Paso markets. N.A. Not available.}} <br>
\hline \& \& \& \& <br>
\hline \& \& \& \& <br>
\hline \& \& \& \& <br>
\hline \& \& \& \& <br>
\hline
\end{tabular}

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[^0]:    ${ }^{1}$ Crop Reporting Board Report of December 8, 1970. ${ }^{2}$ Indicated March 1, 1971.
    ${ }^{3}$ Virginia, Florida, llinois, Kentucky, and Nevada. ${ }^{4}$ Included in State and United States totals. American-Egyptian prior to July 1, 1970.
    Compiled from reports of the Crop Reporting Board.

[^1]:    ${ }^{1}$ Average of the 6 cheapest growth of SM 1-1/16 inch cotton activity traded for the period in Liverpool market. ${ }^{2}$ Based on offers of minimum micronaire of 3.5 to 4.9 . ${ }^{3}$ Average of 3 quotations.

[^2]:    ${ }^{1}$ This article is the third in a series on the domestic cotton industry's structure and the supply and demand for raw cotton. The first article, "The Cotton Fiber-Textile- Apparel Complex: Structure and Outlook for the 1970 's," was published in the May 1970 Cotton Situation, CS-246; the second article, "Yield and Acreage Implications for U.S. Cotton," appeared in the August 1970 Cotton Situation, CS-247.

[^3]:    ${ }^{3}$ Donald, James R., Lowenstein, Frank, and Simon, Martin. The Demand for Textile Fibers in the United States. Econ. Res. Ser. USDA Tech. Bul. No. 1301; 1963, Washington, D.C.

[^4]:    ${ }^{4}$ Ward, Lionel E. Interfiber Competition with Emphasis on Cotton, Unpublished Doctoral Thesis, 1968, University of California at Davis; Barlowe, Russell G. Analysis of Cotton and Man-made Fiber Substitution in End-use Item Consumption in the United States, Unpublished Masters Thesis, 1967, Univ. of Md. ${ }^{5}$ Barlowe, Russell G. and Donald, James R. "Recent Changes in Selected Cotton End Uses." Econ. Res. Ser. Cotton Situation. CS-243, October 1969.

[^5]:    ${ }^{6}$ Cotton was judged competitive in all end uses in which its 1969 market share exceeded 10 percent. Some uses in which cotton's share was less than 10 percent were excluded altogether from the competitive-loss computation; others were included only to the extent that cotton suffered direct displacement from man-made fibers, i.e. some carpets and rugs.

[^6]:    ${ }^{7}$ Based on data published in Cotton Counts Its Customers, National Cotton Council of America, June 1970, and adjusted for the estimated net trade balance of textile manufactures.

[^7]:    ${ }^{10}$ Actually, cotton prices are now near or below the cost of production on some farms. However, producers receive direct payments of about 15 cents per pound on cotton produced on their share of the national base acreage allotment.

[^8]:    ${ }^{11}$ This is a little higher than the estimate of 54 pounds per capita for the domestic fiber market published in Cotton and Other Fiber Problems and Policies in the United States, National Advisory Commission on Food and Fiber, Washington, D.C., July 1967. A greater projected increase in non-cellulosic use in primarily responsible.
    ${ }^{12}$ Based on the Census Bureau's Series "D" U.S. population projection for 1980 , use would total about 8.5 million bales; the Series "C" projection indicates use of 8.8 million.

[^9]:    ${ }^{1}$ Preliminary. ${ }^{2}$ Less than 0.5 percent decline. ${ }^{3}$ Includes historical data for wool, sifk, and flax.

[^10]:    ${ }^{13}$ This assumes an extension of the cotton Long-Term Textile Agreement, which has been in effect since 1962.

[^11]:    ${ }^{2}$ Includes tapestry and upholstery fabrics, tire cord fabrics, and cloths in chief value cotton containing other fibers. ${ }^{2}$ Includes velvets and velveteens, corduroys, plushes and chenilles, and manufactures of pile fabrics. ${ }^{3}$ Includes blankets, quilts, and underwear and outerwear (collars and cuffs, shirts, coats, vests,

[^12]:    Includes fabrics, tire cord, and cloth for export to the Philippines to be embroidered and otherwise manufactured and returned to the United States. ${ }^{2}$ Includes tapestry and upholstery fabrics, table damask, pile fabrics and remnants. ${ }^{3}$ Includes curtains and draperies,
    house furnishings not elsewhere specified. ${ }^{4}$ Includes gloves and

[^13]:    ${ }^{1}$ Includes gloves, hosiery, underwear, outerwear, and hats. ${ }^{2}$ Includes veils and veilings, nets and nettings, lace window curtains, edgings, insertings, flouncings, allovers, etc., embroideries, and ornamented wearing apparel. ${ }^{3}$ Includes braids (except hat braids), fabrics with fast edges not over 12 inches wide, garters, suspenders, braces, tubings, cords, tassels, gill nets, webs, seines, and other nets for fishing. ${ }^{4}$ Not elsewhere classified. ${ }^{5}$ Preliminary.

[^14]:    ${ }^{3}$ Preliminary. ${ }^{2}$ Carryover at beginning of season, plus ginnings.
    percent. minus carryover at end of season. ${ }^{4}$ Less than 0.5

[^15]:    ${ }^{1}$ Harvest season beginning August 1. ${ }^{2}$ Bales of 480 pounds net. ${ }^{3}$ Preliminary. ${ }^{4}$ Includes estimates for minor-producing countries not shown above and allowances for countries where data are not yet available.

