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Cotton and Wool

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OUTLOOK & SITUATION

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Summary

Despite the prospect of burdensome ending stocks, U.S. cotton prices have strengthened in recent weeks. Spot-market prices averaged nearly 65 cents a pound in early March, 4 cents above a month earlier and the highest level this season.

Many factors are behind this price strength, including the prospect of high participation in the cotton payment-in-kind (PIK) program, a pickup in economic and textile activity since Christmas, and recent unexpected sales to the Soviet Union, which are further tightening supplies of higher-quality cotton. So, prospects are improving for mill use and exports. During the first half of this season, both domestic use and exports fell short of the pace needed to reach the total use forecast of 10.4 million bales. However, with economic recovery emerging, cotton-textile activity will likely rise moderately this spring. Also, recent additional funds for USDA's blended credit program, a reduction in the USSR's export offerings, and more competitive prices may help stimulate this season's sagging export sales.

The 1983 PIK program is especially attractive to cotton producers for several reasons. The PIK is exempt from the \$50,000 limit per person on cash program payments, encouraging additional participation among the larger cotton farms. Also, PIK provides an opportunity to avoid some of cotton's high production costs, which among major field crops are only exceeded by rice. In addition, producers receive a guaranteed yield on PIK acreage—an important feature because cotton's yield is one of the most variable of all crops.

The February prospective plantings survey indicated that cotton farmers' participation in the PIK program will be high. The survey showed that growers intend to plant 9.3 million acres in 1983—a 19-percent drop from 1982. The final outcome may change, however, depending on how many whole-base bids USDA accepts and farmers' final planting decisions.

If cotton plantings are around intentions, weather is normal, and total use grows moderately, 1983/84 ending stocks would drop a couple of million bales from this

season's expected 8.4 million. So, PIK has the potential to reduce burdensome stocks. Nevertheless, unless weather is extremely bad or demand surges dramatically, stocks will remain high for many qualities.

U.S. mills used cotton at an annual rate of only 5.23 million bales during August-January, compared with the season's forecast of 5.4 million. Per capita cotton consumption—mill use plus the net cotton-textile trade balance—was 13.5 pounds in 1982, a 6-percent drop from 1981. So, a rebounding general economy could unmask pent-up textile demand. However, any demand boost in 1983 will continue to be limited by high imports and low exports. Imports of cotton textiles arrived at an annual rate of 1.9 million equivalent bales during August-December, almost equal to a year earlier. Meanwhile, exports fell to less than a half million equivalent bales, down 29 percent from a year earlier and 60 percent from 1980.

U.S. cotton export commitments—exports plus outstanding sales—stood at 4.5 million bales in late February, 2 million below a year earlier. For 1982/83, exports are forecast at 5 million bales, 1.6 million below a year earlier. An increase in foreign supplies relative to use provides the fundamental reason for this season's decline in exports. Also, U.S. cotton was generally priced 2 to 3.5 cents a pound above foreign cotton during August-December. However, during January and February, the gap steadily closed to less than a cent as supplies of higher quality foreign cotton—particularly Soviet cotton—became tighter.

The 1982/83 foreign cotton outlook continues to be dominated by stagnant consumption, higher supplies, and lower imports. Mill use is forecast at 61.1 million bales, 0.6 million above last season. However, foreign use, excluding China, has been flat since 1979/80. Foreign production, at 55.9 million bales, is 0.4 million above last season. A 2-million-bale gain in China more than offset steep drops in Mexico and the USSR. Most of this

season's drop in world imports will occur in the Far East, where the U.S. trade share historically has been large. China will likely reduce imports by 1.5 million bales to just 0.7 million. Korea, Japan, Hong Kong, and Taiwan are expected to lower their combined purchases by almost a half million bales.

Declining total use of extra-long staple (ELS) cotton, coming at the same time as the largest American-Pima crop since 1977, will cause ELS stocks to skyrocket this season. Mill use is forecast at 47,000 bales, nearly equal to a year earlier. With U.S. prices above foreign ones, U.S. exports are forecast at 13,000 bales, up only marginally from a year ago and 40 percent below 2 years earlier. Ending stocks are expected to build to 116,000 bales, nearly 80 percent above beginning stocks. Reflecting reduced allotments, farmers' February planting indications were 64,000 acres, down 12 percent from 1982. This acreage, coupled with trend yields, could cause ELS stocks to build again next season.

Low production, use, and prices mark this season's wool market. Sheep numbers on January 1, 1983, were 10.3 million, 10 percent below a year earlier and the lowest since recordkeeping began in 1867. Mill use in 1982 was 115 million pounds, 17 percent below 1981. February farm prices averaged 57.7 cents a pound, greasy, the lowest price for that month since 1975.

This issue of the Cotton and Wool Situation contains two special articles. The first article, "An Economic Analysis of the 1983 Upland Cotton Program," concludes that, for an average farm, participation in the PIK program is the more profitable planting strategy over a wide range of expected market prices and yields. The second article, "The Raw Cotton Equivalent of U.S. Textile Imports by Country of Origin," presents data on the volume of U.S. imports for 1982. Of total imports of 1.9 million equivalent bales, over 83 percent came from Asian nations.

Cotton and Wool Situation

TEXTILES AND THE ECONOMY

The U.S. output of goods and services in fourth-quarter 1982 continued the sluggish performance that began in the third quarter. The real gross national product (GNP) dropped at an annual rate of 1.9 percent from the third quarter, which in turn increased only 0.7 percent from the second. The major cause of the lower fourth-quarter GNP was a 37-percent annual-rate decline in gross private domestic investment, which accounted for 12 percent of GNP. Private domestic investment fell because of a sharp reduction (\$18.7 billion) in real business inventories, two-thirds of which were in motor vehicles. By comparison, real inventories increased \$3.4 billion in the third quarter and decreased \$4.4 billion in the second. In contrast, real personal consumption expendi-

tures, which accounted for almost two-thirds of GNP, rose at an annual rate of 4.8 percent. Half of this spending was in the retail sales of motor vehicles and parts.

Other fourth-quarter data also indicated low economic activity. The index of industrial production declined at an annual rate of 8.4 percent; it has declined every quarter since third-quarter 1981. The civilian unemployment rate increased or stayed constant every month since August 1981, until it reached 10.8 percent in December.

On the other hand, here are some economic factors that foretell business recovery. The index of leading indicators rose 3.6 percent in January, the largest monthly increase in over 30 years. It went up 9 of the past 12 months. The coincident index, a companion index that measures current economic activity, rose for the second time in 3 months. Consumer spending and housing starts rose sharply in January 1983, while

interest rates declined. Manufacturers' inventories in December 1982 were at a 2-year low, suggesting inventory disposal may be about over. In January 1983, civilian unemployment fell 0.4 percent to 10.4. The consumer prices index has declined since mid-1982. Retail sales of nondurable goods, seasonally adjusted, rose each month of the fourth quarter.

The textile industry, in contrast to the general economy, experienced a mild recovery in the latter part of 1982. The quarterly index of textile production rose at annual rates of 2, 0.8, and 4 percent in the second, third, and fourth quarters, respectively. The unemployment rate in textile mills dropped from 19.3 percent in July 1982 to 10.1 percent in January 1983, and unemployment in apparel manufacturing went from 15.5 percent in September to 13 percent in January.

Mill consumption of fibers in 1982 was the lowest in several years. Total fiber consumption was 10.1 million pounds, 13 percent below 1981. Cotton use, 2.49 billion pounds, was 8 percent less than in 1981 and the lowest level in 50 years. In addition to the depressed economy, one of the major causes of lower mill use of fibers has been the relatively large quantity of textile imports at time of declining exports. As the dollar became stronger, textile trade reacted accordingly. Imports of cotton textiles averaged a record-high 933 million pounds over the last 2 years, while 1982 exports fell to less than half of the 1980 high of 528 million pounds. Last year's imports of manmade fiber textiles climbed to a record 807 million pounds, while exports dropped one-third from the previous 3-year average.

These data indicate that, when the global economy rebounds, a restoration of mill consumption of fibers to prerecession levels could mean an increase of up to 20 percent.

COTTON SITUATION

U.S. Outlook for 1982/83

Mill Use Probably Bottomed in December; January's Rebound Expected To Continue

U.S. mill use plunged to a seasonally adjusted annual rate of only 5.04 million bales during December. However, because there continues to be a basis for optimism

during the second half of this season, mill use is still expected to total 5.4 million bales for 1982/83 (tables 14 and 15). Evidence of future mill strength came in January, when the monthly rate jumped to 5.35 million bales. Many economic indicators (as described in the previous section) suggest that the trough of the recession has past, and quarterly real GNP growth rates should be up sharply during most of 1983. The abnormally low per capita consumption of cotton during 1982—13.5 pounds, compared with 14.4 pounds in 1981—suggests that a rebounding economy may unmask substantial pent-up demand for textiles. Because the annual rate of mill use averaged only 5.23 million bales during the first half of this season, mill use would have to jump to an average of 5.47 million bales during February-July to reach this season's forecast. Obviously, this expectation is tied to the emerging optimism for the U.S. economy.

Data for the third quarter of 1982—the start of the cotton marketing season—reveal the types of textile products that have suffered the greatest drops in cotton use (table 16). Among chiefly cotton items, declines from a year earlier include: sheeting and allied coarse fabrics, 37 percent; toweling, 20 percent; and denim and corduroy, 19 percent. Among primarily polyester fabrics, bed sheeting saw the largest drop in cotton use, down 30 percent. Knit fabrics—which account for a quarter of total cotton mill use—were off 16 percent. These data also indicate the importance of household furnishings. Recent sharp gains in housing construction should provide help after some lag in time.

Additional factors that are important for monitoring mill use include the following:

- Textile trade—The raw fiber equivalent of cotton textile imports was 1.94 million bales at an annual rate during the first 5 months of this season, compared with 2.03 million a year earlier. Cotton textiles were exported at an annual rate of 0.47 million bales, down from 0.66 million a year earlier and nearly 60 percent below 1980. The decline in exports is especially damaging to U.S. mill use. So, a severe cotton-textile trade deficit is likely again this season. Furthermore, prospects now are not bright for a weakening of the dollar, which could help change this situation. Any major boost in U.S. mill use will likely need to be linked to improvement in the cotton-textile trade deficit (tables 17 to 20).

Table 1—Upland cotton and manmade staple fibers: Mill consumption on cotton-system spinning spindles

Year beginning August 1	Cotton	Manmade			Total fibers	Cotton's share of total
		Rayon and acetate	Non- cellulosic	Total		
						Percent
1981/82	2,503,788	234,321	1,450,365	1,684,686	4,188,474	59.8
1982/83						
August	193,941	15,575	108,335	123,910	317,851	61.0
September	235,629	18,909	135,000	153,909	389,538	60.5
October	207,127	16,747	113,879	130,626	337,753	61.3
November	194,028	17,644	109,023	126,667	320,695	60.5
December ¹	213,960	17,013	118,077	135,090	349,050	61.3
January	N.A.	16,823	114,856	131,679	N.A.	—

¹Preliminary. N.A. = not available.

Compiled from reports of the Bureau of the Census.

Table 2—Cotton and manmade fibers: Daily rate of mill consumption on cotton-system spinning spindles, unadjusted and seasonally adjusted

Month	Upland cotton				Manmade staple								
	1981/82		1982/83 ¹		1981/82				1982/83 ¹				
	Unad-justed	Ad-justed	Unad-justed	Ad-justed	Rayon and acetate		Non-cellulosic ²		Rayon and acetate		Non-cellulosic ²		
				Unad-justed	Ad-justed	Unad-justed	Ad-justed	Unad-justed	Ad-justed	Unad-justed	Ad-justed	Unad-justed	Ad-justed
	Bales ³				1,000 pounds								
August	22,147	21,971	20,202	20,042	1,172	1,150	6,448	6,403	779	765	5,417	5,379	
September	21,399	21,836	19,636	20,037	1,132	1,129	6,312	6,395	756	754	5,400	5,471	
October	23,156	22,011	21,576	20,510	1,090	1,007	6,391	6,151	837	774	5,694	5,480	
November	20,763	20,276	20,211	19,737	1,078	1,087	5,737	5,554	882	889	5,451	5,277	
December	16,367	17,618	17,830	19,193	764	852	4,692	5,106	681	759	4,723	5,139	
January	19,406	18,914			887	864	5,585	5,591	841	819	5,743	5,749	
February	20,488	18,970			843	836	5,865	5,773					
March	20,550	19,741			812	801	5,595	5,375					
April	21,391	21,158			852	844	5,608	5,403					
May	20,395	19,744			820	771	5,267	5,031					
June	19,000	18,793			752	736	5,066	4,952					
July	16,419	19,711			651	758	4,536	5,324					

¹Preliminary. ²Includes nylon, acrylic and modacrylic, polyester, and other manmade fibers. ³480-pound net weight bales.

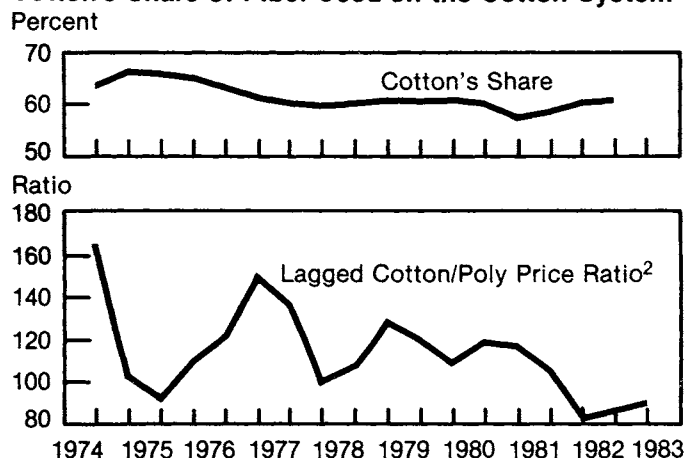
Compiled from reports of the Bureau of the Census.

- Cotton's market share—During the last several years, changes in cotton mill use amounting to as much as several hundred thousand bales have been related to changes in cotton's share of total fiber use. The price of cotton relative to polyester is a factor. However, changes in relative prices have a lagged effect, because it takes time to recognize the changes, assess their permanence, and turn a new mill order into a finished textile. Figure 1 shows the relationship between 1) the ratio of the Group B mill price of cotton to the price of polyester staple, f.o.b., producing plants, and 2) cotton's share of the fiber used on the cotton system (spindles designed for cotton-like staple fibers). The data are for 6-month periods, January-June and July-December, and the price ratio lags behind the market share variable by one period. For example, the share for July-December 1982 is plotted against the price ratio for January-June 1982. The figure shows that cotton's share generally rises as cotton becomes relatively cheaper. During July-December 1982, cotton's price was 91 percent of polyester, compared with 86 percent during January-June 1982. These prices suggest a market share of around 61 percent during the first half of 1983. While cotton's share of the textile pie will likely remain up, total mill use will continue to depend on how large the pie gets during 1983.

Export Prospects Approach 6-Year Low

U.S. cotton exports are forecast at 5 million bales this season, which is below expectations early in the season and nearly a quarter below last year. This season's outlook is a sharp departure from the export-driven market growth once anticipated for the early 1980's. What happened? A combination of factors—some of which are likely to prevail for a few years—have called into question the general presumption that export growth would

Cotton's Share of Fiber Used on the Cotton System¹



¹Data are for 6-month periods, Jan.-June and July-Dec.

²Price ratio is lagged one period. For example, second-half 1982 is plotted as first-half 1983.

Figure 1

follow the path of the 1970's. That trend implied that demand growth would exceed increases in productivity and lead to real price rises.

The current worldwide recession has reduced growth in foreign cotton mill use. Stagnant consumption is a major factor behind smaller world cotton trade. Most U.S. exports go to developing countries, where real GNP growth averaged about 2.5 percent in 1982, well below the 5 to 6 percent of the 1970's. Because of high inflation, low commodity prices that limit export earnings, and credit problems, GNP growth in developing countries is now expected to continue below that of the 1970's during the next several years. Furthermore, foreign cotton exporters will likely continue to increase production as yields grow and foreign exchange needs keep acreage in

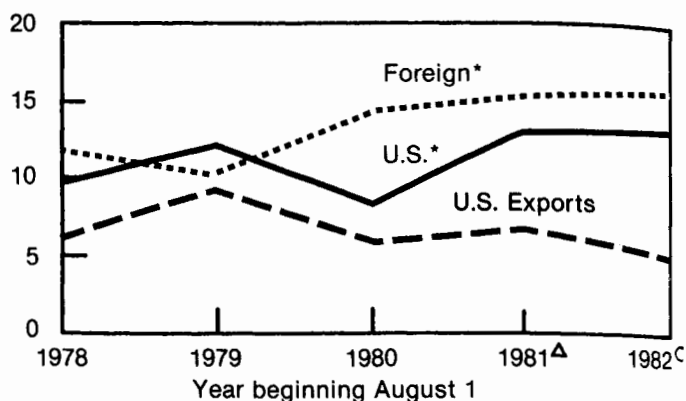
cotton. So, the stage is set for a slow-growing, highly competitive export market during the next couple of years.

Specific factors affecting the size of U.S. exports in future years and their relationship to this season's export forecast include the following:

- Foreign supply/use gap—This gap represents foreign excess supplies, which are inversely correlated with U.S. exports (figure 2). Foreign excess supplies are expected to total 15.6 million bales, 0.5 million above 1981/82. While there is not a perfect unit-for-unit relationship between U.S. exports and foreign excess supplies, the relationship is strong enough to indicate that, with U.S. exportable supplies about the same as last season, the rise in foreign excess supplies this year largely explains the soft export market.
- U.S. market share—The shrinking of world trade means any export strength has to come from a larger trade share for the United States. Unfortunately, the U.S. share is expected to drop to 28.8 percent, from 32.4 percent last season. The expected drop is mainly caused by less competitive U.S. prices, which have exceeded foreign prices all season. The premium has narrowed recently, which may help export sales in the second half of this season.
- Exchange rates and freight costs—These are two major factors determining the foreign currency price of U.S. cotton delivered to overseas mills. The trade-weighted value of the dollar, using cotton exports as the weights, averaged 148.7 (April 1971=100) during the first 5 months of this season, compared with 135.2 a year earlier. This 10-percent gain is equivalent to a 10-percent rise in the foreign currency price of U.S. cotton and has been a factor in this season's loss of market share. Its importance has been mitigated somewhat by dropping ocean freight rates. Freight capacity increased during 1982, and use fell, so cheaper transportation costs have prevented the appreciating dollar from having an even greater negative impact on trade.
- Export credit—The blended credit program was announced in the fall of 1982, with financing for this season's agricultural exports amounting to \$500 million. That initial allocation was totally committed within 1 month. Two programs were for cotton—185,000 bales to Yugoslavia and 14,000 to Portugal. Coinciding with the announcement of the PIK program, President Reagan authorized an additional \$1.25 billion in blended credit for this season, most of which has not yet been committed. Many trade analysts place U.S. cotton exports between 4.5 and 5 million bales this season. Different assumptions about the extent of blended credit used for cotton exports is a major factor explaining the range in forecasts. The popularity of the initial \$500 million authorization suggests that the new authorization will likely boost cotton sales during the next couple of months, providing support for a 5-million-bale export forecast.
- Export commitments—Exports plus outstanding sales were 4.5 million bales in late February, 2 million below a year earlier. The export forecast for this season is only 1.6 million bales below last season. However, more competitive U.S. prices, a

U.S. Export Potential

Mil. bales



* Beginning stocks and production minus consumption.

Δ Estimated.

○ Projections from World Agricultural Supply and Demand Estimates, February 14, 1983.

USDA

Figure 2

Neg. ERS 264-83(2)

strengthening world economy, and additional export financing are expected to help sales. Recent Soviet purchases of cotton and a reduction in their export offerings may also help push U.S. exports to the forecast level this season.

Stocks Continue High, With Most Under Loan

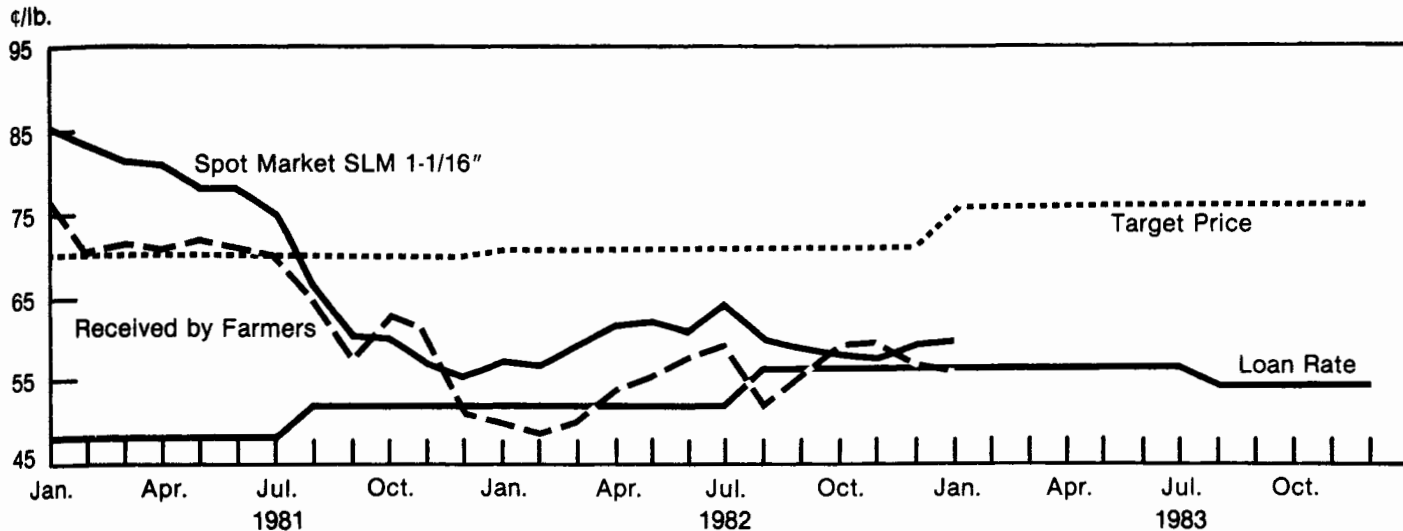
This season's production estimate of 12 million bales and carryin stocks of 6.6 million bring the total supply to 18.7 million. With total use expected to be only 10.4 million bales, carryover stocks would build to 8.4 million—27 percent above last season, more than double the desirable level, and the most since 1966/67.

Following redemptions of about 1 million bales during the first 6 months of this season, redemptions of 1980- and 1981-crop cotton from Commodity Credit Corporation (CCC) loans have nearly stopped. The most profitable option now for most of this cotton is forfeiture to the CCC. However, 1982-crop cotton will likely continue to be placed under loan as the remainder of the crop is ginned. Some will be redeemed whenever market prices spike upward. The distribution of CCC and loan stocks of upland cotton on February 23 was:

Stocks category	Quantity Million bales
Outstanding loans	
1982	4.244
1981	2.649
1980	.094
CCC owned	.095
Total	7.082

High participation in the payment-in-kind (PIK) program will mean a large proportion of the 1980 and 1981 loans that mature this spring and summer will be extended and used to satisfy PIK requirements. It is likely that a portion of the 1982 loans will have to be used to cover PIK needs. The final amount will depend on program enrollment and the number of whole-bale bids that USDA accepts.

U.S. Cotton Prices



USDA

Figure 3

Neg. ERS 2597-83(3)

The PIK program will probably need to use 3 to 4 million bales for payments. Even with PIK cotton at the upper end of this range and as much as 2 million bales of 1982 cotton remaining in outstanding loans, there would still be almost 2-1/2 million bales of free stocks on August 1, 1983. Although overall cotton supplies are excessive, prices have already shown strength among the better qualities, and it is likely that only these qualities have much chance of continuing to be bid up this spring and summer. For most qualities, price gains will be limited to carrying costs. The extent of tight farmer holdings and PIK enrollment in California and Arizona will be key factors determining the availability of the better qualities. High enrollment in these States would mean more of the better qualities of the 1982 crop would have to be kept off the market to satisfy PIK entitlements.

PIK Helps Move Spot Prices; Farm Prices Exceed Expectations

The expectation that PIK will tie up a significant portion of the cotton under loan while simultaneously removing several million acres from production, a pickup in economic and textile activity since Christmas, and recent unexpected sales to the USSR have helped boost spot prices. Loan placements of higher quality cotton have also restricted such supplies and added price strength. During early March, spot prices for SLM 1-1/16-inch cotton reached nearly 65 cents a pound, 5 cents above prices prevailing at the time PIK was announced and nearly 8 cents above a year earlier.

Farm prices have been slightly above expectations during the first 5 months of this season, averaging 58.4 cents a pound (figure 3). Normally, sales during December and January are dominated by lower priced Texas cotton. However, this season, prices for those 2 months averaged 57 cents a pound. The relatively stronger prices probably reflect proportionally lower marketings of Texas cotton, which were only 23 percent of total U.S. production, compared with 36 percent a year ago. Some Texas marketings were probably reflected in the early February farm price, which fell to 53.7 cents a pound.

Cotton Use/Supply and Farm Price

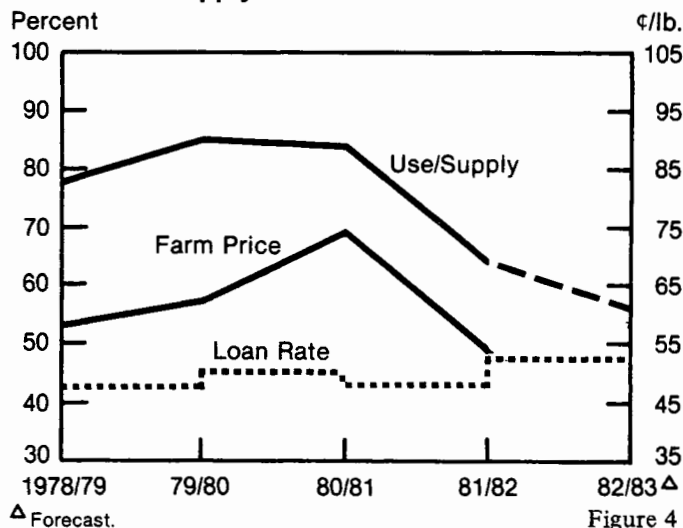
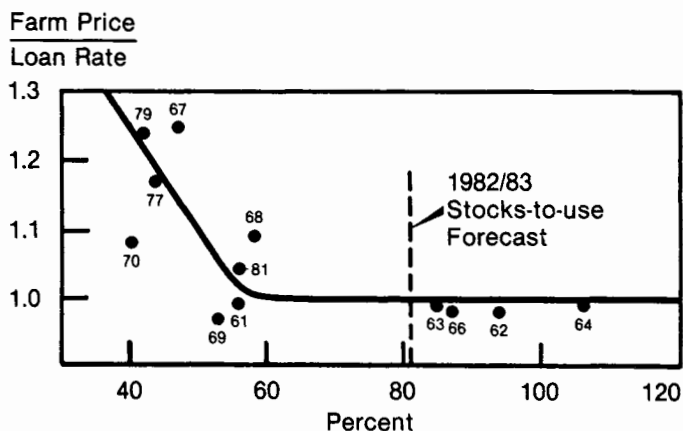


Figure 4

Prices When Ending Stocks-to-use Ratio Exceeded 40 Percent¹



¹Data are for crop years. In 1965, stocks-to-use ratio was 135 percent, and the price ratio was 0.97.

Figure 5

Farm-Price Fundamentals Are Weak

Farm-price relationships are presented in figures 4 and 5. Figure 4 shows the relationship between the use/supply ratio and the season-average farm price. This season's use/supply ratio is 56 percent, down from 64 percent last season. Over the past 6 years, a 1-percentage-point change in the ratio has been associated with a 1-cent-a-pound change in price in the same direction. If this relationship were to hold this year, it would imply an average farm price below 50 cents a pound. However, the loan rate, designed to function as a "safety net," has been doing just that.

Over the past two decades, the loan rate has served as a fairly effective floor on cotton prices. Figure 5 shows the ratio of ending stocks to total use plotted against the ratio of the season-average farm price to the loan rate. Only data for years when the stocks-to-use ratio exceeded 40 percent are used. The figure clearly shows that the relationship becomes flat (the loan rate about equals the farm price) at stocks-to-use ratios in excess of 50 percent. This season's ratio is expected to be 81 percent—well onto the flat portion of the curve. This figure also shows that the stocks-to-use ratio has to be reduced some 25 to 35 percentage points before major price impacts can be expected.

ELS Cotton Situation

Mill Use Fails To Pick Up; Huge Stocks in Prospect

Mill use of extra-long staple (ELS) cotton is expected to total 47,000 bales this season. This forecast is down sharply from forecasts earlier in the season. Through the first 5 months of 1982/83, mill use averaged only 45,000 bales at a seasonally adjusted annual rate, compared with 53,000 a year earlier. The 47,000-bale forecast represents a substantial deterioration in ELS mill use, which averaged 64,000 bales during 1979/80-1980/81. Mill use will have to stage a moderate gain this spring even to reach this season's forecast. Strength in the overall economy and in the upland cotton market, combined with some new products, such as Pima sheets and shirts, could provide the impetus to boost ELS use during the second half of this season.

Declining total use, coming at the same time as the largest American-Pima crop since 1977, will cause ELS carryover stocks to skyrocket this season. Exports are expected to total 13,000 bales, up marginally from a year ago, but only 40 percent of 2 years earlier. U.S. prices are not competitive with foreign ELS prices, such as those for Peruvian ELS, which is similar in quality to American-Pima. Total ELS use is expected to be 60,000 bales—a third of this season's supply of 181,000. Consequently, carryover stocks will likely build to 116,000 bales, compared with beginning stocks of 65,000 and a more desirable level of around 50,000. ELS prices averaged \$1.04 a pound during August-December, compared with the average loan rate of 99.89 cents a pound. It is likely that superior qualities were marketed while others were put under loan. Some 35 to 40 percent of this season's carryover may be owned by the CCC, as large loan forfeitures are expected this spring.

Faced with prospects for excessive stocks, the 1983 ELS acreage allotment has been lowered to 80,131, down from last season's 120,200 acres. This allotment is expected to be restrictive in Arizona and will likely cause 1983 plantings to drop 10,000 acres from the 73,000 planted in 1982. The February prospective plantings survey showed grower intentions of 64,000 acres. Even with such an acreage drop and trend yields, production would still top 80,000 bales. Total use will likely be up only moderately from this season's 60,000 bales, suggesting that ELS stocks could build again in 1983/84.

Outlook for 1983/84

Effectiveness of PIK Dominates Outlook

President Reagan announced the PIK program on January 11, 1983. This is a diversion program designed to put acreage into conserving uses in addition to the area diverted under the acreage reduction (ARP) and paid land diversion (PLD) programs. Participants in the PIK program have the option to idle not less than an additional 10 percent or more than 30 percent of a farm's base acreage for cotton and receive 80 percent of the farm's program yield as payment for each acre idled. In addition, a producer may submit a bid to withdraw a farm's entire base from production. The whole-base bid cannot exceed the offer rate of 80 percent of the program yield that is in effect for the 10- to 30-percent PIK.

Another program feature especially relevant for cotton is the availability of a special PIK for producers exceeding the \$50,000 limit for cash program payments. Producers whose cash payments are reduced because of the limit may request a reduction in their conservation use requirement for the acreage reduction program. Or, they may forgo the reduction and receive PIK on this acreage. The PIK compensation per reduced acre would be 50 percent of the farm's program yield.

As the first special article in this issue points out, the ARP and PIK programs provide strong incentives to participate in one or both. The incentives are even stronger in the West (where participation is usually lower) because PIK is not counted against the \$50,000 limit and because of the special PIK provisions for producers affected by the limit.

Program participation and yield will be the primary factors that determine the extent to which 1983/84 carryin stocks—forecast at 8.4 million bales—may be reduced during next season. The following table provides some insight on the production impact of alternative levels of planted acreage and yield, assuming harvested area is 95 percent of planted area:

Yield <i>Lbs/acre</i>	Planted area <i>Million acres</i>				
	7.8	8.3	8.8	9.3	9.8
	Production <i>Million bales</i>				
475	7.3	7.8	8.3	8.7	9.2
550	8.5	9.0	9.6	10.1	10.7
625	9.6	10.3	10.9	11.5	12.1

Prospective Plantings Report Suggests PIK Impact

The USDA survey of growers' prospective plantings, taken around February 1, indicated cotton producers intend to plant 9.28 million acres this spring, a 19-percent drop from 1982 (table 3). This is consistent with the previous table, which shows a range of the most likely production outcomes. However, the survey intentions fall near the middle of the acreage range. The survey results are only a rough guide, because many farmers had not decided on their final planting strategy by February 1. Still, the survey results provide evidence of the strong participation expected. A major qualification of the survey results is that they probably do not fully account for whole-base bids. The final outcome will depend on how many whole-base bids USDA accepts and farmers' final planting decisions.

Table 3—Cotton: All kinds, U.S. acreage planted by States

State	1982	Indicated 1983 ¹	1983 as a percentage of 1982
	1,000 acres		Percent
Upland			
Alabama	302	225	75
Arizona	490	310	63
Arkansas	435	375	86
California	1,380	1,100	80
Georgia	180	145	81
Louisiana	610	400	66
Mississippi	1,050	800	76
Missouri	158	150	95
New Mexico	79	70	89
North Carolina	74	55	74
Oklahoma	480	450	94
South Carolina	97	85	88
Tennessee	275	240	87
Texas	5,800	4,800	83
Other states ²	15.9	12.2	77
Total	11,425.9	9,217.2	81
American-Pima			
Texas	19.5	22.0	113
New Mexico	9.5	11.0	116
Arizona	44.1	31.0	70
Total	73.1	64.0	88
Total (all cotton)	11,499.0	9,281.2	81

¹Prospective plantings report of February 17, 1983. ²Virginia, Florida, Illinois, Kentucky, and Nevada.

Demand Rise May Not Be Enough To Balance Market

It is clear that unless unusual circumstances prevail, production in 1983 will fall short of this season's 12 million bales. To reduce stocks, demand must exceed production, which is likely in 1983/84. Mill use and exports are both likely to rise. With the textile trade balance expected to remain about the same as this season, a stronger U.S. economy could boost mill use by 0.2 to 0.4 million bales in 1983/84. Foreign area will likely remain about the same, and with trend yields and a rise in foreign use of 1 to 2 million bales, the foreign supply/use gap could narrow by 0.5 to 1.5 million bales, causing a similar gain in U.S. exports.

What would be the impact on carryover stocks? The following table shows carryover levels in 1983/84 for three demand and yield alternatives, assuming plantings of 8.8 million acres and an unaccounted for difference of 0.1 million bales:

Yield Lbs/acre	Total use Million bales		
		11.0	11.5
	<i>Carryover stocks</i>		
475	5.8	5.3	4.8
550	7.1	6.6	6.1
625	8.4	7.9	7.4

Only under a fairly unlikely set of conditions—a 12-million-bale total use and low yields—would carryover stocks fall below 5 million bales. And, only under the low-yield alternative would the stocks-to-use ratio fall enough to cause very significant price reactions.

World Outlook for 1982/83

Recession Continues to Restrain Mill Use

World cotton consumption is forecast at 66.5 million bales this season, 0.8 million above 1981/82 (table 4). China's mill use is expected to rise 0.6 million bales to 16.4 million. So, foreign mill use, excluding China, is essentially as flat as it has been since 1979/80. By January, there was little evidence of any strength in foreign textile activity, which apparently will follow, but only with a lag, a general rebound in the U.S. economy.

Among the importing countries, there are only a few substantive changes from last season's mill use. Consumption in Eastern Europe is expected to fall 0.1 million bales to 3.35 million, with 60 percent of the decline in Poland. In China, retail prices of cotton goods have been raised relative to manmade-fiber items, a development likely to further reduce China's future import needs for cotton. In Korea, Japan, Hong Kong, and Taiwan—the primary U.S. cotton buyers—mill use is placed at 6.43 million bales, more than 0.2 million below last season. Only Korea is expected to register a slight gain. Most of the drop will likely occur in Japan, where imported textiles continue to weaken domestic use. The Japanese Spinners Association is expected to ask for an increase in the voluntary production restraints on mills.

Among exporting countries, the sharpest gains in mill use are expected in the USSR and Argentina. Soviet mills will likely use 9.5 million bales this season, up 0.1 million from 1981/82. Argentina is expected to use 435,000 bales, an 18-percent gain. With this season's crop greatly curtailed, Mexican mill use is forecast at 500,000 bales, 120,000 below 1981/82.

Global production is expected to total 67.9 million bales this season. Foreign production, at 55.9 million, is 0.4 million above last season. This rise reflects growth in Chinese area and yield, with production now forecast at 15.6 million bales, 2 million above 1981. Small gains were registered in Brazil, Pakistan, and the Sudan. Steep declines in output occurred in Mexico, 0.6 million

Table 4—Cotton: Supply and use; U.S., major importers, major exporters and world

Year beginning August 1	World less United States					World ³
	United States	Major importers ¹	Major exporters ²	Other	Total	
<i>Million 480-pound bales</i>						
1981/82						
Supply						
Beginning stocks	2.7	9.1	4.7	6.3	20.1	22.8
Production	15.6	14.5	24.5	16.4	55.5	71.1
Imports	(4)	17.1	.2	2.6	19.8	19.9
Use						
Mill use	5.3	31.0	15.1	14.3	60.5	65.7
Exports	6.6	.4	9.2	4.1	13.8	20.3
Ending stocks	6.6	9.3	4.8	6.8	20.9	27.5
1982/83 ⁵						
Supply						
Beginning stocks	6.6	9.3	4.8	6.8	20.9	27.5
Production	12.0	16.3	23.2	16.3	55.9	67.9
Imports	(4)	14.9	.2	2.6	17.7	17.7
Use						
Mill use	5.4	31.3	15.3	14.6	61.1	66.5
Exports	5.0	.4	7.7	4.4	12.5	17.5
Ending stocks	8.4	8.7	4.9	6.8	20.5	28.9

¹Includes Western Europe, Eastern Europe, Japan, PRC, Korea, Taiwan, and Hong Kong. ²Includes the USSR, Pakistan, Egypt, Sudan, Turkey, Central America, and Mexico. ³Total trade of individual countries, including intra-regional trade. World imports and exports may not balance due to cotton in transit and reporting discrepancies in some countries. ⁴Less than 50,000 bales. ⁵February projections.

Totals may not add and stocks may not balance due to rounding, a small quantity of cotton destroyed, and differences unaccounted.

bales, and in the USSR, 0.5 million. India, Greece, Egypt, and Australia also witnessed smaller outturns this season.

World exports are forecast at 17.5 million bales, down 2.8 million from last season and the lowest since 1974. Greater self-sufficiency in China will likely reduce import needs by 1.5 million bales to just 0.7 million. Korea, Japan, Hong Kong, and Taiwan are expected to reduce their combined imports by about 450,000 bales. So, most of this season's drop in world imports will take place in the Far East, where the U.S. trade share historically has been large.

Foreign carryover stocks are likely to drop slightly to 20.5 million bales, compared with 1981/82's 20.9 million. With consumption stagnant and exporters' supplies up, many importing countries are choosing to use up stocks. Most of the drop in stocks will likely occur in China—200,000 bales—and in Western European importing countries—150,000.

U.S. Prices Becoming More Competitive

Last season, when U.S. prices were near the loan rate, quotations in Northern Europe for Memphis Middling 1-3/32-inch cotton averaged 2.11 cents a pound above the Outlook "A" index. This season, because U.S. prices remained near a higher loan rate, U.S. cotton became even more expensive relative to foreign cotton. During December, the spread widened to 3.58 cents a pound (table 5).

The spread began to narrow in late January as supplies of better quality foreign cotton became tighter and the "A" index moved up. By January 20, the premium on U.S. cotton was down to 2 cents a pound, and a week later, it fell to 0.85 cents. The premium fell again during early February but began rising later that month as

Table 5—Index of prices of selected cotton growths and qualities, and price per pound of U.S. M-1-3/32" c.l.f Northern Europe

Month	1982		1983	
	Index ¹	U.S. M 1-3/32"	Index ¹	U.S. M 1-3/32"
<i>Cents</i>				
January	69.98	72.75	71.88	74.25
February	69.98	72.50		
March	70.44	74.69		
April	71.52	77.40		
May	76.69	78.88		
June	75.64	75.38		
July	78.47	80.60		
August	76.40	77.13		
September	72.75	74.10		
October	70.21	73.38		
November	69.04	72.00		
December	69.67	73.25		
Average	72.57	75.17		

¹Outlook "A" index of Liverpool Cotton Services. Average of the 5 lowest priced of 10 selected growths.

Cotton Outlook, Liverpool Cotton Services.

U.S. spot prices rose. By early March, the premium was up to 2 cents a pound.

A factor that has helped narrow the spread since December has been light offerings of Soviet cotton. Soviet mill demand appears to be strengthening, and with a smaller and poorer quality crop, there has been a reduction in the amount of Soviet cotton available for export. During the first 2 months of 1983, very little

Soviet cotton was offered for sale in Western Europe. Furthermore, the USSR—the world's second largest exporter—may have recently purchased for importation over a half million bales.

MANMADE FIBER REVIEW

Fourth Quarter Improves

Manmade fiber production (including glass) in fourth-quarter 1982 was 2 billion pounds, 2 percent more than the third quarter but 10 percent below a year earlier (table 25). Fourth-quarter staple production was about 0.96 billion pounds, 4 percent above the third quarter but 9 percent less than a year earlier. Filament production was about 1.04 billion pounds, the same as the third quarter but 11 percent below a year earlier. Manmade fiber production in 1982 was 7.97 billion pounds, 19 percent less than in 1981. Staple fiber production totaled 3.76 billion, and filament fiber output was 4.2 billion, both 19 percent below 1981.

Manmade fiber capacity in the fourth quarter was 3 billion pounds, the same as the third quarter but 2 percent less than a year earlier. Staple capacity was about 1.33 billion pounds, and filament capacity was 1.67 billion. Manmade fiber capacity for 1982 was 12.1 billion pounds, 2 percent more than in 1981. Staple capacity was 5.39 billion pounds, almost 1 percent greater than the previous year. Filament capacity was 6.68 billion pounds, fractionally less than in 1981. Manmade fiber plants operated at an average rate of 66 percent during 1982, compared with 82 percent in 1981. Staple plants operated at 70 percent, while filament plants produced at 63 percent. To obtain a desired rate of return on investment, fiber producers like to operate at 85 to 90 percent of capacity.

Manmade fiber plant capacity in 1984 is expected to increase at an average annual rate of 1.2 percent from 1982. The average annual expansion rate of plant capacity for staple fibers will likely be about 0.7 percent; the rate for filament fiber plants will be 1.6 percent. The major fiber types with their higher capacity growth rates and growth markets are: olefin filament, 5 percent, upholstery and carpets; glass filaments, 3.2, reinforced plastics and roofing shingles; nylon staple, 2.9, cut pile carpets; and olefin staple, 2.2, carpets and nonwovens. The major fiber types with a shrinking capacity and their declining markets are: polyester filament, 0.5 percent, doubleknit outerwear, and acetate filament, 0.3 percent, knit tricot apparel.

Total shipments (domestic plus exports) of nonglass manmade fibers in fourth-quarter 1982 were 1.76 billion pounds, almost 2 percent above the third quarter but 10 percent less than a year ago. Total shipments for 1982 were 7.07 billion pounds, 18 percent less than in 1981. They were divided between noncellulosic fibers, 6.51 billion pounds or 92 percent, and cellulosic fibers, 0.56 billion pounds or 8 percent.

Domestic shipments of noncellulosic fibers were 1.49 billion pounds in the fourth quarter, 1.5 percent below the previous quarter and 1 percent less than a year earlier. Cellulosic fibers were 0.11 billion pounds, the same as in the third quarter and 18 percent below a year earlier. Domestic shipments of noncellulosic fibers for 1982 were 5.92 billion pounds, 13 percent below 1981. Filament shipments experienced a greater decline, 17 percent, than did staple fiber, 9 percent. Filament markets in textured woven and doubleknit apparel experienced continued consumer dissatisfaction. Cellulosic fiber shipments were 0.46 billion pounds, 26 percent below 1981. Use of acetate and rayon fibers is declining because of depressed consumer demand and loss of markets to non-cellulosic fibers.

Table 6—Major manmade fiber markets¹

Fiber type	1981				1982			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
<i>Million pounds</i>								
Woven products								
Total	580.7	646.0	614.6	553.8	480.5	491.0	476.8	N.A.
Polyester	380.3	440.8	410.2	358.8	318.1	322.1	318.6	N.A.
Rayon	56.5	58.2	57.6	52.4	38.2	34.4	35.1	N.A.
Olefin	58.5	59.2	57.5	55.2	49.3	53.6	48.8	N.A.
Nylon	43.5	43.2	44.0	44.9	41.3	43.5	39.8	N.A.
Acetate	24.3	29.9	31.8	27.2	23.2	24.0	21.9	N.A.
Acrylic	17.6	14.7	13.5	15.3	10.4	13.4	12.6	N.A.
Knit products								
Total	402.2	427.7	384.1	325.6	318.7	332.6	318.8	N.A.
Polyester	201.0	203.0	189.5	160.1	153.4	153.8	152.9	N.A.
Nylon	82.8	85.3	76.7	73.6	63.6	60.2	61.9	N.A.
Acrylic	87.2	96.8	90.5	72.7	79.1	95.6	85.1	N.A.
Acetate	28.5	39.3	24.8	16.9	20.6	21.2	17.1	N.A.
Rayon	2.7	3.3	2.6	2.3	2.0	1.8	1.8	N.A.
Carpets								
Total	487.0	507.5	399.6	333.5	359.4	412.9	439.2	N.A.
Nylon	369.7	379.6	282.9	218.8	248.7	291.5	319.8	293.9
Olefin	90.3	90.3	87.3	84.4	86.1	89.2	91.7	N.A.
Polyester	27.0	37.6	29.2	30.2	24.6	32.0	27.6	30.6
Acrylic	—	—	—	—	—	—	—	N.A.
Rayon	—	—	0.2	0.1	—	0.2	0.1	N.A.

¹Filament plus staple.

N.A. = Not available.

Compiled from *Textile Organon*.

Exports of manmade fibers, particularly polyester staple, were the lowest in 5 years. Overseas shipments in 1982 were 0.69 billion pounds, 42 percent less than in 1981. The smaller shipments primarily resulted from reduced sales to the Far East.

Major Markets: Textile and Carpet Uses Down

The three major manmade fiber markets are shown in table 6. The largest market, woven textiles, consumed 477 million pounds in third-quarter 1982, 3 percent less than the second quarter and 22 percent less than a year earlier. Polyester fibers continue to dominate (67 percent) this market. Polyester staple was 77 percent of the manmade staple fibers used in weaving, while polyester filament made up 53 percent of the filament fibers.

Carpet use of manmade fibers, 439 million pounds in the third quarter, increased 6 percent from the second quarter and was 10 percent greater than a year earlier. The increase reflects the improvement in construction activity, particularly residential housing.

Preliminary fourth-quarter data indicate that nylon use in carpets declined about 6 percent because of rising inventories. At 73 percent, nylon is the most important manmade fiber used in carpets. Nylon staple accounts for 78 percent of the manmade staple fibers used in carpets, while nylon filament makes up 68 percent of total filament fibers used in carpets.

The quantity of manmade fibers used to make knitted products, 319 million pounds, declined 4 percent from the second quarter and 17 percent from a year earlier. Most of this decline occurred in filament knit fibers, which are used to make doubleknit and tricot apparel.

The market for the chemicals that go into the making of manmade fibers has been mixed. Virgin xylene, a precursor for polyester fibers, has recently been in short supply. In the last 2 years, some production facilities have been closed because of reduced fiber output. The price dropped from \$1.25 to \$1.30 a gallon last summer to \$1.18 in mid-January. However, low inventories and rather strong interest in xylenes in the Far East caused the price to rise to \$1.20 in early February.

The demand for caprolactam promises to improve if construction activity rises. Caprolactam, one of the major raw materials for nylon, has been selling for 85-1/2 to 86-1/2 cents a pound since last summer, with some discounting reported. Propylene, used to make polypropylene and acrylic fibers, has been quoted by producers at 18-1/2 cents for chemical grade and 20 cents for polymer grade. Nevertheless, spot sales are reportedly taking place below these levels.

WOOL SITUATION

U.S. Situation

Fine Wool Use Strong

Mill consumption of raw wool in 1982 was 114.8 million pounds, clean, 17 percent below the previous year (table 7). The quantity of raw wool used in carpet manufacture was 9.8 million pounds, 10 percent less than in 1981. Wool use in apparel was 105 million pounds, down 18 percent from 1981. The strong mill demand for the finer grades continues. Compared with a year earlier, the consumption of raw wool in the worsted system

Table 7—U.S. mill consumption of raw wool, scoured basis

Year	Apparel wool	Carpet wool	Total
1,000 pounds			
1975	94,117	15,908	110,025
1976	106,629	15,117	121,746
1977	95,485	12,526	108,011
1978	102,246	13,009	115,255
1979	106,533	10,513	117,046
1980	113,423	10,020	123,443
1981	127,752	10,896	138,648
1982 ¹	105,009	9,825	114,843

¹Preliminary

Compiled from reports of the Bureau of the Census.

Table 8—Wool supply and disappearance, annually, 1979-84, clean content

Item	1979	1980	1981	1982	1983 ¹	1984 ¹
Million pounds						
Stocks, Jan. 1	48.5	46.8	50.6	52.0	56.8	53.4
Production	56.0	56.4	58.8	58.6	53.1	53.9
Imports	42.3	56.5	74.3	64.4	60.0	60.0
Diff. unacc.	17.3	14.6	7.2	—	—	—
Total supply	164.1	174.3	190.9	173.0	169.9	167.3
Mill use	117.0	123.4	138.6	114.8	112.0	115.0
Exports	0.3	0.3	0.3	1.4	4.5	0.7
Total use	117.3	123.7	138.9	116.2	116.5	115.7
Stocks, Dec. 31	46.8	50.6	52.0	56.8	53.4	51.6

¹Estimated.

Compiled from reports of the Bureau of the Census.

Table 9—U.S. imports of dutiable and duty-free raw wool for consumption, clean content

Year	Dutiable	Duty-free	Total
1,000 pounds			
1975	16,605	17,021	33,626
1976	38,387	19,076	57,463
1977 ¹	36,303	22,655	258,958
1978	27,000	23,404	50,404
1979	20,283	22,047	42,330
1980	30,491	25,992	56,483
1981	48,106	26,146	74,252
1982	39,989	21,433	61,422

¹Beginning November 1977 duty-free wools include all 46's and coarser grades of wool by Public Law 95-162. ²Revised.

Compiled from reports of the Bureau of the Census.

declined less (10 percent) than in the woolen system (25 percent). In both 1981 and 1982, about 60 percent of the raw wool for apparel in both the woolen and worsted systems was 60's and finer. By comparison, the percent for 1978-80 was 56 percent. Depressed consumer demand is expected to limit mill consumption in 1983 to around 112 million pounds (table 8).

Imports of raw wool were 61.4 million pounds, clean, in 1982, compared with 74.3 million in 1981 (table 9). Duty-free imports were 21.4 million pounds, 82 percent of

1981. Most of this type of raw wool comes from New Zealand (71 percent), the United Kingdom (15 percent), and Argentina (7 percent). Dutable raw wool imports were 40 million pounds, 83 percent of 1981. About 92 percent came from four countries: Australia (62 percent), the Republic of South Africa (12 percent), Argentina (11 percent), and Uruguay (8 percent).

The finer grades of imported raw wool continue to be important. In 1982, raw wool finer than 58's was 81 percent of the dutiable grades, compared with an average of 79 percent for the previous 4 years. The raw wool content of imported textile products was 112 million pounds, 1 percent less than last year (table 26).

The inventory of stock sheep on January 1, 1983, was reported to be 10.3 million, 10 percent below the previous year. It was the lowest number since estimates were started in 1867. Therefore, wool production in 1983 is forecast at 53 million pounds, clean, compared with 58.8 million in 1981 and an estimated 58.6 million in 1982 (table 8).

Exports of raw wool in 1982 were 1.35 million pounds, clean, four times the average of the previous 4 years. Four countries received 87 percent of these shipments: France (36 percent), Canada (19 percent), Uruguay (16 percent), and the United Kingdom (16 percent). The relatively large overseas shipments are due to a halving of the price from last year. The raw wool content of exported textiles was 11.9 million pounds in 1982, 3 percent less than in 1981 (table 27).

Wool Prices Remain Low

The market for wool so far this current season has been characterized by smaller purchases. The quantity of territory wool (Texas, Rocky Mountains, and the Pacific Coast) purchased by mills has been insufficient to identify a market price since early September. Market prices for fleece wools (east of the Rocky Mountains) have not been quoted since January 1982. Because of the oligopsonistic nature of the domestic wool business, the mills have been operating with a minimum inventory, causing wool stocks to be maintained by wholesalers and producers.

In December 1982, USDA's Agricultural Stabilization and Conservation Service announced the support price for 1983 marketings, \$1.53 a pound, shorn wool. Pulled wool will continue to be supported at a level comparable to the support price for shorn wool through payments on unshorn lambs.

The average farm price in January dropped to 53.2 cents a pound, greasy, from an average of 61 cents during September-December. It rose to 57.7 in February (table 10). This relatively low price reflected a predominance of medium and coarser wool sales. The January price was the lowest since January 1976, when it was 51 cents. In February, the price of territory wool varied from 46 to 80 cents, while the fleece wool price ranged from 31 to 50 cents. By late February, shearing was underway in most of the United States, although it was still only in the early stages.

The 1982 price for the finer grades of imported wool declined about 17 to 20 percent from the spring high to the season's low during November-December. Meanwhile, the medium and coarser grades of imported wool declined about 14 percent. Since then, the price of all types of imported wool has risen an average of about 4 percent.

Table 10—Average U.S. farm prices per pound for shorn wool, grease basis

Month	1978	1979	1980	1981	1982 ¹	1983 ¹
<i>Cents</i>						
January	72.6	78.7	82.1	84.6	80.4	52.3
February	68.9	77.3	86.8	88.3	80.4	57.7
March	71.2	79.5	93.5	91.8	83.4	
April	73.7	86.9	92.2	101.0	89.1	
May	73.9	88.0	86.6	99.8	88.5	
June	76.2	89.4	86.5	101.0	79.6	
July	74.8	87.7	85.8	94.4	74.5	
August	74.6	81.8	85.5	84.8	68.3	
September	72.7	84.9	84.7	84.3	66.7	
October	77.1	87.5	89.4	87.3	59.2	
November	81.2	89.0	92.1	91.1	61.6	
December	73.6	86.5	90.9	84.2	57.1	
Weighted season average	74.5	86.3	88.1	94.5	70.0	

¹Preliminary.

World Overview

Drought Affects Flock Size

The latest information indicates that world raw wool production for 1982/83 is 3.58 billion pounds, clean. The plus and minus changes from last season in the individual wool-producing countries largely balanced each other, making the current world clip only slightly more than last season's.

The revised forecast of this season's Australian wool production is 1.53 million pounds, clean, about 3 percent less than in 1981/82. The decline resulted from the worst Australian drought in a century. Sheep numbers there this spring are expected to be 3 percent less than a year earlier, resulting in a lower clip next year, at least 6 percent smaller.

Wool output in the Soviet Union, the largest sheep-raising country, is expected to show a slight increase because slaughterings have not been as high as earlier reported. Despite a good lambing season in New Zealand (the main source of crossbred and carpet wools), a long winter drought has limited the clip to 816 million pounds, greasy, only a 2-percent increase from last season. Dry weather will also keep wool production in South Africa the same as last year. Sheep numbers and wool production in China, Pakistan, and Uruguay are expected to continue their earlier growth trends.

Because of the smaller Australian output, the merino share of this season's clip, 39 percent, is less than 1 percent smaller than last season. The shares for the coarser grades are: crossbred, 34 percent, and carpet wools, 27 percent—both about the same as last year.

This season's world carryin of 364 million pounds, the highest in 5 years, was mainly the result of the purchasing by wool marketing authorities to maintain prices in the first half of 1982. About two-thirds of the carryin was held by wool marketing authorities in Australia, New Zealand, and South Africa.

Moderate Price Rise Expected

World wool prices and demand continue to be very sensitive to economic conditions. The major wool-consuming countries are experiencing high unemployment and subdued consumer spending. Yet, falling interest and inflation rates point to some economic recovery.

The season-average price in the Australian market, as measured by its market indicator (a weighted-average index across 11 wool categories), is expected to be about 440, 2 percent above 1981/82. In fall 1982, the market indicator averaged about 433 to 432 before dropping to 426 in December. To maintain prices above the 422 floor, the Australian Wool Corporation had to purchase almost one-third of the wool offered for sale in the first half of the season. As a result, corporation stocks doubled, ending the year at almost 1.1 million bales.

Australian prices in January and early February rose to 438 as a result of increased buying from Eastern Europe, the European Community, and China. They are expected to strengthen in the season's second half because of an improvement in world economic activity and, therefore, in wool demand. Other factors also influencing higher prices are a decline in Australian wool production (especially if the drought continues beyond next fall), a possible increase in the price of non-cellulosic fiber, and a relatively strong Australian dollar.

In fourth-quarter 1982, New Zealand prices weakened almost continuously, reaching a low of 231 as measured by the New Zealand market indicator in mid-January. At that point, it was 11 percent below the season's high in August. With moderate interest from European, Chinese, and Japanese buyers, the market indicator rose about 4 percent to 240 by mid-February. Because the New Zealand Wool Board allowed their wool to flow steadily on to the world market, they were able to reduce their stockpile 8 percent from the season's opening level.

The South African wool market was characterized last fall by an abnormal supply of wool being available at a time of depressed demand. The market indicator fell 9 percent from the season's high of 556 in September to a low of 504 in December. Stocks at the end of 1982 were 76 percent higher than at the season's opening. However, in January, there was a much better tone to the market, with the indicator rising to 513 at month's end. By mid-February, the market indicator climbed to 535 as a combined result of the continually improving demand for wool and a weakening in the exchange rate of the Rand.

MOHAIR SITUATION

The U.S. angora goat inventory on January 1, 1983, was estimated at 1.14 million head, up almost 1 percent from a year earlier. Shearing started in mid-January and should be completed by late March. Because of dry range conditions last fall, the clip, which is forecast at 4.25 to 4.5 million pounds, will be finer than usual, contain less grease, and have less hair per fleece. At yearend, U.S. mohair stocks were estimated at 500,000 pounds, the lowest in several years.

Mohair sales were quite strong in late November and December. The price of adult hair rose from \$1.70 in November to \$1.90 at year's end; it stood at \$2.05 to \$2.10 in late January. Support prices for mohair in 1983 will be \$4.627 a pound, up 16.3 percent from last year. Mohair is being supported at the same percent of parity as wool. The weighted-average price of mohair during 1982 was probably \$2.60, 74 percent of the 1981 price.

Returns from a referendum held in December 1982 among mohair producers show that over 78 percent voted to authorize deductions from CCC incentive payments to finance promotion efforts. The voters in favor of the deductions represented almost 85 percent of the angora goats. The proposed agreement authorizes deductions from payments made under the National Wool Act on mohair marketed during 1982-85.

Mohair exports in 1982 were 7.74 million pounds valued at \$28.5 million. The export volume was about 9 percent above 1981, while the value was 7 percent less. Four countries received most of U.S. exports: the United Kingdom (60 percent), the Federal Republic of Germany (15 percent), Italy (11 percent), and Spain (7 percent).

In South Africa, the yearend supply of mohair was 3.2 million pounds. However, heavy sales in January reduced it to about 1 million pounds at month's end. Prices ranged from \$2.40 to \$2.80 a pound. Because of poor range conditions, this spring's clip, at 8.4 million pounds, will be a little smaller than last year. Most of the clip is reported to have been purchased by a top dealer who later exported it to Japan.

World demand for mohair has been quite strong, with Japan and Eastern Europe among the principal buyers. The Soviet Union has been importing substantial quantities by way of India for hand-knitting yarns.

An Economic Analysis of the 1983 Upland Cotton Program

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ABSTRACT: This article examines factors affecting participation in the 1983 acreage reduction, cash diversion, and payment-in-kind (PIK) programs for upland cotton. Net returns are calculated for a sample farm under different planting strategies. Participation in the PIK is shown to give the highest returns above variable costs for a wide range of expected prices and yields. The formula for cotton deficiency payments, which uses a calendar-year average farm price, boosts the incentive to participate because farm prices in early 1983 are well below the target price.

KEYWORDS: Upland cotton, acreage reduction, cash diversion, payment-in-kind (PIK), target price, participation.

Although U.S. upland cotton production fell sharply in 1982, it still exceeded use. As a result, 1982/83 carry-over stocks are expected to reach 8.4 million bales, about double the amount generally considered to be an adequate carryover. In spite of an announced 20-percent acreage reduction and a 5-percent cash diversion program, there was little prospect in late 1982 for a reduction in stocks during 1983/84. So, on January 11, 1983, USDA announced a payment-in-kind (PIK) program, giving producers who participate in the 20-percent reduction an opportunity to idle an additional 10 to 30 percent of their cotton base acreage in return for a payment in cotton. The PIK program strengthens the prospects for a reduction in cotton stocks during 1983/84 and sets the stage for further improvement in the supply/demand picture for 1984/85.

Program Example

The minute details of the 1983 cotton program are not presented in this article. Rather, examples are developed to illustrate how the basic provisions of the program may be assessed by growers in making planting decisions. The examples should also be of interest to market analysts who must make judgments about the aggregate effects of the 1983 cotton program. The basic provisions of the 1983 program are:

- Acreage reduction—Eligibility for program benefits and for participation in the PIK program requires growers to participate in the 20-percent acreage reduction program.
- Acreage diversion—Although diversion is not required for program benefits, as in the grain programs, a farmer may idle up to an additional 5 percent of the base acreage in return for a cash diversion payment rate of 25 cents a pound.
- Target price and loan rate—The 1983 target price will be 76 cents a pound, and the national average loan rate will be 55 cents a pound for SLM 1-1/16-inch cotton at average location.

- Payment limitation—A person is limited to a maximum of \$50,000 in cash payments from all crop programs, including both deficiency and diversion payments.
- PIK program—Growers may reduce acreage by 10 to 30 percent of the farm's cotton base. The payment-in-kind amount is determined by multiplying the designated PIK acreage by 80 percent of the farm program yield. They may also submit bids to take the entire cotton base out of production—whole-base bids will be accepted at the discretion of USDA. The PIK entitlement does not count against the \$50,000 cash payment limit.

The program provisions are further explained in table 11, which shows returns above variable costs for different planting strategies. Basic assumptions for the table include the following:

- The example farm has 100 acres of cotton base. Four planting options are considered: (1) nonparticipation—the whole base is planted; (2) 80 acres are planted and 20 are idled under the acreage reduction program—20/0/0 option; (3) 75 acres are planted, 20 are idled under the acreage reduction, and 5 are idled under the cash diversion program—20/5/0 option; and (4) 50 acres are planted, 20 are idled under the acreage reduction, and 30 are idled for PIK—20/0/30 option. The cash diversion is not considered in option 4 because a PIK-cotton market price of just 31.3 cents a pound (cash diversion payment rate divided by the PIK payoff rate, or 25 cents/0.8) will match returns from diversion.
- Yields per acre increase as more acreage is idled, because producers idle the less productive land.
- The program payment yield is 600 pounds an acre, close to the projected U.S. average payment yield for 1983.
- The average farm price next fall is assumed to be 55 cents a pound, the national average loan rate.

Table 11—Returns above variable costs on 100 acres of cotton base

	Nonparticipant	Participant		
		20/0/0	20/5/0	20/0/30
Income:				
1. Acres planted	100	80	75	50
2. Yield per acre (lbs)	x500	x530	x530	x550
3. Production (lbs)	50,000	42,400	39,750	27,500
4. Average price (\$/lb)	x.50	x.55	x.55	x.55
5. Market receipts (\$)	27,500	23,320	21,863	15,125
6. Payment yield (lb)		600	600	600
7. Acres planted		x80	x75	x50
8. Program prod. (lb)		48,000	45,000	30,000
9. Deficiency payment rate (\$/lb)		x.20	x.20	x.20
10. Deficiency payments (\$)		9,600	9,000	6,000
11. Payment yield (lb)			600	
12. Acres diverted			x5	
13. Diverted production (lb)			3,000	
14. Diversion payment rate (\$/lb)			x.25	
15. Diversion payments (\$)			750	
16. PIK payoff rate (lb)				480
17. PIK acres				x30
18. PIK (lb)				14,400
19. PIK price (\$/lb)				x.50
20. PIK value (\$)				7,200
21. Gross income (5 + 10 + 15 + 20, \$)	27,500	32,921	31,613	28,325
Expenses:				
22. Acres planted	100	80	75	50
23. Variable costs (\$/acres)	x245	x245	x245	x245
24. Total (\$)	24,500	19,600	18,375	12,250
25. Conservation use acres		20	25	50
26. Cover costs (\$/acres)		x20	x20	x20
27. Total (\$)		400	500	1,000
28. Total variable costs (24 + 27, \$)	24,500	20,000	18,875	13,250
Net return:				
29. Income less variable costs (21 minus 28, \$)	3,000	12,921	12,738	15,075

The average farm price for January-July 1983 is assumed to be 57 cents a pound. Therefore, the assumed deficiency payment on eligible 1983 production is 20 cents a pound—76 cents less the calendar 1983 average farm price.

- Variable production costs—excluding ginning costs, which are expected to be matched by the value of cottonseed—are \$245 per planted acre. The cost of putting the idled acres in an approved conservation use is \$20 an acre.
- The value of the PIK cotton is 90 percent of the 1983 loan rate, or 50 cents a pound. In February, PIK cotton was reportedly being contracted for about 90 percent of the loan rate.

Participation Pays

The decision to participate in the program requires the cotton grower to weigh potential program benefits against the net revenue that is given up by idling land. Table 11 shows that the nonparticipant, who relies solely on market receipts, nets \$3,000 above variable costs. By participating in the 20-percent acreage reduction, the

example producer increases net returns to \$12,921. However, if the grower diverts an additional 5 percent, the net return drops slightly to \$12,738. Although the cash diversion payment rate is 25 cents a pound, the grower gives up the 20-cent deficiency payment plus returns from the cash market on production from the diverted acres.

The example clearly shows the attractiveness of the PIK program—the 20/0/30 option. When the participant idles an additional 30 percent of the base for PIK, net returns jump to \$15,075, 17 percent more than returns from the second-best alternative. Under the 20/0/30 option, the cost savings greatly outweigh the sacrificed gross income.

The whole-base bid was not considered in the example. If the grower produces no cotton in return for PIK on the entire base acreage, deficiency payments on normal production from 50 percent of the base are forgone, as are net returns from cash sales. The bid percentage (of program yield) which makes net returns from PIK on 100 percent of the base equal to net returns under the most attractive option in the example—the 30 percent PIK—is:

$$\text{Breakeven bid} = \frac{\text{net returns, 20/0/30 option} + \text{cover-crop costs, 100 acres}}{100 \text{ acres} \times \text{program yield} \times \text{PIK price}}$$

$$= \frac{\$15,075 + 100 \times \$20}{100 \times 600 \times \$0.50} = 0.57$$

The payoff rate for the 10- to 30-percent PIK is 80 percent of the program yield. Because the breakeven whole-base bid is well under 80 percent, the whole-base reduction option may be attractive for many cotton producers. Thus, a high proportion of the growers signing up for the regular PIK program are likely submitting whole-base bids.

Importance of Assumptions

The estimated gains from participation implied by table 11 greatly depend on certain assumptions, particularly those concerning: (1) the relationship between the expected yield and the payment yield, (2) the expected market price, and (3) the value of the PIK cotton. Obviously, gains from participation decline as the expected yield and the market price increase and as the price of the PIK cotton drops relative to the market price.

The following data show how net revenues per 100 acres of cotton base differ as the assumptions change. Because participation in the PIK program is by far the better strategy under the basic assumptions, the purpose of the changes shown in table 12 is to gain some idea of the combination of circumstances that would favor nonparticipation.

The data in table 12 show that, even if the average farm price equals the 76-cent target price, and yields per planted acre equal the national average payment yield—an unlikely combination of high price and high yield—participation in the PIK program is still the more profitable planting strategy. Participation in the PIK program is uneconomical when the expected yield exceeds the program yield by 5 percent or more. Even in this case, however, participation in the 20-percent acreage reduction is more profitable than nonparticipation.

The gains from participating in the PIK program are much more sensitive to changes in the ratio of expected yield to program yield than to changes in expected price. This results from the price for PIK cotton being positively related to new-crop prices and from the reduction in the cotton deficiency payment rate being less than the increase in the expected price.

Because cotton deficiency payments are calculated as the difference between the target price and the higher of the loan rate or the average farm price for the calendar year, payments would be made even if the farm price averages 76 cents a pound next fall; prices are currently 20 to 22 cents below the 1983 target price. If deficiency payments were calculated for cotton as they are for the grains—if the average farm price for the first 5 months of the marketing year were used instead of a calendar-year average—net returns under the 20/0/0 option would be lower by \$4,560 when the expected price is 76 cents a pound (table 12). Participation in the 20/0/0 option would yield smaller net returns under all the yield assumptions. The breakeven market price—the price at which returns from participation in the 20/0/0 option equal those of nonparticipation—is about 10 cents a pound higher under the cotton formula than under the one for grains. So, the formula for cotton deficiency payments provides an additional participation incentive when prices during the early months of the calendar year are below the new-crop target price, as is the case in 1983.

Although a small number of growers may find participation undesirable for economic or other reasons, current economic conditions point to the participation rate exceeding the 78 percent of the 1982 program. Because the value of the PIK does not count against the \$50,000 limitation, the PIK program should particularly encourage higher participation in the West—California and Arizona—where participation was lowest last year.

Other Factors Affecting Participation

The above analysis focuses primarily on the participation incentives provided by program payments. There are numerous other factors that make participation attractive. The program reduces the risk of a low net return. The deficiency payment, diversion payment, and payment-in-kind are not affected by the actual yield, so these provisions provide insurance against crop failure. However, a higher price risk is assumed by the grower, because PIK cotton is not eligible for price support. The regular loan is a participation incentive because it provides price protection for what is produced. In addition, the Federal Crop Insurance Corporation provides higher yield coverage and lower premiums for PIK participants. Also, fewer planted acres mean more time to manage the farm and less wear and tear on machinery.

Table 12—Returns above variable cost, dollars per 100 acres of base

Expected yield Payment yield	¹ 55		¹ 76			
	² 0/0/0	20/0/0	20/0/30	0/0/0	20/0/0	20/0/30
0.833 ³	3,000	12,921	15,075 ⁴ (14,211)	13,500	16,784	20,350 (19,256)
.90	5,200	14,680	16,175 (15,311)	16,540	19,216	21,870 (20,775)
1.0	8,500	17,320	17,825 (17,591)	21,100	22,864	24,150 (23,055)
1.1	11,800	19,960	19,475 (18,611)	25,660	26,512	26,430 (25,334)

¹Expected market price, cents per pound. ²0/0/0 - nonparticipant; 20/0/0-20-percent acreage reduction; 20/0/30-20-percent acreage reduction plus 30-percent PIK. ³From table 11: 500/600 = .833. ⁴Dollars in parentheses are based on assumption that the PIK price is 80 percent of market price.

The Raw Cotton Equivalent Of U.S. Textile Imports By Country Of Origin

by

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ABSTRACT: This article introduces a new data series that provides for the first time country-of-origin detail on the quantity of raw cotton contained in U.S. textile imports. These data will appear annually in the March issue of the Cotton and Wool Outlook and Situation report. Estimates for calendar 1982 are presented in this article.

KEYWORDS: Textile imports, raw cotton equivalent, foreign exports, cotton trade.

Introduction

The rapid growth in U.S. textile imports and our worsening trade deficit have caused much concern in recent years. The increasing strength of the U.S. dollar in relation to other currencies, in addition to the decline in economic conditions in foreign importing nations, has limited the expansion of U.S. textile exports. In the meantime, U.S. imports of foreign textile products have increased by record amounts. In calendar 1982, imports of cotton textiles accounted for almost 30 percent of total U.S. domestic cotton consumption—or the equivalent of about 1.9 million bales of domestically produced cotton.

To more closely monitor these conditions and to provide information for analysis of the wide-ranging issues surrounding international textile trade problems, import data must be developed on a country-by-country basis and by type of textile product involved.

A critical element in analyzing the full impact of U.S. textile imports on domestic cotton producers, the textile industry, and consumers is the means of estimating how much of the raw cotton contained in imported foreign textiles is actually U.S. raw cotton returning as processed products. For example, since countries such as Korea and Taiwan obtain most of their raw cotton requirements from the United States, it must be assumed that imported textile products from these countries contain, for the large part, U.S.-produced cotton.

Currently, USDA estimates only show the raw cotton equivalent of U.S. imports (in pounds) from all countries combined; i.e., world totals. Textile products are grouped into four categories of semimanufactured products and nine categories of primarily manufactured products. Approximately 2,200 individual textile items are contained in the 13 categories. The data are calculated monthly and have been published quarterly for many years in the *Cotton and Wool Outlook and Situation* report (see tables 17 to 20).

However, beginning with this issue, cotton textile import data will also be published by country of origin. Cumulative totals for the previous calendar year and for each of the 13 broad product categories will be shown. The data, when combined with information on foreign mill consumption and U.S. raw cotton exports to each

country, will provide a basis for approximating the U.S. raw cotton content of these imported textile products.

Method of Measurement

The Bureau of the Census reports textile import and export data in both units (such as 1,000 dozen) and in actual pounds. For trade negotiations and other purposes, the U.S. Department of Commerce converts the pounds of product into an equivalent square-yard basis. The USDA, however, uses the reported pounds of product and adjusts these data to their "raw fiber equivalent," and then expresses the results in terms of a standard 480-pound bale. For commodity analysis, this procedure facilitates comparisons with other data series, such as production, mill consumption, and exports. The basic procedure is as follows:

- (1) A cumulative import data tape for all commodities is obtained from the Bureau of the Census and then sorted to create a new tape containing only apparel and other textile items.
- (2) For each of the approximately 2,200 apparel and other textile items, a conversion factor is applied to the number of pounds to obtain a raw fiber equivalent. This factor adjusts the actual weight of the textile products by adding the waste resulting from the various manufacturing operations. That is, all textile products are adjusted to allow for the waste loss in the yarn-making operation. In addition, fabric weights are corrected for any known sizing remaining on the fabric as it leaves the mill. For apparel, the loss of fabric from cutting operations is also accounted for. Where it is known that the imported product is a blend of cotton with manmade, wool, or other fibers, the percent of cotton is included in the conversion factor for the particular textile product or apparel item. In cooperation with apparel and textile manufacturers, USDA has developed and modified these factors over the years.
- (3) The raw fiber equivalent data for each item are then grouped into one of the appropriate 13 import categories by country of origin.

- (4) Country of origin data are then aggregated into region and world totals.

Results

The raw fiber equivalents of U.S. textile imports by country of origin for 1982 are shown in table 13. Data are in units of pounds (raw fiber basis) and can be converted directly to 480-pound bales.

During 1982, the United States imported textiles totaling about 0.9 billion pounds of cotton or about 1.9 million bales from 103 countries. The 35 countries listed in the tables, account for over 97 percent of total textile imports, with the remaining minor countries aggregated into "all other" groupings for the appropriate region of the world.

Imports from countries in the Western Hemisphere accounted for about 12 percent of total textiles imported, with most products in the form of yarns and cloth. About 4 percent of the total was imported from Western and Eastern Europe (3 percent and 1 percent, respective-

ly), and 83 percent was from countries grouped under Asia and Oceania. The remaining 1 percent originated in African nations.

Over 26 percent of all cotton textiles were imported into the United States from Hong Kong during 1982—or the equivalent of 490,000 bales. China, Korea, and Taiwan also accounted for a major share of total imports. In most cases, these Far Eastern countries purchase large quantities of U.S. raw cotton. However, data in table 13 reveal that a significant volume of cotton textiles was imported from countries that purchase very little or no U.S. cotton, such as India, Pakistan, and Egypt. For 1982, approximately 35 to 40 percent of all U.S. cotton textile imports came from countries that accounted for only about 8 to 10 percent of total U.S. exports of raw cotton.

As the country-of-origin import series are developed and monitored over time, further analysis of the U.S. raw cotton content of imported cotton products will be possible. This will provide useful information for investigating various trade policy implications, such as market development efforts and alternative export promotion programs.

Table 13—Raw cotton equivalent of U.S. imports by country, 1982

Country of origin	Yarn, thread, and woven fabric				Primarily manufactured products				
	Yarn	Sewing thread, crochet, knitting yarn	Woven fabric		Total semi-manufactured	Pile fabrics and mfrs.	Table damask and mfrs.	Bed clothes and towels	Gloves, hosiery and hdks.
			100 percent cotton	Blends					
<i>1,000 pounds</i>									
Western Hemisphere:									
Canada	163	—	3,621	95	3,879	40	—	548	5
Mexico	2,223	—	232	—	2,455	—	—	89	10
El Salvador	1,045	—	2	—	1,047	1	—	2,108	2
Jamaica	—	—	—	—	—	—	—	—	—
Haiti	45	—	2	—	47	—	—	6	71
Dominican Republic	2	—	255	7	264	—	—	—	—
Colombia	304	25	5,170	250	5,749	61	—	374	84
Peru	8,098	—	21,554	26	29,678	—	—	—	—
Brazil	8,693	19	7,736	131	16,581	224	26	3,416	—
All other	2,395	—	3,272	11	5,678	27	—	285	169
Total	22,969	45	41,844	520	65,379	354	26	6,825	341
Western Europe:									
United Kingdom	37	13	1,136	142	1,328	11	—	257	5
Ireland	1	—	2	13	16	2	—	20	—
France	90	902	955	153	2,100	74	11	77	7
West Germany	225	22	1,639	291	2,177	314	2	206	5
Switzerland	22	27	710	58	817	—	—	1	22
Spain	431	64	454	192	1,141	—	2	81	4
Portugal	291	33	3,158	45	3,527	3	—	558	43
Italy	20	59	1,287	1,142	2,508	95	—	47	22
All other	45	46	1,027	709	1,826	242	57	247	34
Total	1,162	1,167	10,368	2,744	15,441	742	72	1,493	142
Eastern Europe:									
East Germany	—	—	13	2	15	—	—	—	—
Poland	—	—	19	1	20	—	—	238	—
Romania	—	—	110	1	111	—	—	12	—
All other	—	—	239	19	258	4	98	328	6
Total	—	—	380	23	403	5	98	578	6
Asia/Oceania:									
India	—	—	8,105	665	8,770	220	—	5,916	392
Pakistan	18	4	17,938	—	17,959	2,225	—	19,694	486
Sri Lanka	—	—	—	—	—	—	—	21	712
Thailand	122	—	8,157	4,949	13,228	44	—	163	414
Singapore	—	—	6,307	443	6,750	1	—	18	38
Indonesia	—	—	1,530	8	1,537	—	—	19	—
Philippines	—	—	10	1	12	1	—	34	1,151
Macao	—	—	—	—	—	3	—	1	329
China-Mainland	—	—	27,915	13,390	41,305	815	115	21,447	8,468
Korea	233	—	10,828	4,999	16,060	133	—	416	1,204
Hong Kong	—	1	43,806	3,695	47,503	426	12	2,726	6,497
Taiwan	50	3	27,536	7,066	34,654	731	42	4,080	783
Japan	301	23	7,910	2,651	10,884	550	116	199	1,512
All other	—	—	1,670	364	2,034	72	—	403	172
Total	724	31	161,711	38,230	200,697	5,219	286	55,138	22,157
Africa:									
Egypt	2,406	—	4,308	—	6,714	—	—	25	—
All other	3	—	7	—	11	22	—	3	2
Total	2,409	—	4,315	—	6,725	22	—	28	2
World total	27,264	1,244	218,619	41,518	288,645	6,342	481	64,060	22,652

Continued—

Table 13—Raw cotton equivalent of U.S. imports by country, 1982—Continued

Country of origin	Primarily manufactured products						Total
	Other wearing apparel	Lace fabrics and articles	Household and clothing articles	Misc. products	Floor covering	Total primarily manufactured	
<i>1,000 pounds</i>							
Western Hemisphere:							
Canada	1,807	9	39	309	1	2,758	6,637
Mexico	7,205	4	62	133	—	7,504	9,958
El Salvador	218	—	—	3	—	2,331	3,379
Jamaica	1,406	—	—	—	—	1,406	1,406
Haiti	4,955	10	8	64	1	5,115	5,162
Dominican Republic	7,822	314	8	58	—	8,203	8,467
Colombia	233	2	1	1	—	756	6,505
Peru	302	1	45	—	—	349	30,026
Brazil	1,954	8	449	16	672	6,764	23,345
All other	4,263	6	22	10	—	4,781	10,459
Total	30,164	355	634	593	674	39,967	105,346
Western Europe:							
United Kingdom	588	99	130	296	1	1,389	2,716
Ireland	23	2	10	1	—	58	74
France	889	32	221	120	—	1,430	3,530
West Germany	336	22	180	213	—	1,278	3,455
Switzerland	36	16	21	10	—	106	923
Spain	189	1	80	19	—	377	1,519
Portugal	528	1	3	8	4	1,147	4,674
Italy	1,523	64	150	116	—	2,016	4,524
All other	658	14	98	130	1,034	2,513	4,339
Total	4,769	251	892	912	1,041	10,314	25,755
Eastern Europe:							
East Germany	442	—	—	—	—	443	458
Poland	3,167	—	1	117	—	3,523	3,542
Romania	4,575	—	—	—	—	4,587	4,698
All other	544	—	172	20	1	1,173	1,431
Total	8,729	—	172	136	1	9,725	10,128
Asia/Oceania:							
India	16,260	1,976	1,035	141	425	26,365	35,135
Pakistan	8,736	1	1,208	41	7	32,398	50,357
Sri Lanka	11,699	—	1	—	—	12,433	12,434
Thailand	6,976	15	126	31	—	7,769	20,997
Singapore	17,297	—	1	1	—	17,355	24,105
Indonesia	15,064	—	9	4	—	15,097	16,635
Philippines	17,000	98	50	273	—	18,607	18,618
Macao	11,316	—	—	16	—	11,665	11,665
China-Mainland	58,446	1,089	1,467	2,018	21	93,887	135,192
Korea	30,129	8	666	1,227	2	33,785	49,844
Hong Kong	173,654	63	2,856	1,618	—	187,852	235,355
Taiwan	47,536	127	513	2,542	3	56,357	91,011
Japan	18,189	43	119	454	226	21,409	32,293
All other	9,299	19	878	10	4	10,858	12,893
Total	441,602	3,440	8,928	8,378	688	545,837	746,534
Africa:							
Egypt	395	—	—	—	3	423	7,137
All other	241	—	1	1	—	271	282
Total	636	—	1	1	3	694	7,419
World total	487,867	4,046	10,628	10,053	2,408	608,537	897,182 •

— = 0

Totals may not add because of rounding.

Table 14—Cotton: Supply and disappearance, by type, United States

Year beginning August 1	Supply				Disappearance				Difference unaccounted ⁴	Ending stocks July 31
	Beginning stocks August 1 ¹	Production ²	Imports	Total	Mill consumption ³	Exports	Total			
<i>1,000 480-pound net weight bales⁵</i>										
All kinds										
1980	3,000	11,122	28	14,150	5,891	5,926	11,817	335	2,668	
1981	2,668	15,646	26	18,340	5,264	6,567	11,831	123	6,632	
1982 ⁷	6,632	⁸ 12,019	23	18,674	5,397	5,013	10,410	152	8,416	
Upland										
1980	2,962	11,018	27	14,007	5,828	5,893	11,721	328	2,614	
1981	2,614	15,566	18	18,198	5,216	6,555	11,771	140	6,567	
1982 ⁷	6,567	⁸ 11,911	15	18,493	5,350	5,000	10,350	157	8,300	
Extra-long staple ⁶										
1980	38	104	1	143	63	33	96	7	54	
1981	54	80	8	142	48	12	60	-17	65	
1982 ⁷	65	⁸ 108	8	181	47	13	60	-5	116	

¹Compiled from Bureau of the Census data and adjusted to an August 1 480-pound net weight basis. Excludes preseason ginnings. ²Includes preseason ginnings. ³Adjusted to August 1 - July 31 marketing year. ⁴Difference between ending stocks based on Census data and preceding season's supply less disappearance. For upland cotton, this difference primarily reflects an increase of an estimated 1 percent in average bale weights due to moisture absorption once cotton is ginned and begins to flow through marketing channels. Additional moisture is absorbed by cotton moving in export channels. For ELS cotton, this difference reflects, in part, reporting discrepancies for stocks, mill consumption, and exports. ⁵Factors used to convert running bales to equivalent 480-pound net weight bales for carryover and consumption of domestic cotton are based on the relationship between 480 pounds and the gin weight of a running bale, raised by 1 percent (moisture factor). ⁶Includes American Pima, Sea Island, and foreign grown ELS cotton. ⁷Preliminary and estimated. ⁸Crop Reporting Board report of January 11, 1983.

Table 15—Cotton: Supply and disappearance of all kinds; by months, United States¹

Date	Supply						Disappearance				Ending stocks ⁵
	Beginning stocks ²			Total	Ginnings ³	Imports	Total	Mill consumption ⁴	Exports	Total	
	At mills	In public storage ⁶	Other ⁷								
<i>1,000 480-pound net weight bales</i>											
1982/83											
August	865	5,495	272	6,632	468	2	7,102	448	360	808	6,294
September	788	5,259	247	6,294	1,112	2	7,408	435	370	805	6,603
October	700	5,521	382	6,603	3,886	1	10,490	455	308	763	9,727
November	639	7,919	1,169	9,727	3,638	3	13,368	448	399	847	12,521
December	663	10,644	1,214	12,521	1,809	0	14,330	404	395	799	13,531
January ⁸	731	11,619	1,181	13,531	743			444			
February ⁸	807	11,590									
Season	865	5,495	272	6,632							

¹Compiled from Bureau of the Census data and adjusted to a 480-pound net weight basis. ²August stocks adjusted to an August 1 basis and exclude preseason ginnings. ³August data include preseason ginnings. ⁴Adjusted to a calendar month. ⁵Supply less disappearance. End of season stocks adjusted by Bureau of the Census data. Differences primarily reflect varying bale weights. ⁶Adjusted to 480-pound bales by use of monthly conversion factors for mill stocks. ⁷Primarily cotton on farms and in transit. Estimated by subtracting public storage and mill stocks from total stocks. ⁸Preliminary.

Table 16—Estimated mill consumption of raw cotton by major type of textile product

Item	1981					1982		
	1 Q	2 Q	3 Q	4 Q	Year	1 Q	2 Q	3 Q
	<i>1,000 bales¹</i>							
Wholly or chiefly cotton								
Duck	26	34	34	33	127	38	33	33
Sheeting & allied coarse	128	126	121	119	494	109	92	76
Print cloth	73	69	70	84	296	85	83	77
Denim	239	248	255	227	969	207	194	207
Toweling	146	143	133	138	560	122	130	107
Blanketing	24	25	21	17	87	14	17	16
Fine cotton	8	10	11	10	39	23	27	24
Corduroy	73	73	68	61	275	67	68	55
Drapery	7	6	5	4	22	(2)	(2)	(2)
Miscellaneous	5	11	10	5	31	17	19	18
Total	729	745	728	698	2,900	682	663	613
Polyester/cotton fabrics								
Batiste	13	12	12	11	48	11	10	9
Bed sheeting	105	103	105	95	408	92	82	73
Broadcloth	11	12	16	14	53	14	13	12
Twills	53	53	49	46	201	53	57	48
Oxfords	10	10	10	10	40	3	3	4
Poplins	22	25	29	27	103	23	22	19
Sateens	4	3	2	2	11	2	2	2
Yarn dyed fabric	26	26	23	22	97	23	21	21
Print cloth	44	42	46	44	176	45	35	33
Corduroy	11	11	10	8	40	(3)	(3)	(3)
Other	40	36	30	27	133	32	30	26
Total	339	333	332	306	1,310	298	275	247
Other textile products								
Knit fabric	395	420	340	328	1,483	314	312	287
Narrow	19	19	18	17	73	14	14	10
Thread	26	26	23	20	95	20	20	16
Rope	15	15	13	12	55	12	12	8
Total	455	480	394	380	1,709	360	358	321
Grand Total	1,523	1,558	1,454	1,384	5,919	1,340	1,296	1,181
Actual mill consumption	1,451	1,467	1,412	1,327	5,657	1,299	1,325	1,252
Residual	+72	+91	+42	+57	+262	+41	-29	-71

¹1/480-pounds, net weight. ²Included in miscellaneous". ³Included in other".

Based on data from Bureau of the Census reports and National Cotton Council.

Table 17—Raw cotton equivalent of U.S. imports for consumption of cotton manufactures

Year and month	Yarn, thread, and woven fabric						Primarily manufactured products			
	Yarn	Sewing thread, crochet, knitting yarn	Woven fabric		Total		Pile fabrics and mfrs. ²	Table damask and mfrs.	Bed clothes and towels ³	Gloves, hosiery, and hdkf.
			100 percent cotton	Blends ¹	Weight	Bales				
			1,000 pounds		1,000 bales ⁸		1,000 pounds			
1981	23,048	1,035	296,607	47,179	367,869	766.4	6,484	475	56,460	23,113
1982	27,264	1,244	218,619	41,518	288,645	601.3	6,342	481	64,060	22,652
1982										
January	2,171	119	25,028	4,604	31,922	66.5	478	35	4,878	1,832
February	953	91	21,331	4,075	26,450	55.1	357	15	4,404	1,832
March	1,990	136	16,937	3,669	22,732	47.4	311	43	5,580	1,772
April	1,476	128	16,747	3,450	21,801	45.4	434	21	4,608	1,662
May	3,281	169	19,257	3,266	25,973	54.1	664	53	7,096	2,218
June	2,901	168	16,344	3,550	22,963	47.8	716	17	6,374	2,266
July	2,384	62	14,604	2,834	19,884	41.4	498	10	4,108	1,347
August	2,800	75	16,834	3,677	23,386	48.7	803	41	6,204	2,355
September	2,670	68	17,479	3,434	23,651	49.3	528	17	5,298	2,096
October	1,691	56	16,370	3,212	21,329	44.4	382	26	4,894	2,287
November	2,645	85	19,960	3,032	25,722	53.6	524	107	5,614	1,794
December	2,302	87	17,728	2,715	22,832	47.6	647	96	5,002	1,191
Primarily manufactured products										
							Total		Total	
	Other Wearing apparel ⁴	Lace fabric and articles ⁵	Household and clothing articles ⁶	Misc.-products ⁷	Floor covering		Weight	Bales	Weight	Bales
							1,000 bales ⁸		1,000 pounds	
1981	480,864	4,730	10,483	8,861	2,561	594,031	1,237.6	961,900	2,004.0	
1982	487,867	4,046	10,628	10,053	2,408	608,537	1,267.8	897,182	1,869.2	
1982										
January	34,052	265	940	918	155	43,553	90.7	75,475	157.2	
February	35,369	362	800	769	228	44,136	92.0	70,586	147.1	
March	32,739	327	1,031	801	114	42,718	89.0	65,450	136.4	
April	26,761	328	664	638	194	35,310	73.6	57,111	119.0	
May	39,442	382	1,018	⁹ 636	223	⁹ 51,732	⁹ 107.8	⁹ 77,705	⁹ 161.9	
June	51,590	442	879	⁹ 1,027	208	⁹ 63,519	⁹ 132.3	⁹ 86,482	⁹ 180.2	
July	46,021	270	860	⁹ 636	242	⁹ 53,992	⁹ 112.5	⁹ 73,876	⁹ 153.9	
August	60,537	315	969	⁹ 854	258	⁹ 72,336	⁹ 150.7	⁹ 95,722	⁹ 199.4	
September	46,366	364	802	⁹ 1,088	193	⁹ 56,752	⁹ 118.2	⁹ 80,403	⁹ 167.5	
October	39,251	317	882	⁹ 931	134	⁹ 49,104	⁹ 102.3	⁹ 70,433	⁹ 146.7	
November	42,206	338	1,048	⁹ 937	246	⁹ 52,814	⁹ 110.0	⁹ 78,536	⁹ 163.6	
December	33,533	336	735	⁹ 818	213	⁹ 42,571	⁹ 88.7	⁹ 65,403	⁹ 136.3	

¹Includes tapestry and upholstery fabrics, tire cord fabrics, and cloths in chief value cotton containing other fibers. ²Includes velvets and velveteens, corduroys, plushes and chenilles, and manufactures of pile fabrics. ³Includes blankets, quilts, bedspreads, sheets and pillow cases. ⁴Includes knit and woven underwear and outerwear (collars and cuffs, shirts, coats, vests, robes, pajamas, and ornamented wearing apparel). ⁵Includes nets and nettings, veils and veilings, edging, embroideries, etc., and lace window curtains. ⁶Includes braids (except hat braids) tubing, labels, lacing, wicking, loom harness, table and bureau covers, polishing and dust cloths, fabric with fast edges, cords, and tassels, garters, suspenders and braces, corsets and brassieres etc. ⁷Includes belts and belting, fish nets and netting, and coated, filled or waterproof fabrics. ⁸480-pound net weight bales. ⁹Does not include quantities in the TSUSA 706 luggage categories. These raw fiber equivalent quantities for May-December 1982 are 891, 894, 726, 1,362, 711, 481, 690, and 854 thousand pounds respectively.

Compiled from reports of the Bureau of the Census.

Table 18—Raw cotton equivalent of U.S. exports of domestic cotton manufactures

Year and month	Yarn, thread, twine, and woven fabric						Manufactured products				
	Yarn	Sewing thread, crochet, darning and embroidery cotton	Twine and cordage	Woven fabric		Total	Weight	Bales	House, furnishings		
				Standard constructions and tire cord ¹	Other ²				Knit fabrics	Blankets, spreads, pillow cases, and sheets	Towels
				1,000 pounds			1,000 bales ⁸				
1981	21,800	15,199	1,073	75,401	52,346	165,817	345.5	6,632	20,789	8,886	2,413
1982	17,981	11,277	822	71,570	13,186	114,838	239.3	4,720	14,092	6,222	3,241
1982											
January	1,347	1,087	39	5,078	1,170	8,722	18.2	451	1,012	338	124
February	1,713	741	79	5,375	1,001	8,909	18.6	388	932	456	192
March	1,343	1,137	64	6,027	1,214	9,785	20.4	463	1,271	351	205
April	1,357	1,322	65	5,887	1,273	9,904	20.6	402	1,432	947	154
May	2,178	860	62	7,250	1,326	11,677	24.3	479	1,148	430	153
June	1,981	734	106	7,250	1,854	11,925	24.8	574	1,268	674	297
July	829	1,374	58	7,803	831	10,895	22.7	395	1,115	588	432
August	994	1,409	95	4,056	975	7,529	15.7	360	1,051	373	370
September	1,293	885	46	5,609	1,024	8,857	18.5	419	1,148	578	494
October	1,952	813	85	5,977	1,098	9,924	20.7	330	1,360	553	266
November	1,562	484	81	5,995	723	8,845	18.4	213	1,155	637	216
December	1,432	431	42	5,263	697	7,866	16.4	246	1,200	297	338
	Manufactured products						Total				
	Wearing apparel		Other household & clothing articles ⁶	Industrial products ⁷	Total		Weight	Bales	Weight	Bales	
	Knit ⁴	Other ⁵			Weight	Bales					
			1,000 pounds			1,000 bales ⁸	1,000 pounds	1,000 bales ⁸			
1981	60,333	62,603	22,319	17,505	201,480	419.8	367,300	765.2			
1982	34,713	45,321	15,918	14,277	138,506	288.6	253,342	527.8			
1982											
January	2,792	3,467	1,701	1,011	10,896	22.7	19,617	40.9			
February	4,061	4,929	1,317	1,314	13,589	28.3	22,498	46.9			
March	3,311	5,142	1,544	1,204	13,492	28.1	23,277	48.5			
April	3,347	4,831	1,512	1,163	13,788	28.7	23,692	49.4			
May	3,108	4,386	1,617	1,449	12,770	26.6	24,446	50.9			
June	3,050	4,189	1,830	1,345	13,225	27.6	25,150	52.4			
July	2,305	3,265	1,025	1,307	10,432	21.7	21,327	44.4			
August	2,099	3,232	1,195	1,075	9,756	20.3	17,285	36.0			
September	2,713	3,746	1,215	1,311	11,625	24.2	20,482	42.7			
October	2,766	3,179	1,147	1,285	10,887	22.7	20,811	43.4			
November	2,633	1,950	943	841	8,587	17.9	17,432	36.3			
December	2,528	3,005	872	972	9,459	19.7	17,325	36.1			

¹Includes fabrics, tire cord and cloth for export to the Philippines to be embroidered and otherwise manufactured and returned to the United States.
²Includes tapestry and upholstery fabrics, table damask, pile fabrics and remnants. ³Includes curtains and draperies, house furnishings not elsewhere specified. ⁴Includes gloves and mitts of woven fabric. ⁵Includes underwear and outerwear of woven fabric, handkerchiefs, and wearing apparel containing mixed fibers (corsets, brassieres, and girdles, garters, armbands and suspenders, neckties and cravats). ⁶Includes canvas articles and manufactures, braids and narrow fabrics, elastic webbing, waterproof garments, and laces and lace articles. ⁷Includes rubberized fabrics, bags, and industrial belt and belting. ⁸480-pound net weight bales.

Compiled from reports of the Bureau of the Census.

Table 19—Manmade fiber equivalent of U.S. imports for consumption of manmade fiber manufactures

Year and month	Tops, yarn, thread, and woven fabric							Primarily manufactured products	
	Sliver tops and roving	Yarns thrown or plied ¹	Yarns spun	Sewing thread and hand-work yarns	Rayon tire fabric including cord fabrics	Woven fabric	Total	Wearing apparel	
								Knit	Not knit
<i>1,000 pounds</i>									
1981	3,736	4,793	23,479	2,854	277	95,382	130,521	184,704	252,162
1982	2,724	6,642	26,470	2,324	1,087	93,335	132,582	193,087	292,224
1982									
January	448	622	1,877	169	28	7,740	10,884	12,464	24,013
February	320	143	1,408	208	65	6,583	8,727	11,222	22,724
March	207	434	1,648	191	29	6,818	9,327	10,548	21,744
April	118	326	2,114	231	2	6,788	9,579	8,565	16,823
May	82	477	2,774	196	0	8,739	12,268	15,317	25,132
June	138	520	2,438	239	1	9,143	12,479	21,755	31,280
July	348	330	2,050	115	80	6,581	9,504	17,801	25,780
August	192	611	2,847	176	135	10,438	14,399	26,414	34,499
September	423	618	2,566	147	106	9,087	12,947	21,522	26,856
October	68	515	2,337	231	84	7,413	10,648	20,041	20,546
November	209	1,080	2,280	241	280	7,693	11,783	16,642	21,174
December	171	966	2,131	180	277	6,312	10,037	10,796	21,653
Primarily manufactured products									
	Handkerchiefs	Laces and lace articles ³	Narrow fabrics ⁴	Knit fabric	Other manufactures ⁵	Total	Total manufactured imports		
<i>1,000 pounds</i>									
1981	192	4,497	8,703	2,149	56,148	508,555	639,076		
1982	1,162	4,782	10,089	2,284	61,749	565,377	697,959		
1982									
January	81	343	761	220	4,418	42,300	53,184		
February	108	277	821	141	4,052	39,345	48,072		
March	82	295	847	243	4,650	38,409	47,736		
April	65	213	943	187	3,767	30,563	40,142		
May	90	452	1,158	161	⁶ 5,303	⁶ 47,613	⁶ 59,881		
June	128	529	1,060	214	⁶ 6,595	⁶ 61,561	⁶ 74,040		
July	145	384	774	159	⁶ 5,586	⁶ 50,629	⁶ 60,133		
August	138	536	931	242	⁶ 5,732	⁶ 68,492	⁶ 82,891		
September	106	561	801	236	⁶ 5,749	⁶ 55,831	⁶ 68,778		
October	87	465	606	101	⁶ 5,353	⁶ 47,199	⁶ 57,847		
November	55	368	865	242	⁶ 5,070	⁶ 44,416	⁶ 56,199		
December	77	359	522	138	⁶ 5,474	⁶ 39,019	⁶ 49,056		

¹Not included in these data are quantities of imported textured non-cellulosic yarn not over 20 turns per inch. ²Includes gloves, hosiery, underwear, outerwear, and hats. ³Includes veils and veillings, nets and nettings, lace window curtains, edging, insertings, flouncings, allover, etc., embroideries, and ornamented wearing apparel. ⁴Includes braids (except hat braids), fabrics with fast edges not over 12 inches wide, garters, suspenders, braces, tubing, cords, tassels, gill nets, webs, seines, and other nets for fishing. ⁵Not elsewhere classified. ⁶Does not include quantities in the TSUSA 706 luggage categories. These raw fiber equivalent quantities for May-December 1982 are 7,965, 17,894, 17,203, 17,160, 13,969, 12,289, 12,558, and 10,099 thousand pounds respectively.

Compiled from reports of the Bureau of the Census.

Table 20—Manmade fiber equivalent of U.S. exports of domestic manmade fiber manufactures

Year and month	Tops, yarn, thread, and woven fabric					Primarily manufactured products			
	Sliver tops, and roving	Yarns spun	Sewing thread and handwork	Tire cord and tire cord fabric	Woven fabric ²	Total	Hosiery	Underwear and night-wear	Outer wear
<i>1,000 pounds</i>									
1981	11,046	45,693	5,522	48,155	208,478	318,894	4,896	16,970	98,783
1982	6,730	28,169	5,270	27,854	132,569	200,589	3,813	12,884	58,537
1982									
January	811	2,111	433	3,126	9,117	16,197	293	985	5,405
February	995	2,936	367	2,703	10,130	17,132	342	1,134	6,476
March	712	2,554	561	2,794	11,484	18,104	305	1,090	5,486
April	336	2,153	483	2,108	10,588	15,669	245	1,156	5,809
May	375	2,427	446	3,059	12,110	18,417	328	1,208	5,433
June	506	3,561	706	2,522	13,359	20,654	447	1,192	5,496
July	957	1,882	311	2,311	10,664	16,125	464	971	4,544
August	334	2,728	343	1,976	9,317	14,698	359	987	4,097
September	571	1,939	372	1,890	11,292	16,063	313	1,199	4,969
October	397	1,859	550	2,051	12,029	16,886	276	1,172	4,500
November	503	1,928	381	1,438	11,529	15,778	240	934	2,301
December	233	2,091	317	1,876	10,350	14,866	201	856	4,021
Primarily manufactured products									
	House furnishings	Knit or crocheted	Narrow fabrics ³	Other manufactures ⁴		Total	Total manufactured exports		
<i>1,000 pounds</i>									
1981	84,189	21,673	26,210	66,116		318,839	637,733		
1982	65,904	15,645	26,614	54,566		237,960	438,551		
1982									
January	4,537	1,142	2,816	3,527		18,705	34,902		
February	6,039	978	1,737	4,513		21,219	38,351		
March	6,706	1,474	1,803	4,749		21,613	39,717		
April	4,673	1,023	2,623	4,761		20,290	35,959		
May	7,905	1,307	2,083	5,325		23,589	42,007		
June	7,202	1,193	2,755	5,273		23,557	44,211		
July	4,397	1,219	1,989	4,218		17,802	33,927		
August	4,218	1,395	2,945	4,434		18,436	33,134		
September	5,511	1,600	1,743	4,460		19,795	35,858		
October	4,526	1,903	2,614	4,992		19,982	36,868		
November	6,043	1,373	1,764	4,109		16,763	32,542		
December	4,147	1,038	1,742	4,205		16,209	31,075		

¹Includes products made from waste. ²Includes pile and tufted fabric such as corduroy. ³Includes ribbons, trimmings, and braids (except hat braids). ⁴Not elsewhere classified.

Compiled from reports of the Bureau of the Census.

Table 21—Fiber prices: Landed Group B mill points, cotton prices and manmade staple fiber prices at f.o.b. producing plants, actual and estimated raw fiber equivalent

Year beginning January 1	Cotton ¹		Rayon ²		Polyester ³	
	Actual	Raw fiber equivalent ⁴	Actual	Raw fiber equivalent ⁴	Actual	Raw fiber equivalent ⁴
	<i>Cents per pound</i>					
1982	68	76	85	88	77	80
1982						
October	66	74	82	85	75	78
November	65	73	82	85	73	76
December	68	75	80	83	73	76
1983						
January	69	76	78	81	72	75

¹SLM-1-1/16" at Group B Mill points, net weight. ²1.5 and 3.0 denier, regular rayon staple. ³Reported average market price for 1.5 denier polyester staple for cotton blending. ⁴Actual prices converted to estimated raw fiber equivalent as follows; cotton, divided by 0.90, rayon and polyester, divided by 0.96.

Agricultural Marketing Service and Trade reports.

Table 22—Cotton: Strict low middling, spot prices in designated U.S. markets, loan rates, and prices received by farmers for upland cotton

Year beginning August 1	Average spot market prices per pound (net weight) ¹						Price per pound received by farmers for upland cotton (net weight) ²
	15/16 inch	1 inch	1-1/32 inches	1-1/16 inches	1-3/32 inches	1-1/8 inches	
	<i>Cents</i>						
1981/82	49.92	54.13	58.28	60.48	60.89	62.07	³ 54.00
1982/83							
August	50.86	54.82	58.21	60.38	60.76	61.71	52.80
September	49.81	53.89	56.71	58.98	59.36	60.10	55.50
October	49.12	53.14	56.35	58.58	58.97	59.62	59.80
November	48.87	52.80	55.98	58.20	58.57	59.09	59.90
December	50.14	54.04	57.40	59.65	60.02	60.90	57.30
January				60.16			
February							
March							
April							
May							
June							
July							
Average							³ 58.10
Loan rate	48.73	52.68	55.73	57.73	58.13	58.38	⁴ 57.08

¹Spot market loan rates and prices are for cotton with micronaire readings of 3.5 through 4.9. ²Excludes domestic allotment payments, price support and diversion payments. ³Weighted average. ⁴SLM 1-1/16" average location.

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

Table 23—Cotton: Acreage, production and yield per acre on harvested acreage

Year beginning August 1	Planted		Harvested		Production		Yield	
	1,000 acres	Percent of total	1,000 acres	Percent of total	1,000 bales ¹	Percent of total	Pounds ²	Pounds ³
West⁴								
1980	2,302	15.8	2,259	17.1	4,650	41.8	988	969
1981	2,318	16.2	2,276	16.4	5,287	33.8	1,115	
1982 ⁸	2,003	17.4	1,980	20.0	4,367	36.4	1,059	
Southwest⁵								
1980	8,588	59.2	7,438	56.3	3,550	31.9	229	317
1981	8,128	56.7	7,858	56.8	6,103	39.0	373	
1982 ⁸	6,300	54.8	4,779	48.3	2,972	24.7	298	
Delta⁶								
1980	2,955	20.3	2,846	21.5	2,424	21.8	409	556
1981	3,107	21.7	2,943	21.3	3,394	21.7	554	
1982 ⁸	2,528	22.0	2,490	25.1	3,716	30.9	716	
Southeast⁷								
1980	689	4.7	672	5.1	498	4.5	355	515
1981	777	5.4	764	5.5	862	5.5	541	
1982 ⁸	668	5.8	656	6.6	964	8.0	705	
U.S.								
1980	14,534	100.0	13,215	100.0	11,122	100.0	404	499
1981	14,330	100.0	13,841	100.0	15,646	100.0	543	
1982 ⁸	11,499	100.0	9,906	100.0	12,019	100.0	582	

¹480-pound bales. ²Actual. ³5-year centered average. ⁴California, Arizona, New Mexico, and Nevada. ⁵Texas and Oklahoma. ⁶Missouri, Arkansas, Tennessee, Mississippi, Louisiana, Illinois, and Kentucky. ⁷Virginia, N. Carolina, S. Carolina, Georgia, Florida, and Alabama. ⁸Crop Reporting Board Report, January 11, 1983.

Table 24—Cotton: Acreage, production, and yield, by States

State	Harvested acres				Lint yield per harvested acre				Production			
	Average 1976-80	1981	1982 ¹	Change from 1981	Average 1976-80	1981	1982 ¹	Change from 1981	Average 1976-80	1981	1982 ¹	Change from 1981
	1,000 acres	1,000 acres	1,000 acres	Percent	Pounds	Pounds	Pounds	Percent	1,000 bales ²	1,000 bales ²	1,000 bales ²	Percent
Alabama	351	372	300	-19.4	420	545	736	+35.1	303	422	460	+9.0
Arizona	542	633	533	-15.8	1,054	1,221	1,104	-9.6	1,183	1,610	1,226	-23.9
Arkansas	763	560	420	-25.0	444	518	606	+17.0	704	604	530	-12.3
California	1,428	1,530	1,370	-10.5	936	1,109	1,069	-3.6	2,746	3,535	3,050	-13.7
Georgia	167	175	175	-	367	436	631	+44.7	126	159	230	+44.6
Louisiana	527	695	605	-12.9	523	512	690	+34.8	567	742	870	+17.3
Mississippi	1,237	1,200	1,040	-13.3	533	626	812	+29.7	1,351	1,565	1,760	+12.5
Missouri	216	183	155	-15.3	428	441	650	+47.4	184	168	210	+25.0
New Mexico	120	113	76	-32.7	476	600	564	-6.0	118	141	90	-36.2
North Carolina	61	82	72	-12.2	429	558	667	+19.5	53	95	100	+5.3
Oklahoma	517	640	460	-28.1	310	330	261	-20.9	339	440	250	-43.2
South Carolina	128	118	95	-19.5	432	667	783	+17.4	112	164	155	-5.5
Tennessee	281	305	270	-11.5	380	496	615	+24.0	218	315	346	+9.8
Texas	6,182	7,218	4,319	-40.2	336	377	302	-19.9	4,303	5,663	2,722	-51.9
Other States ³	7	18	15	-16.7	501	607	651	+7.3	8	23	20	-13.0
Upland	12,456	13,783	9,833	-28.7	470	542	581	+7.2	12,221	15,566	11,911	-23.5
American-Pima ⁴	71	58	73	+25.9	647	659	710	+7.7	95	80	108	+35.0
United States	12,527	13,841	9,906	-28.4	471	543	582	+7.2	12,315	15,646	12,019	-23.2

¹Preliminary. ²Bales of 480-pounds net weight. ³Includes Virginia, Florida, Illinois, Kentucky, Kansas, and Nevada. ⁴Included in State and United States totals.

Crop Reporting Board report of January 17, 1983.

Table 25—Manmade fiber production and capacity, quarterly, 1981-84⁴

Fiber	1981		1982				1983					Projected 1984 capacity	Average annual change 1984/1982
	Year	1Q	2Q	3Q	4Q	Year	1Q	2Q	3Q	4Q	Year		
	<i>Million pounds</i>												<i>Percent</i>
Grand total ^{1, 2}													
all fibers													
Cap	12,042	3,033	3,027	3,009	2,996	12,065	3,005	3,020	3,030	3,047	12,102	12,357	1.2
Prod	9,819	2,028	1,975	1,962	2,001	7,966							
Percent	82	67	65	65	67	66							
Total staple ²													
Cap	5,347	1,362	1,360	1,341	1,325	5,388	1,326	1,330	1,331	1,334	5,321	5,464	0.7
Prod	4,657	963	919	921	959	3,762							
Percent	87	71	68	69	72	70							
Total filament ^{1, 2}													
Cap	6,695	1,671	1,667	1,668	1,671	6,677	1,679	1,690	1,699	1,713	6,781	6,893	1.6
Prod	5,162	1,065	1,056	1,041	1,042	4,204							
Percent	77	64	63	62	62	63							
Polyester total													
Cap	4,616	1,132	1,105	1,091	1,076	4,404	1,078	1,081	1,082	1,082	4,323	4,389	-0.2
Prod	4,176	870	778	728	793	3,169							
Percent	90	77	70	67	74	72							
Staple													
Cap	2,767	707	704	690	675	2,776	677	680	680	680	2,717	2,778	0
Prod	2,607	539	460	447	510	1,956							
Percent	94	76	65	65	76	70							
Filament													
Cap	1,849	425	401	401	401	1,628	401	401	402	402	1,606	1,611	-0.5
Prod	1,569	331	318	281	283	1,213							
Percent	85	78	79	70	71	75							
Nylon total													
Cap	2,946	740	739	731	723	2,933	726	729	733	736	2,924	3,008	1.3
Prod	2,333	441	478	503	510	1,932							
Percent	79	60	65	68	71	66							
Staple													
Cap	989	249	247	246	245	987	245	244	246	247	982	1,045	2.9
Prod	752	141	169	191	185	686							
Percent	76	57	68	78	76	70							
Filament													
Cap	1,957	491	492	485	478	1,946	481	485	487	489	1,942	1,963	0.4
Prod	1,581	300	309	312	325	1,246							
Percent	81	61	63	63	68	64							
Olefin total													
Cap	1,192	315	317	322	327	1,281	331	334	337	340	1,342	1,397	4.4
Prod	785	190	178	180	176	724							
Percent	66	60	56	56	54	57							
Staple													
Cap	239	68	69	68	70	273	68	68	68	68	282	285	2.2
Prod	142	36	31	37	34	138							
Percent	59	53	45	54	50	51							
Filament													
Cap	953	247	248	254	259	1,008	263	266	269	272	1,070	1,112	5.0
Prod	643	154	147	143	142	586							
Percent	67	62	59	56	55	58							
Acrylic staple													
Cap	833	210	211	209	208	838	208	209	209	210	836	842	0.2
Prod	691	150	171	158	145	624							
Percent	83	71	81	76	70	74							
Non-cellulosic non-glass total ¹													
Cap	9,610	2,403	2,380	2,360	2,342	9,485	2,350	2,361	2,368	2,376	9,455	9,666	1.0
Prod	8,007	1,658	1,612	1,576	1,631	6,477							
Percent	83	69	68	67	70	68							
Staple													
Cap	4,828	1,234	1,231	1,213	1,196	4,874	1,198	1,201	1,203	1,205	4,807	4,950	0.7
Prod	4,192	866	831	833	874	3,404							
Percent	87	70	68	69	73	70							
Filament ¹													
Cap	4,782	1,169	1,149	1,147	1,146	4,611	1,152	1,160	1,165	1,171	4,648	4,716	1.1
Prod	3,815	792	781	743	757	3,073							
Percent	80	68	68	65	66	67							
Rayon staple													
Cap	512	127	128	127	128	510	127	128	127	128	510	510	0
Prod	461	96	87	88	84	355							
Percent	90	76	68	69	66	70							
Acetate filament													
Cap	330	81	80	79	80	320	79	80	79	80	318	318	-0.3
Prod	257	53	53	46	43	195							
Percent	78	65	66	58	54	61							
Glass filament													
Cap	1,525	407	424	427	429	1,687	432	434	440	446	1,752	1,796	3.2
Prod	1,041	208	210	241	³ 230	³ 889							
Percent	68	51	50	56	54	53							

¹Includes spandex capacity and production not shown. ²Includes rayon filament and acetate staple capacity and production not shown. ³Estimated. ⁴Capacity data as of December 1982. Compiled from *Textile Organon*.

Table 26—Raw wool content of United States imports for consumption of wool manufactures¹

Year and month	Noils	Wastes ⁶	Tops and advanced wool	Yarns	Woven fabrics ²	Wool blankets ³
<i>1,000 pounds</i>						
1977	19,426	11,289	842	5,804	18,651	407
1978	23,067	14,130	563	5,550	25,830	572
1979	17,216	11,778	368	3,801	21,687	457
1980	10,638	7,546	311	3,864	21,152	375
1981	12,299	8,233	326	4,720	27,783	400
1982	7,174	4,569	466	7,239	25,633	315
1982						
January	808	574	69	555	1,628	12
February	480	382	25	634	1,843	13
March	1,064	543	103	715	2,643	10
April	702	389	25	680	2,629	21
May	429	445	83	951	3,419	25
June	591	562	111	593	3,487	14
July	424	303	1	650	2,368	9
August	527	317	14	776	2,814	21
September	388	215	5	459	1,763	34
October	625	315	10	380	1,174	86
November	503	309	12	479	959	34
December	633	215	8	367	906	36
Wearing apparel						
	Knit	Other than knit ⁴	Other manufactures ⁵	Carpets and rugs	Total	
<i>1,000 pounds</i>						
1977	25,808	18,264	1,224	14,838	116,553	
1978	22,339	22,559	895	13,914	129,369	
1979	19,114	20,072	1,113	13,937	109,543	
1980	24,431	17,252	788	16,931	103,228	
1981	22,789	18,098	902	18,076	113,626	
1982	25,649	20,714	839	19,642	112,240	
1982						
January	775	816	74	1,632	6,943	
February	1,011	769	66	1,267	6,490	
March	829	732	92	1,595	8,326	
April	1,065	937	99	1,368	7,915	
May	1,569	1,009	64	1,764	9,758	
June	2,768	2,006	76	1,692	11,900	
July	3,192	2,345	68	1,543	10,903	
August	4,644	4,020	53	1,912	15,098	
September	3,482	3,237	64	1,352	10,999	
October	2,974	2,247	62	1,799	9,672	
November	2,285	1,682	70	1,756	8,089	
December	1,055	914	51	1,962	6,147	

¹Includes manufactures of mohair, alpaca, and other wool-like specialty hair. ²Includes pile fabric and manufactures, tapestry and upholstery goods press and billard cloths. ³Includes carriage and automobile robes, steamer rugs, etc. ⁴Includes laces, lace articles, veils and veilings, nets and nettings, when reported in pounds. ⁵Includes knit fabrics in the piece and miscellaneous manufactures not elsewhere specified. ⁶Not including rags.

Compiled from reports of the Bureau of the Census.

UNITED STATES DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C. 20250

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Table 27—Raw wool content of United States exports of domestic wool manufactures¹

Year and month	Noils & wastes ²	Tops and advanced wool	Yarns	Woven fabrics	Wool ² blankets	Wearing apparel knit
<i>1,000 pounds</i>						
1977	1,591	1,702	1,476	677	706	586
1978	929	1,299	1,266	1,094	33	1,218
1979	1,323	3,213	951	1,162	22	1,471
1980	566	4,258	577	1,342	65	2,689
1981	537	2,641	994	1,652	88	2,031
1982	1,069	4,283	663	1,297	47	1,762
1982						
January	6	119	123	87	8	547
February	91	200	90	162	2	122
March	117	380	40	128	3	125
April	95	291	74	106	5	128
May	76	435	56	101	3	142
June	103	560	141	108	7	138
July	36	357	34	102	5	74
August	67	359	22	181	2	114
September	35	501	46	88	4	173
October	161	342	28	56	3	101
November	96	317	3	75	3	28
December	186	422	6	103	2	70
	Wearing apparel other than knit	Felts	Other manufactures ³	Carpets and rugs	Knit fabrics	Total
<i>1,000 pounds</i>						
1977	1,830	233	2,054	1,986	201	13,042
1978	1,235	274	1,247	733	152	9,480
1979	1,335	192	1,867	297	297	12,488
1980	1,903	198	1,878	301	214	13,989
1981	1,945	294	1,729	201	211	12,332
1982	1,131	235	1,173	180	107	11,945
1982						
January	71	15	176	26	4	1,185
February	81	27	91	5	15	887
March	70	21	76	15	22	995
April	83	9	76	22	3	892
May	91	16	88	18	7	1,032
June	262	15	173	12	29	1,549
July	70	2	109	6	3	798
August	113	44	95	15	3	1,013
September	104	16	92	7	6	1,072
October	65	1	80	7	7	852
November	33	31	47	37	7	675
December	88	38	70	10	1	995

¹Includes manufactures of mohair, alpaca, and other wool-like speciality hair. ²Not including rags. ³Census Bureau's Schedule B classification designated manufactures, n.e.c.