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Situation Coordinator: Terry Townsend (202) 447-8444

Principal Contributors: Terry Townsend (202) 447-8444 John V. Lawler (202) 447-8776 (Wool and Mohair) Mildred V. Jones (202) 447-8776 (Statistical)

National Economics Division Economic Research Service U.S. Department of Agriculture Washington, D.C. 20250

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The ratio of U.S. cotton use to supply could be tighter during 1984/85 than previously expected because farmers may plant only about 11 million acres of cotton. Planting intentions totaled 10.8 million acres as of February 1—compared with 8 million actual planted in 1983. This year's planted acreage may differ from intentions, however, depending on the weather, participation in the 25-percent acreage reduction program, and price expectations. Yields could be relatively high as less-productive land is idled. Still, production could range from 10-12 million bales, even if plantings are near intentions.

Economic recovery is boosting U.S. mill use of cotton this season about 5 percent to an estimated 5.8 million bales. After declining during August-December, seasonally adjusted mill use in January rebounded sharply. Continuation of this higher rate would lead to even stronger mill use. However, disappointing retail sales at apparel and assessory stores and record cotton textile imports are limiting the gain. Slower economic growth in 1985, competition with manmade fibers, and a large textile trade deficit could push mill use lower in 1984/85.

Domestic consumption of cotton (mill use plus the cotton textile trade deficit) reached 7.8 million equivalent bales in 1983—the highest level since 1973 and up 1.3 million from 1982. Foreign mills use higher cotton blend levels than domestic mills, so increased textile imports have caused the retail supply of cotton to increase. Consumer demand for cotton apparel may also have increased. Cotton's share of domestic consumption was 27 percent in 1983; however, cotton's share of U.S. mill use fell to 23.1 percent.

U.S. exports of cotton are booming and may reach 6.8 million bales in 1983/84. Reduced competition from the Soviet Union, Pakistan, and Brazil is the main cause. At seasonally adjusted annual rates, U.S. exports have accelerated since February 1983, averaging 7 million bales during November 1983-January 1984. Recent Soviet and Pakistani purchases, coupled with large sales to traditional markets, will probably keep seasonally adjusted exports above 6.5 million bales through July, despite the Southern Hemisphere harvest.

Exports may decline in 1984/85 as foreign supplies expand. Larger harvests, forecast for Pakistan, Mexico, and other countries, plus stable output in China, could boost foreign production sharply. Foreign consumption may also grow, but probably by less than production.

U.S. ending stocks for 1983/84 are estimated at 3.3 million bales, raising the use-to-supply ratio to a tight 0.80. Farm prices, which usually move in tandem with the ratio, have risen about 7 cents a pound from the 1982/83 average. The use-to-supply ratio is expected to decline in 1984/85, but the low stocks carried over from 1983/84 will make prices more volatile.

Mill use of manmade fibers totaled 9.1 billion pounds in 1983 and accounted for about 76 percent of total fiber mill use. At seasonally adjusted rates, consumption of manmade fibers on the cotton system showed little growth during October-December 1983. The manmade fiber trade deficit exceeded 600 million pounds in 1983-compared with 260 million in 1982 and 1.3 million in 1981.

Mill use of wool reached 144 million pounds in 1983, but the trade deficit grew to 129 million pounds, or 47 percent of domestic wool consumption. Farm prices during spring 1984 may average about 75 cents a pound-up 10 cents from a year earlier.

The cotton textile trade deficit accounted for 25 percent of domestic cotton consumption in 1983—up from 21 percent in 1982 and only 8 percent 4 years ago. Cotton textile imports increased 27 percent to 2.3 million bales (raw fiber equivalent) last year, and at seasonally adjusted rates, imports accelerated during the fourth quarter. Cotton textile exports in 1983 fell 13 percent to 458,000 bales and were holding steady in the fourth quarter. In absolute terms, and as a percentage of domestic consumption, the trade deficit could rise again in 1984.

TEXTILES AND THE ECONOMY

U.S. textile mills used about 12.1 billion pounds of fiber in 1983, 19 percent more than a year earlier and the largest quantity since 1979. Use of all fibers in the United States could reach 12.3 billion pounds in 1984, but a decline in 1985 is possible. The correlation between total fiber mill use and the percentage change in real gross national product (GNP) during 1972-1983 is 0.73 (figure 1). Real growth in 1983 reached 3.3 percent, the best in 5 years. Growth in 1984 is expected to exceed 5 percent because business investment and personal consumption expenditures remain strong. However, the rate of economic growth in 1985 could fall to about half the 1984 rate. Federal budget deficits are expected to remain high for several years. Further, the structural component of the deficit, the estimated deficit with full employment, could grow from about \$100 billion in 1983 to nearly \$200 billion in 1989-implying higher interest rates.

Real economic growth during fourth-quarter 1983 was 4.9 percent—about one-half the average rate of the previous two quarters. Large increases in personal consumption expenditures and producers' durable equipment purchases caused growth in the fourth quarter, but the widening trade deficit was a negative factor. The GNP price deflator, a broad-based measure of inflation, rose 4.2 percent, the largest increase since the first quarter. The prime rate increased to 11 percent from 10.5 in the summer. Personal savings increased to 5.4 percent of disposable personal income in the fourth quarter, compared with 4.9 percent in the third quarter. The savings rate is not expected to rise sharply in 1984.

Fourth-quarter consumer spending improved, especially in the durable goods sector, but growth in nondurable goods sales slowed slightly. Fourth-quarter nondurable goods production rose at an annual rate of 14.6 percent, the lowest since fourth-quarter 1982, and textile mill production went up only 2.3 percent, the lowest since third-quarter 1982. The unemployment rate in textile mills fell during June-December 1983.

Figure 1



COTTON SITUATION

1984/85 U.S. Cotton Outlook

Production Between 10 and 12 Million Bales Possible

Based on the recent survey of farmer's intentions, planted acreage of cotton in 1984 is expected to total 10.8 million but could range from 10.5 to 11.5 million (table 1). With acreage substantially below the 15.5-million-acre base, above-average yields are probable-weather permitting-but production could range between 10 and 12 million bales. Disappearance during 1984/85 is expected to decline from 1983/84, pushing up stocks.

In the 10 years before 1984, the January or February planting intentions reports indicated acreage above actual plantings five times and below actual five times (table 2). The average difference has been 632,000 acres. The February intentions reports in 1982 and 1983 were each above actual planted acreage by 1.3 million. The planting intentions report is not designed to forecast acreage but to provide growers with information useful in making final planting decisions.

Data for February's report were collected around February 1—over 6 weeks before the end of signup for the 1984 program. Since farmers will be penalized if they withdraw from the program after March 16, most probably waited until after February 1 before making final participation decisions.

Table 1-Cotton: All kinds, U.S. acreage planted by States

State	1983	Indicated 1984 ¹	1984 as a percentage of 1983
	1.00	0 acres	Percent
Upland			
Alabama	219	300	137
Arizona	291	450	155
Arkansas	340	525	154
California	980	1,450	148
Georgia	120	165	138
Louisiana	420	640	152
Mississippi	685	1,000	146
Missouri	108	170	157
New Mexico	54	68	126
North Carolina	60	80	133
Oklahoma	320	450	141
South Carolina	69	100	145
Tennessee	220	270	123
Texas	4,000	5,000	125
Other states ²	13	18	140
Total	7,898.9	10,686.1	135
American-Pima			
Texas	21	21	100
New Mexico	11	12	109
Arizona	30	40	135
Total	62	73	118
Total			
(all cotton)	7,960.6	10,759.1	135

¹Crop Production report, February 16, 1984. ¹Virginia, Florida, and Nevada.

Table	2History	/ of	planting	intentions	reports

	Indications ¹						Differe	ence ¹	
Year	Jan.	Feb.	Mar.	Apr.	Actual	Jan.	Feb.	Mar.	Apr.
				1	,000 acres				
1974	14,505		14,718		13,596	909		1,122	
1975	9,500		9,884		9,408	92		476	
1976	11,225		11,190	11,590	-365			-400	
1977	12,807		13,618	13,604	-797			14	
1978	12,642		12,842	13,298	-656			-455	
1979	14,046		14,300	13,887	159			413	
1980	13,905		14,753	14,461	-556			292	
1981	14,128		14,484		14,330	-202		154	
1982		12,599			11,340		1,259		
1983		9,281			7,961		1,321		
1984		11,600					·		

¹1974-1981 refer to upland cotton only. 1982-1984 refer to all kinds.

The 1984 upland cotton program requires a 25-percent acreage reduction in exchange for target price and loan rate protection. The 1984 target price is 81 cents a pound, but in early January 1984, farm prices averaged less than 65 cents. Because the deficiency payment rate is based on the 1984 average farm price, each month with prices below 70 cents makes a large deficiency payment rate more likely. Program participation by at least two-thirds of the cotton base would be consistent with an expected deficiency payment rate of between 15 and 20 cents a pound and the \$50,000 payment limitation. However, even with participation of 100 percent, planted acreage could reach 11.6 million, nearly 1 million above reported intentions. Thus, the February report may slightly underestimate actual planted acreage in 1984.

Abandonment of upland acreage averaged 7 percent between 1973 and 1983, although it was somewhat higher during the most recent 5 years.

During the past 11 seasons, upland cotton yields have ranged between 403 and 589 pounds an acre. The average yield has been 491 pounds, but yields in 1984 will probably be above average. Partly because production is shifting toward the Far West, national average yields are rising. In the past 5 years, yields averaged 517 pounds an acre. During the past 3 years, yields averaged 545 pounds, partly because acreage reduction programs have been in effect since 1982/83.

Planted acreage will probably be less than the 12.3 million average of the past 11 years, and acres idled under the payment-in-kind program will again be planted to cotton in 1984. These factors should be positively correlated with yields.

Trends in Mill Use To Continue

During 1966/67-1982/83, mill use declined at an average annual rate of nearly 4 percent. Large cotton textile imports and slower growth in the U.S. economy could cause U.S. mill use to continue downward in 1984/85.

The 1974-75 recession ended in the first quarter of 1975. In 1976, 1977, and 1978, real GNP grew by 5.4, 5.5, and 5 percent, respectively. But in 1985, real GNP growth may slow to less than 3 percent. Since demand for cotton is linked to overall economic activity, slower economic growth portends a decline in mill use. Slower economic growth also implies a reduction in cotton textile imports. However, in 1981 and 1982, years of slow or negative economic growth, imports took an increasing share of domestic cotton consumption. The cotton textile trade deficit could account for as much as 26 percent of domestic consumption in 1984/85. The trade deficit accounted for 8.5 percent of domestic consumption in 1980, 18 percent in 1981, 20.6 percent in 1982, and 24.7 percent in 1983.

Exports To Weaken

Anticipated increases in foreign production, particularly for Pakistan and other major foreign producers, will probably cause U.S. exports to decline from 1983/84. On the other hand, increased supplies of high quality California, Arizona, and Memphis territory cotton, the reliability of U.S. supplies, and moderate foreign economic growth are positive factors for future U.S. exports.

Recent developments in China have obscured some underlying developments in the world cotton situation. Since 1979, Chinese production has doubled from 10.1 million bales to 20.5 million, while Chinese consumption has grown from only 13.5 million bales to 17.5 million. As a result, China has moved from being a large net importer of cotton to being a modest net exporter. But the Chinese experience has caused the gap between foreign production and consumption to narrow from about 8.3 million bales in 1979 to about 4 million in 1983.

To a large extent, China is not participating in world cotton trade because its domestic market consumes almost all production; the quality of most Chinese cotton does not meet international standards; and China desires to export higher valued textiles rather than raw cotton. Even in 1983/84, with Chinese production rising to 20.5 million bales and ending stocks expected to exceed 8 million, China will probably export only about 500,000 bales.

A good indication of U.S. export potential in 1984/85 is gained by looking at trends in production and consumption in foreign countries other than China (figure 2). Since 1965, foreign consumption outside of China has grown at an annual average rate of 1.6 percent while production has grown 1.2 percent. The gap between production and consumption grew about 190,000 bales per year, and in 1983/84, it will almost equal U.S. exports—

Table 3Cotton:	Acreage,	, production,	and yield pe	er acre on	harvested	acreage
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Year beginning Planted August 1		nted	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
West ⁴								
1981	2,318	16.2	2,276	16.4	5,287	33.8	1,115	1.031
1982	1,977	17.4	1,955	20.1	4,323	36.1	1,073	.,
19836 ⁸	1,366	17.2	1,337	18.2	2,797	36.2	1,005	
Southwest ⁵	·		,				,	
1981	. 8,128	56.7	7,858	56.8	6,103	39.0	373	322
1982	6,300	55.6	4,769	49.0	2,961	24.8	298	
1983 ⁸	4,341	54.5	3,821	52.1	2,532	32.8	318	
Delta ⁶								
1981	3,107	21.7	2,943	21.3	3,394	21.7	554	576
1982	2,429	21.4	2,381	24.5	3,707	31.0	747	
1983 ⁸	1,773	22.3	1,703	23.2	1,985	25.7	559	
Southeast ⁷								
1981	777	5.4	764	5.5	862	5.5	541	513
1982	634	5.6	623	6.4	972	8.1	749	
1983 ⁸	481	6.0	470	6.5	411	5.3	420	
U.S.								
1981	14,330	100.0	13,841	100.0	15,646	100.0	543	518
1982	11,340	100.0	9,728	100.0	11,963	100.0	590	
1983 ⁸	7,961	100.0	7,331	100.0	7,725	100.0	506	

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 1984.

Figure 2

Non-Chinese Foreign Production and Consumption Million bales



6.8 million bales. If foreign production and consumption (excluding China) return to trend in 1984/85, the potential level of U.S exports will decline.

Other factors affecting U.S. exports are quality and reliability. In 1984/85, the United States could produce 3-5 million bales of high quality California and Arizona cotton—about 75 percent of which is usually exported. The Delta may produce a total of 2.5-3.5 million bales, and one-fifth of that may also be high-grade cotton destined for export.

U.S. Outlook for 1983/84

Mill Use To Continue Down

U.S. mill use of cotton is following a traditional postrecession pattern related to the decline and rebuilding of textile and apparel inventories. In August 1983, mill use reached 6.1 million bales at a seasonally adjusted annual rate (SAAR) but trended lower through December (figure 3). Mill use in January rebounded to 6.4 million bales SAAR.





Mill use performances following past recessions demonstrate a definite cyclical pattern (figure 4). Counting the 1980 and 1982 recessions as one, the United States is in its sixth economic recovery since May 1954. During each of the recovery cycles, including the current, mill use rose to approximately its pre-recession level in an average of 14 months. Following four of the previous five recovery peaks, mill use declined at an average annual rate of 8.6 percent, and only in 1971 was mill use able to establish a 12-month plateau near the peak.

During September-December 1983 of the current cycle, mill use declined at an average annual rate of 15 percent. December mill use equaled 5.78 million bales, SAAR, and October-December mill use averaged 5.85 million. After falling 3 months in a row, the 3-month centered average of seasonally adjusted daily rates during the previous five recovery cycles never turned around, establishing a new positive trend. Consequently, it is unlikely that mill use in 1983/84 will be able to maintain a 1971-style plateau at 6 million bales. Assuming an average decline of 10 percent in seasonally adjusted rates during 1983/84, mill use for the year may total 5.8 million bales.

Domestic Consumption Greater Than Retail Sales in 1983

In 1983, domestic cotton consumption (mill use plus the textile trade deficit) grew about three times as much as retail sales of textile products. Over one-half of cotton mill use is associated with apparel production, and deflated retail sales data at apparel and accessory stores suggest that unit sales of apparel increased about 6 percent during 1983. Retail sales at apparel and accessory stores do not account for all clothing activity because sales from factory outlets and department stores are not included. However, when deflated by the seasonally adjusted consumer price index for apparel, sales from apparel and accessory stores do serve as useful indicators of retail activity.

The slope of a trend line through these sales from fourth-quarter 1982 through fourth-quarter 1983 indicates a rate of growth of 6.2 percent (figure 5). Using the same method to calculate rate of growth during the four quarters following the 1970 and 1974 recessions, increases of 6.3 and 6.7 percent, respectively, are derived. However, real apparel and accessory store sales began

Figure 4

Mill Use Cycles

Three-month centered average of seasonally adjusted daily rates as a percentage of each trough.





Table	4Est	imated	U.S.mill	consum	ption of	raw
c	otton b	y major	type of	textile	product	

	198	32		1983 ¹	
Item	3 Q	4 Q	1 Q	2 Q	3 Q
		1,0	000 bale	s ²	
Wholly or chiefly					
cotton					
Duck	28	29	31	31	29
Sheeting	73	83	90	94	96
Print cloth	61	67	73	67	68
Denim	226	269	303	313	294
Toweling	145	184	176	180	198
Blanketing	19	28	24	25	25
Corduroy	56	52	58	61	57
Miscellaneous	87	113	99	115	105
Total	695	825	854	886	872
Polyester/cotton fab.					
Batiste	7	5	7	5	6
Bed sheeting	71	70	80	87	83
Broadcloth	12	13	15	16	16
Twills	56	58	65	64	54
Oxfords	4	5	6	6	10
Poplins	19	19	20	20	20
Sateens	1	1	1	1	1
Yarn dyed fabric	19	14	16	16	17
Print cloth	36	39	47	46	48
Other	20	20	21	25	30
Total	245	244	278	286	285
Other textile prod.					
Knit fabric	339	400	405	410	396
Narrow	11	11	10	10	10
Thread	20	21	18	17	16
Rope	12	12	11	11	10
Total	382	444	444	448	432
Grand total	1,322	1,513	1,576	1,620	1,589
Actual mill cons.	1,252	1,307	1,429	1,485	1,461
Residual	+70	+206	+147	+135	+128

¹Preliminary. ²480-pounds, net weight. ³Includes fine cotton fabrics Based on data from Bureau of the Census reports and National Cotton

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

recovering before the 1970 and 1974 recessions ended, while sales during 1983 did not begin rising until the second quarter of the recovery. Thus, apparel sales in 1983 were less robust than might have been expected. Back-to-school sales during third-quarter 1983 and sales during December 1983, which declined from the November volume, may have disappointed some clothing retailers.

Domestic consumption of cotton increased about 20 percent in 1983, based on a comparison of fourth-quarterto-fourth-quarter activity. The 1983 cotton textile trade deficit equaled 1.9 million bales, and mill use reached about 5.9 million. Therefore, domestic consumption hit 7.8 million bales—the highest since 1973. While the increase in mill use during 1983 was typical for a recovery year, the rise in the cotton textile trade deficit was unprecedented. From 1970 to 1971, the deficit was essentially unchanged at about 550,000 bales. From 1974 to 1975, the deficit grew from 229,000 bales to 307,000-a 34-percent increase. However, from 1982 to 1983, the deficit rose from 1.3 million bales to 1.9 million—a 42-percent change. Compared with past

Figure 5

Retail Sales at Apparel and Accessory Stores, Seasonally Adjusted, Deflated





Date of trough 1982 - IV, 1975 - I, 1970 - IV USDA

recoveries, the weaker increase in retail sales and stronger rise in the cotton textile trade deficit, during the current mill use cycle, may signal a sharper-thanaverage decline in seasonally adjusted rates of mill use.

Fiber Prices and Textile Imports Affecting Cotton's Market Share

Cotton textile imports have probably encouraged an increase in domestic cotton consumption but a decrease in cotton's share of mill use. Cotton accounted for about 23.1 percent of U.S. mill use in 1983—a record low—and cotton's share of domestic fiber consumption fell to 27 percent (figure 6). The cotton/polyester price ratio and an influx of cotton textile imports contributed to the changes in market share. Cotton prices, on a raw fiberequivalent basis at Group B mill points, averaged 10 cents a pound above polyester prices during 1983. While cotton was temporarily priced an average of 4 cents under polyester during 1982, the current price relationship is typical of most of the 1970's.

Cotton's share of mill use and cotton's share of domestic consumption were within 1 percentage point of each other until 1978. However, since 1979, cotton's share of domestic consumption has risen; it now exceeds cotton's share of mill use by about 4 percentage points. Possibly foreign products with a high cotton content are forcing U.S. mills out of cotton by holding cotton yarn, fabric, and apparel prices below those at which U.S. producers can operate. Because foreign mills generally produce yarn and fabric with higher cotton blends, textile imports are causing an increase in the retail supply of cotton in the United States.

Cotton Textile Trade Deficit Accelerating

The cotton textile trade deficit totaled a record 1.9 million bales on a raw fiber-equivalent basis in 1983 (table 5). The deficit accelerated during the year.



Cotton textile imports equaled about 2.336 million bales in 1983. During January-March 1983, imports averaged 2.244 million bales, SAAR, but grew to an average of 2.551 million, SAAR, during October-December. The increase occurred despite import quotas, import tariffs, and Government attempts to cover fast-growing import categories with new quotas through the "consultation call" mechanism.

Cotton textile exports equaled 458,000 bales in 1983, down from 528,000 in 1982 and 1.1 million in 1980. Exports in 1983 were the lowest since the recession year of 1970. At SAAR, exports averaged 459,000 during October-December— indicating neither growth nor decline from the 1983 average. Because imports rose at seasonally adjusted rates during the year, the cotton textile trade deficit rose from an average of 1.760 million bales during January-March to an average of 2.093 million bales during October-December.

The cotton textile trade deficit may reach 2.2 million bales in 1984. The dollar is expected to remain strong, and production costs for U.S. textiles and apparel often exceed foreign costs per unit of output. Tariffs on imported cotton textiles are declining slowly, and quotas may only limit the rate of increase in imports.

U.S. import tariffs on cotton yarn, woven cotton fabrics, and wearing apparel and accessories averaged 7, 12, and 26 percent of foreign export values, respectively, in 1982 (table 6). These rates will decline about 2 percent a year through 1987. The tariffs, especially on wearing apparel and accessories, undoubtedly inhibit imports; reducing tariffs will affect U.S. textile trade.

U.S. tariff schedules differentiate between textile products on the basis of fine differences in yarn count, fabric quality, apparel quality, principal fiber content, and country of origin. Coarser, lower quality products suffer lower tariff rates, so average tariff rates vary by country of origin depending on the type and quality of items being exported. Cotton yarn and woven cotton fabrics have lower tariff rates than wool and manmade fiber products. For example, the trade-weighted average tariff on woven wool fabrics in 1982 was 38 percent and on woven manmade fiber fabrics, 22 percent.

Quotas may be less effective at inhibiting U.S. textile imports than tariffs. Only about half of U.S. cotton textile imports, on a square yard-equivalent basis, are charged against import quotas (table 7) while tariffs cover all textile imports.

The Multi-Fiber Arrangement (MFA) essentially constitutes a set of rules that signatory countries have agreed to follow when trying to limit textile imports. Under the MFA, importing and exporting countries negotiate bilaterally to set mutually acceptable trade limits. The purpose of the MFA is to allow third-world countries to develop their economies by expanding textile exports without destroying textile industries in developed countries. Accordingly, the MFA prevents the United States from establishing global quotas designed to reduce imports. Rather, the United States must seek to control the rate of growth in imports of only certain items. Controls on new import categories can be set only after those particular imports have proven to be disrupting the domestic industry.

-			ton textile trade in		
	Seasonal variation			rate	
Month	index	Imports	Exports	Imports	Exports
				1,000 480-lb bales	
Janunary	106.4	92.5	2,260.0	546.3	1,713.7
February	98.2	95.8	2,202.6	462.2	1,740.4
March	99.1	111.3	2,268.1	443.6	1,824.5
April	90.3	105.2	2,145.5	458.7	1,686.4
May	98.5	103.1	2,288.1	411.0	1,877.1
June	109.2	104.4	2,318.0	441.0	1,877.0
July	105.5	90.2	2,448.9	417.5	2,031.4
August	107.7	91.2	2,426.3	483.9	1,942.4
September	101.3	100.2	2,488.6	478.7	2,009.9
October	97.4	102.3	2,617.0	479.0	2,138.0
November	93.4	98.2	2,519.5	471.2	2,048.3
December	88.6	101.4	2,517.1	425.7	2,091.4

Table 5U.S	. cotton	textile	trade	in	1983
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Table 6.—Approximate 1982 tarif	f rate	as	percent
of fas value ²			

Countries	Cotton yarn	Woven cotton fabrics	Wearing apparel and accessories
Hong Kong	1	10	23
PRC	0	11	24
Taiwan	5	10	31
Pakistan	5	9	19
Korea	7	11	30
India	(1)	11	23
Japan	12	17	19
Peru	9	8	23
Singapore	(1)	9	25
Brazil	9	10	16
Thailand	14	11	26
Philippines	(1)	17	27
Indonesia	(1)	7	22
Sri Lanka	(1)	(1)	22
Macau	(1)	(1)	24
Mexico	2	11	30
Dom. Republic	(1)	9	25
Egypt	4	9	19
Canada	7	9	23
Colombia	10	11	29
Haiti	8	11	27
Romania	(1)	(1)	25
Portugal	8	13	20
Italy	8	16	21
Poland	(1)	16	18
France	8	14	21
W. Germany	11	14	22
El Salvador	9	13	32
World average	7	12	26

¹Imports less than \$5,000. ²Last year for which trade weighted data available.

The United States has bilateral agreements involving cotton textile imports with 21 countries. Some of the bilaterals cover all cotton textile imports from the exporting countries (Brazil, Colombia, the Philippines, and Singapore), but most agreements cover only some categories. When imports of an uncovered category are shown to be disruptive, the United States can issue a consultation call and negotiations to establish a quota on the category in question take place. The United States issued over 100 consultation calls in 1983, and more are being issued in 1984.

As of December 31, 1983, about two-thirds of U.S. cotton textile imports from Hong Kong, Taiwan, and Korea were covered by limits. From Hong Kong, sheeting and trousers were over 90 percent filled in 1983, and knit shirts, twill and sateen fabric, blouses, and underwear categories were over 80 percent filled. Shirts, trousers, twill and sateen fabric, print cloth, and nightwear from Taiwan came close to reaching limits. From Korea, only twill and sateen fabric came close to its limit. In Hong Kong, quotas are auctioned to competing exporters, so the percentage filled for each category only partially reflects the inhibiting effect of the agreements. The 1984 limits for each country increased about 1 percent.

Only about one-third of U.S. cotton textile imports from Japan were covered by limits in 1983, and no category was close to filled. Japan is affected by textile imports; consequently, Japanese mill use of cotton is declining.

Only about one-half of Chinese cotton textile exports to the United States were charged to 1983 limits. Some categories, such as nightwear, shirts, and gloves, were overshipped and will be applied to 1984 limits. Limits on imports from China will grow by an average of 3.8 percent in 1984.

Table 7Status of quantitative limitations on U.S. imports of cotton textiles under the MFA as of Decem	er 31, 19	983
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Country of origin	Number of cotton categories covered	Agreement year	Termination of current agreement	Agreement year limit	Imports charged	Percent filled	Total im- ports agree- ment year to 12/31/83	Percent of total charged	Expected limit growth per year
				Million eq square	uivalent yards				Percent
Brazil	All	4/1/83-3/31/84	3/31/85	183.1	97.9	53.4	97.9	100	7
China	18	1/1/83-12/31/83	12/31/84	290.2	252.6	87.0	510.5	49.5	3.8
Colombia	All	7/1/83-6/30/84	6/30/86	94.0	8.2	8.7	8.7	100	7
Haiti	7	3/1/83-2/29/84	2/28/84	31.1	14.2	45.7	14.2	100	7
Hong Kong	20	1/1/83-12/31/83	12/31/87	537.6	419.2	78.0	638.0	65.7	0.5-1.5
India	10	1/1/83-12/31/83	12/31/87	74.3	67.3	90.6	157.1	42.8	3-4
Indonesia	7	7/1/83-6/30/84	6/30/85	29.9	12.6	42.1			7
Japan	5	1/1/83-12/31/83	12/31/85	70.0	35.4	50.6	113.8	31.1	0.5-1.5
Korea	21	1/1/83-12/31/83	12/31/87	155.3	111.6	71.9	178.3	62.6	1
Macau	All	1/1/83-12/31/83	12/31/83	46.7	21.7	46.5	24.1	90.0	6.25
Malaysia	10	1/1/83-12/31/83	12/31/84	22.9	17.4	75.7	29.0	60.0	6.5
Mexico	23	1/1/83-12/31/83	12/31/85	38.4	16.8	43.8	30.8	54.5	7
Pakistan	27	1/1/83-12/31/83	12/31/86	242.7	149.3	61.5	215.5	69.3	7
Philippines	All	1/1/83-12/31/83	12/31/86	153.9	46.9	30.5	59.4	79.0	7
Poland	All	1/1/83-12/31/83	12/31/84	49.7	2.3	4.6	2.7	85.2	6-7
Singapore	All	1/1/83-12/31/83	12/31/85	117.2	29.6	25.3	42.6	69.5	5
Romania	37	1/1/83-12/31/83	12/31/87	61.3	9.5	15.5	9.5	100	7
Sri Lanka	7	5/1/83-5/31/84	5/31/88	45.7	19.2	42.0	42.7	45.0	6
Taiwan	24	1/1/83-12/31/83	12/31/87	275.9	201.0	72.8	317.7	63.3	2.5
Thailand	15	1/1/83-12/31/83	12/31/87	76.3	54.8	71.8	61.4	89.3	6
World				2,596.2	1,587.5	61.1			

The country with the highest overall percentage of limits filled in 1983 was India—an increasingly important exporter with quota growth of 3 to 4 percent a year. Pakistan was also affected by quotas and substantially overshipped its limit on other cotton manufactures (shop cloths). Pakistan's limits will grow by 7 percent in 1984.

The remaining countries with limits appear to be little affected by the agreements. In addition, Eastern and Western Europe, Canada, Australia, New Zealand, Peru, the Dominican Republic, and El Salvador had no quantitative limits on their exports of cotton textiles to the United States as of December 1983.

Exports Boom; Early Forecasts Too Low

At SAAR, U.S. raw cotton exports averaged over 6.9 million bales during the 3 months ending January 31; exports are expected to decline only slowly from that rate during the rest of the season (figure 7). Purchases by the Soviet Union and Pakistan during January-July 1984 may offset the effects of increased supplies from the Southern Hemisphere. For the season, U.S. exports are now estimated at 6.8 million bales. Before revisions of the crop estimates for Pakistan, India, and the Soviet Union in November 1983, exports were estimated at 5.3 million bales.

Production declines in several important exporting countries are causing U.S. exports to increase. China's desire to export textiles rather than cotton and the lower quality of much of that country's production will limit the impact of the Chinese crop on world trade.

Pakistan's production is estimated to have declined 1.5 million bales to 2.2 million; Egyptian production about 300,000 bales; and Brazilian production about 500,000 bales. Production in the Soviet Union, while up about 800,000 bales from last season, is below expectations. Other smaller countries, such as the Ivory Coast, Senegal, Israel, Ecuador, and Spain, also produced less cotton in 1983/84 than during the previous season. While these declines have been partially offset by increases elsewhere, the net effect has been weak competition for U.S. exports. Increased foreign consumption is having only a limited effect on U.S. exports. The largest consumption increase, 1.3 million bales, is occurring in China where increased production will entirely offset the gain in use. Cotton mill use is rising very little in other countries, and is associated almost exclusively with increased domestic production. The few countries in which higher mill use is aiding U.S. exports include Hong Kong and Thailand, where consumption is up a combined 110,000 bales. Consumption will rise about 90,000 bales in Eastern Europe, and Soviet purchases of U.S. cotton may be intended for transshipment to these markets.

Farm Prices Higher

U.S. production in 1983 is estimated at 7.725 million bales, but ginnings through February 1, 1984, indicate that the final total might be slightly higher.

With a 1983/84 supply of 15.7 million bales, mill use of 5.8 million, and exports of 6.8 million, the ratio of use to supply would rise to 0.80, and ending stocks would fall to

Figure 7

U.S. Cotton Exports at Seasonally Adjusted Annual Rates

Million bales



Table	8Forecast	U.S.	exports b	y destination	in	1983/84
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	1 000 480-lb	Imports from U.S. as					
Importer	bales	1981/82	1982/83	1983/84			
Japan	1,800	0.45	0.42	0.58			
Korea	1,250	.93	.88	.79			
Taiwan	450	.62	.41	.41			
Hong Kong	310	.34	.23	.33			
China	5	.42	.04	.03			
Italy	340	.13	.12	.35			
France	155	.08	.07	.19			
West Germany	160	.10	.10	.17			
Canada	230	.92	.92	.92			
Indonesia	370	.58	.57	.75			
Thailand	240	.75	.50	.57			
Other	1,470						
Total exports	6,780	.32	.28	.36			

3.3 million bales. The use-to-supply ratio was 0.57 in 1982/83. There is a strong correlation between the use-to-supply ratio and average farm prices, with prices rising or falling as demand becomes stronger or weaker relative to supply (figure 8). Farm prices in 1982/83, supported by the loan rate, averaged 59.1 cents a pound. Because demand is stronger relative to supply in the current season, prices during August-January averaged 66.4 cents a pound—more than 7 cents above 1982/83 (figure 9).

The deficiency payment rate on the 1983 crop equaled 12.1 cents a pound (the target price minus the calendar year average farm price). In 1983, these prices were 76 cents and 63.9 cents a pound, respectively. Total payments may exceed \$400 million.

World Cotton Outlook for 1983/84

Ending Stocks Dropping Little

A 4-million-bale production increase in China, 0.8-million bale increase in the Soviet Union, and smaller increases in Australia, Argentina, Peru, Syria, and Turkey are offsetting production declines in the United States, Pakistan, and Brazil (table 9). As a result, 1983/84 world production may equal 1982/83's 67.5 million bales, and stocks may decline only about 2 million. World consumption could rise by about 2 million bales to 69.5 million, but almost the entire increase will occur in the United States and China. World exports in 1983/84 are estimated at 18.9 million bales—about 300,000 above 1982/83.

Chinese production in 1983 rose 24 percent to 20.5 million bales, mainly because yields rose 21 percent to about 664 pounds an acre. Better varieties, intensive cultivation, hand picking, and 6 consecutive years of good weather explain China's success. Yields in the Soviet Union rose about 6 percent in 1983-mostly because of better weather-and equaled about 774 pounds a acre. Although Soviet cotton acreage is irrigated, the Soviet Union did not acquire as much lint from their seed cotton procurements as forecast-indicating a possible quality problem. Late-season insect infestations and poor weather were responsible for the production declines in both Brazil and Pakistan in 1983. Meanwhile, Egyptian production fell 13 percent because of a reduction in cotton acreage in favor of grain production. Egyptian yields actually rose about 8 pounds an acre.

Large acreage increases in Argentina (44 percent), Australia (19 percent), Greece (50 percent), Colombia (114 percent), Mexico (23 percent), Peru (27 percent), and South Africa (29 percent) explain most of the 1983 production increases in other countries. High local-currency cotton prices relative to competing crop prices are encouraging increased cotton acreage. In addition, cotton is a labor-intensive crop, suited to conditions in many low-wage countries. Increased yields in Australia (24 percent), Syria (15 percent), Peru (81 percent), and South Africa (50 percent) have also boosted production in those countries.

Increased world consumption in 1983/84 is occurring partially in response to increased production. Consumption is rising in China, Syria, and Turkey as their production increases. Greater consumption in Western and Eastern Europe and the Soviet Union has been made possible by larger Soviet, Greek, and Spanish crops. However, in the major markets for U.S. cotton-Japan, Korea, Hong Kong, and Taiwan-expected consumption is down a combined 115,000 bales, despite the economic recovery. Ironically, those countries are now experiencing competition in textile production from lower wage countries. Consumption is rising in India because a textile mill workers' strike has ended.

World Stocks-to-Use Ratio Declining

The ratio of world ending stocks to consumption is expected to decline from 0.33 in 1982/83 to 0.30 in 1983/84. Further, because of smaller production in the United States, Pakistan, and Brazil, and a record crop in

Figure 8







Voor	Linited		World less United	l States		World ³
beginning August 1	States	Major importers ¹	Major exporters ²	Other	Total	wond
			Million 480-poun	d bales		
1982/83 Supply						
Beginning stocks	6.6	9.4	4.9	7.8	22.0	28.7
Production	12.0	17.2	22.6	15.8	55.6	67.5
Imports	(4)	15.7	.4	2.9	19.0	19.0
Use						
Mill use	5.5	31.6	15.4	15.1	62.1	67.6
Exports	5.2	.4	7.9	5.1	13.4	18.6
Ending stocks	7.9	10.3	4.4	6.2	20.9	28.9
1983/84 Supply						
Beginning stocks	7.9	10.3	4.4	6.2	20.9	28.9
Production	7.7	21.4	22.0	16.4	59.8	67.5
Imports	(4)	15.0	.8	3.1	18.9	18.9
Use						
Mill use	5.8	32.9	15.5	15.4	63.7	69.5
Exports	6.8	.8	7.1	4.3	12.1	18.9
Ending stocks	3.3	13.0	4.6	6.0	23.6	26.9
-						

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.

China, an increased proportion of world ending stocks will be held in countries classified as traditional net importers. The stocks-to-use ratio for net importing countries is expected to rise from 0.30 to 0.33, while the ratio in net exporting nations should fall from 0.37 to 0.28. However, for traditional importing countries except China, the stocks-to-use ratio will not change significantly in 1983/84, equaling 0.27. This suggests that world trade in 1984/85 will receive little stimulus from stock rebuilding by importers.

The simple correlation between the Outlook "A" index and the stocks-to-use ratio has been -0.71, indicating that the ratio explains about half the variation in world price movements. Since 1972/73, the ratio has been inversely related to yearly changes in the "A" index, with a decline of 0.03 in the stocks-to-use ratio corresponding to roughly a 5-cents-a-pound increase in the "A" index. However, the "A" index averaged 76.65 cents a pound in 1982/83, but increased about 13 cents to an average of 89.45 cents during August-December 1983. The increase is more than double the price gain implied by a drop in the world stocks-to-use ratio; the increase is better explained by the decline in the stocks-to-use ratio for the world less China, from 0.34 in 1982/83 to an expected 0.27 in 1983/84. Because China now participates very little in world cotton trade, that country's ending stocks are having only a limited effect on world prices.

ELS Cotton Situation in 1983/84

Mill Use Above Trend; Stocks Declining

Mill use of extra-long staple (ELS) cotton is expected to reach 70,000 bales in 1983/84, and exports could hit

30,000. With production estimated at 91,000 bales, ending stocks may decline by about 15,000 bales from the carryin of 93,000.

Mill use of ELS is subject to the same cyclical forces as use of upland cotton. The building of new inventories during 1983 pushed ELS mill use to 84,500 bales, SAAR, during August-up from 40,300 in October 1982. ELS consumption has since trended lower, and the average of

Table 10.—Index of prices of selected cotton growths and qualities, and price per pound of U.S. M-1-3/32" c.i.f Northern Europe

	19	983	1	984
Month	Index ¹	U.S. M 1-3/32"	Index ¹	U.S. M 1-3/32"
		Ce	ents	
January February March April May June July August September October November December	71.88 74.32 78.89 80.23 81.96 86.01 88.44 90.80 89.85 88.11 89.13 89.36 84.08	74.25 75.50 81.35 80.75 80.63 85.05 88.06 88.94 88.15 88.06 88.81 89.25 84.07	87.58	85.50

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

Cotton Outlook, Liverpool Cotton Services.

seasonally adjusted rates during October-December 1983 was 70,027 bales. The decline will probably continue, in tandem with the decline in use of all cotton.

Underlying the cyclical behavior is a real upward shift in the demand for ELS, which may be explained by the introduction of nontraditional uses of ELS cotton in shirts, sheets, and towels. An estimated trend line through ELS mill consumption for 1968/69-1982/83 explains 86 percent of the variation in ELS use and indicates a decline of about 5,000 bales a year. Trend consumption in 1983/84 would be 42,000 bales—about 28,000 below the expected level. Even when growth in upland mill use and the effects of the Commodity Credit Corporation (CCC) ELS sales program are accounted for, ELS mill use of only 60,000 bales is indicated.

Declines in foreign production, particularly in Peru, have encouraged larger U.S. exports of ELS. The increased use of ELS, foreign and domestic, has boosted farm prices from an average of 98.5 cents a pound during 1982/83 to \$1.14 during August-December 1983.

American Pima production in 1983 reached about 46,000 bales in Arizona, 13,000 in New Mexico, and 31,500 in Texas. Since 1981, ELS production has declined in Arizona and risen in New Mexico and Texas.

ELS Cotton Outlook for 1984/85

Production Up; Disappearance Even

Production of ELS should be about as profitable as upland production in 1984, despite a change in the ELS program. Assuming an average ELS yield of 660 pounds an acre and an average upland yield of 1,000, gross revenue per acre on both ELS and upland in 1984 could be about \$700. The *Prospective Plantings* report indicates that ELS acreage may rise by 15-20 percent from 1983's 62,000.

ELS mill use will probably decline in 1984/85, as trends since 1968 and slower economic growth beginning in late 1984 offset the shift in demand for ELS. Exports could remain near the 1983/84 level, however, because production difficulties on ELS acreage in Peru may continue. Ending stocks in 1984/85 could remain essentially unchanged from beginning stocks of about 80,000 bales.

MANMADE FIBER REVIEW

Slow Fourth Quarter

The textile industry grew sluggishly in the fourth quarter as measured by the quantity of fibers produced and shipped to mills. This resulted from slower consumer buying of nondurable goods, an increased rate of consumer saving, and continued high interest rates. Manmade fiber production in the fourth quarter, 2.46 billion pounds, was less than 2 percent above the third quarter (table 31). Staple fiber output, at 1.13 billion pounds, was only slightly above the previous quarter. Almost all fourth-quarter growth was in filament fibers whose output increased 3 percent. Shipments (domestic plus exports) of nonglass manmade fibers in the fourth quarter totaled 2.07 billion pounds, slightly above the previous quarter and 18 percent above a year earlier. Noncellulosic fiber shipments totaled 1.92 billion pounds and celloulosic fiber shipments, 0.15 billion pounds.

Domestic shipments of noncellulosic fibers were 1.80 billion pounds in the fourth quarter, slightly more than the third quarter but 21 percent above a year earlier. Overseas shipments of manmade fibers, 0.13 billion pounds in the fourth quarter, were 1 percent below the previous quarter and 14 percent below a year earlier.

Manmade fiber output in 1983 was 9.34 billion pounds, almost 18 percent above 1982, but 5 percent less than in 1981. Staple production was 4.34 billion pounds in 1983, 16 percent more than the previous year. Filament production was 5 billion pounds in 1983, 20 percent more than in 1982.

Manmade fiber production capacity in 1983 was 11.9 billion pounds, slightly more than 1 percent below 1982. Staple capacity was 5.3 billion pounds, 1 percent less than in 1982, while filament capacity was 1.5 percent below 1982. The operating rate of manmade fiber plants in 1983 averaged 78 percent; the low rate of 70 percent in the first quarter brought down the average for the year. Staple fiber plants operated at an average of 80 to 83 percent of capacity in the last three quarters of 1983, while filament plants operated at rates ranging from 77 to 82 percent. To obtain a desired rate of return on investment, fiber producers need to operate at 85 to 90 percent of capacity.

Recent data on future capacity construction indicate olefin staple and nylon staple will have annual expansion rates of about 9 percent and 5 percent, respectively, into 1985. Two filament fibers, glass and olefin, are expected to have average annual capacity growth of 3 to 4 percent. Three fibers will likely have a decline in capacity: acetate filament, 5.2 percent a year; polyester filament, 0.9 percent; and acrylic staple, 0.3 percent.

Fiber Use Down in the Third Quarter

Consumption data for all three major manmade fiber markets reflected a slight decline in use in the third quarter (table 11). The largest market, woven products, used 604 million pounds of fiber in the third quarter, down 3 percent from the second. Within this market, nylon fibers had a 10-percent decline, while the other fibers had slight increases. Polyester fibers constituted two-thirds of this market.

The carpet market leveled off in the last half of 1983, after a 26-percent rise in the second quarter. Thirdquarter total fiber use in carpeting was 555 million pounds, down slightly more than 2 percent from the second quarter. Nylon fibers, constituting almost threefourths of this market, declined 1 percent. This decline occurred in the use of nylon staple for plush-type carpets found in executive offices. Filament nylon, used to make the loop pile-type carpet installed in high-traffic areas, had no decline in the third quarter. Preliminary fourthquarter data indicate that slightly less nylon staple and

Table 11.-U.S. major manmade fiber markets¹

		1982				1983			
type	1Q	2Q	3Q	4Q	1Q	2Q	3 Q	4 Q	
				Million p	ounds				
				Woven pr	oducts				
Total	480.5	491.0	476.8	503.9	534.2	621.4	604.3	NA	
Polvester	318.1	322.1	318.6	337.3	351.7	417.4	401.1	NA	
Ravon	38.2	34.4	35.1	37.8	40.8	45.3	47.0	NA	
Olefin	49.3	53.6	48.8	49.0	57.5	65.7	66.8	NA	
Nylon	41.3	43.5	39.8	44.2	43.7	48.1	43.0	NA	
Acetate	23.2	24.0	21.9	22.6	25.1	29.4	30.1	NA	
Acrylic	10.4	13.4	12.6	13.0	15.4	15.5	16.3	NA	
				Knit pro	ducts				
Total	318.7	332.6	318.8	315.4	373.0	395.8	373.6	NA	
Polyester	151.4	151.6	150.7	150.5	191.1	196.6	184.6	NA	
Nylon	64.6	61.3	63.0	64.2	71.1	76.0	72.9	NA	
Acrylic	79.1	95.6	85.1	83.3	89.6	96.5	93.4	NA	
Acetate	20.6	21.2	17.1	14.4	18.7	24.1	20.7	NA	
Rayon	3.0	2.9	2.9	3.0	2.5	2.6	2.0	NA	
				Carpe	ets				
Total	359.4	412.9	439.2	408.9	451.5	568.8	555.0	NA	
Nylon	248.7	291.5	319.8	293.9	319.2	417.1	412.3	401.2	
Olefin	86.1	89.2	91.7	84.5	97.6	111.8	109.5	NA	
Polyester	24.6	32.0	27.6	30.5	34.7	39.8	33.2	31.3	
Acrylic	-	_	_	_	_	_	_	NA	
Rayon	-	.1		-	-	0.1	_	NA	

¹Filament plus staple.

NA = not available.

Compiled from Textile Organon.

the same quantity of nylon filament were used by the carpet market in the fourth quarter. The only other important carpet fiber, olefin, declined 2 percent.

The knit products market for manmade fibers, 374 million pounds, declined more than 5 percent in the third quarter. This decline was rather general, affecting the filament and staple forms of all the fiber types.

WOOL SITUATION

U.S. Situation

In 1983, the U.S. wool textile business completed the best year of the past decade. Industry sources believe that strong mill orders should continue into 1984. However, mill demand will slacken if economic growth slows in late 1984.

Mill consumption of raw wool in the fourth quarter was 37 million pounds, clean, which was the largest fourthquarter since 1972. Apparel wool was 34.5 million pounds, 41 percent more than last year. Raw wool use in carpets was 2.5 million pounds, 16 percent above a year earlier (table 12).

In 1983, U.S. raw wool use was 144 million pounds, clean, the most raw wool used in any year since 1973 when 151.3 million pounds were consumed. The woolen system used 66.5 million pounds, the largest quantity since 1969. There was strong consumer demand for apparel made by these mills, including women's coating and heavy skirts. The worsted system used 65.7 million pounds, which was exceeded only by 1973's 68.2 million. Much of the worsted system wool is for men's suiting fabric. About 59 percent of the woolen system's and 64 percent of the worsted system's raw wool were grades 60's and better. Raw

Table 12.-U.S. mill consumption of raw wool, scoured basis

Year	Apparel wool	Carpet wool	Total
		1.000 pounds	
		1,000 pounds	
1981	127,752	10,896	138,648
1982	105,857	9,825	115,682
1983 ¹	132,151	11,892	144,043
JanMar. ¹			
1982	31,988	2,576	34,564
1983	31,269	2,981	34,250
AprJune ¹			
1982	26,960	2,405	29,365
1983	34,291	3,128	37,419
July-Sept. ¹			
1982	22,415	2,728	25,143
1983	32,085	3,332	35,417
OctDec.1			
1982	24,494	2,116	26,610
1983	34,506	2,451	36,957

¹Preliminary

wool use in carpets was 11.9 million pounds in 1983, 10 percent more than the average of the past 5 years and the most since 1979, when 13 million pounds were used (table 13).

Imports of raw wool, for both the fourth quarter and for the year, were the largest quantities in more than a decade (table 14). Fourth- quarter imports were 25.3 million pounds, clean, divided between 9.5 million pounds duty-free and 15.8 million dutiable. Imports for the year were 78.1 million pounds. Duty-free imports were 28.7 million pounds; 95 percent came from three countries: New Zealand (76 percent), the United Kingdom (12 percent), and Argentina (7 percent). Dutiable imports were 49.4 million pounds, of which 92 percent came from three countries: Australia (71 percent), South Africa (17 percent), and New Zealand (5 percent). The raw wool content of imported textile products in 1983 was 149.8 million pounds.

U.S. raw wool exports in the fourth quarter were 183,000 pounds, clean. For 1983, exports were 1 million pounds, 25 percent less than the previous year. Almost all the exports were to three countries: the United Kingdom (41 percent), France (38 percent), and Canada (19 percent). The raw wool content of exported textile products in the fourth quarter was 6.1 million pounds and for the entire year, 20.8 million pounds.

Wool prices increased steadily from the beginning of the season in September through the fourth quarter and into January 1984. Territory medium-grade prices advanced 10 to 13 percent while, in contrast, the finer grades went up 2 to 3 percent. Most of the pressure on mediumgrade prices came from relatively larger consumption, especially in the woolen system. At the same time, somewhat depressed world demand has kept the prices of fine grades from rising too much. Finer grades, such as the 64's and 62's, rose from \$2.25 to \$2.30 a pound and from \$2.00 to \$2.50, respectively. The medium grades 56's and 54's advanced from \$1.23 to \$1.33 and \$1.30 to \$1.43, respectively. The price of grade 54's fleece wool went from \$1.18 to \$1.28. Prices of the finer grades of imported wool rose 1 to 3 percent during September-January. Grade 70's rose from \$2.75 to \$2.83; 64's, \$2.53 to \$2.58; and 62's, \$2.44 to \$2.47. The average U.S. farm price in January was 63.7 cents a pound. Prices this spring could be 5 to 10 cents higher than in 1983, and they are expected to reach the mid-70's by April or May (table 15).

Recent data indicated that the inventory of all sheep and lambs in the United States on January 1, 1984, totaled 11.4 million head, down 5 percent from a year earlier. The value of these animals was \$594 million, down 5 percent from a year ago. About 75 percent of the sheep and 74 percent of their value are in the Western States of the Pacific Coast, the Rocky Mountains, Texas, and South Dakota.

The number of sheep operations in 1983 was 126,500, a decline of slightly more than 1 percent from the previous year. These 1983 data indicate the numerical difference between the large flock operations and the small flocks, which constitute only part of the total farming operation. The average flock in the Western States was about

206 sheep, while the average flock in the Great Plains and Eastern States was about 35 sheep.

Table 13.—Wool supply and disappearance, clean content

Item	1982	1983 ¹	19841		
	Million pounds				
Stocks, Jan. 1	44.6	46.0	36.1		
Production	56.2	53.1	49.3		
Imports	61.4	78.1	80.0		
Diff. unacc.	0.9	3.9	9.4		
Total supply	163.1	181.1	174.8		
Mill use	115.7	144.0	140.0		
Exports	1.4	1.0	1.0		
Total use	117.1	145.0	141.0		
Stocks, Dec. 31	46.0	36.1	33.8		

¹Estimated.

Compiled from reports of the Bureau of the Census.

Table 14.–U.S. imports of dutiable and duty-free raw wool for consumption, clean content

Voor	Dutiable	Duty free	Tatal
	Duttable	Duly-free	Iota
		1,000 pounds	
1981	48,106	26,146	74,252
1982	39,988	21,433	61,421
1983	49,372	28,688	78,060
JanMar.			
1982	15,356	5,515	20,871
1983	10,549	5,639	16,188
AprJune			
1982	10,798	6,620	17,418
1983	12,216	6,903	19,119
July-Sept.			
1982	7,417	5,464	12,881
1983	10,818	6,614	17,432
OctDec.			
1982	6,418	3,834	10,252
1983	15,789	9,532	25,321

Compiled from reports of the Bureau of the Census.

Table 15.—Average U.S. farm prices per pound for shorn wool, grease basis

Month	1981	1982	1983 ¹
		Cents	
January	84.6	73.1	53.2
February	88.3	72.9	57.7
March	91.8	63.6	58.4
April	101.0	83.6	67.4
Мау	99.8	76.5	65.5
June	101.0	68.0	70.0
July	94.4	77.0	71.4
August	84.8	64.2	62.3
September	84.3	56.5	61.6
October	87.3	70.7	75.6
November	91.1	54.7	70.5
December	84.2	55.5	71.4
Weighted			
season			
average	94.5	68.4	NA

¹Preliminary.

NA = not available.

Recent cost data on sheep production indicate that the relatively profitable position of 3 to 4 years ago disappeared when lamb prices declined in 1981 and 1982 in response to expanded production. The added meat output was marketed at lower farm prices, but production expenses continued to increase.

Average cash receipts per ewe in production were \$50.58 in 1980, but they dropped to \$47.20 by 1982. Lower sheep and lamb prices were partially offset by larger income from wool and wool incentive payments. The revenue from wool (sales plus incentive payments) were 20 percent of total cash receipts in 1980 and 26 to 27 percent in 1981 and 1982. From 1980 to 1982, total cash expenses per ewe increased from \$36.94 to \$41.18. Interest was one of the major expense items, ranging from 21 percent of total (fixed plus variable) expenses in 1980 to 25 percent in 1982.

WORLD OVERVIEW

Weak Fourth Quarter, Stronger January

The weak demand for Australian wool that began the season continued through December. Australia's market indicator (a weighted-average index of 13 wool categories) declined from a high of 482 in September to 476 at the end of the year. In addition to subdued textile activity overseas, another factor dampening wool sales was a strengthening of the Australian dollar. To maintain the market, the Australian Wool Corporation (AWC) purchased 35 percent of the offerings during November and December, bringing the rate for the first 6 months to 30 percent. There has been a strong demand for the superfine grades, 70's and above, while prices for the finer grades, 60's-70's, remained unchanged. The medium grades, 54's-58's, declined in price by an average of 7 percent. At the end of the year, the AWC stockpile was 1.32 million bales, 52 percent more than at the beginning of the season.

In the first month after the Christmas recess, the Australian wool market experienced stronger demand, aided by a slight weakening in the Australian dollar. The market indicator rose 3 percent to 490, and price rises were recorded for both the merino and crossbred wool types. This stronger demand caused a 5-percent decline in the AWC stockpile. East Europeans and Japanese were the most active buyers.

The Australian Wool Production Forecasting Committee's latest estimate of wool production for 1983/84 was 1.51 billion pounds, less than 3 percent below last season's output. Since the end of the drought in the wool-growing areas, there have been signs of movement into wool production relative to cattle and lambs. Thus, flock retention rates will be higher, while slaughtering rates will be lower. The result should produce a considerable expansion in sheep numbers in 1984/85.

The New Zealand wool market saw moderate wool demand in the first half of the season. The market indicator ranged from a high of 307 in late September to a low of 282 in December. The principal buyers have been from Western and Eastern Europe and China. In January, New Zealand wool prices rose in response to stronger demand, and the market indicator rose to 314.

The demand for South African wool in the first half of the season was quite strong; the market indicator rose 11 percent, reaching 575 at the year's end. This demand resulted from the rand's favorable exchange ratios with the currencies of wool-importing countries; at the same time, there was an appreciation of the Australian dollar. Demand rose for all types of wool; 60's-62's rose 15 percent, and 64's-70's, 11 percent. A few record prices were realized for superfine grades. The principal buyers were Western Europe, Japan, and the United States. The demand for South African wool continued to be strong in January, with the market indicator rising more than 9 percent to a record 629.

MOHAIR

Last year was one of the best years in over a decade for American angora goat owners. In 1983, mohair exports were 9.65 million pounds, clean, 42 percent more than the average of the previous 5 years and the largest since 1972. These exports were valued at \$44.6 million. Three countries accounted for 82 percent of our exports: the United Kingdom (57 percent), Italy (16 percent), and France (9 percent).

The inventory of angora goats in Texas on January 1, 1984, was 1.15 million, nearly 1 percent above last year. Pasture conditions continue severe, but underbrush was still available. In some areas, vegetation should improve as weather warms this spring, because moisture levels are higher than a year ago.

About 1 million pounds of the spring clip have reportedly been advance contracted at \$5 to \$5.10 a pound. Some softening in the price for the spring clip has been forecast because of price resistance among overseas buyers to last fall's prices.

The South African clip now coming on the market should be smaller than last year's 14.3 million pounds because of the continued drought. The last sale, held December 9, cleared out South Africa's mohair holdings. French and British mills were the principal buyers. Adult hair was \$5.75 a pound; young goat, \$5.96; and kid, \$7.14. The first sale of the new clip was held in mid-February. South African mohair ought to move into the European market more easily than the American product because the rand has softened more in respect to European currencies than it has toward the dollar.

Little information has been reported from Turkey. Mohair output there has fallen 15 percent because of Turkey's effort to supply the strong meat demand from the Middle East.

The U.S. Raw Cotton Content of Textile Imports by Country of Origin, 1983

Terry Townsend, Edward H. Glade Jr., and John V. Lawler

National Economics Division

Abstract: U.S. cotton textile imports totaled 2.3 million bales on a raw fiber equivalent basis in 1983. Of this total, an estimated 500,000 bales originated as U.S.-produced raw cotton.

Keywords: Textile imports, raw fiber equivalents, foreign trade, cotton consumption, export return ratio.

Introduction

This article is the second in an annual series that provides country-of-origin detail on the quantity of raw cotton contained in U.S. textile imports. Estimates for 1982 were published in the March 1983 issue of the *Cotton and Wool Outlook and Situation* report. In addition, estimates of how much U.S.-produced raw cotton or fabric was contained in 1982 U.S. textile imports were reported in the September 1983 issue.

The methodology used in developing these estimates is essentially the same as that detailed in the two previous articles. Estimates are reported in pounds on a raw fiber-equivalent basis. Processing and manufacturing losses are accounted for so that the raw fiber equivalent can be directly converted to 480-pound bales.

U.S. Textile Imports by Country Of Origin

During 1983, the United States imported textiles containing about 2.3 million bales of cotton—an increase of nearly 25 percent from 1982 (table 16). While textiles were imported from 103 individual countries, the 34 listed accounted for over 97 percent of total textile imports.

Hong Kong continues to be the largest supplier of U.S. textile imports. Over one-fourth of U.S. cotton textile imports, or the equivalent of 602,000 bales, came from Hong Kong in 1983, compared with 490,000 equivalent bales in 1982. China, Korea, and Taiwan combined, accounted for over 30 percent of all U.S. cotton textile imports during 1983, about the same as the previous year.

U.S. imports from countries in the Western Hemisphere and Western Europe also showed moderate growth during 1983. Especially sharp increases occurred for Mexico and Brazil, where the volume of imports rose 56 and 77 percent, respectively, over year-earlier levels. A significant volume of cotton textiles is imported from countries that purchase little or no U.S. raw cotton. In 1983, approximately 45 percent of all U.S. cotton textile imports came from countries that accounted for only about 13 percent of total U.S. exports of raw cotton.

U.S. Cotton Content of Textile Imports

An estimated 22 percent of the cotton contained in U.S. textile imports during 1983 originated in the United States (table 17). This proportion is down from an estimated 29 percent in 1982 because U.S. cotton exports declined from 6.6 million bales in 1981/82 to 5.2 million in 1982/83.

Of the 10 largest cotton textile exporters to the United States, nine have export return ratios less than 0.50. U.S. cotton accounted for less than 25 percent of Hong Kong mill use in 1982/83, down from 36 percent in 1981/82. Further, over one-half of Hong Kong's cotton fabric supply in 1982 was imported, and about 40 percent of those imports came from China—a country now using almost no U.S. cotton. Hong Kong also imports large quantities of cotton fabric from Japan and Taiwan, but those countries have export return ratios of less than 0.50 themselves. In total, only about one-fifth of the cotton in U.S. textile imports from Hong Kong during 1983 was grown in the United States.

U.S. cotton exports to China have fallen to nil, and China imports little cotton fabric. The same is true for Pakistan, India, Mexico, Egypt, Romania, Poland, and Brazil.

Between 34 and 39 percent of the cotton used in Taiwanese and Japanese mills was grown in the United States, and neither country imports large quantities of cotton textiles for processing and reexport. The majority of Taiwan's cotton textile imports originate in Japan and Hong Kong, and those countries each receive a majority of their cotton textile imports from China. Consequently, little U.S. cotton is contained in the fabric imports of either Taiwan or Japan.

Over 80 percent of U.S. cotton textile imports from Korea are composed of U.S. cotton. Korea was the largest market for U.S. cotton exports in 1982/83, and cotton fabric imports compose only about 6 percent of Korea's fabric supply. The majority of Korean cotton fabric imports are produced in Japan. The export return ratio for Peru is about 0.19unchanged from 1982. Like Sri Lanka, Macau, the Dominican Republic, and Haiti, Peru imports no U.S. cotton directly, but does import cotton fabrics that contain U.S. cotton. About three-fourths of Peru's cotton fabric imports in 1982 came from the United States, and imports compose about one-fourth of Peru's cotton fabric supply. The majority of Sri Lanka's cotton fabric imports come from Hong Kong and Japan-countries

Table 10	6.—Raw	cotton	equivalent	of U.S.	. imports	by	country,	1983
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	·	Yarn, th	read, and v	voven fabr	ric	F	rimarily manufa	actured produ	icts			
		Sewing thread,	Woven	fabric	Total semi-	Pile fabrics	Table	Bed clothes	Gloves,			
Country of origin	Yarn	crochet, knitting yarn	100 percent cotton	Blends	manufactu- red	and mfrs.	damask and mfrs.	and towels	hosiery and hdkfs.			
					1,000 p	oounds						
Western Hemisphere:												
Canada	55	8	3,928	117	4,107	1	-	414	13			
Mexico	2,193	6	427	67	2,693	-	-	636	6			
El Salvador	2,857		101	-	2,958	1	-	1,326	-			
Jamaica		- 3	- 1	_	102	- 1	_		112			
Dominican Bepublic	20	_ 3	150	_	171	_ '	_	_ `				
Colombia	1 1 4 9	- 5	4 593	113	5.860	70	-	886	20			
Peru	4.854	8	17.616	298	22,776	-	_	344				
Brazil	10,455	32	18,901	533	29,921	578	6	5,453				
Other	1,757	1	687	72	2,517		-	573	98			
Total	23,438	62	46,405	1,199	71,104	650	7	9,636	249			
Western Europe:	•											
United Kingdom	187	31	1,093	84	1,396	10	-	362	10			
Ireland	1	_	4	17	23	35	-	65	~			
France	149	807	802	394	2,152	11	13	156	12			
West Germany	395	50	1,179	243	1,867	8	3	427	11			
Switzerland	14	32	544	28 197	048	~	3	4	24			
Spain	457	30	2 664	50	3 032		7	1 269	30			
Italy	100	77	2,004	1 538	2,366	8	_'	64	30			
Other	157	53	899	925	2,000	4	55	436	38			
Total	1,740	1,092	7,983	3,506	14,321	77	81	2,830	176			
Eastern Europe:												
East Germany	-	-	_	_	-		-	_	-			
Poland	-	-	2	5	6	3	_	355				
Romania	-	_	1	5	5		_	-	~			
Other	-	-	118	17	135	- ,	178	452	81			
Total	-	-	120	20	147	5	170	007	01			
India		_	7 288	216	7 504	96	1	4 540	307			
Pakistan	55	2	22,236		22,293	2.547	'	24,332	907			
Sri Lanka				_		_	_	398	850			
Thailand	123	2	7,965	4,675	12,765	9	-	231	494			
Singapore	280	-	2,229	251	2,760	-	_	144	84			
Indonesia	-	-	2,700	3,796	6,496	-	_	215	783			
Philippines	-	-	6	-	6		-	12	1,271			
Macau	-	_	23		23	15	_	3	275			
China-Mainland	21	_	44,086	10,769	54,876	1,581	38	14,682	9,515			
Korea Hana Kana	2,881	- 1	22,460	10,113	35,454	91	-	1,012	688			
	37	24	22 249	0,090	49,290	209	_	3,213	0,014			
Janan	1 185	24	9,956	4 204	15,388	2,202	135	463	1 861			
Other	330	16	1.088	688	2,123	47	-	1.253	229			
Total	4,884	90	213,679	59,375	278,029	6,973	175	56,616	24,861			
Africa:												
Egypt	10,307	1	6,260	-	16,568	-	-	70	15			
Other	511	-	19	1	531	19	-	63	1			
lotal	10,818	1	6,280	1	17,099	19	-	132	16			
world total	40,881	1,250	274,466	64,108	380,706	7,721	438	70,067	25,383			

which import cotton from the United States—and imports make up about one-half of Sri Lanka's supply. Macau trades mostly with Hong Kong and China, while the United States is the major fabric supplier to the Dominican Republic and Haiti.

Singapore imports small amounts of U.S. cotton; it imports cotton fabric mostly from Hong Kong, China, Japan, and Malaysia. Thailand, the Philippines, and Indonesia import larger quantities of U.S. cotton and have mill use return ratios between 0.39 and 0.69. Unlike Singapore, domestic production in Thailand, the Philippines, and Indonesia accounts for almost all of their fabric supplies.

Of the remaining countries, Canada is the only one with a large export return ratio-0.84. Canada imports most of its raw cotton from the United States and was one of

Table 16.-Raw cotton equivalent of U.S. imports by country, 1983-Continued

			Primarily manu	afactured produc	cts		
		Lace	Household				
Country of origin	Other wearing apparel	fabrics and articles	and clothing articles	Misc. products	Floor covering	Total primarily manufactu-	Total
	5			1.000 pound	ls		
Western Hemisphere [,]				.,	-		
Canada	3.257	5	56	314	40	4,100	8.207
Mexico	10.618	16	188	428	3	11,895	14,588
El Salvador	95	2	5	6	_	1,435	4,393
Jamaica	882	_	26	_	-	909	909
Haiti	4,755	25	89	77	8	5,072	5,174
Dominican Republic	7,125	483	136	158	-	7,903	8,074
Colombia	538	2	1	4	-	1,521	7,381
Peru	412	-	541	-	-	1,297	24,074
Brazil	4,794	6	64	55	434	11,390	41,311
Other	5,276	7	193	12	3	6,163	8,679
Total	37,753	547	1,299	1,055	487	51,684	122,788
Western Europe:					054	0.070	
United Kingdom	975	84	88	497	351	2,378	3,774
Ireland	45		1	4	/56	906	929
France	1,288	5/	182	145	150	1,873	4,026
West Germany	455	8	208	3/5	102	1,040	3,314
Switzerland	40	10	21	/0	10	203	1 281
Spain	239	2	00 31	47	44	2 1 9 2	5 2 2 3
Portugal	1 049	21	118	180	42	2,192	4 751
Other	732	23	139	181	1 462	3 070	5 104
Total	6,530	225	873	1,509	2,831	15,132	29,453
Eastern Europe:	-						
East Germany	243	_	_	-	_	243	243
Poland	1.904	-	-	-	_	2,263	2,270
Romania	5,221	_	3	-		5,224	5,229
Other	722	-	217	33	17	1,699	1,834
Total	8,089	_	220	33	18	9,429	9,575
Asia/Oceania:							
India	22,311	2,776	1,323	269	2,734	34,357	41,861
Pakistan	10,817	-	1,301	47	39	39,990	62,283
Sri Lanka	15,087	1	6	-	-	16,343	16,343
Thailand	9,546	26	47	93	52	10,498	23,203
Singapore	20,014			3	3	20,250	23,010
Indonesia	17,480	22	20	5	- 11	10,020	20,019
Philippines	12 470	257	334	110	11	12 808	13 921
Macau China Mainland	79.040	1 5 9 7	2 0 2 4	2073	268	10,090	165 533
Koroa	24 553	1,521	2,024	2,970	43	37 922	73 377
Hong Kong	205.059	127	2 5 2 3	2 390	21	220,208	289.504
Taiwan	56 699	291	428	3,812	32	70,625	119,668
Janan	25,088	51	175	537	791	29,165	44,553
Other	13 931	55	621	27	181	16.344	18,467
Total	544,276	5,183	9,391	11,717	4,174	663,366	941,395
Africa:							
Egypt	45	_			7	138	16,706
Other	529	-	28	1	9	649	1,180
Total	574	-	28	1	16	787	17,886
World total	597,428	5,957	11,855	14,335	7,526	740,631	1,121,337

- =0

Totals may not add because of rounding.

the few countries to increase cotton imports in 1982/83. The United States is also the largest textile supplier to Canada.

During 1984, the export return ratio will probably increase. U.S. cotton exports during 1983/84 may rise 1.6 million bales to about 6.8 million, while cotton textile imports will probably increase much more slowly than in 1983. If the ratio for 1984 equals 0.27, about 700,000 bales of 1983/84 U.S. cotton exports would be returned as textile imports.

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Table 17Ex	coort return rati	os for U.S.	textile imnorts	in	1983
	(poir i ciulin sau	UƏ IVI Q.Q.			1303

Textile exporting country	Cotton imports from the U.S.	Domestic mill use	Mill use return ratio	Domestic production share of fabric supply	Imported fabric return ratio	Imported fabric share of fabric supply	Weighted export return ratio	Raw cotton equivalent of U.S. imports	U.S. cotton exports returned
	1,000 48	30-lb bales			Percent			1,000 480-lb	bales
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Hong Kong	158	735	0.232	0.427	0.195	0.573	0.211	603	127
PRC	20	16,200	.001	1.000		0	.001	345	0
Taiwan	378	1,100	.344	.941	.152	.059	.333	249	83
Pakistan	0	2,450	0	1.000		0	0	130	0
korea	1,322	1,565	.845	.944	.321	.056	.816	153	125
India	0	6,250	0	1.000		0	0	87	0
Japan	1,286	3,290	.391	.871	.147	.129	.360	93	33
Peru	0	232	0	.757	.794	.243	.193	50	10
Singapore	13	75	.173	.097	.145	.903	.148	48	7
Brazil	0	2,600	0	1.000		0	0	86	0
Thailand	197	505	.390	.982	.199	.018	.387	48	19
Philippines	72	105	.686	.908	.196	.092	.641	51	33
Indonesia	268	514	.521	.990	.205	.010	.518	52	27
Sri Lanka	0	40	0	.488	.167	.512	.085	34	3
Macau	0	0	0	0	.090	1.000	.090	29	3
Mexico	0	625	0	.994	.687	.006	0	30	0
Domin. Rep.	0	10	0	.594	.842	.406	.342	17	6
Egypt	0	1,370	0	1.000		0	0	35	0
Canada	238	253	.941	.766	.486	.234	. 83 5	17	14
Columbia	9	215 ,	.042	.987	.621	.013	.050	15	1
Haiti	0	10	0	.732	.665	.268	.178	11	2
Romania	0	515	0	.949	.012	.051	0	11	0
Portugal	40	660	.061	.950	.095	.050	.063	11	1
Italy	105	980	.107	.620 .	.161	.380	.128	10	1
Poland	0	650	0	.954	.010	.046	0	5	0
France	45	765	.059	.572	.109	.428	.080	8	1
W. Germany	163	928	.176	.674	.090	.326	.148	7	1
El Salvador	0	50	0	.943	.380	.057	.022	9	0
Total	4,314	42,692					.22	2,244	497
World	5,207	62,132					.22	2,336	514

World Cotton Trends and Competition

Edward W. Allen

International Economics Division Economic Research Service

Abstract: U.S. cotton exports during 1984/85 may decline moderately from 1983/84. Foreign production keeps increasing faster than consumption, primarily because yields are increasing rapidly. Continuation of these trends would limit future growth in U.S. exports. Although the Soviets may not be as aggressive exporters as during the late 1970's, other competitors will probably increase exports in 1984/85.

Keywords: Production/consumption gap, production incentives, U.S. exports.

Foreign Production Outpaces Consumption

Among the many factors affecting U.S. cotton exports, the difference between foreign consumption and production is probably most important over the long run. The simple correlation between U.S. exports and a 2-year moving average of foreign consumption minus production from 1970-83 is 0.70. That implies that about half of the changes in U.S. exports can be linked to changes in the foreign consumption/production gap. In any year, the relationship may be disturbed by foreign stock changes caused by various factors, such as relative prices, production changes, or recessions.

In years like 1974/75 and 1975/76, when foreign production and consumption varied from trend in opposite directions, the volatile foreign consumption/production gap was a poor indicator of U.S. exports.

The foreign consumption/production gap has not trended upward over the last three decades, because foreign production increased at 2.9 percent per year, while foreign consumption has grown at 2.5 percent. Increased use of manmade fibers has dampened consumption, while yield increases have explained production growth. In 1983/84, a gap of about 4 million bales is estimated. In 1984/85, foreign production will likely be between 60 and 64 million bales, while consumption may range between 65 and 67 million. Therefore, the gap will be between 1 and 7 million bales. Assuming both production and consumption are on trend, the gap would be about the same as in 1983/84, 4 million bales.

Greater use of manmade fibers is a major factor limiting growth in cotton consumption. World cotton production rose 42 percent during 1960-80, but cotton's share of world fiber production dropped from 76 to 50 percent. While manmade fiber's share of total fiber consumption may not increase in some developed countries, it may expand rapidly in several developing countries, particularly China, South Korea, Taiwan, and India (table 18). Another damper on cotton consumption during the 1980's is the long-term prospect for foreign economic growth (table 19). Debt problems and sluggish growth in many parts of the world will likely keep textile demand from growing as quickly as during the three earlier decades.

Most of the cotton production increases come from improving yields. The dramatic yield increases can be attributed, among other things, to better varieties, improved farming techniques, and a shift toward irrigated land. Different countries have quite distinct patterns. In the Soviet Union, yields doubled between 1952 and 1972, but have not demonstrated a significant trend over the last 10 years. China, on the other hand, showed no vield growth from the mid-1960's to the mid-1970's, but appears to have increased yields by over 50 percent between 1977 and 1983, reaching the level of recent U.S. yields. Almost all major producers have seen yield growth during the last decade. Moreover, several major producers have a very consistent pattern of yield growth (table 20). The trend-yield increases imply that record world cotton production would only be prevented by adverse weather.

World Area Relatively Stable

During 1950-1983, world cotton area stayed between 75 and 83 million acres. Because yields are increased rapidly, there was little need for increased area.

The two largest foreign producers are the USSR and China. Basically, these countries decide how much they need to produce and use, at least partially without consideration of relative prices and comparative advantage. Since the mid-1950's, the USSR has steadily increased cotton area, but in recent years production has failed to keep pace with needs. On the other hand, China deemphasized cotton until the mid-1970's. Serious shortages developed, and in 1979/80 China was the world's largest cotton importer. However, over the last decade, both the USSR and China have increased area almost 20 percent,

Table 18.—Rate of change in manmade fiber production capacity								
Region	1975	1979	1980	1981	1982	1983	1984	
	<u></u>			Percent				
Socialist countries	8.6	7.2	13.9	3.5	9.6	3.8	3.9	
Developing countries Asia and Oceania Americas Africa Total	30.0 11.6 61.9 23.5	22.6 2.3 1.3 15.2	5.8 6.7 6.8 6.1	14.5 3.2 44.1 12.0	6.6 5.9 10.3 6.5	10.6 8 .4 7.1	5.7 1.2 15.2 4.9	

International Cotton Advisory Committee.

Table	19-Average annual growth rates in	
	Gross National Product	

Region	1960-70	1970-80	1980-90			
	Percent					
Industrialized	5.0	3.1	2.5			
Centrally planned	(1)	5.2	2.4			
Developing	5.6	5.3	3.8			
World	5.0	2.7				

¹China data not available.

World Bank Development Report, International Financial Statistics (IMF) Projections-ERS.

Table	20Selected major producers:	Cotton yield
	trends, 1970-1983	

Country	Average annual increases	Simple correlation with time
	Lb/	acre
China	12	0.74
India	2	.75
Brazil	6	.78
Egypt	23	.78
Mexico	11	.73
Syria	24	.95
Australia	29	.74
Israel	24	.84

striving to cover domestic needs and displace imports. The Soviets maintained a large market share in Japan and Western Europe while covering most East European needs. Aggresive Soviet exports helped cause a decline of 12 percent, between 1971 and 1976, among foreign producers outside China and the USSR.

Although foreign producers have recovered some area, the total foreign area remains 2.5 million acres below its peak. Moreover, U.S. cotton area was restricted by acreage control programs in 1978, 1982, 1983, and 1984.

Production Incentives Strong

Many countries are supporting production at prices above the U.S. loan rate. The most dramatic example of producer response to increased incentives is China. Beginning in the late 1970's, procurement prices for cotton were increased about 10 percent relative to grains; farmers were given more control over production decisions; and improved varieties were introduced. Production doubled from about 10 million bales in 1979 to over 20 million in 1983. USDA economists, after visiting China, estimated the 1982/83 price paid to farmers in the major producing province of Shandong at about 84 cents a pound of lint a guaranteed price for all the cotton a farmer can produce. Although the cotton/grain price ratio has returned to former levels, the 50-percent increase in cotton yields has maintained cotton's profitability; it may take another year or two to get production and domestic use into closer balance.

However, the increased Chinese production may hurt U.S. cotton exports. Chinese textile exports may continue to expand and dampen demand for cotton in the major U.S. markets, especially Japan, South Korea, and Taiwan.

It appears that the Soviet farm price is also well above world prices. With high farm prices, it might seem curious that the Soviets find it attractive to export so much cotton. However, there are several possible reasons for maintaining cotton production greater than domestic mill use, including the need to ensure supplies for East European allies, generate scarce hard currency, and provide a transfer of resources (subsidy) to the Central Asian republics. Now that the Soviets are receiving hard currency from Western Europe for natural gas, they may have less incentive to push cotton exports to Western markets. For the last two years, the USSR has been a less aggressive exporter.

Many other countries with distinct production functions and diverse policies are producing cotton. Several of these countries are finding the high prices of 1983/84 attractive and are hoping to increase production and exports. Colombia is an example of a country where the Government heavily subsidizes exports, whereas Australia produces mostly for the world market price. Both are taking measures to expand exports, but the rationale differs.

Colombia is a high-cost producer, with average breakeven prices of 77 cents a pound (U.S. currency) on the coast and 70 cents in the interior, well above the U.S. loan rate. However, in 1983, the Government implemented a program that is likely to revive exports. The program means that the Government could potentially pay up to 37 cents on the export of a pound of cotton—an attractive proposition for exporters. Australia has been increasing cotton production and exports dramatically in recent years. In the last decade, it has evolved from being a minor producer to one of the world's major exporters. A financial analysis of 11 growers in the More area showed that returns per planted acre exceeded costs (including depreciation) by about 20 percent for the 1982 crop¹. The high profits mean that more financial resources could be channeled towards further production expansion. While some government subsidies may exist for water, fertilizer, and cotton sold to the domestic industry, the Australians produce mainly to export at the world market price. Their costs and

¹The Australian Cotton Grower, Vol. 4, No. 2, April-June 1983, p. 20.

yields are competitive, so they will likely continue to increase exports.

Conclusions

The high cotton prices in 1983/84 may provide an incentive for increased production among exporters in 1984/85, especially for hard currency deficit countries like Colombia, Mexico, and Argentina. Additionally, several major exporters, including Pakistan, Egypt, and Brazil, had poor crops in 1983/84 and are likely to rebound in 1984/85. The impact of Chinese production at, or near, 20 million bales may be increasingly felt in world markets if China expands textile capacity and exports. These factors are likely to more than offset increased foreign mill demand generated by a generally weak foreign economic recovery in 1984/85.

	Table 21.—Cotton: Supply and disappearance, by type, United States											
Year beginning August 1		Supply			Disappearance			Difference				
	Beginning stocks August 1 ¹	Pro- duction ²	Imports	Total	Mill con- sumption ³	Exports	Total	unac- counted ⁴	stocks July 31			
				1,000 480	-pound net wei	ght bales ⁵						
					All kinds							
1981 1982 1983 ⁷	2,668 6,632 7,937	15,646 11,963 ⁸ 7,725	26 20 [.] 14	18,340 18,615 15,676	5,264 5,513 5,820	6,567 5,207 6,780	11,831 10,720 12,600	123 42 202	6,632 7,937 3,378			
					Upland							
1981 1982 1983 ⁷	2,614 6,567 7,844	15,566 11,864 ⁸ 7,634	18 12 10	18,198 18,443 15,488	5,216 5,457 5,750	6,555 5,194 6,750	11,771 10,651 12,500	140 52 212	6,567 7,844 3,200			
				E	xtra-long staple	⁶						
1981 1982 1983 ⁷	54 65 93	80 99 ⁸ 91	8 8 4	142 172 188	48 56 70	12 13 30	60 69 100	-17 -10 -10	65 93 78			

¹Compiled from Bureau of the Census data and adjusted to an August 1 480-pound net weight basis. Excludes preseason ginnings. ²Includes eseason ginnings. ³Adjusted to August 1-July 31 marketing year. ⁴Difference between ending stocks based on Census data and preceding preseason ginnings. 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 absorbtion once cotton is ginned and begins to flow through marketing channels. Additional moisture is absorbed by cotton ⁵Facmoving in export channels. For ELS cotton, this difference reflects, in part, reporting discrepancies for stocks, mill consumption, and exports. tors used to convert running bales to equivalent 480-pound net weight bales for carryover and consumption of domestic cotton are based on the rela-tionship 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, 1984.

Table 22.-Cotton: Supply and disappearance of all kinds; by months, United States¹

				Supply					Disappe	earance	
Date		Beginning	stocks ²					Mill con-			
Date	At mills	In public storage ⁶	Other ⁷	Total	Gin- nings ³	Imports	Total	sump- tion ⁴	Exports	Total	Ending stocks ⁵
				1,	,000 480-p	ound net w	eight bales				
1983/84 August September October	792 750 661	6,978 6,493 6,077	167 74 204	7,937 7,317 6,942	328 476 2,679	2 1 1	8,267 7,794 9,622	547 513 505 514	403 339 274 462	950 852 779 976	7,317 6,942 8,843 10,634
November December January ⁸	583 640	9,114 9,197	937 970	10,634 10,807	1,256 274	0	11,890	420 543	663	1,083	10,807

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 23.-Upland cotton and manmade staple fibers: Mill consumption on cotton-system spinning spindles

			Manmade					
Year beginning August 1	Cotton	Rayon and acetate	Non- cellulosic	Total	Total fibers	share of total		
			1,000 pounds			Percent		
1982/83	2,619,556	217,911	1,477,847	1,695,758	4,315,314	60.7		
1983/84								
August	225,485	19,087	125,717	144,804	370,289	60. 9		
September	276,984	23,848	159,119	182,967	459,951	60.2		
October	228,543	19,345	133,046	152,391	380,934	60.0		
November	221,777	19,986	126,933	146,919	368,696	60.2		
December ¹	222,248	22,333	137,313	159,646	381,894	58.2		
January ¹	NA	19,977	131,463	151,440	NÁ	NA		

¹Preliminary. NA = not available.

Compiled from reports of the Bureau of the Census.

Table 24.—Cotton and manmade fibers: Daily rate of mill consumption on cotton-system spinning spindles, unadjusted and seasonally adjusted

		Upland	Manmade staple									
Month	198	1982/83		1983/84 ¹		198	2/83			1983	3/841	
Month	Unad-	Ad-	Unad-	Ad-	Rayo ace	n and tate	Non- Rayon and cellulosic ² acetate		n and tate	Non- cellulosic ²		
	Justed	Justeu	Justed	Justed	Unad- justed	Ad- justed	Unad- justed	Ad- justed	Unad- justed	Ad- justed	Unad- justed	Ad- justed
		Ba	les ³		1,000 pounds							
August September	20,202 19,636	19,982 19,538	23,488 23,082	23,209 22,967	779 756	781 773	5,417 5,400	5,385 5,405	954 954	955 976	6,286 6,325	6,242 6,331
November December	21,576 20,211 17,620	19,959 19,815 19,910	23,807 23,102 18,521	21,982 22,671 20,999	837 882 681	786 813 787	5,694 5,451 4,723	5,382 5,392 5,385	967 999 893	910 916 1.036	6,652 6,347 5 493	6,287 6,284 6,278
January February	20,954 22,425	21,017 21,542	10,021	20,000	841 855	807 823	5,718 6,183	5,514 5,991	999	959	6,573	6,338
March April	22,805 22,305	21,907 21,804			874 937	825 914	6,127 5,955	5,802 5,726				
May June July	22,805 22,579 19.093	21,970 22,444 22,542			939 960 736	910 981 888	6,201 6,207 5,202	6,079 6,195 6.042				

¹Preliminary. ²Includes nylon, acrylic and modacrylic, polyester, and other manmade fibers. 3/480-pound net weight bales.

Table 25.—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

Calendar year	C	Cotton ¹	F	Rayon ²	Polyester ³		
	Actual	Raw fiber equivalent ⁴	Actual	Raw fiber equivalent ⁴	Actual	Raw fiber equivalent ⁴	
			Cents	s per pound			
1983	78	86	80	84	73	76	
1983							
November	82	91	82	85	77	80	
December	82	91	82	85	78	81	
1984							
January	79	88	85	89	81	84	

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.

ioan rates, and prices received by farmers for upland cotton													
Year beginning		Average spot market prices per pound (net weight) ¹											
August 1	15/16 inch	1 inch	1-1/32 inches	1-1/16 inches	1-3/32 inches	1-1/8 inches	farmers for upland cotton (net weight) ²						
				Cents	3								
1982/83	52.39	56.41	61.17	63.08	63.47	64.63	3/59.10						
1983/84 August September October November December January February March April May June July	59.63 58.63 58.02 60.07 61.71 60.14	63.66 62.67 62.10 64.35 65.77 64.02	70.52 69.29 69.49 70.82 70.44 68.03	72.93 71.68 72.01 73.41 73.04 70.55	73.39 72.12 72.45 73.85 73.48 70.99	75.39 73.37 74.44 75.79 75.13 72.89	67.00 63.10 64.00 66.80 67.30 63.90						
Average Loan rate	46.62	50.57	53.62	55.72	56.12	56.32	4/55.00						

 Table 26.-Cotton: Strict low middling, spot prices in designated U.S. markets, loan rates, and prices received by farmers for upland cotton

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.

		Yarr	n, thread, and	woven fal	bric		Pr	imarily manu	factured prod	ucts
Year and		Sewing thread, -	Woven f	abric		Total	Pile fabrics	Table damask	Bed clothes	Gloves, hosiery,
month	Yarn	crochet, knitting yarn	100 percent cotton	Biends ¹	Weigh	t Bales	and mfrs. ²	and mfrs.	and towels ³	and hdkf.
		1	1,000 pounds			1,000 bales ⁸		1,000) pounds	
1982 1983	27,264 40,881	1,244 1,250	218,619 274,467	41,518 64,108	288,64 380,70	5 601.3 6 793.1	6,342 7,721	481 438	64,060 70,067	22,652 25,383
1983										
January February March April	3,670 1,720 2,716 1,423	60 119 91 132	23,065 20,733 20,626 20,037	5,434 4,065 3,776 4,631	32,22 26,63 27,20 26,22	9 67.1 7 55.5 9 56.7 3 54.6	548 368 427 306	48 16 33 37	6,788 5,862 6,928 5,053	2,711 1,893 1,788 1,850
May June July	3,262 3,303 3,320	102 116 94	21,500 20,277 22,937	4,730 4,578 4,598	29,59 28,27 30,94	5 61.7 4 58.9 9 64.5	834 725 1,090	43 31 37	5,138 5,368 5,237	2,142 2,267 2,302
August September October November	2,810 5,905 3,009 5,699	92 86 115 109	22,952 25,307 24,300 26,234	6,088 6,110 6,836 6,781	31,94 37,40 34,26 38,82	2 66.6 8 77.9 0 71.4 3 80.9 7 77.4	649 434 736 473	41 29 65 22	5,772 5,813 6,175 5,753	1,780 2,083 2,376 2,078
December	4,043	1.34	26,499	6,481	37,15	/ //.4	1,131		6,180	2,113
			Primari	ly manufa	ctured pro	oducts			Tota	al
	Other	Lace fabric	Househol and	d Mi	SC	Floor -	Tot	al		
	wearing apparel ⁴	and articles ⁵	clothing articles ⁶	prod	lucts ⁷	covering	Weight	Bales	Weight	Bales
			1,0	00 pounds	;			1,000 bales ⁶	1,000 pounds	1,000 bales ⁸
1982 1983	487,867 597,423	4,046 5,957	10,628 11,855	⁹ 10 ⁹ 14	,053 ,335	2,408 7,526	⁹ 608,537 ⁹ 740,631	1,267.8 1,543.0	⁹ 897,182 ⁹ 1,121,337	1,869.2 2,336.1
1983	10 221	368	920	91	052	920	962 686	120.6	904 015	107 7
February March April	47,043 48,694 40,079	353 446 448	895 914 764	91 91	,052 9963 ,161 9958	666 874 773	⁹ 58,059 ⁹ 61,265 ⁹ 50,268	120.9 127.6 104.7	⁹ 84,696 ⁹ 88,474 ⁹ 76 491	176.5 184.3 159.4
May June	47,948 59,754	423 446 375	1,035 1,069	91 91 91	,156 ,479	957 477	⁹ 59,676 ⁹ 71,616 ⁹ 70,778	124.3 149.2	⁹ 89,271 ⁹ 99,890 ⁹ 101,727	186.0 208.1
August September	59,738 50,978	645 527	1,076 925	91 91 91	,471 ,232	510 389	⁹ 71,682 ⁹ 62,410 ⁹ 66,007	149.3 130.0	⁹ 103,624 ⁹ 99,818	211.9 215.9 208.0
November December	42,831 37,600	552 712 562	1,075 1,073 1,173	91 91	,149 ,141 ,408	497 481 517	⁹ 54,564 ⁹ 50,720	139.4 113.7 105.7	⁹ 93,387 ⁹ 87,877	210.8 194.6 183.1

Table 27.-Raw cotton equivalent of U.S. imports for consumption of cotton manufactures

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. The raw fiber equivalent quantities for May-December 1982 was 6,609 thousand pounds. For January-December 1983 these quantities are 1,271, 1,824, 1,433, 991, 879, 1,362, 1,544, 900, 1,021, 793, 743, and 1,330 thousand pounds, respectively.

			Yarı	n, thread, twi	ne, and w	oven fab	ric		Manufac	tured product	s	
-		Sewing thread,		Woven f	abric		Total		House, furnishi	ngs		
Year and month	Yarn	crochet, arn darning and em- broidery cotton	crochet, darning and em- broidery co cotton	Twine and cordage	Standard construc- tions and tire cord ¹	Other ²	Weight	Bales	Knit fabrics	Blankets, spreads, pillow cases, and sheets	Towels	Other ³
			1,000	pounds			1,000 bales ⁸		1,000 pc	ounds		
1982 1983	17,981 18,854	11,277 11,577	822 793	71,570 51,667	13,186 7,747	114,838 90,636	3 239.3 5 188.8	4,720 2,434	14,092 8,725	6,222 5,705	3,241 715	
1983 January February	1,796 1,720	1,314 506	55 36	5,589 4,101	878 891	9,633 7,254	3 20.1 4 15.1	106 148	881 1,028	537 310	46 46	
March April May June	2,727 1,862 1,795 1,643	656 1,044 1,064 1,156	116 73 71 113	4,441 4,451 3,324 4,095	779 801 566 640	8,718 8,23 6,820 7,647	3 18.2 1 17.2 0 14.2 7 15.9	203 221 471 252	1,194 723 698 727	446 647 481 560	37 81 59 53	
July August September	910 1,322 1,287	749 884 1,042	100 41 38	3,772 3,928 4,201	573 548 824	6,103 6,723 7,39	3 12.7 3 14.0 1 15.4	113 261 179	433 677 837	521 510 400	65 39 50	
October November December	1,134 1,282 1,376	1,134 862 1,166	38 71 41	4,927 4,632 4,206	449 491 307	7,682 7,338 7,090	2 16.0 3 15.3 5 14.8	199 173 108	522 550 455	352 357 584	56 105 78	
				Manu	actured	products	3			Tot	al	
	We	earing app	arel	Other	Ē la	.	Industrial		Total			
	Knit	Knit ⁴ Other ⁵		& clothing covering articles ⁶		ring	products ⁷		ght Bales	Weight	Bales	
				1,000 pound	is			1,00 bale	00 1 s ⁸ po	,000 ounds	1,000 bales ⁸	
1982 1983	34,71 27,95	13 49 57 4	5,321 4,113	15,918 13,736	13,9	86	14,277 11,601	138,5 128,9	506 288.6 977 268.7	253,342 219,614	527.8 457.5	
1983 January February March	2,83 2,55 2,99	30 56 91	2,792 3,198 3,460	2,046 1,719 897	4	61 96 35	879 753 968	10,5 10,4 11.(579 22.0 456 21.8 031 23.0	20,212 17,711 19,749	42.1 36.9 41.1	
April May June	2,78 2,00 1,79	85 06 99	3,558 3,490 3,866	967 947 1,058	1,1 9 1,3	74 163 165	915 1,012 1,089	11,0 10,1 10,7	070 23.1 128 21.1 769 22.4	19,301 16,948 18,416	40.2 35.3 38.4	
July August September	1,79 2,29 2,29	93 3 96 92 4	3,528 4,189 4,029	592 944 1,384	9 1,1 1,5	78 550	1,002 837 1,075	8,9 10,9 11,7	961 18.7 931 22.8 796 24.6 910 24.8	15,064 17,654 19,186	31.4 36.8 40.0	
November December	2,20	34 01	4,004 4,017 3,432	1,076 1,221 885	1,7 1,5 1,4	99 67 84	945 1,040	11,1	169 23.3 168 21.2	18,507 17,265	40.8 38.6 36.0	

Table 28.-Raw cotton equivalent of U.S. exports of domestic cotton manufactures

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.

Year and Sewing Rayon month Sliver Yarns thread tire tops thrown Yarns and fabric Woven	Wearing appa	arel
and or spun hand- including fabric Total roving plied' work cord yarns fabrics	Knit ²	Not knit
1,000 pounds		
1982 2,724 6,642 26,470 2,324 1,087 93,335 132,582 1 1983 4,907 10,683 38,976 3,442 1,273 123,215 182,496 2	193,087 29 241,296 33	92,224 33,091
1983 January 363 871 2,725 234 169 8,835 13,197 February 336 828 2,169 274 169 7,144 10,920 March 688 1.198 2,925 263 251 9,118 14,443	17,107 2 15,867 2 15.030 2	28,010 23,703 23.074
April4375332,79922322810,76814,988May5267213,69324024511,06416,489June5529143,6933337213,04618,610	15,329 2 21,733 2 27,446 3	21,297 25,917 31,433
July 547 854 3,835 258 5 11,311 16,810 August 428 824 2,878 293 29 11,527 15,979 September 195 1,138 3,337 196 2 10,753 15,621 Outbet 420 4406 4407 20 11,028 17,406	25,440 2 27,601 3 24,284 3	29,716 38,128 30,104
October 476 669 4,496 497 20 11,026 17,406 November 241 1,187 3,287 359 66 9,547 14,687 December 118 726 3,148 272 17 9,074 13,355	16,189 2 11,052 2	26,561 23,125
Primarily manufactured products	T	otal
Handker- Laces and Narrow Knit Floor Other T chiefs lace fabrics ⁴ fabric covering manu ⁵ articles ³ factures ⁵	Total mi fac im	anu- ctured ports
1,000 pounds		
1982 1,162 4,782 10,089 2,284 661,749 656 1983 1,578 6,376 12,699 2,196 22,013 687,192 670	65,377 ⁶ 69 06,441 ⁶ 88	97,959 38,937
1983 January 89 372 1,343 183 1,340 ⁶ 5,444 ⁶ 4 February 94 423 1,239 145 1,150 ⁶ 5,815 ^{6,}	53,888 ⁶ 6 48,436 ⁶ 5	67,085 59,356
March 86 407 1,069 127 1,575 ⁶ 6,254 ⁶ / ₂ April 78 381 1,091 212 1,749 ⁶ 5,588 ⁶ / ₂ May 105 441 1,114 115 1,823 ⁶ 6,209 ⁶ / ₁	47,622 ⁶ 6 45,725 ⁶ 6 57,457 ⁶ 7	62,065 60,713 73,946
June 189 476 958 178 2,040 °8,505 °7 July 191 582 915 176 1,540 ⁶ 6,814 ⁶ 6 August 136 744 1,073 180 1,913 ⁶ 7,200 ⁶ 7	/1,225 °8 65,374 ⁶ 8 76,975 ⁶ 9	39,835 32,184 92,954
September 166 653 9/8 1/8 1,/56 68,565 66 October 148 790 1,082 272 2,315 69,549 61 November 159 603 970 219 1,852 68,295 61 Descenter 127 504 867 211 2,060 69,544 61	00,084 ⁰ 8 70,397 ⁶ 8 54,848 ⁶ 6 47,810 ⁶ 6	82,305 87,803 69,535

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 veilings, nets and nettings, lace window curtains, edging, insertings, flouncings, allovers, etc., embroderies, 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 categoris. The raw fiber equivalent quantity for May-December 1982 was 109,137 thousand pounds. For January-December 1983 these quantities are 12,905, 12,561, 14,461, 12,490, 13,041, 15,711, 15,960, 15,293, 16,032, 19,034, 16,298, and 16,767 thousand pounds, respectively.

		Tops	, yarn, thread	, and woven f	abric		Prima	rily manufactu	red products
Year and month	Sliver tops, and roving ¹	Yarns spun	Sewing thread and handwork	Tire cord and tire cord fabric	Woven fabric [.]	Total	Hosiery	Under- wear and night- wear	Outer wear
					1.000 pou	unds			
1982 1983	6,730 4,528	28,169 25,682	5,270 5,076	27,854 23,245	132,569 108,661	200,589 167,191	3,813 2,891	12,884 12,045	58,537 55,902
1983									
January February	336 430	2,333 2,450	462 293	1,081 1,509	9,245 8,697	13,457 13,380	241 257	915 928	4,566 4,238
March April	373 314	2,384	546 332	1,848 1,616	10,397 10,839	15,548 15,613	217 245	983 1.155	5,222
May	527	2,351	588	1,910	9,072	14,447	272	946	4,248
July	326	2,009	368	2,087	7,712	12,503	279	1,085	4,356
September	413	1,910	323	2,332	9,409	14,387	263	992	4,900
November	556	1,611	381	2,362	9,314 8,772	13,439	170	1,072	5,246
December	346	1,689	384	2,320	/,/5/	12,495	222	810	4,382
			Pri	marily manufa	actured prod				Total
	House furnishing	s ci	Knit or ocheted	Narrow fabrics ³	Floor covering	Ot manufa	her actures⁴	Total	manufactured exports
					1,000 pc	ounds			
1982 1983	65,904 10,701		15,645 14,237	26,614 25,722	114,539	54, 57,	566 482	237,960 293,523	438,551 460,713
1983	004			4 700			c	04 500	07.000
January February	834 921		938 995	1,792 1,428	10,713 9,584	4, 4,	508 611	24,509 22,961	37,966 36,341
March April	1,125 1,208		1,536 1,240	1,930 2,026	11,194 12,804	5, 4,	647 790	27,855 27,841	43,403 43,454
May June	975 1,049		1,258 1,037	2,226 2,146	11,234 10,710	4, 4,	789 960	25,947 25,658	40,394 39,804
July August	744 854		1,115 1,316	2,720 2,670	7,721 7,301	4, 4,	474 695	22,496 23,155	34,999 36,213
September October	722 761		1,286 1,542	2,262 2,399	10,001 6,373	5.	261 563	25,108 22,255	39,495 36,972
November December	702 806		1,137 837	1,990 2.133	8,257 8,647	4,	281 903	22,997 22,741	36,436 35,236

Table 30—Manmade fiber equivalent of U.S. exports of domestic manmade fiber manufactures

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

Table 31.-Manmade fiber production and capacity¹

Fiber	1982			1983					1984			Projected 1985	Average annual	
	Year	1Q	2Q	3Q	4Q	Year	1Q	20	3Q	4Q	Year	capacity	change 1983-85	
						Millio	n pound	s					Percent	
Grand total ^{2 3}														
all fibers	10.001	0.001	0.005	0.071	0.000	11 012	2 002	2.041	2.040	2.064	10 156	10 000	120	
Production	7 942	2,901	2,965	2,971	2,900	9 3 4 4	3,002	3,041	3,049	3,004	12,150	12,302	72.0	
Percent	66	70	80	81	83	78								
Total stapie ³														
Capacity	5,388	1,327	1,328	1,336	1,347	5,338	1,364	1,381	1,389	1,400	5,534	5,649	+2.9	
Production	3,758	979	1,107	1,125	1,131	4,342								
Total filament ² 3	70	/4	03	04	04	01								
Capacity	6,677	1,664	1,657	1,635	1,619	6,575	1,638	1,660	1,660	1,664	6,622	6,733	+1.2	
Production	4,184	1,111	1,273	1,290	1,328	5,002								
Percent	63	67	77	79	82	76								
Polyester total	4 404	1 078	1 080	1 073	1.066	1 207	1 080	1 095	1 095	1 095	4 365	4 4 2 6	+15	
Production	3,168	815	920	890	918	3.543	1,000	1,000	1,000	1,000	1,000	1, 120		
Percent	72	76	85	83	86	82								
Staple		077		000			-		740	740	0.050	0.005		
Capacity	2,776	677	6/8	683	689	2,727	702	716	/16	/16	2,850	2,885	+2.9	
Production	70	73	82	82	83	2,104								
Filament	,0		02	0L	00	00								
Capacity	1,628	401	402	390	377	1,570	378	379	379	379	1,515	1,541	-0.9	
Production	1,213	323	361	328	347	1,359								
Percent	75	81	90	84	92	87								
Capacity	2 933	723	723	723	725	2 894	728	730	735	742	2,935	3.028	+2.3	
Production	1,927	508	611	644	655	2,418					_,	0,010		
Percent	66	70	85	89	90	84								
Staple							050		000			4 4 9 5		
Capacity	987	246	247	250	254	997	256	258	263	269	1,046	1,105	+5.4	
Production	69	80	235	101	243	920								
Filament		00			00									
Capacity	1,946	477	476	473	471	1,897	472	472	472	473	1,889	1,923	+0.7	
Production	1,242	312	376	392	412	1,492								
Percent Olofin total	64	65	79	83	89	79								
Capacity	1 281	331	335	340	345	1.351	349	353	359	363	1.424	1.474	+4.5	
Production	723	205	230	233	227	897						•		
Percent	56	62	69	69	66	66								
Staple	070	67	67	60	70	070	70	70	77	. 00	202	202	10.2	
Capacity	273	38	43	69 50	55	186	12	13		0Ų	302	323	+9.2	
Percent	51	57	64	72	79	68								
Filament														
Capacity	1,008	264	268	271	275	1,078	277	280	282	284	1,124	1,150	+3.3	
Production	585	167	187	183	172	709								
Acrylic staple	56	63	70	60	63	00								
Capacity	838	208	208	206	205	827	205	206	205	206	822	822	-0.3	
Production	624	160	178	169	163	670								
Percent	74	77	86	82	80	81								
Non-cellulosic														
Canacity	9 4 8 5	2 347	2 354	2 349	2 349	9.399	2,369	2 392	2.401	2.414	9.576	9,780	+2.0	
Production	6.459	1.693	1.944	1,941	1,968	7,546	2,000	-,002	2,		0,010	0,1.00		
Percent	68	72	83	83	84	80								
Staple												5 4 9 5		
Capacity	4,874	1,198	1,200	1,208	1,218	4,824	1,235	1,253	1,261	1,271	5,020	5,135	+3.2	
Percent	3,402	74	85	86	83	3,900								
Filament ³														
Capacity	4,611	1,149	1,154	1,141	1,131	4,575	1,134	1,139	1,140	1,143	4,556	4,645	+0.8	
Production	3,057	807	929	908	936	3,580								
Percent Bayan atapla	66	70	81	80	83	78								
Canacity	510	128	127	127	128	510	128	127	127	128	510	510	0	
Production	355	93	92	92	98	375					•••			
Percent	70	73	72	72	77	74								
Acetate filament			-							~-		000		
Capacity	320	80	79	73	67	299	67	67	67	67	268	268	-5.2	
Production	61	63	78	84	54 81	76								
Glass filament	01			04	0.	. 5								
Capacity	1,687	419	408	406	405	1,638	421	438	438	438	1,735	1,757	+3.6	
Production	899	245	273	313	3330	1,161								
Percent	53	58	67	- 77	81	/1								

¹Capacity data as of December 1983. ²Includes spandex capacity and production not shown. ³Includes rayon filament and acetate staple capacity and production not shown. ⁴Estimated.

Compiled from Textile Organon.

Year and			Tops and advanced		Woven	Wool
month	Noils	Wastes ⁶	wool	Yarns	fabrics ²	blankets ³
			1,	.000 pounds		
1981	12,299	8,233	326	4,720	27,783	400
1982	7,174	4,569	466	7,239	25,633	315
1983	12,200	5,706	798	7,623	28,130	643
1983						
January	467	399	5	413	2,023	47
February	657	349	12	616	1,829	25
March	908	489	73	574	2,532	23
April	930	556	19	810	2,587	20
May	780	450	18	470	2,341	42
June	995	683	87	600	3,919	33
July	1,211	343	36	603	3,025	53
August	1,517	359	3	869	3,045	81
September	1,210	457	20	657	2,501	113
October	1,458	547	110	715	1,905	96
November	1,310	423	206	821	1,242	62
December	/57	651	209	4/5	1,181	48
	W	earing appare	el	Other	Carnets	Total
			Other	other 5		iotai
	Knit		than knit⁴	manufactures	and rugs	
				1,000 pounds		
1981	22,789		18,098	902	18,076	113.626
1982	25,649		20,714	839	19,642	112,240
1983	30,279		28,526	1,047	34,829	149,781
1983						
January	1,435		1,363	119	2,503	8.774
February	740		1.027	80	2,711	8.046
March	1,027		1,163	75	3,013	9,877
April	1,018		1,215	92	2,983	10,230
May	2,248		1,724	93	2,050	11,216
June	4,068		2,559	134	3,047	16,125
July	3,887		3,366	88	2,938	15,550
August	4,630		4,676	85	2,932	18,197
September	3,834		4,414	73	2,771	16,050
October	3,646		3,923	77	3,051	15,528
November	2,365		1,816	54	3,147	11,446
December	1,381		1.280	((2.683	8,742

Table 32.-Raw wool content of United States imports for consumption of wool manufactures¹

¹Includes manufactures of mohair, alpaca, and other wool-like specialy 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.

Table 33Raw wool content of United States exports of domestic	: wool manu	factures'
---	-------------	-----------

Year and month	Noils & wastes ²	Tops and advanced wool	Yarns	Woven fabrics	Wool ² blankets	Wearing apparel knit
			1,000			
1981 1982 1983	537 1,069 1,860	2,641 4,283 3,770	994 663 250	1,652 1,297 1,073	88 47 29	2,031 1,762 2,110
1083						
January February March April May June July August	47 31 231 234 292 247 111 102	211 262 333 342 375 186 507 321	16 38 21 27 33 22 14 10	55 38 108 120 104 129 58 93	3 2 2 4 4 2 2	110 154 151 171 121 62 411 292
September October November December	189 147 124 105	417 311 110 395	22 18 14 15	92 111 102 63	2 2 2 2	205 81 179 173
	Wearing apparel othe than knit	er Felts	, I	Other manufac- tures ³	Carpets and rugs	Knit fabrics
			1,00	0 pounds		
1981 1982 1983	1,945 1,131 865	294 235 297		1,729 1,173 953	201 180 9,313	211 107 232
1983 January February March April May June July August September October November	59 38 39 47 51 59 76 154 105 92 64 81	7 12 27 26 12 41 6 51 22 31 40 22		69 44 72 54 68 94 122 58 106 112 80 74	406 485 471 835 512 997 523 531 1,097 1,148 1,197 1,111	36 2 6 1 35 2 5 29 48 19 24 25

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.

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