

Initiative

# **COTTON:**Review of the World Situation

International Cotton Advisory Committee

Volume 70 - Number 4 March-April 2017

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#### SUPPLY AND DISTRIBUTION OF COTTON **April 3, 2017**

Seasons begin on August 1

	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18
		Est.	Est.	Est.	Proj.	Proj.
			Million Metric	Tons		
BEGINNING STOCKS						
WORLD TOTAL	15.494	18.567	20.581	22.359	19.17	17.85
CHINA	6.181	9.607	12.109	12.917	11.16	9.27
USA	0.729	0.827	0.512	0.795	0.83	0.98
PRODUCTION						
WORLD TOTAL	26.776	26.172	26.188	21.040	22.78	23.12
INDIA	6.290	6.766	6.562	5.746	5.80	5.93
CHINA	7.300	6.950	6.500	4.753	4.74	4.81
USA	3.770	2.811	3.553	2.806	3.75	3.74
PAKISTAN	2.002	2.076	2.305	1.514	1.68	1.87
BRAZIL	1.310	1.734	1.563	1.289	1.44	1.36
UZBEKISTAN	1.000	0.910	0.885	0.832	0.79	0.77
OTHERS	5.104	4.926	4.820	4.100	4.58	4.64
CONSUMPTION						
WORLD TOTAL	23.782	24.002	24.440	24.133	24.10	24.42
CHINA	8.290	7.517	7.479	7.442	7.59	7.67
INDIA	4.731	5.057	5.261	5.277	5.12	5.17
PAKISTAN	2.216	2.470	2.492	2.256	2.23	2.24
EUROPE & TURKEY	1.560	1.611	1.692	1.687	1.63	1.61
BANGLADESH	1.023	1.146	1.204	1.324	1.40	1.47
VIETNAM	0.492	0.673	0.875	1.007	1.14	1.22
USA BRAZIL	0.762	0.773	0.778 0.797	0.751	0.72	0.75
OTHERS	0.910 3.798	0.862 3.893	3.861	0.733 3.657	0.72 3.54	0.70 3.59
	3.790	3.093	3.001	3.037	3.54	3.59
EXPORTS	40.040	0.007	7.700	7.507	7.05	0.00
WORLD TOTAL	10.046	9.027	7.703	7.587	7.85	8.06
USA INDIA	2.836 1.685	2.293	2.449 0.914	1.993 1.255	2.87	2.88
CFA ZONE	0.825	2.014 0.973	0.893	0.962	0.96 0.98	0.99 1.08
BRAZIL	0.938	0.485	0.851	0.939	0.98	0.71
UZBEKISTAN	0.690	0.615	0.550	0.543	0.45	0.71
AUSTRALIA	1.343	1.057	0.520	0.616	0.80	0.43
	1.040	1.007	0.020	0.010	0.00	0.01
IMPORTS	40.004	0.004	7 704	7.507	7.05	0.00
WORLD TOTAL	10.201	8.934	7.781	7.537	7.85	8.06
BANGLADESH VIETNAM	1.044 0.517	1.190 0.687	1.177 0.934	1.355 1.001	1.43 1.17	1.47 1.24
CHINA	4.426	3.075	1.804	0.959	0.98	1.24
TURKEY	0.803	0.924	0.800	0.939	0.83	0.87
INDONESIA	0.686	0.651	0.728	0.640	0.69	0.66
TRADE IMBALANCE 1/	0.155	-0.093	0.078	-0.050	0.00	0.00
STOCKS ADJUSTMENT 2/	-0.075	-0.063	-0.047	-0.042	-0.01	0.00
ENDING STOCKS						
WORLD TOTAL	18.567	20.581	22.359	19.174	17.85	16.55
CHINA	9.607	12.109	12.917	11.160	9.27	7.47
USA	0.827	0.512	0.795	0.827	0.98	1.09
ENDING STOCKS/MILL USE (%)						
WORLD-LESS-CHINA 3/	58	51	56	48	52	54
CHINA 4/	116	161	173	150	122	97
COTLOOK A INDEX 5/	88	91	71	70		01

<sup>1/</sup> The inclusion of linters and waste, changes in weight during transit, differences in reporting periods and measurement error account for differences between world imports and exports.

<sup>2/</sup> Difference between calculated stocks and actual; amounts for forward seasons are anticipated.

<sup>3/</sup> World-less-China's ending stocks divided by World-less-China's mill use, multiplied by 100.

<sup>4/</sup> China's ending stocks divided by China's mill use, multiplied by 100. 5/ U.S. cents per pound.

#### SUMMARY OF THE OUTLOOK FOR COTTON

#### **China Refines its Cotton Policy**

The Chinese government announced a new target price for cotton grown in Xinjiang last month as the trial period expired in 2016. The new target price is 18,600 yuan per ton (approximately U.S. 122 cts/lb using current exchange rates), unchanged from 2016, and will be in effect through the 2019 planting season. In order to maintain a stable supply of cotton, the subsidy will also only apply to output less than 85% of the average annual production grown from 2012-2014 (around 7 million tons). The level of subsidy for extra-long staple cotton will remain unchanged at 1.3 times the price of upland cotton.

World cotton production is forecast to grow by 1% to 23.1 million tons in 2017/18 as high prices in 2016/17 encourage farmers to plant cotton. However, the average yield is expected to decline by 2% to 761 kg/ha, similar to the 4-year average.

World Cotton Production & Mill Use

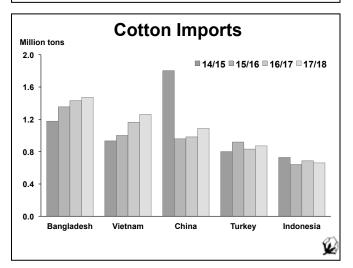
Million tons

20
Production

Mill Use

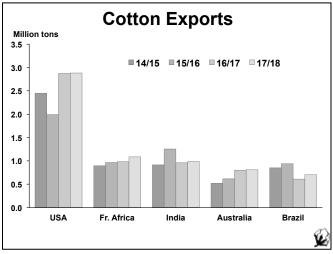
15

10
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95/96
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10/11
15/16

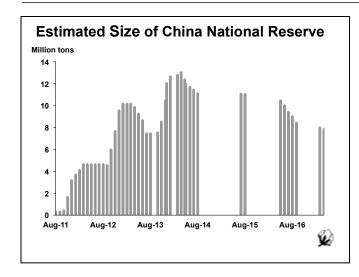


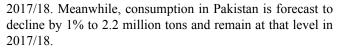
Firm prices this season are likely to encourage farmers in India to return to cotton, and cotton production in India is projected to grow by 2% to 5.9 million tons. Due to high prices in 2016/17 and a stable subsidy for the next three years, China's cotton area is projected to expand by 3% to 3 million hectares after five seasons of contraction. Assuming an average yield of 1,640 kg/ha, China's production could reach 4.8 million tons in 2017/18. The average yield for the United States increased by 13% to 973 kg/ha in 2016/17, which, coupled with firm prices, will encourage farmers to expand cotton area in 2017/18. However, production is expected to remain unchanged from 2016/17 at 3.7 million tons as the average yield is assumed to be closer to the 5-year average.

World cotton mill use in 2016/17 is expected to remain unchanged at 24.1 million tons due largely to weak global economic growth and competition from polyester, which has significantly lower prices than cotton this season. Global consumption may recover by 1% in 2017/18 to 24.4 million tons as cotton prices decrease, making cotton more competitive, and growth in the global economy is expected to be much stronger in 2017 and 2018. After several seasons of decline, China's mill use is projected to rise by 2% to 7.6 million tons in 2016/17 and by 1% to 7.7 million tons in 2017/18. The gap between China's domestic cotton prices and international cotton prices has decreased, making yarn imports less attractive than in recent seasons. In addition, mill use in Xinjiang, where the bulk of China's domestic crop is grown, has expanded and the proximity to the higher quality cotton grown in this region offers cost advantages over yarn imports. After declining by 3% to 5.1 million tons in 2016/17 due to high domestic and international cotton prices, India's mill use is projected to recover by 1% to 5.2 million tons in

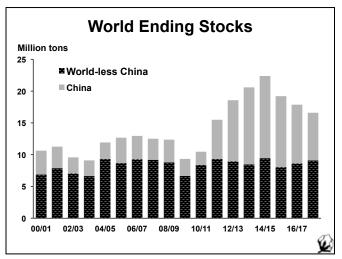


Cotton (ISSN 0010-9754) is published every two months by the Secretariat of the International Cotton Advisory Committee, 1629 K Street, NW, Suite 702, Washington DC. Editor: Rebecca Pandolph <rebecca@icac.org>. Desktop publishing: Carmen S. León. Subscription rate: \$245.00 (hard copy); \$200.00 (electronic version). Send address changes to COTTON, 1629 K Street, NW, Suite 702, Washington DC 20006-1636. Copyright © ICAC 2017 No reproduction is permitted in whole or part without the express consent of the Secretariat.





During the first seven months of 2016/17, China has imported over 600,000 tons of cotton, up by 6% from the same period last season. Its main suppliers this season are the United States (38%), India (20%), and Australia (18%). Limited by import restrictions, China's total volume of imports is expected to rise by 2% to 983,000 tons in 2016/17. Imports by Bangladesh are expected to rise by 6% to 1.4 million tons, making it the world's largest importer, and in 2017/18 they may increase by 3% to 1.5 million tons. Vietnam's imports are projected to grow by 17% to 1.17 million tons in 2016/17 and by 6% to 1.24 million tons in 2017/18. Given its large exportable surplus and the high quality of its crop this year, the United States is expected to export 2.9 million tons of cotton in 2016/17, accounting for 37% of global exports. India's exports are projected to decline by 23% to 960,000 tons in 2016/17, partially due to the delay in harvesting earlier



this season, while Australia's exports could increase by 30% to 800,000 tons due to a significantly larger crop.

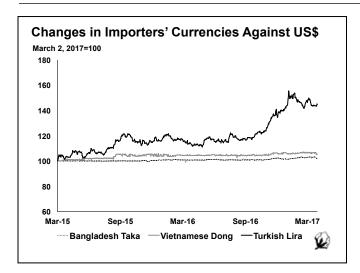
China began selling cotton from its national reserve last month as part of its efforts to reduce its large cotton stockpile. The total volume sold reached 450,000 tons as at the time of writing, which reduces the total volume in China's reserve to just under 8 million tons. Sales started strong during the first week with nearly all cotton on offer being purchased, but have lost steam since then. Last year, sales made from May through September 2016 reached over 2.6 million tons. While the pace of sales this year is slower, the auction period started two months earlier. If the level of sales that occurred last month is maintained, a similar volume of cotton may be sold this year as well, lowering the total volume held by the government to around 6 million tons at the end of August 2017. At the end of 2016/17, China's stocks are projected to fall by 17% to 9.3 million tons. World ending stocks in 2016/17 are expected to decline by 7% to 19.1 million tons.

## IMPACT OF EXCHANGE RATES AND GOVERNMENT POLICIES ON COTTON PRICE TRENDS MARCH 2015 TO MARCH 2017

By Rebecca Pandolph, ICAC

After two seasons close to the long-term average of 70 cts/lb, international prices jumped to an average of 81 cts/lb for the first eight months of 2016/17. However, this rise in price has affected the cotton producing and consuming countries in different ways depending on their exchange rates, the volume of cotton they trade and government policies affecting the cotton trade. This paper will look at the impact of the increase in cotton prices, focusing on the largest importers and exporters.

Exchange rates affect cotton trade by determining the relationship between international and domestic prices. Movements in exchange rates directly affect prices of cotton in local currency terms: an appreciating dollar raises the price of cotton in international markets while a depreciating dollar lowers international cotton prices. The Cotlook A Index is the best available indicator of international cotton prices. Between 2011/12 and 2013/14, international cotton prices, as measured



by the Cotlook A Index, remained well above the long-term average of 70 cts/lb, averaging around 93 cts/lb. However, prices fell dramatically in 2014/15 as world stocks reached a record 22.4 million tons. In 2015/16, cotton prices dropped slightly, averaging 70 cts/lb, but quickly rose at the end of the season. For the first eight months of 2016/17, prices have remained high, averaging 81 cts/lb. Between March 2016 and March 2017, the Cotlook A Index increased by 33% from 65 cts/lb to 87 cts/lb.

When variations in the Cotlook A index are moderate over a given period, like in the past two years, exchange rate fluctuations play an important role in domestic price trends, either benefiting or hurting various players within the domestic cotton sector when compared to their counterparts in the rest of the world. Conversely, when the A Index moves significantly in one direction (up or down), such as at the end of the 2015/16 season, moderate variations in exchange rates do not significantly impact price trends in specific countries. In this situation, most countries around the world experience similar cotton price trends.

#### **Small Cotton Trading Countries**

Small cotton importing and exporting countries are price takers: variations in their purchases and sales of cotton do not significantly affect international prices. If these countries are not insulated from the rest of the world, for example via trade barriers and/or a system of price control, their internal cotton prices often move in parallel with international cotton prices. The trends in the A Index and exchange rates between March 2015 and March 2017 suggest that the stability between March 2015 and March 2016 followed by the rise from April 2016 through July 2016 was reflected in domestic prices of small trading countries, without great advantages or disadvantages to any.

## Large Trading Countries and Countries with Trade Barriers and/or Price Controls

Countries that account for a large share of international cotton trade influence world cotton prices via their exchanges of cotton with the rest of the world. Price trends in their domestic markets do not necessarily reflect international price trends. Such countries include in particular the largest cotton importers, Bangladesh, Vietnam, and China (responsible for 47% of projected world imports in 2016/17) and the largest exporters, the United States and India (37% and 12% of projected world exports in 2016/17, respectively). Notably, the volume of cotton traded has spread out across more countries compared with previous seasons. In 2011/12, China dominated imports, accounting for 55% of global imports. Although its share declined in the following two seasons, it still accounted for 45% of world imports in 2012/13 and 35% in 2013/14. However, its share has fallen to just 12% in 2016/17. India accounted for 22% of global exports in 2011/12, 17% in 2012/13 and 22% in 2013/14. However, its share is expected to fall to 12% in 2016/17. In contrast, the United States accounted for 26% of all exports in 2011/12, but its share is likely to grow to 37% in 2016/17 due to a large exportable surplus and the exceptional quality of its current crop.

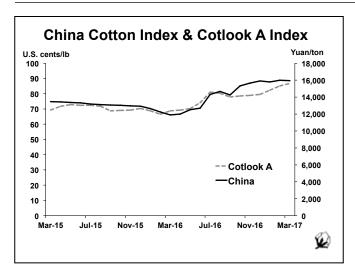
In addition, some governments can affect cotton prices in their domestic markets via various measures, partly insulating them from international influence. Such measures can include import or export restrictions, domestic price support, and systems with fixed farmers' prices. Examples of such countries are China, and countries in Africa's CFA zone.<sup>1</sup>

For large importers that are also large exporters of cotton yarn, exchange rates can be more complicated. A strong currency makes imports of raw material cheaper, but can make exports of the value-added product less competitive depending on the trading partners involved. Given that the cost of cotton lint is only a portion of the overall cost of yarn and even less so of downstream products, it may be preferable for a country to have a lower exchange rate in order to maintain a competitive advantage for its value-added products.

#### Bangladesh

Bangladesh became the world's largest importer in 2015/16 and is expected to maintain that position in 2016/17, accounting for 18% of global imports. In 2003, the Bangladesh taka switched to a free floating regime, though the central bank intervenes from time to time in order to avoid excessive volatility. Due to the stability of its currency over the last two years, the prices of cotton imports have followed movements of the Cotlook A Index. As a result, prices in terms of the Bangladesh taka did

<sup>1)</sup> The CFA zone includes: Benin, Burkina Faso, Cameroon, Central African Republic, Chad, Cote d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal, and Togo.



not rise further than the Cotlook A Index between March 2016 and March 2017. While its input costs may have been stable, textile exports from Bangladesh may not be as competitive compared to those countries, such as China, whose currencies depreciated during this time period.

#### Vietnam

In 2015/16, Vietnam became the world's second largest importer, accounting for 13% of global imports. The Vietnamese dong is loosely pegged to the U.S. dollar and, as a result, domestic prices of cotton follow the same trend as the Cotlook A Index. Since June 2014, however, the Vietnamese dong has been devalued five times. This has increased the price of cotton imports in terms of domestic currency. Despite higher costs for cotton, the devaluation of the dong is expected to keep Vietnam's exports of downstream products competitive in relation to other countries.

#### China

Since 2015, cotton price trends in China have been affected by the government's support price policy and import quotas. In an effort to reduce its large stockpile of cotton, the Chinese government has restricted its low duty cotton import quota to 894,000 tons from 2015 to 2017, which is the limit required by its agreement with the World Trade Organization. Any cotton imported above that volume is subject to a 40% tariff. As a result, China's imports have fallen significantly in 2015 and 2016.

China's internal prices fell sharply in 2014 and 2015 due to the change in its cotton policy from direct purchases to a reduced production subsidy. The China Cotton Index² fell by 12%, from an average of 13,463 yuan/ton in March 2015 to 11,894 yuan/ton in March 2016. However, strong demand and limited supply due to both lower production and restrictions

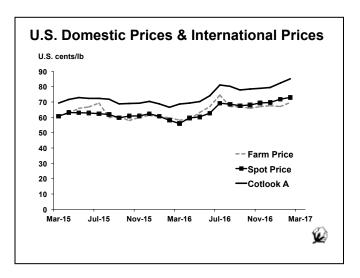
on imports in 2016 have pushed prices up. In March 2017, the China Cotton Index averaged 15,945 yuan per ton, which represents an increase of 34% compared to prices in March 2016, while the A Index rose by 33% during the same time period. However, the Chinese yuan lost 6% against the U.S. dollar during the same time period. Although domestic cotton prices rose slightly more than international prices, the depreciation of the yuan against the U.S. dollar during this period made imports as or more expensive than domestic cotton.

#### Turkey

Turkey accounts for around 11% of world imports and is the world's fourth largest importer. The United States is one of the main countries from which it buys cotton, though in April 2016 a 3% anti-dumping duty has been applied to cotton imports from that country. Compared to March 2015, the Turkish lira has strongly depreciated against the U.S. dollar, making cotton imports more expensive. As a result, imports by Turkey during the first half of 2016/17 have declined by 30% compared to the same period in the previous season. The appreciation of the U.S. dollar against the euro has also made it difficult for Turkish textile companies, which export mainly to countries in the euro zone, since the higher price of cotton and a weaker euro does not allow for much of an increase in sales prices.

#### **United States**

The U.S. spot price and monthly farm price generally followed a similar trend to the A Index for the period March 2015 through March 2017.<sup>3</sup> The U.S. spot price averaged 61 cts/lb from March 2015 through March 2016, ranging from 56 cts/lb to 62.9 cts/lb while the U.S. farm price averaged 62 cts/lb, ranging between 57.9 cts/lb and 69.3 cts/lb. Like the Cotlook A Index, both prices rose between April 2016 and



<sup>2)</sup> China Cotton Index represents the price level of Type 3128B, delivered to mill, on the day proceeding the date of publication. The CC Index includes the value added tax of 13% and the local transportation cost (delivered mill price).

<sup>3)</sup> Source: USDA, Agricultural Marketing Service, Cotton Price Statistics (in ERS, USDA, Cotton and Wool Outlook, various issues).

July 2016 before falling in August 2016, though the change was more sizeable for the U.S. farm price. The U.S. spot price rose from 59.7 cts/lb in April 2016 to 69.3 cts/lb in July 2016, and then declined by 1% to 68.6 cts/lb in August 2016. The U.S. farm price increased from 58.7 cts/lb in April 2016 to 74.5 cts/lb in July 2016. In August 2016, the U.S. farm price decreased by 10% to 67.1 cts/lb in contrast to the Cotlook A Index, which declined by 1% to 80.3 cts/lb. However, while both the U.S. spot price and A Index fell slightly in September 2016, the U.S. farm price remained stable. Over the next five months both the A Index and the U.S. spot price steadily rose, increasing by 8% and 7%, respectively. The U.S. farm price fluctuated, increasing in one month then decreasing in the next, but increasing overall by 6% between September 2016 and February 2017. Exports from the United States are projected to increase by 44% in 2016/17, which has led to strong domestic prices. Additionally, as the world's largest exporter, the strong demand for U.S. exports coupled with lower global supplies have contributed to the rise in international cotton prices in 2016/17.

#### India

Following the same trend as the Cotlook A Index, the monthly average spot price of Shankar-6 cotton increased by 45% between March 2016 and July 2016 (from 33,250 rupees per candy to 48,100 rupees per candy). Prices fell by 15% from September 2016 through December 2016 (from 46,500 rupees per candy to 39,500 rupees per candy). However, prices have risen in the first three months of 2017 due to the slower pace of arrivals, caused by delays in cash payments to farmers as a result of the demonetization policy and a tendency for some farmers to await a further rise in prices before selling their cotton. The monthly average spot price of Shankar-6 cotton rose by 8% from 33,250 rupees per candy in January 2017 to 40,500 rupees per candy in the first two weeks of March 2017.

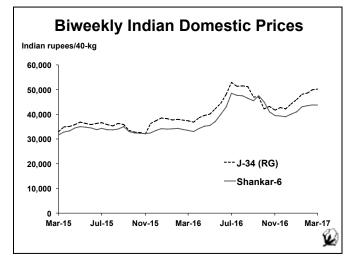
The overall increase in the spot price of Shankar-6 between

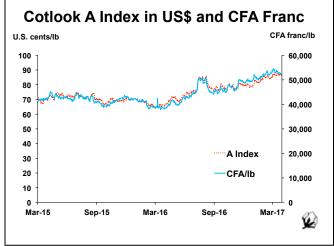
March 2016 and March 2017 was 31%, slightly less than the increase in the Cotlook A Index during the same period. After steadily depreciating against the U.S. dollar from March 2015 until February 2016, the Indian rupee held steady through October 2016. However, after the introduction of the demonetization policy in mid-November, the Indian rupee quickly depreciated against the U.S. dollar through December 2016. Since early January 2017, the Indian rupee has steadily appreciated. The strengthening of its currency, combined with the rise in domestic prices since December 2016, will likely limit export growth. At the same time, imports are expected to be much more attractive than in previous seasons given their relative cheapness and the high cost of domestic cotton.

#### Africa-CFA Zone

Farmers' seedcotton prices in many of the cotton-producing African countries in the CFA franc zone are fixed at the beginning of the season by the cotton companies. At the end of the season, depending on the prices actually received by cotton companies and the trend in international prices, farmers sometimes obtain a premium over the initial price. The non-weighted average seedcotton price paid to farmers across eight countries in the CFA zone was 249 CFA francs/kg in 2016/17 (equivalent to 41 US cents/kg in March 2017). This was 4% higher than in 2015/16.

Unlike most other currencies used by cotton-trading countries, the CFA franc is tied to the euro. For over a decade, the euro has been much stronger than the U.S. dollar. This makes export prices from these countries less competitive and reduces their earnings when expressed in domestic currency. Cotton prices expressed in CFA francs have followed the same trend as the Cotlook A Index due to the fact that the U.S. dollar and euro have been close to parity for much of 2016. In April and May 2016, the euro and CFA franc appreciated slightly against the U.S. dollar, which reduced export earnings from sales made during that period. However, the dollar has gained against



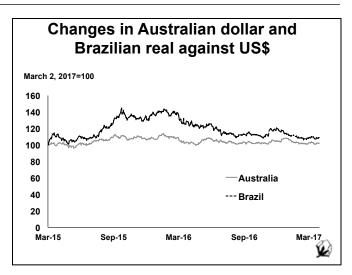


<sup>4)</sup> Prices reported by the Indian Cotton Federation.

the euro since mid-November 2016, making exports from the CFA zone this season much more competitive as well as increasing earnings expressed in domestic currency. Higher earnings this season may also allow the cotton companies to offer higher prices to farmers in 2017/18.

#### **Australia and Brazil**

Both Australia and Brazil are fairly large exporters, accounting for around 10% and 9%, respectively, of the world total. However, unlike most other exporters, the bulk of their harvest reaches the international market in June through August, since both are located in the Southern Hemisphere. As a result, competition from major exporters from the Northern Hemisphere is not as great. Thus, the impact of their respective exchange rates may not be as meaningful with regard to competition, but influences how much exporters earn in a particular season. This in turn can affect farmers' planting intentions. In June through August 2015, the Brazilian real depreciated against the U.S. dollar with the decline accelerating from mid-July. In June and July 2015, the Australian dollar was stable, but depreciated slightly from mid-July through August 2015. As a result, exports from both countries were competitively priced and earnings were increased. This helped to offset the lower prices of cotton during this time period. During the same period in the following year, however, international cotton prices rose



significantly. During this time period, the Australian dollar remained stable while the Brazilian real appreciated slightly. Currently, the Australian dollar is around the same level as in March 2015. If the Cotlook A Index continues at elevated levels through the remainder of the 2016/17 season, export earnings for Australia will remain high. After depreciating greatly in September 2015 to March 2016, the Brazilian real has slowly gained against the U.S. dollar and is currently near the same level as in March 2015. Like Australia, export earnings are expected to be high.

#### THE COTTON INDUSTRY IN KENYA

By Rebecca Pandolph, ICAC

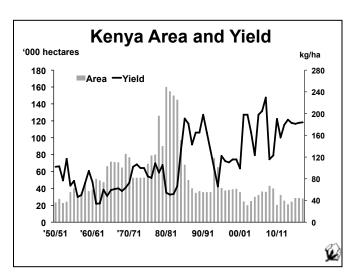
Kenya is one of the few African countries that has a long value chain from cotton production to apparel. The Kenyan government has identified fiber crops, particularly cotton and sisal, as a key sub-sector for economic development, especially in arid and semi-arid areas of the country. These crops have the potential to reduce extreme poverty, food insecurity and unemployment due to their multiplier effect through upstream and downstream links to the industry's players, who include farmers, processors, traders, transporters and input suppliers. This paper will examine the different components of the cotton value chain in Kenya, the challenges they face, and the efforts undertaken by the government to overcome these challenges.

#### **Historical Background**

Cotton cultivation in Kenya started in 1902, coinciding with the construction of the Kenya/Uganda railway, but attempts to develop cotton production before 1923 were unsuccessful. The lack of success was due to low and highly variable yields, high incidence of pests and diseases and a wide range of planting dates. In the early stages, cotton production and marketing activities were handled by private companies under the colonial government, mainly the British Cotton

Grower's Association and, later in the 1940s, the Uganda Lint Marketing Board.

In 1955, the Colonial Government established the Cotton Lint and Seed Marketing Board (CL&SMB) to regulate and promote cotton production. The CL&SMB was established under Ordinance No. 50 of 1954, which was later replaced



by the Cotton Act Cap 335. The main objective of the CL&SMB was to intervene in the activities related to cotton processing and marketing in Kenya. It provided financing for cotton research, extension and seed supply. The Cotton Act Cap 334 concurrently governed cotton production. The two Acts were repealed in 1988 by the Cotton Act Cap 355, which transformed the CL&SMB into the Cotton Board of Kenya (CBK). The Cotton Act Cap 355 was amended in 2006, establishing the Cotton Development Authority (CODA). In 2014, the CODA was merged with the Kenya Sisal Board to form the Fibre Crops Directorate under the Agriculture, Fisheries and Food Authority.

#### Research

Before the 1940s, cotton research was conducted by the Cotton Research Corporation (CRC), then known as the Imperial Cotton Growing Corporation. Around 1950, the CRC, in collaboration with the CL&SMB, started research activities in several sites in Western Kenya and in the Coast region. Cotton research continued under the CRC until 1975, when it was handed over to the Ministry of Agriculture. In 1988 cotton research activities were transferred to the Kenya Agricultural Research Institute (KARI). In 2014, under the Kenya Agricultural and Livestock Research Act of 2013, KARI was merged with the Coffee Research Foundation, the Tea Research Foundation and the Kenya Sugar Research Foundation to form the Kenya Agricultural and Livestock Research Organization (Kalro). Kalro was formed to increase efficiency in resource use and coordination of research activities. The Industrial Crops Research Institute, a semiautonomous institute under Kalro, was created to support commercialization of industrial crops, including cotton, through focused and efficient research. The headquarters is located in Mtwapa, with sub-centers in Mtwapa, Mwea and Molo.

Cotton research in Kenya investigates challenges faced in the fields of agronomy, quality, disease and pest control, and processing seedcotton into fiber and by-products. Low productivity is an ongoing concern and research into improving yields includes establishing a certified seed program, reviving irrigation schemes, and commercialization of biotechnology.

Three new high-yielding cotton varieties have successfully gone through national trials, including one variety from Amiran Kenya that has been approved for semi-commercialization. In October 2016, 578 acres of this variety will be planted in the Bura irrigation scheme. In 2015, the Directorate helped Karlo to produce 9,000 tons of certified cotton seed (KSA 81M), which will be multiplied in Isolo County in 2016/17 with the goal of producing 2,000 tons of seed cotton. The Fibre Crop Directorate has also initiated a partnership with Kalro, the Kenya Seed Company and National Irrigation Board (NIB) to do seed bulking, and in 2015, 10 tons were produced. Once a sufficient quantity of certified seed is available to farmers, the government will ensure that ginners do not provide uncertified seed to farmers.

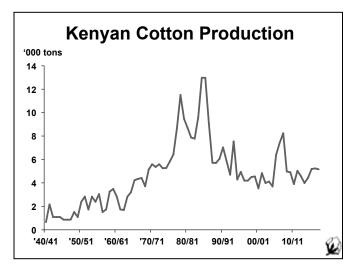
#### **Cotton Production**

Approximately 39,000 farmers currently produce cotton in Kenya. Including family and hired labor as well as cotton-related industries, about 780,000 persons are employed in the cotton sector. Most cotton is grown by small-scale farmers on holdings of less than one hectare, in arid and semi-arid areas where economic activities are limited and food crops do not perform well. There is little mechanization to cotton production due to the small size of farms and uneven topography. The main growing regions are in the Rift Valley, Eastern, Central, Coast, and Nyanza zones. Cotton is currently produced as a cash crop. It is a source of livelihood for farmers in arid and semi-arid lands, which helps to reduce poverty and to promote food security.

Between 1965/66 and 1978/79, cotton production increased from 4,500 to 11,700 tons of lint. It declined to 7,800 tons in 1982/83 due to delayed payments to farmers. Production fell further in 1983/84 to 5,400 tons as a result of a severe drought compounded by delayed payments to farmers. In 1976/77, more than half of Kenya's cotton was grown in the Western province and less than one-third in Eastern and Central provinces.

In 1984/85 production reached a record of 13,000 tons due to the availability of free seeds, good weather and timely payments to farmers by the CL&SMB (prior to 1983/84, the CL&SMB had taken over from the cooperative societies the responsibility of paying farmers in the areas worst affected by payment delays). Production also shifted from the Western Province to the Central and Eastern provinces in 1984/85. This change was attributed to factors related to farmer payment records, population pressure, size of farm holdings, agronomic practices and competition with food crops and alternative cash crops in the respective regions.

In 1985/86, production was maintained at 13,000 tons, but declined over the next 15 years. Between 2001/02 and 2005/06, cotton area was further reduced to 30,000 hectares or below, with annual production averaging 5,000 tons. The cotton area



increased to 36,000 hectares, and output reached 7,000 tons in 2006/07 due to government efforts to revitalize the sector. Acreage was maintained in 2007/08, and production increased to 8,000 tons as the average yield improved. Unfavorable weather and poor access to inputs led to a significant decrease in yields in 2008/09, and production declined by 40% to 5,000 tons. Since then production has averaged around 5,000 tons a year with area ranging between 20-30,000 hectares.

The difficulties currently faced by cotton producers include:

- High input costs, particularly for pesticide
- Low yields due to lack of certified seeds, with farmers using seeds left from ginning
- · Lack of technology adoption
- Low and variable prices, particularly compared to competing crops

Efforts underway to solve some of these problems:

- The government encourages farmers to adopt integrated pest management and to use contracts to combat high production costs.
- Biotech cotton was given approval by Kenya's National Bio-Safety Committee in 2003 and the importation of biotech cotton seeds from Monsanto was permitted for trials. The completion of the trials have provided sufficient data to allow for approvals of further study before commercialization. Bt cotton is expected to increase yields while reducing the cost of pesticide sprays.
- The government is reviving its irrigation schemes, which
  in the past produced 40% of national output and greatly
  improved yields. Over 800 hectares were planted with
  cotton in 2012/13 in the Bura and Hola irrigation schemes.

#### **Cotton Ginning**

There are currently 23 ginneries in Kenya, but only seven are operational. These gins are located in the coastal (3 gins), central (3 gins) and rift valley (1 gin) regions. One gin in the western region is currently in the process of rehabilitation. The total installed capacity of the ginneries is 140,000 185-kg bales (26,000 tons), and is 70,000 185-kg bales (13,000 tons) for the operational gins. Three ginneries are owned by cotton cooperative societies that have in the past been leased to private operators.

Most of the ginneries were set up in the 1930s, while a few are more modern; all are equipped principally with roller gins. While roller ginning is appropriate for Kenyan seedcotton (medium to medium-long fibers), it is a relatively slower technology that prolongs the ginning season. Currently most ginneries have high operational costs (particularly electricity), low efficiency and low ginning outturn ratios. The average ginning outturn achieved by most ginneries is 33% against a potential of 40%. The government is promoting a public-private partnership to rehabilitate farmer-owned facilities in Homabay and Luanda with support from county governments.

Region	Total Number of Gins	Operational Gins	Name(s)
Coast	5	3	Voi, Mpeketoni, Malindi
Western	5	0	Luanda under rehabilitation
Nyanza	6	0	
Eastern	5	3	Kitui, Makueni, Meru
Central	1	0	
Rift Valley	1	1	Salawa (Rift Valley Products)

The government is also considering revising tariffs on electricity for the ginning sector.

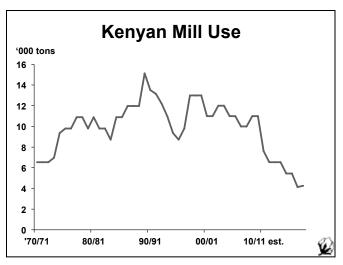
#### **Cotton Marketing**

Kenya's cotton market has been fully liberalized and cotton marketing is now wholly in the hands of the private sector. The Fibre Crop Directorate is the regulatory body in charge of coordinating and regulating cotton marketing to promote transparency. All seedcotton buyers are registered with the Directorate to improve transparency with regard to seed cotton purchases.

Cotton marketing faces several difficulties, including the collapse of cotton cooperative unions/societies and organized farmer groups, resulting in farmers with little bargaining power and no economies of scale. Farmers are being encouraged to form farmer organizations and cooperative societies in order to undertake marketing activities on behalf of members. In 2007/08, the government waived non-performing loans that farmer cooperatives owed to the Cooperative Bank of Kenya. However, the farmer cooperatives remain weak.

Low and unpredictable prices have also proved a challenge that has led to declining production. This is exacerbated by the fact that high capital costs incurred by ginneries or other buyers of seedcotton often lead to delayed and/or irregular payments to farmers. Currently, the Fibre Crop Directorate oversees negotiations on setting a price floor for cotton among farmers, ginners, and textile companies. The government has been working with stakeholders to use contracts between all three groups of stakeholders in order to spread risks along the value chain. Spinning mills have been receptive and are willing to provide seed to farmers to ensure that the cotton produced has the desired characteristics. The government is also examining proposals to establish a price stabilization or revolving fund.

Kenya, assisted by ICAC as a supervisory body, launched a project in 2012 to develop its national cotton classing system. A grant for capacity building and system institutionalization was received from the Common Fund for Commodities (CFC),



Factory	Town	Ownership
Thika Cloths Mills	Thika	Private
Rift Valley Textile Mills	Eldoret	Moi University
Sun Flag Mills	Nairobi	Private
African Cotton Mills	Mombasa	Private

with co-financing from the OPEC Fund for International Development. The Kenyan government provided the necessary infrastructure, including buildings, high volume instrument (HVI) machines and ambient air management system (AAMS), as in-kind contributions. The project established a functioning national cotton classing system in Kenya that covers all cotton production through 100% bale sampling and HVI testing. The objective of the project was to allow ginners to negotiate better prices for their cotton lint based on quality parameters, which in turn would allow them to pay better prices to farmers. Currently, two of the spinning mills regularly use HVI classing data, while two others are still learning to use it. The two mills that rely on the HVI data have also recently renovated their facilities with new equipment that allows them to better use the available data. The HVI facility is also used to check the characteristics of imported cotton lint.

#### **Textile and Apparel Manufacture**

With market liberalization in the early 1990s, a decline occurred in the performance of the cotton textile industry due to an influx of cheap textile products and garments from other countries (new and second-hand), high production costs, and the usage of obsolete technology. Local textile manufacturers supply only 45% of Kenyan textile market requirements, while imported new and used clothes account for much of the rest of the market. The used clothing market is particularly challenging because not only are these articles generally cheaper but the quality is better than for new imports. Most textile mills currently operate below capacity, while others have closed down. Currently four mills operate in Kenya, one of which is owned by Moi University. Domestic spinning mills use both open end and ring spinning. High costs for electricity are a specific problem. In an effort to curb costs, some textile factories are locating near energy plants in order to use the steam by-product from energy generation in their production process.

The Ministry of Industrialization and Enterprise Development has developed a strategic, comprehensive and integrated plan sectors that are considered to provide significant opportunities and have a competitive advantage, including apparel and textiles. Textiles have been a major contributor to Kenya's industrial export growth. While accounting for around 0.6% of GDP, textiles provide employment to around 66,000 people, or 3% of formal employment. Kenya's labor costs are lower than many Asian countries and it has preferential trade access to global markets, creating a cost advantage. However, there is currently insufficient skilled labor outside of basic apparel, and the time required for products to reach consuming markets is often lengthier than for Asia. Kenya is also working with India through the Supporting India Trade and Investment in Africa (SITA) program, to train workers on modern hand looms. Kenya has focused on hand looms in order to develop its small and medium enterprises, which would help to alleviate poverty. In addition, these products can also be exported to the United States through the African Growth and Opportunity Act (AGOA). Once training is completed, they will work to increase production volume in order to make exports feasible. The Kenyan government is also working with India to import microspinners and train workers in order to create small batches for the hand looms. since the domestic spinning mills currently in operation do not usually sell in small quantities.

Kenya was authorized to export textiles to the U.S. market under AGOA in January 2001, making it the first Sub-Saharan African country to be accredited as a beneficiary. AGOA enhances market access to the United States for qualifying sub-Saharan African countries, which requires that each country must be working to improve its rule of law, human rights, and respect for core labor standards. In June 2015, AGOA was extended for the second time and will remain in force for a further ten years to 2025. AGOA extends duty-free and quota-free benefits to imports of a number of apparel items, and textile products used to make those goods, produced in eligible countries, which include Kenya. The enactment of AGOA opened up an opportunity for growth and revival of the textile sector in Kenya. AGOA benefits brought

foreign investors into the country particularly in the Export Processing Zones (EPZs) to manufacture apparel for export to the U.S. market.

The Export Processing Zone Authority oversees and promotes EPZs in Kenya, in which numerous large-scale and micro garment manufacturers operate. EPZs offer incentives that lower operational costs and quick installation. These incentives include: tax holidays, stamp duty exemption, 100% investment deduction over 20 years for building and machinery, unrestricted investment by foreigners, and on-site documentation and inspection by customs officials. Garments and textiles is one of the sectors that the EPZ Authority considers particularly desirable. Around USD 380 million are earned annually from apparel exports. However, apparel firms within the EPZs rely heavily on imports of fabric and accessories from other regions, particularly Asia, which costs around USD 220 million in a year. This brings the net gain

from EPZs close to USD 160 million. In the long term, the government will attempt to bring production of apparel inputs back into Kenya or the East African region.

#### ICAC Expectations

The Secretariat is forecasting increases in cotton area and yield in Kenya in coming seasons. Price risk management through contracts, coupled with better financing for inputs or free provision of inputs, will likely encourage farmers to expand cotton area. However, because cotton is grown in marginal areas and primarily under rainfed conditions, the yield is expected to grow at a slower rate than the planted area. Widespread use of certified seed and expansion of irrigation scheme usage will help to boost cotton yields in Kenya. Kenya's cotton production is projected to double to 6,500 tons by 2020. Mill use is forecast to double to 8,000 tons by 2020 if government support is continued.

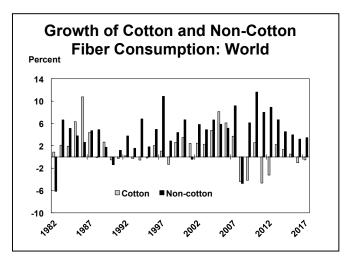
#### TEXTILE FIBER DEMAND OUTLOOK

Adapted from the October 2016 World Textile Demand<sup>5</sup>, Lorena Ruiz, Economist, ICAC

Eight years after the financial crisis, global economic activity is starting to show signs of modest recovery, though the international outlook remains uncertain. The world economic recovery has been dampened by several major headwinds, such as: macroeconomic uncertainties; declining trade flows; rising volatility in exchange rates and capital flows; stagnant investment and diminishing productivity growth; and a continued disconnect between finance and the real sector activities. In January 2017, the International Monetary Fund (IMF) maintained its predictions for economic growth in 2017 of a modest 3.4% and projects that the global economy will expand by 3.6% in 2018.<sup>7</sup> Prospects for a strengthening global economy relies on projected growth in emerging market and developing economies as current macroeconomic difficulties are resolved in these markets. However, there are medium term risks that may limit economic growth. Notably, the global economic forecast remains susceptible to a number of geopolitical and other noneconomic factors, which means that weaker growth scenarios are possible. In addition, several emerging market economies have downside risks from high corporate debt, declining profitability, weak bank balance sheets and weak policy support that may limit economic growth in the next two years.

#### **Textile Demand**

Based on current projections of world economic growth,

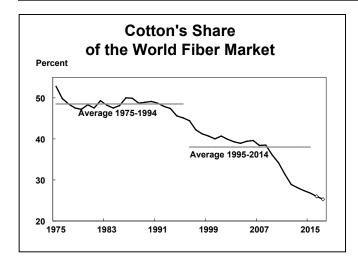


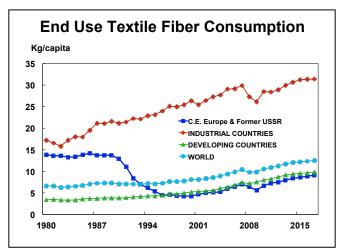
along with a 1.1% annual increase in population, world textile demand is estimated at 91.7 million tons in 2016 and is expected to rise to 93.9 million tons in 2017. World textile fiber consumption continued to increase for the seventh consecutive year and reached 89.8 million tons in 2015, 3% higher than in 2014. The growth was driven by the increase of non-cotton goods, which rose from 63.2 million tons in 2014 to 65.8 million tons in 2015. Demand for cotton products experienced a marginal increase of 0.5% and reached 24 million tons in 2015. Although textile demand has continued to expand since

<sup>5)</sup> This report will be updated in May 2017 and will be available for purchase at the ICAC bookstore: https://www.icac.org/login?url=%2Fsearchpubresults.

<sup>6)</sup> World Economic Situation and Prospects 2017. United Nations https://www.un.org/development/desa/dpad/wp-content/uploads/sites/45/publication/2017wesp full en.pdf.

<sup>7)</sup> World Economic Outlook Update: A Shifting Global Economic Landscape. International Monetary Fund. January 2017. https://www.imf.org/external/pubs/ft/weo/2017/update/01/.

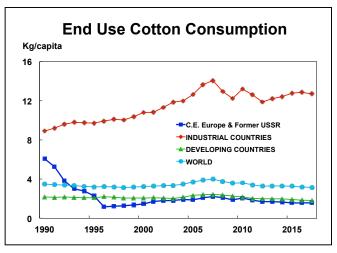




the Great Recession, the growth rate decreased from 3.7% in 2014 to 3% in 2015. Longer-term projections suggest that world textile fiber consumption could expand at an average annual rate of 3.2% to reach about 119.2 million tons by 2025. World cotton consumption is projected to expand at a lower annual rate of 0.6% and reach 24.9 million tons in 2025.

The growth of textile demand in developing countries accounted for 78% of additional demand at the world level, *i.e.* 2.1 million tons. In particular, textile consumption increased by almost 185,000 tons in Africa (6.6%). The largest increase in textile demand in volume terms was registered in developing Asia, which grew by 4% (1.8 million tons). Central and Eastern Europe and Former USSR (CEEU), the Middle East and Europe (MEE), and Latin America and the Caribbean (LAC) registered increases of 3.7%, 2.1% and 0.8%, respectively.

Economic expansion in developed and developing countries plays a crucial role in the demand for cotton. The percentage change in the demand for cotton derived from a percentage change in income is higher in developed countries, where consumer preferences for fiber are more important. In developing and CEEU countries, economic growth tends to mainly produce gains in chemical fiber consumption. A



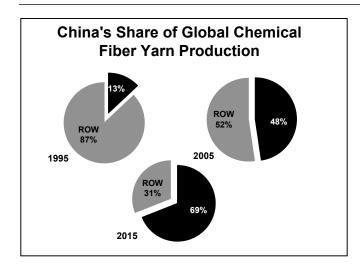
plausible explanation is that affordability is more important than the quality attributes of garments in these locations.

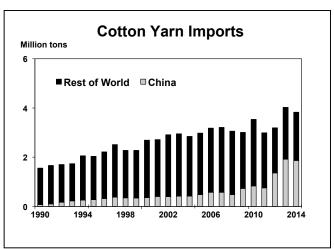
Over the last decade, the market share of cotton in total textile consumption has varied in all regions. While market share in developing countries declined from 35% in 2006 to 20% in 2015, the market share in industrial countries has remained above 40%. In the CEEU countries the trend is the same as in developing countries and the market share of cotton in total textile consumption has decreased by 14 percentage points, from 32% to 18%, during the same period. Developed countries accounted for 49% of all cotton products consumed in 2015, followed by developing countries with a 48% share. The CEEU countries account for the remaining 3%.

#### **Fiber and Yarn Markets**

World cotton mill use increased for the second consecutive year by 0.5% to 24.1 million tons in 2015. This was the third consecutive year of increased cotton consumption, which has risen by 963,000 tons since 2012. The increase was spurred by industrial countries, which consumed an additional 291,000 tons. China continues to lose market share, decreasing from 40.3% in 2007 to 38.5% in 2011 and 30.8% in 2015. Cotton consumption in developing countries and central and Eastern Europe and the former USSR decreased marginally and reached a total of 11.6 million and 0.64 million tons respectively. Based on weaker-than-expected improvement in global economic activity and increases in cotton prices, mill use of cotton is expected to shrink by 1% to 23.8 million tons in 2016, after three seasons of consumption growth. Faster growth in global cotton mill use has been limited by competition for fiber share in many apparel products.

World chemical fiber consumption increased by 4.1%, the lowest rate since 2008, and reached 64.6 million tons in 2015. Non-cellulosic fiber consumption accounted for most of the increase, as it represents 92% of chemical fiber consumption. As consumption of chemical fibers continues to expand at a higher rate than that of cotton, the market share of cotton dropped by 0.7 percentage points to 26.8% in 2015. Cotton's share in textile fiber end use has decreased every year since





2009. According to the ICAC Textile Demand Model,<sup>8</sup> the demand for cotton and non-cotton textile fibers is more sensitive to changes in income than to changes in relative prices, *i.e.* a 1% increase in GDP per capita generates, on average, a higher increase in demand for each fiber than a 1% decline in (relative) prices. Furthermore, the sensitivity of world non-cotton fiber demand to income is significantly higher than the corresponding sensitivity of world cotton demand, implying that a given increase in GDP per capita results, on average, in a higher proportional increase in the demand for non-cotton fibers than in the demand for cotton.

World production of chemical fiber varn increased for the seventh consecutive year and reached 64.6 million tons in 2015. Filament fiber yarn production registered the highest growth with 4.6%, while staple fibers increased by 3.1%. In the past three decades, there has been a continued shift in the geographic location of the world chemical fiber yarn production. Several factors, such as labor and energy costs, as well as technological advances, have led the production of chemical fiber yarn to move away from traditional production centers. The United States, Western Europe and Japan have been affected by the loss of their traditional export markets and a significant increase of imported products, mainly from East Asian countries. In 1985, the world's leading producing countries were the U.S.A., with 3.1 million tons, followed by Japan (1.7 million tons), Germany (1.2 million tons), Taiwan (1.1 million tons), and China (0.9 million tons). Together, these five countries accounted for almost 53% of global production of chemical yarn.

By 1995 the U.S.A had increased its production by almost 350,000 tons and remained the world's largest producer of chemical fiber yarn. At the same time, China almost tripled its production and surpassed Japan as the world's second largest producer. Taiwan followed the same trend and doubled its production to 2.6 million tons. The Republic of Korea became

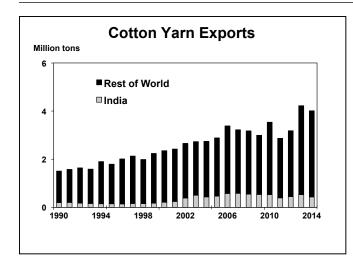
the fourth largest producer, with a total of 1.9 million tons, while Japan's production dropped by 8% (to 134,000 tons) and ranked fifth. The market share of the top five countries grew by six percentage points, accounting for 58.7% of the total.

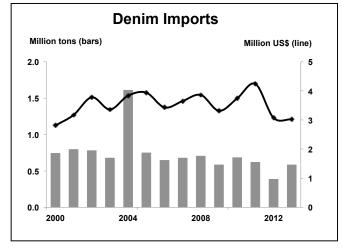
In 1997, China became the largest producer of chemical fiber yarn and its annual production has increased exponentially, by 14%, since then. Consequently, the average annual increase in chemical fiber yarn production in China was 1.92 million tons between 1997 and 2015. As chemical fiber yarn production is dominated by China, any slowdown in that country's economy may affect the rate of global synthetic fiber growth. Although China continues to have the fastest growth of chemical yarn production in the world, there is evidence that the pace is slowing due to rising labor costs, weak demand and excess production capacity. ICAC estimates that world chemical fiber yarn production increased by 3.2% in 2016 and will increase by 3.5% in 2017.

#### Yarn and Fabric Trade

Global trade in cotton yarn has been negatively affected by the sharp fall in demand from China, weak global economic growth, and low polyester prices. In 2014, world cotton yarn imports decreased by 5%, after two consecutive years of increases, and reached a total of about 3.8 million tons. China, the world's largest cotton consumer, was the main driver behind the decline as the country imported 3% less cotton yarn than in 2013. Despite the decline, China remained the leading cotton yarn importer and its share in these imports increased slightly, from 47.7% in 2013 to 48.7% in 2014. India continued to be the main exporter of cotton yarn in the world in 2014 with 1.26 million tons. China, Bangladesh and Egypt were the main destinations of India's exports, accounting for 42%, 13% and 5% respectively. Yarn exports in Vietnam have increased rapidly in the past seven years, growing from

<sup>8)</sup> The ICAC Textile Demand Model is a collection of equations that rest on basic principles of consumer economics and make textile consumption dependent upon income, population and prices. The textile projections are prepared by the Secretariat on the basis of projections of world economic activity and population growth developed by other international organizations.

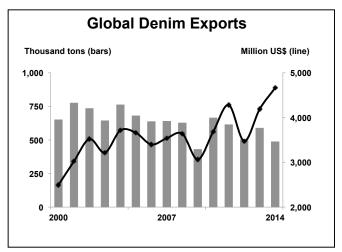




83,000 tons in 2008 to 429,000 tons in 2014, strengthening its position in the overall structure of export destinations.

Since 2013, the World Textile Demand report incorporates data on the value of cotton fabric9 imports and exports by country. Although import and export data are not necessarily reconcilable at the world level because of lack of data for some countries, timing issues and estimation errors, both import and export data show that the average world price of traded cotton fabric decreased in 2013. According to import data, the average price of cotton fabric in 2014 amounted to US\$8.2/kg, while the average price calculated from export data amounted to US\$12.1/kg. Hong Kong (167,400 tons), Egypt (153,000 tons), Vietnam (118,000 tons), Italy (107,000 tons) and China (101,200 tons) were the main importers of cotton fabric, accounting for approximately 30.5% of the total. Despite a reduction of 41% in the volume of cotton fabric exported in 2014, China remained the largest exporter of cotton fabric in the world, accounting for 40% of global exports. The second largest exporter was Pakistan (259,300 tons), followed by Hong Kong (161,300 tons), India (133,900 tons) and Turkey (109,500 tons). These five countries accounted for almost 67% of cotton fabric exports.

Denim is one of the most traditional cotton fabrics. It increased its presence worldwide as societies became more accepting of its relaxed look, comfort and ease of wear, and as open end rotor technology facilitated productivity gains in spinning yarn for denim. In recent years, the demand for denim has been facing new challenges and pressures. The use of athletic apparel for activities other than exercise is rapidly increasing and consumers, especially women, are seeking casual and versatile athletic clothing that can be worn throughout the day for several activities, including work. Moreover, high cotton prices led manufacturers to reduce cotton content or replace it with polyester.



According to the latest data, the trade of denim fluctuated between 442,000 and 760,000 tons per year between 2005 and 2014, and averaged around 610,000 tons. In 2014, the largest importing countries by volume were Egypt (130,000 tons), Hong Kong (83,000 tons), Turkey (39,300 tons), Mexico (27,600 tons) and Colombia (25,200 tons). The market share of denim in cotton fabric imports by volume has ranged from 20% to 23% over the last five years. On the export side, the annual trade of denim fluctuated between 430,000 and 700,000 tons, and averaged 590,000 tons between 2005 and 2014. Despite a decline in denim exports by China of 47% (to 137,000 tons) in 2014, China remains the largest exporter of denim in the world. Hong Kong, Bangladesh, Vietnam, Mexico, and Colombia were the major markets for denim fabric exports from China, accounting for approximately 56% of the total.

<sup>9)</sup> Cotton fabric refers to woven cotton fabrics with a cotton content of at least 50%, classified as HS codes 5208, 5209, 5210, 5211 and 5212.



#### 2016/17 SUPPLY AND USE OF COTTON BY COUNTRY April 3, 2017

	AREA	YIELD	PROD	BEG STKS		CONS	<b>EXPORTS</b>	END STKS	S/U *	S/MU **
	000 Ha	Kgs/Ha			000 Metr	ric Tons			Ratio	Ratio
CANADA CUBA DOM. REP. MEXICO USA N. America	95 3,854 <b>3,958</b>	269 1,559 973 <b>986</b>	1 148 3,751 <b>3,902</b>	0 1 161 827 <b>990</b>	0 2 1 298 2 304	0 3 1 418 718 <b>1,142</b>	28 2,874 <b>2,902</b>	0 1 0 161 980 <b>1,142</b>	0.11 0.19 0.47 0.36 0.27 <b>0.28</b>	0.11 0.19 0.47 0.38 1.36 1.00
EL SALVADOR GUATEMALA HONDURAS C. America	0 <b>2</b>	318 <b>512</b>	0	9 7 0 <b>16</b>	34 24 <b>58</b>	34 24 0 <b>59</b>	0	9 7 0 <b>16</b>	0.27 0.29 <b>0.28</b>	0.27 0.29 <b>0.28</b>
ARGENTINA BOLIVIA BRAZIL CHILE COLOMBIA ECUADOR PARAGUAY PERU URUGUAY VENEZUELA S. America	300 4 926 26 1 10 27 15 1,309	522 639 1,559 816 439 450 814 390 <b>1,265</b>	157 3 1,443 21 1 5 22 6 1,656	312 2 795 0 14 3 3 16 0 4 1,149	3 0 44 0 35 10 2 39	141 3 719 0 56 11 3 61 0 10	60 0 610 2 1	271 2 953 0 14 3 4 16 0 3 1,266	1.35 0.50 0.72 0.12 0.25 0.69 0.26 0.06 0.30 <b>0.75</b>	1.92 0.53 1.33 0.12 0.25 0.25 1.23 0.27 0.06 0.30 1.26
ALGERIA EGYPT MOROCCO SUDAN TUNISIA N. Africa	55 49 <b>104</b>	858 487 <b>683</b>	47 24 <b>71</b>	1 75 4 20 3 101	2 101 15 12 130	2 126 15 18 12 <b>174</b>	29 13 <b>43</b>	1 67 4 13 3 <b>87</b>	0.23 0.43 0.24 0.41 0.22 <b>0.40</b>	0.23 0.53 0.24 0.72 0.22 <b>0.50</b>
BENIN BURKINA FASO CAMEROON CENT. AFR. REP. CHAD COTE D'IVOIRE GUINEA MADAGASCAR MALI NIGER SENEGAL TOGO F. Africa	392 740 224 32 298 345 12 656 5 20 133 <b>2,856</b>	385 385 455 216 239 432 276 398 447 355 241 375	151 285 102 7 71 149 3 261 2 7 32 1,070	58 122 64 2 23 47 1 3 104 0 1 11 438		4 4 2 1 2 3 1 1 1	137 261 111 7 48 134 3 247 1 5 31	68 143 53 3 46 60 1 3 115 0 3 11 505	0.48 0.54 0.47 0.42 0.94 0.44 0.40 0.46 0.11 0.36 0.50	16.96 35.63 27.91 91.30 28.93 38.27 0.25 3.23 29.35
ANGOLA ETHIOPIA GHANA KENYA MALAWI MOZAMBIQUE NIGERIA SOUTH AFRICA TANZANIA UGANDA CONGO, DR ZAMBIA ZIMBABWE S. Africa	3 69 15 21 134 133 253 9 315 74 122 202 1,371	302 560 370 181 240 170 202 1,195 217 373 325 180 249	1 39 6 4 32 23 51 10 68 28 40 36 341	0 19 1 1 22 26 22 9 87 21 2 39 3	13 0 1 17 8	1 51 1 4 3 25 20 39 1 8 2 3 3	0 0 4 29 29 31 7 53 32 40 20 <b>246</b>	0 19 1 1 23 20 18 9 64 16 2 37 17	0.33 0.36 0.26 0.17 0.72 0.68 0.32 0.35 0.69 0.50 0.27 0.91 0.72	0.48 0.36 1.11 0.17 7.61 0.71 0.48 1.63 30.09 0.27 5.93 1.29
KAZAKHSTAN KYRGYZSTAN TAJIKISTAN TURKMENISTAN UZBEKISTAN C. Asia	110 14 165 545 1,250 <b>2,084</b>	559 810 485 536 631 <b>592</b>	62 12 80 292 789 <b>1,234</b>	12 4 27 150 221 414	0 4	12 1 9 140 327 <b>490</b>	50 14 71 178 445 <b>758</b>	12 4 27 123 238 <b>405</b>	0.20 0.27 0.34 0.39 0.31 <b>1.50</b>	1.03 4.19 2.88 0.88 0.73 <b>0.83</b>



#### 2016/17 SUPPLY & USE OF COTTON BY COUNTRY (cont'd) **April 3, 2017**

	AREA	YIELD	PROD	BEG STKS	IMPORTS	CONS	EXPORTS	END STKS	S/U *	S/MU **
	000 Ha	Kgs/Ha			000 Metr				Ratio	Ratio
AUSTRIA				0	4	3	1	0	0.12	0.15
AZERBAIJAN	42	756	32	6		15	10	13	0.53	0.88
BELARUS				4	11	11		4	0.34	0.34
BELGIUM		001	_	2	10	7	4	2	0.17	0.27
BULGARIA CZECH REP.	1	324	0	1 0	5 3	5 3	0	1 0	0.18 0.13	0.19 0.13
DENMARK				U	0	0		U	0.13	0.13
ESTONIA					U	U				
FINLAND										
FRANCE				2	13	10	3	2	0.14	0.19
GERMANY	244	1 000	040	9	44 5	38	6 108	9	0.21	0.24
GREECE HUNGARY	211	1,009	213	44 0	5 1	20	198 1	44 0	0.20 0.03	2.18
IRELAND				0	0	0	ı	0	0.03	0.09
ITALY				7	39	36	3	7	0.17	0.18
LATVIA				0	0	0	Õ	0	0.03	0.04
LITHUANIA MOLDOVA				0	=	-		0	0.01	A 5 ·
MOLDOVA NETHERI ANDS				1 0	2 4	2 4		1 0	0.34	0.34
NETHERLANDS NORWAY				U	4	4		U	0.10	
POLAND				0	3	3		0	0.12	0.12
PORTUGAL				7	38	37	0	7	0.19	0.19
ROMANIA				0	0	0		0	0.09	0.09
RUSSIA SLOVAK BED	1	520	1	13	62	62	0	13	0.21	0.21
SLOVAK REP. SPAIN	61	828	50	10	3	5	48	10	0.19	2.04
SPAIN SWEDEN	וט	o∠ŏ	00	10 0	0	5	40	10 0	0.19 0.74	0.74
SWITZERLAND				0	3	3	0	0	0.10	0.10
UKRAINE				0	2	2	•	0	0.25	0.25
UNITED KINGDOM				0	0	0		0	0.14	0.14
FORMER YUGOSLAVIA	040	000		1	7	7	^ <del></del> -	1	0.19	0.19
Europe Including EU-28	318 273	933 966	296 264	110 83	262 174	277 173	275 264	117 83	0.21 0.19	0.42 0.48
_										
CHINA TAIWAN	2,846	1,665	4,737	11,160 41	983 132	7,591 132	21	9,269 41	1.22 0.31	1.22 0.31
HONG KONG				33	0	132	1	33	41.48	0.31
Sub total	2,846	1,665	4,737	11,234	1,116	7,723	22	9,343	41.40 1.21	1.21
	•	•	•	•		•				
AUSTRALIA	557	1,827	1,019	185	0	7	800	397	0.49	59.29
INDONESIA	8	615	5	96 16	685	664		122	0.18	0.18
JAPAN KOREA, D.R.				16 1	65 5	65 5		16 1	0.24 0.24	0.24 0.24
KOREA, D.R. KOREA, REP.				54	229	229	1	53	0.24	0.24
MALAYSIA				30	92	62	15	44	0.56	0.23
PHILIPPINES	0	567	0	3	10	10		3	0.28	0.28
SINGAPORE	_			0	7	000	7	0	0.05	o
THAILAND	2 5	517 460	1	46 151	268 1 171	269 1 137		46 186	0.17	0.17
VIETNAM E. Asia	5 <b>591</b>	460 <b>1,749</b>	2 <b>1,034</b>	151 <b>583</b>	1,171 <b>2,532</b>	1,137 <b>2,456</b>	823	186 <b>869</b>	0.16 <b>0.26</b>	0.16 <b>0.35</b>
AFGHANISTAN	40	387	16	5		4	10	7	0.48	1.56
BANGLADESH	40	708	28	372	1,430	1,403	10	426	0.48	0.30
INDIA	10,500	553	5,803	1,966	323	5,119	961	2,012	0.33	0.39
MYANMAR	244	634	155	104	10	207		62	0.30	0.30
PAKISTAN	2,468	681	1,680	547	582	2,233	27	549	0.24	0.25
SRI LANKA S. Asia	13,295	578	7,683	0 <b>2,994</b>	2 <b>2,347</b>	2 <b>8,971</b>	997	0 <b>3,057</b>	0.11 <b>0.31</b>	0.11 <b>0.34</b>
				-		-	331			
IRAN	70 13	824 361	58 5	30	52 4	110		30	0.27	0.27
IRAQ ISRAEL	13 8	361 1,761	5 14	2 2	4	9	14	2 2	0.21 0.13	0.21
SYRIA	8 35	983	35	2 22		24	22	11	0.13	0.45
TURKEY	415	1,552	644	826	831	1,450	88	763	0.50	0.53
Sub total	544	1,390	756	886	898	1,605	124	810	0.47	0.50
WORLD TOTAL	29,277	778	22,783	19,174	7,848	24,100	7,848	17,849	0.74	0.74
*/ Ending stocks divided by con	scumption plus	e evnorte				Subtotale a	and total include			

<sup>\*/</sup> Ending stocks divided by consumption plus exports.
\*\*/ Ending stocks divided by consumption.

Subtotals and total include countries not shown.



#### 2017/18 SUPPLY AND USE OF COTTON BY COUNTRY April 3, 2017

	AREA	YIELD	PROD	BEG STKS	IMPORTS	CONS	<b>EXPORTS</b>	END STKS	S/U *	S/MU **
	000 Ha	Kgs/Ha			000 Met	ric Tons			Ratio	Ratio
CANADA CUBA DOM. REP. MEXICO USA N. America	98 3,986 <b>4,093</b>	269 1,559 938 <b>952</b>	1 153 3,740 <b>3,895</b>	0 1 161 980 <b>1,142</b>	0 2 1 291 2 <b>296</b>	0 3 1 418 747 <b>1,171</b>	28 2,883 <b>2,911</b>	0 1 0 158 1,092 <b>1,251</b>	0.12 0.19 0.47 0.35 0.30 <b>0.31</b>	0.12 0.19 0.47 0.38 1.46 <b>1.07</b>
EL SALVADOR GUATEMALA HONDURAS C. America	0 <b>2</b>	318 <b>512</b>	0 1	9 7 0 <b>16</b>	35 24 <b>58</b>	35 24 0 <b>59</b>	0	9 7 0 <b>16</b>	0.27 0.29 <b>0.27</b>	0.27 0.29 <b>0.27</b>
ARGENTINA BOLIVIA BRAZIL CHILE COLOMBIA ECUADOR PARAGUAY PERU URUGUAY VENEZUELA S. America	297 4 907 25 1 10 26 14 1,286	522 639 1,504 816 439 413 814 390 1,225	155 3 1,365 20 1 4 22 6 1,575	271 2 953 0 14 3 4 16 0 3	3 1 44 0 36 10 3 40 0 5	141 3 697 0 56 10 3 61 0 11	45 0 706 4 1	243 2 959 0 14 3 4 16 0 3 1,243	1.30 0.50 0.68 0.12 0.25 0.31 0.52 0.26 0.06 0.30	1.72 0.53 1.38 0.12 0.25 0.31 1.29 0.27 0.06 0.30 1.27
ALGERIA EGYPT MOROCCO SUDAN TUNISIA N. Africa	110 50 <b>161</b>	684 487 <b>622</b>	75 25 <b>100</b>	1 67 4 13 3 87	2 108 15 12 137	2 145 15 18 12 <b>193</b>	38 7 44	1 67 4 13 3 87	0.23 0.37 0.24 0.52 0.22 <b>0.37</b>	0.23 0.46 0.24 0.71 0.22 <b>0.45</b>
BENIN BURKINA FASO CAMEROON CENT. AFR. REP. CHAD COTE D'IVOIRE GUINEA MADAGASCAR MALI NIGER SENEGAL TOGO F. Africa	403 763 235 33 283 362 12 689 5 21 140 2,945	373 405 477 219 206 431 273 392 447 330 290 379	150 309 112 7 58 156 3 270 2 7 41 1,116	68 143 53 3 46 60 1 3 115 0 3 11 505		4 4 2 1 2 3 1 1 1	147 309 107 7 69 143 3 260 1 6 36 1,087	68 139 56 3 34 70 1 3 121 0 3 16 516	0.45 0.45 0.51 0.50 0.48 0.40 0.46 0.11 0.50 0.46 0.47	16.93 34.79 29.50 68.78 34.05 40.49 0.25 4.06 30.03
ANGOLA ETHIOPIA GHANA KENYA MALAWI MOZAMBIQUE NIGERIA SOUTH AFRICA TANZANIA UGANDA CONGO, DR ZAMBIA ZIMBABWE S. Africa	3 71 15 20 132 130 261 9 309 71 119 198 1,359	301 498 372 183 252 162 204 1,195 218 314 337 175 244	1 35 6 4 33 21 53 10 67 22 40 35 332	0 19 1 1 23 20 18 9 64 16 2 37 17 233	18 2 1 17 7	1 53 1 4 3 24 20 40 1 7 2 3	0 0 4 1 33 26 28 7 35 26 40 33 235	0 19 1 2 20 15 20 9 56 12 2 36 16 213	0.33 0.35 0.25 0.30 0.54 0.56 0.38 0.35 0.75 0.45 0.30 0.88 0.43	0.48 0.35 1.11 0.36 6.54 0.84 0.47 1.40 21.96 0.30 5.52 1.18
KAZAKHSTAN KYRGYZSTAN TAJIKISTAN TURKMENISTAN UZBEKISTAN C. Asia	116 14 168 545 1,206 <b>2,049</b>	559 810 538 552 638 <b>604</b>	65 11 91 301 770 <b>1,237</b>	12 4 27 123 238 <b>405</b>	0 3 1 4	13 1 10 140 331 <b>495</b>	52 13 80 161 449 <b>755</b>	12 4 27 123 229 <b>396</b>	0.19 0.28 0.30 0.41 0.29 1.48	0.93 4.19 2.72 0.88 0.69 <b>0.80</b>



#### 2017/18 SUPPLY & USE OF COTTON BY COUNTRY (cont'd) April 3, 2017

AUSTRIA AUSTRI		AREA	YIELD	PROD	BEG STKS		CONS	EXPORTS	END STKS	S/U *	S/MU **
AZERBALIAN  AZERBALIAN  BELGRIM  BELGRIM  BELGRIM  BELGRIM  BELGRIM  1 324 0 1 5 5 5 0 1 1 0.80 0.00 0.00 0.00 0.00 0.00 0.0		000 Ha	Kgs/Ha			000 Metr	ic Tons			Ratio	Ratio
BELARUS BELGIUM  1 324 0 11 55 5 0 1 0.18 0.09 BULGARIA  1 324 0 1 1 5 5 5 0 1 0.18 0.09 DEMMARK  CZECH REP.  0 0 0 2 2 2 0 0 0 10 0.09 DEMMARK  FRANCE  GERMANY  FRANCE  GERMANY  GRECCE  2 2 1.028 228 44 5 20 20 209 48 0.21 2 CHINGARY  INLINGARY  RELIAND  TITLLY  MOLIDOVA  NETHERLAND  TITLLY  NORWAY  POLAND  PORTUGAL  TO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						3					0.16
BELGIMM    1   324   0   1   5   5   5   0   1   0   1   0   0   0   0   0   0		42	760	32		4.4		16			0.84
BULGARIA								4			0.34 0.28
CZECH REP.  DEMMARK ESTONIA FINLAND FRANCE STONIA FINLAND STONIA FRANCE STONIA FINLAND STONIA FRANCE STONIA FINLAND STONIA FRANCE STONIA FINLAND STONIA		1	324	0							0.28
ESTONIA FINIAND FRANCE GERMANY GREECE 1,028 1,028 228 44 5 20 209 48 0,23 0,03 0,000 FRELAND FRANCE GERMANY GREECE 1,028 1,028 228 44 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		•	<b>~</b>	•				· ·			0.09
FINLAND FRANCE GERMANY GRECCE G						0	0			0.12	
FRANCE GERMANY 9 22 1.028 228 44 5 20 209 48 0.21 2.   GREECCE 222 1.028 228 44 5 20 209 48 0.21 2.   GREEAND 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
GERECEC 222 1,028 228 44 55 20 209 48 021 2.   FRELAND 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					2	11	0	2	2	0.16	0.20
GREECE   222   1,028   228   44   5   20   209   48   0.21   2   2   1,028   238   44   5   20   209   48   0.21   2   2   1,028   238   238   238   238   3   7   0.17   0.0   1,00   1											0.20
IRELAND		222	1,028	228							2.43
ITALY						_	_				
LATIVIA LITHUANICA    0								0			0.10
ILTHUANIA											0.19 0.04
MOLDOVA NETHERLANDS NORWAY POLAND PORTUGAL ROMANIA ROMANIA ROMANIA RUSSIA 1 520 1 133 62 62 0 0 14 0.22 0. RUSSIA 1 520 1 133 62 62 0 0 14 0.22 0. RUSSIA RUSSIA 1 520 1 133 62 62 0 0 14 0.22 0. RUSSIA RUSS						O	U	U		0.03	0.04
NORWAY   POLLAND						2	2			0.34	0.34
POLAND PORTUGAL PORTUGAL ROMANIA RUSSIA 1 520 1 133 62 62 0 144 0.22 0.  SLOVAK REP. SWITZERLAND SWITZERLAND UKRAINE USHIA 0 0 0 0 0 0 0 0 0 0.22 2.  SWITZERLAND UKRAINE USHIA 0 0 0 0 0 0 0 0 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0 0.05 0 0 0 0					0	4	4		0	0.11	
PORTUGAL					^	•	^		^	0.40	0.40
ROMANIA RUSSIA 1 520 1 133 62 62 0 14 0.22 0.  SLOVAK REP. SPAIN 64 865 55 10 3 5 51 12 0.22 2.  SWITZERLAND UKRAINE UNITED KINGDOM FORMER YUGOSLAVIA Europe 1331 956 316 117 29 22 0 0.22 0.0 0.26 0.0  CHINA 2,931 1,640 4,806 9,269 1,088 7,667 22 7,475 0.97 0.0  CHINA 2,931 1,640 4,806 9,343 1,216 7,795 22 7,548 0.97 0.0  AUSTRALIA 50 1,837 973 397 0 6 810 555 1 0.03 3.09 0.0  AUSTRALIA 50 1,837 973 397 0 6 810 555 1 10 0.32 0.0  AUSTRALIA 50 1,837 973 397 0 6 8 810 84 0.00  AUSTRALIA 50 567 0 3 10 5 5 5 1 1 0.24 0.0  KOREA, DR.  KOREA, DR.  KOREA, DR.  KOREA, DR.  STANLIAND 5 5 5 1 1 0.24 0.0  SINGAPORE 5 1 1,759 987 669 1,247 286 8 0.20  AUSTRALIAND 5 1 5 5 5 1 0.0  AUSTRALIAND 5 1 5 5 5 1 0.0  AUSTRALIA 5 0 1,837 973 397 0 6 8 810 84 84 0.0  AUSTRALIA 5 0 567 0 3 10 5 5 5 1 0.0  CHINALAYSIA 6 1 5 5 5 1 0.0  CHINALAYSIA 7 1 5 5 5 1 0.0  AUALAYSIA 8 615 5 7 0 3 10 10 10 3 10.0  FORMER YUGOSLAVIA 8 6 8 6 8 44 0.47 0.0  PHILIPPINES 9 5 5 1 0.0  AUSTRALIA 5 0 567 0 3 10 10 10 3 0.0  FORMER YUGOSLAVIA 8 6 8 0.0  AUGUSTRALIA 8 6 8 6 8 8 44 0.47 0.0  PHILIPPINES 9 1 5 6 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 5 5 1 0.0  AUGUSTRALIA 9 1 1 5 6 5 1 1 0.24 0.0  AUGUSTRALIA 9 1 1 5 6 5 1 1 0.24 0.0  AUGUSTRALIA 9 1 1 5 6 5 1 1 0.04 0.0  AUGUSTRALIA 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											0.12 0.15
RUSSIA 1 520 1 133 62 62 0 14 0.22 0. SLOVAK REP. SPAIN 64 865 55 10 3 3 5 51 12 0.22 2. SWEDEN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											0.13
SPAIN   64   865   55   10   3   5   51   12   0.22   2   2   2   2   2   2   2   2   2	RUSSIA	1	520	1				0			0.22
SWEDEN   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							_				
SWITZERLAND		64	865	55				51		0.22	2.55
UKRAINE								0		0.10	0.11
UNITED KINGDOM FORMER YUGOSLAVIA								U			0.11
Europe Including EU-28 287 990 284 83 161 166 274 88 0.20 0.00 174 184 185 0.20 0.00 175 0.00 0.00 175 0.00 0.00 175 0.00 0.00 0.00 175 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.											0.13
Including EU-28   287   990   284   83   161   166   274   88   0.20   0.0											0.19
CHINA  CH											0.45
TAIWAN HONG KONG Sub total 2,931 1,640 4,806 9,343 1,216 7,795 22 7,548 0.97 0.  AUSTRALIA 530 1,837 973 397 0 6 8 810 553 0.68 86.	including EU-28	287	990	284	83	161	166	2/4	88	0.20	0.53
HONG KONG		2,931	1,640	4,806	,			22	,		0.97
Sub total   2,931							128	4			0.32
AUSTRALIA 530 1,837 973 397 0 6 810 553 0.68 86. INDONESIA 8 615 5 122 661 670 1118 0.18 0. JAPAN 16 63 65 14 0.22 0. KOREA, D.R. 1 5 5 5 11 0.24 0. KOREA, REP. 53 236 236 533 0.22 0. MALAYSIA 44 93 86 8 44 0.47 0. PHILIPPINES 0 567 0 3 10 10 3 3 0.30 0. SINGAPORE 0 0 567 0 0 6 6 6 0 0.05 THAILAND 2 517 1 46 263 264 46 0.17 0. VIETNAM 5 465 2 186 1,240 1,217 212 0.17 0. VIETNAM 5 465 2 186 1,240 1,217 212 0.17 0. E. Asia 561 1,759 987 869 2,578 2,565 824 1,046 0.31 0. AFGHANISTAN 38 387 15 7 4 12 5 0.31 1. BANGLADESH 41 712 29 426 1,473 1,474 455 0.31 0. INDIA 11,235 528 5,935 2,012 290 5,170 987 2,080 0.34 0. MYANMAR 249 634 158 62 57 207 69 0.34 0. PAKISTAN 2,542 735 1,869 549 546 2,244 27 693 0.31 0. SIRAN 72 737 53 30 60 113 30 0.26 0. IRAN 72 737 53 30 60 113 30 0.26 0. IRAQ 10 361 3 2 5 5 8 1,892 15 2 15 2 0.12 0.17 0. SYRIAL 88 1,892 15 2 15 2 15 2 0.12 0.12 0.13 0.14 0.14 0.15 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15		0.004	4.040	4.000			7 705				0.07
INDONESIA	Sub total	2,931	1,640	4,806	9,343	1,216	7,795	22	7,548	0.97	0.97
JAPAN KOREA, D.R. KOREA, D.R. KOREA, REP. MALAYSIA MALAYSIA PHILIPPINES  0 567 0 3 10 10 0 3 0.30 0 0.55  THAILAND 22 517 1 46 263 264 46 0.17 0.27  VIETNAM 5 465 2 186 1,240 1,217 212 0.17  E. Asia 561 1,759 987 869 2,578 2,565 824 1,046 0,31 0.31 0.31 0.32 AFGHANISTAN 38 387 15 7 4 12 5 0,31 0.31 0.31 0.31 AFGHANISTAN 38 387 15 7 4 12 5 0,31 0.31 0.31 INDIA 11,235 528 5,935 2,012 290 5,170 987 2,080 0,34 0. MYANMAR 249 634 158 62 57 207 69 0,34 0. MYANMAR 38 38 38 11 11 22 4 9 0,34 0. MYANMAR 30 0,26 0. MYANMAR 249 15 2 15 2 0,24 0. MYANMAR 249 15 2 15 2 0,24 0. MYANMAR 249 15 2 4 9 0,34 0. MYANMAR 249 15 2 4 9 0,34 0. MYANMAR 249 0,34	AUSTRALIA	530	1,837	973	397	0	6	810	553	0.68	86.99
KOREA, D.R.         1         5         5         1         0.24         0.           KOREA, REP.         53         236         236         53         0.22         0.           MALAYSIA         44         93         86         8         44         0.47         0.           PHILIPPINES         0         567         0         3         10         10         3         0.30         0.           SINGAPORE         0         6         6         0         0.05         6         0         0.05         1         0.05         0.05         0.05         0.05         0.05         0.07         0.07         0.06         0.05		8	615	5							0.18
KOREA, REP.         53         236         236         53         0.22         0.           MALAYSIA         44         93         86         8         44         0.47         0.           PHILIPPINES         0         567         0         3         10         10         3         0.30         0.           SINGAPORE         0         6         6         0         0.05         0.05         0.         0.05         0.05         0.         0.05         <											0.22
MALAYŚIA         44         93         86         8         44         0.47         0.           PHILIPPINES         0         567         0         3         10         10         3         0.30         0.           SINGAPORE         0         6         6         0         0.05											0.24 0.22
PHILIPPINES								8			0.22
THAILAND  2 517 1 46 263 264 46 0.17 0. VIETNAM 5 465 2 186 1,240 1,217 212 0.17 0.  E. Asia 561 1,759 987 869 2,578 2,565 824 1,046 0.31 0.  AFGHANISTAN 38 387 15 7 4 12 5 0.31 1.  BANGLADESH 41 712 29 426 1,473 1,474 455 0.31 0.  INDIA 11,235 528 5,935 2,012 290 5,170 987 2,080 0.34 0.  MYANMAR 249 634 158 62 57 207 69 0.34 0.  PAKISTAN 2,542 735 1,869 549 546 2,244 27 693 0.31 0.  SRI LANKA 0 2 2 2 0 0.11 0.  S. Asia 14,108 568 8,008 3,057 2,368 9,103 1,026 3,303 0.33 0.  IRAN 72 737 53 30 60 113 30 0.26 0.  IRAQ 10 361 3 2 5 5 8 2 0.12 2 0.12  SYRIA 25 954 23 11 22 4 9 0.34 0.  TURKEY 427 1,529 654 763 872 1,436 90 763 0.50 0.  Sub total 545 1,376 750 810 946 1,590 108 808 0.48 0.		0	567	0				· ·			0.30
VIETNAM         5         465         2         186         1,240         1,217         212         0.17         0.           E. Asia         561         1,759         987         869         2,578         2,565         824         1,046         0.31         0.           AFGHANISTAN         38         387         15         7         4         12         5         0.31         1.           BANGLADESH         41         712         29         426         1,473         1,474         455         0.31         0.           INDIA         11,235         528         5,935         2,012         290         5,170         987         2,080         0.34         0.           MYANMAR         249         634         158         62         57         207         69         0.34         0.           PAKISTAN         2,542         735         1,869         549         546         2,244         27         693         0.31         0.           SRI LANKA         0         2         2         0         0.11         0.           S. Asia         14,108         568         8,008         3,057         2,368         9,103<								6			
E. Asia 561 1,759 987 869 2,578 2,565 824 1,046 0.31 0.  AFGHANISTAN 38 387 15 7 4 12 5 0.31 1.  BANGLADESH 41 712 29 426 1,473 1,474 455 0.31 0.  INDIA 11,235 528 5,935 2,012 290 5,170 987 2,080 0.34 0.  MYANMAR 249 634 158 62 57 207 69 0.34 0.  PAKISTAN 2,542 735 1,869 549 546 2,244 27 693 0.31 0.  SRI LANKA 0 0 2 2 0 0 0.11 0.  S. Asia 14,108 568 8,008 3,057 2,368 9,103 1,026 3,303 0.33 0.  IRAN 72 737 53 30 60 113 30 0.26 0.  IRAQ 10 361 3 2 5 8 2 2 0.24 0.  ISRAEL 8 1,892 15 2 15 2 15 2 0.12  SYRIA 25 954 23 11 22 4 9 0.34 0.  TURKEY 427 1,529 654 763 872 1,436 90 763 0.50 0.  Sub total 545 1,376 750 810 946 1,590 108 808 0.48 0.											0.17
AFGHANISTAN  38 387 15 7 4 12 5 0.31 1.  BANGLADESH 41 712 29 426 1,473 1,474 455 0.31 0.  INDIA 11,235 528 5,935 2,012 290 5,170 987 2,080 0.34 0.  MYANMAR 249 634 158 62 57 207 69 0.34 0.  PAKISTAN 2,542 735 1,869 549 546 2,244 27 693 0.31 0.  SRI LANKA 0 2 2 2 0 0.11 0.  S. Asia 14,108 568 8,008 3,057 2,368 9,103 1,026 3,303 0.33 0.  IRAN 72 737 53 30 60 113 30 0.26 0.  IRAQ 10 361 3 2 5 8 2 2 0.24 0.  ISRAEL 8 1,892 15 2 15 2 15 2 0.12  SYRIA 25 954 23 11 22 4 9 0.34 0.  TURKEY 427 1,529 654 763 872 1,436 90 763 0.50 0.  Sub total 545 1,376 750 810 946 1,590 108 808 0.48 0.								824			0.17 <b>0.41</b>
BANGLADESH       41       712       29       426       1,473       1,474       455       0.31       0.         INDIA       11,235       528       5,935       2,012       290       5,170       987       2,080       0.34       0.         MYANMAR       249       634       158       62       57       207       69       0.34       0.         PAKISTAN       2,542       735       1,869       549       546       2,244       27       693       0.31       0.         SRI LANKA       0       2       2       0       0.11       0.         S. Asia       14,108       568       8,008       3,057       2,368       9,103       1,026       3,303       0.33       0.         IRAN       72       737       53       30       60       113       30       0.26       0.         IRAQ       10       361       3       2       5       8       2       0.24       0.         ISRAEL       8       1,892       15       2       15       2       15       2       0.12         SYRIA       25       954       23       11       22	L. Asia	301	1,705	301	003	2,370	2,505	024	1,040	0.31	0.41
INDIA								12			1.20
MYANMAR         249         634         158         62         57         207         69         0.34         0.           PAKISTAN         2,542         735         1,869         549         546         2,244         27         693         0.31         0.           SRI LANKA         0         2         2         0         0.11         0.           S. Asia         14,108         568         8,008         3,057         2,368         9,103         1,026         3,303         0.33         0.           IRAN         72         737         53         30         60         113         30         0.26         0.           IRAQ         10         361         3         2         5         8         2         0.24         0.           ISRAEL         8         1,892         15         2         15         2         0.12           SYRIA         25         954         23         11         22         4         9         0.34         0.           TURKEY         427         1,529         654         763         872         1,436         90         763         0.50         0.								007			0.31
PAKISTAN       2,542       735       1,869       549       546       2,244       27       693       0.31       0.         SRI LANKA       0       2       2       2       0       0.11       0.         S. Asia       14,108       568       8,008       3,057       2,368       9,103       1,026       3,303       0.33       0.         IRAN       72       737       53       30       60       113       30       0.26       0.         IRAQ       10       361       3       2       5       8       2       0.24       0.         ISRAEL       8       1,892       15       2       15       2       0.12         SYRIA       25       954       23       11       22       4       9       0.34       0.         TURKEY       427       1,529       654       763       872       1,436       90       763       0.50       0.         Sub total       545       1,376       750       810       946       1,590       108       808       0.48       0.								987			0.40 0.34
SRI LANKA       0       2       2       0       0.11       0.         S. Asia       14,108       568       8,008       3,057       2,368       9,103       1,026       3,303       0.33       0.         IRAN       72       737       53       30       60       113       30       0.26       0.         IRAQ       10       361       3       2       5       8       2       0.24       0.         ISRAEL       8       1,892       15       2       15       2       0.12         SYRIA       25       954       23       11       22       4       9       0.34       0.         TURKEY       427       1,529       654       763       872       1,436       90       763       0.50       0.         Sub total       545       1,376       750       810       946       1,590       108       808       0.48       0.								27			0.34
S. Asia       14,108       568       8,008       3,057       2,368       9,103       1,026       3,303       0.33       0.31         IRAN       72       737       53       30       60       113       30       0.26       0.         IRAQ       10       361       3       2       5       8       2       0.24       0.         ISRAEL       8       1,892       15       2       15       2       0.12         SYRIA       25       954       23       11       22       4       9       0.34       0.         TURKEY       427       1,529       654       763       872       1,436       90       763       0.50       0.         Sub total       545       1,376       750       810       946       1,590       108       808       0.48       0.		_,5	, 00	.,000							0.11
IRAQ     10     361     3     2     5     8     2     0.24     0.       ISRAEL     8     1,892     15     2     15     2     0.12       SYRIA     25     954     23     11     22     4     9     0.34     0.       TURKEY     427     1,529     654     763     872     1,436     90     763     0.50     0.       Sub total     545     1,376     750     810     946     1,590     108     808     0.48     0.		14,108	568	8,008	3,057	2,368	9,103	1,026	3,303		0.36
IRAQ     10     361     3     2     5     8     2     0.24     0.       ISRAEL     8     1,892     15     2     15     2     0.12       SYRIA     25     954     23     11     22     4     9     0.34     0.       TURKEY     427     1,529     654     763     872     1,436     90     763     0.50     0.       Sub total     545     1,376     750     810     946     1,590     108     808     0.48     0.	IRAN	72	737	53	30	60	113		30	0.26	0.26
SYRIA       25       954       23       11       22       4       9       0.34       0.         TURKEY       427       1,529       654       763       872       1,436       90       763       0.50       0.         Sub total       545       1,376       750       810       946       1,590       108       808       0.48       0.	IRAQ	10	361	3	2				2	0.24	0.24
TURKEY 427 1,529 654 763 872 1,436 90 763 0.50 0. Sub total 545 1,376 750 810 946 1,590 108 808 0.48 0.							_				
Sub total         545         1,376         750         810         946         1,590         108         808         0.48         0.						070					0.39
											0.53 <b>0.51</b>
WORLD TOTAL 30,370 761 23,123 17,849 8,060 24,422 8,060 16,550 0.68 0.		343	1,370	7 30	010	340	1,000	100	000	V. <del>4</del> 0	0.51
*/ Ending stocks divided by consumption plus exports. Subtotals and total include countries not shown.				23,123	17,849	8,060					0.68

<sup>\*/</sup> Ending stocks divided by consumption plus exports.
\*\*/ Ending stocks divided by consumption.

Subtotals and total include countries not shown.

#### 76<sup>th</sup> Plenary Meeting of the International Cotton Advisory Committee

Tashkent (Uzbekistan) October 22-27, 2017

(International Hotel Tashkent)

### "Cotton in the Era of Globalization and Technological Progress"

#### **Topics during Open Sessions will include:**

- World Cotton Market Report
- Exploiting Genetic Diversity, Gene-pools and Cotton Genomics: Where Are We and What to Expect?
- Trends in the Textile Industry and Inter-fiber Competition
- Textile Innovations: Nanotechnologies for Current and Future Fabrics
- Promotion of Cotton
- Technical Seminar: Opportunities and Challenges for Technology Transfer in Cotton
- Impacts on Quality and Volume of Long-Term Storage of Cotton Products
- Modern Cotton Ginning Technology
- Effects of GMO and Non-GMO Cotton Production

For more information about the meeting and registration, please visit https://www.icac.org/mtqs/Plenary/76th

Email: plenaryinformation@icac.org