

DOMESTIC AND WORLD COTTON REVIEW



DOMESTIC COTTON CROP SCENARIO

Cotton crop has almost terminated in Sindh, however arrivals are still being reported in Sukkur & Ghotki districts. Picking was delayed in Punjab during last two weeks of October & first week of November, 2017 however, the pace has accelerated and frequency of arrivals has increased. About 80% of the arrivals have been reported in ginneries and 20% of crop is about to arrive in the ginneries.

**Table-1: TARGETS FOR AREA AND PRODUCTION OF COTTON CROP 2017-18**

Sr. No.	Province	Area(million hectares)	Production (million bales)
1.	Punjab	2.42	10.00
2.	Sindh	0.65	4.00
3.	Khyber Pakhtunkhwa	0.001	0.002
4.	Baluchistan	0.038	0.038
<b>Total of Pakistan</b>		<b>3.11</b>	<b>14.04</b>

Source: Federal Committee on Cotton (FCC) meeting held on 25.3.2017.

**Table-2: SOWING POSITION OF COTTON CROP AS ON 07.7.2017**

Province	Target 2017-18	Area Sown		% Change Over	
		2017-18	2016-17	Target	Last Year
Punjab	2.42	2.145	1.780	88.6%	+20.5
Sindh	0.65	0.608	0.636	94.0%	-4.4
Pakistan	3.11	<b>2.753</b>	<b>2.416</b>	<b>88.52%</b>	<b>+13.95</b>

Source: Provincial Crop Reporting Departments.

## COTTON REVIEW

**Table-3: FIRST & SECOND ESTIMATE OF COTTON CROP 2017-18**

(Bales = 170 Kg)

Province	Expected Production (million bales)	
	First Cotton Crop Assessment (10-8-2017)	2 <sup>nd</sup> Cotton Crop Assessment (02-11-2017)
Punjab	8.80	8.80
Sindh	3.70	3.70
Khyber Pakhtunkhwa & Balochistan	0.10	0.10
<b>Pakistan</b>	<b>12.60</b>	<b>12.60</b>

Source: Cotton Crop Assessment Committee Meeting held on 10-8-2017 & 02-11-2017

**Table-4: SEED COTTON ARRIVALS AS ON 01<sup>st</sup> DECEMBER, 2017**

(Qty. in Bales)

Heads	2017-18			2016-17		
	Punjab	Sindh	Total	Punjab	Sindh	Total
Arrivals	6,107,802	4,024,272	10,132,074	6,158,870	3,619,581	9,778,451
Sales to Exporters	24,450	187,539	211,989	50,500	134,444	184,944
Sales to Textile Mills	4,856,411	3,205,847	8,062,258	4,788,212	2,895,768	7,683,980
Sales to T.C.P	-	-	-	-	-	-
Unsold Stock	796,728	210,263	1,006,991	806,523	225,219	1,031,742
Un-ginned Stock	430,213	420,623	850,836	513,635	364,150	877,785

Source: Pakistan Cotton Ginners Association.

**Table-5: SEED COTTON PRICES (Monthly Averages) 2016-17 & 2017-18**

(Rs. per 40 Kg)

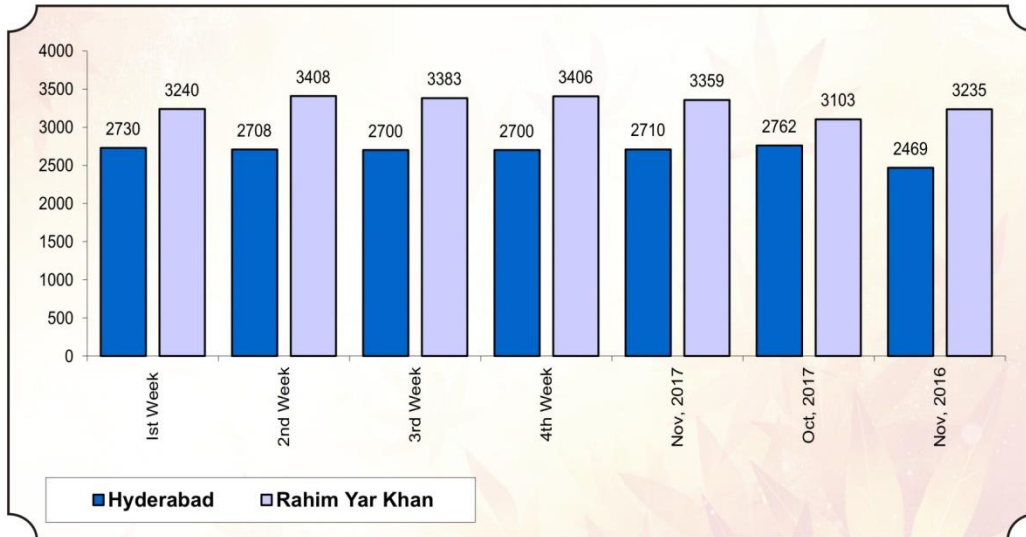
Months	Hyd	M.P. Khas	Khair Pur	Sukr	R.Y. Khan	Bahawal Pur	Vehari	Mian Channu	Sahiwal	Multan	Burewala
June 2017	3154	-	-	-	3358	-	-	-	-	-	-
July 2017	3275	3182	-	-	-	-	-	-	-	-	3400
August 2017	2919	2909	-	-	3077	-	3031	2920	-	-	3034
September 2017	2,754	2,785	-	-	2958	-	<b>3031</b>	2828	-	-	2859
October 2017	2,762	2,849	2,978	3,029	3,103	3,024	3,097	3,021	2,918	2,889	3,069
November 2017	2,710	2,800	3,076	3,186	3,359	3,234	3,222	3,161	2,942	3,017	3,251
Average 2017-18	<b>2929</b>	<b>2905</b>	<b>3,027</b>	<b>3,108</b>	<b>3,171</b>	<b>3,129</b>	<b>3,063</b>	<b>2,983</b>	<b>2,930</b>	<b>2,953</b>	<b>3,123</b>
July 2016	3154	-	-	-	3358	-	-	-	-	-	-
August 2016	3364	3333	-	-	3361	-	-	3262	3270	-	3270
September 2016	2985	2984	-	-	3049	-	-	2902	2961	-	2960
October 2016	2954	2901	3075	3116	3176	3093	-	3054	3069	3090	3135
November 2016	2400	2300	3060	3110	3230	3200	-	3125	3105	3100	3240
December 2016	-	-	3049	3209	3413	3372	-	3313	-	3296	3331
January 2017	-	-	-	-	3526	3476	-	3194	-	3231	3470
February 2017	-	-	-	-	<b>3744</b>	-	-	-	-	-	3553
March 2017	-	-	-	-	<b>3752</b>	-	-	-	-	-	-
Average 2016-17	<b>2926</b>	<b>2880</b>	<b>3061</b>	<b>3145</b>	<b>3406</b>	<b>3285</b>	-	<b>3142</b>	<b>3101</b>	<b>3179</b>	<b>3280</b>

Source: Market Report

## COTTON REVIEW

**Figure -I: SEED COTTON PRICES DURING NOVEMBER, 2017**

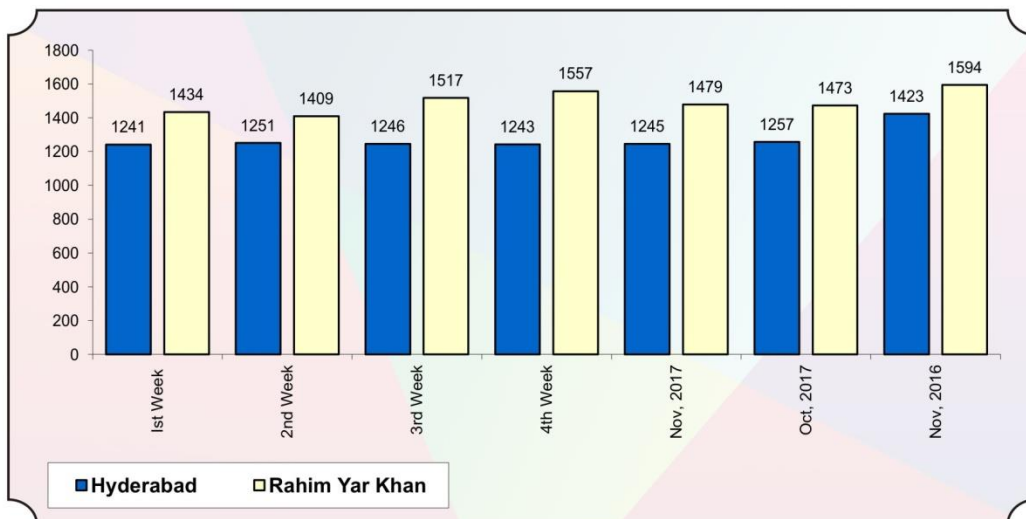
(Rs per 40 kg)



Source: Market Report.

**Figure-II: COTTON SEED PRICES DURING NOVEMBER, 2017**

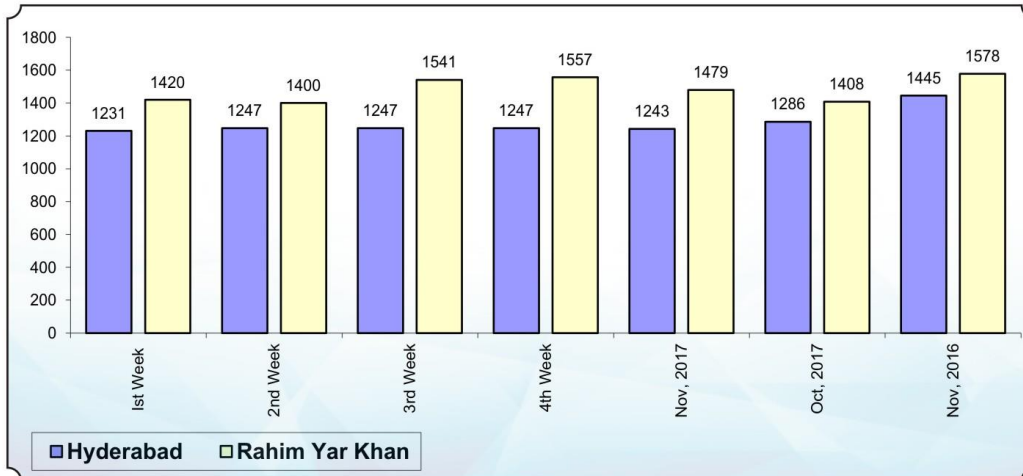
(Rs per 40 kg)



Source: Market Report

Figure-III COTTON SEED CAKE PRICES DURING NOVEMBER, 2017

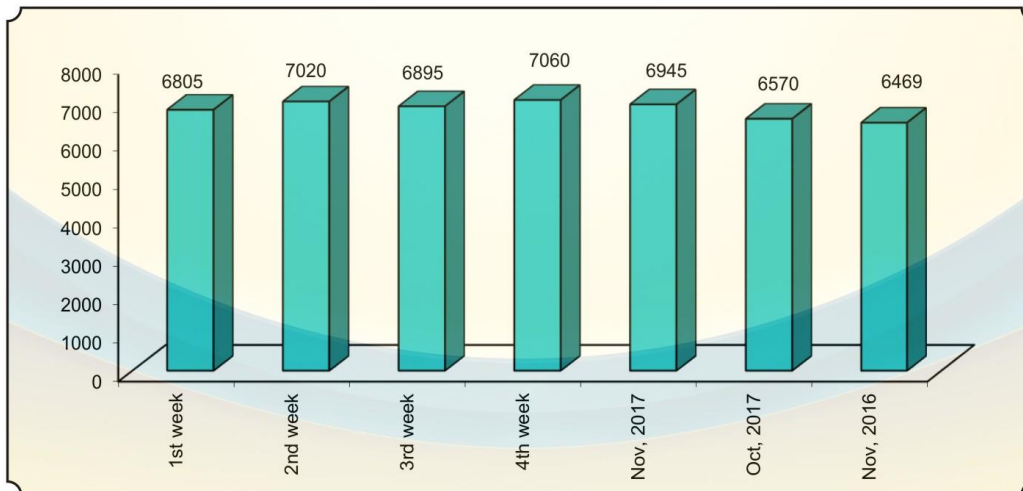
(Rs per 40 kg)



Source: Market Report.

Figure-IV: KCA SPOT RATE (EX-GIN) AT KARACHI DURING NOVEMBER, 2017

(Rs per 40 Kg)



Source: The Karachi Cotton Association

The graph above shows that the prices of raw cotton during the month of November, 2017 increased to Rs. 6,945 per 40 kg as compared to Rs. 6,570 in October, 2017. However, the prices in November, 2016 were recorded lower at Rs. 6,469 per 40 kg. Month-wise details are given in table below:

**Table-6: MONTHLY AVERAGE PRICES OF RAW COTTON DURING 2016-17 & 2015-16**

(Rs. per 40 kg)

Month	2016-17 Ex-Gin Rate	2015-16 Ex-Gin Rate
August,2016	7080	4880
September,2016	6450	4991
October,2016	6410	5582
November,2016	6469	5698
December,2016	6712	5607
January,2017	6872	5758
February,2017	7149	5726
March,2017	7245	5616
April,2017	7216	5785
May,2017	7227	5986
June,2017	7196	5993
July,2017	6653	6558
<b>Average</b>	<b>6890</b>	<b>5682</b>
August2017	6650	7080
September,2017	6468	6450
October,2017	6570	6410
November,2017	6945	6469

Source: Karachi Cotton Association.

**Table 7: COTTON BALANCE SHEET DURING 2015-16, 2016-17 AND 2017-18**

(Bale= 170 kg)

Sr. No.	Position	2015-16		2016-17		2017-18*	
		'000' Bales	'000' M/Tons	'000' Bales	'000' M/Tons	'000' Bales	'000' M/Tons
1.	Carryover	550	93	0	0	169	29
2.	Production	9917	1686	10670	1814	12600	2142
3.	Imports	2453	417	2706	460	1500	255
	<b>Total</b>	<b>12920</b>	<b>2196</b>	<b>13376</b>	<b>2274</b>	<b>14269</b>	<b>2426</b>
4.	Mill Consumptio	12633	2147	13060	2220	13800	2346
5.	Exports	287	49	147	25	300	51
6.	End Season Stocks	0	0	169	29	169	29
	<b>Total</b>	<b>12920</b>	<b>2196</b>	<b>13376</b>	<b>2274</b>	<b>14269</b>	<b>2426</b>

Source: i) Textile Commissioners Organization (Mill Consumption estimated on the basis of previous data ).

ii) Pakistan Bureau of Statistics. (Imports & Exports)

iii) Provincial Agriculture Department. (Production)

Note: Production figure is given in "2<sup>nd</sup>" Cotton Crop Assessment Committee Meeting," for the year 2017-18.

\*Provisional

## COTTON YARN PRICES

The Cotton Yarn prices of 21's count witnessed rising tendency, where as 30's count in November, 2017 remained stable at previous month's level. However, the same counts in the corresponding month of the last year were recorded lower at Rs. 1204 and Rs.1381 per bundle respectively. Details are given as below:

**Table-8: DOMESTIC COTTON YARN PRICES DURING NOVEMBER, 2017**

(Rs. per bundle of 4.54 kg)

Count/ Week	W E E K				November 2017	October 2017	November 2016
	1	11	111	1V			
10/1	933	933	933	933	933	933	872
16/1	1204	1204	1216	1218	1211	1184	1132
21/1	1248	1248	1248	1255	1250	1241	1204
22/1	1265	1265	1265	1265	1265	1265	1202
26/1	1344	1344	1344	1344	1344	1344	1310
28/1	1350	1350	1350	1350	1350	1350	1350
30/1	1413	1413	1413	1413	1413	1413	1381
32/1	1380	1380	1380	1380	1380	1380	1380
40/1	1650	1650	1650	1650	1650	1650	1650
52/1	1700	1700	1700	1700	1700	1700	1700
60/1	1750	1750	1750	1750	1750	1750	1750
70/1	1850	1850	1850	1850	1850	1850	1850
20/2	1348	1348	1348	1348	1348	1336	1282

Source: Pakistan Yarn Merchants Association, Karachi.

**Table-9: EXPORTS OF TEXTILE GROUP COMMODITIES DURING OCTOBER, 2017**

(Value = Rs. In Millions)

Commodities	Unit	October 2017		September 2017		October 2016		% Change Over August 2017		July-October 2017		July-October 2016		% Change	
		Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val
		<b>Raw Cotton</b>	<b>M.T</b>	7,901	1,363	12,500	2,204	6,711	1,209	-36.8	-38.2	25,669	4,483	16,911	3,035
<b>Cotton Yarn</b>	<b>M.T</b>	47,073	12,754	42,724	11,641	39,996	11,907	10.2	9.6	170,649	46,566	147,118	44,026	15.99	5.77
<b>Bed Wear</b>	<b>M.T</b>	30,248	19,809	29,307	19,236	32,337	19,615	3.2	3.0	120,837	79,580	121,896	74,956	-0.87	6.17
<b>Towels</b>	<b>M.T</b>	15,337	7,147	14,368	6,681	16,566	7,305	6.7	7.0	57,835	26,149	58,856	25,992	-1.73	0.60
<b>Cotton Cloth</b>	<b>Th.SQ</b>	155,881	19,641	151,184	18,898	175,950	19,213	3.1	3.9	615,532	75,331	712,332	76,509	-13.59	-1.54
<b>Synthetic Fiber</b>	<b>Th.SQ</b>	11,572	2,731	10,987	2,582	20,047	2,416	5.3	5.8	58,439	10,625	48,092	6,569	21.52	61.74
<b>Knitwear</b>	<b>Th.DoZ</b>	9,890	23,75	9,340	21,948	8,348	20,599	5.9	8.1	37,808	91,969	34,056	82,573	11.02	11.38
<b>Readymade Garments</b>	<b>Th.DoZ</b>	2,864	20,623	2,810	19,952	2,883	18,364	1.9	3.4	11,855	84,651	10,569	73,229	12.17	15.60

Source: Pakistan Bureau of Statistics, Karachi.

The table above shows that the exports of raw cotton witnessed declining tendency but other related produce posted gains during the month of October, 2017. The raw cotton exports decreased to 7,901 metric tons valuing Rs.1,363 million as compared to 12,500 metric tons worth Rs.2,204 million in September, 2017. However, the exports in October, 2016 recorded at 6,711 metric tons amounting to Rs.1,209 million showing decrease of 36.8% in quantity and 38.2% in value over September, 2017.

**Table-10: IMPORTS OF TEXTILE GROUP COMMODITIES DURING OCTOBER, 2017**

(Value = Rs. In Millions)

Commodities	Unit	October 2017		September 2017		October 2016		% Change Over September 2017		July-October 2017		July-October 2016		% Change	
		Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val
Raw Cotton	M.T	10,012	1,850	2,860	435	17,637	3,090	250.07	325.29	30,129	5,540	60,815	10,578	-50.46	-47.63
Synthetic Fiber	M.T	18,395	3,894	21,779	4,314	13,918	3,104	-15.54	-9.74	84,053	18,327	77,589	16,257	8.33	12.73
Synthetic & Artificial Silk Yarn	M.T	27,875	5,799	19,175	4,513	21,880	4,561	45.37	28.50	103,923	22,744	93,965	20,395	10.60	11.52
Worn Clothing	M.T	36,935	1,385	30,230	1,147	32,856	1,222	22.18	20.75	141,209	5,450	132,587	5,392	6.50	1.08
Other Textile Items	-	-	10,822	-	10,015	-	9,585	-	8.06	-	41,927	-	41,047	-	2.14

Source: Pakistan Bureau of Statistics, Karachi

The table above indicates that the imports of raw cotton during October, 2017 posted gains to 10,012 metric tons amounting to Rs.1850 million as compared to 2,860 metric tons valuing Rs.435 million in September,2017. Whereas the imports in October, 2016 recorded at 17,637 metric tons amounting to Rs.3,090 million, showing an increase of 250.07 percent in quantity and 325.29 percent in value over September, 2017.

## ECONOMICS OF COTTON AND COMPETING CROPS

Cotton a kharif crop, competes with rice, sugarcane and other crops for land, water and other farm resources in the area where the cultivation of all other crops is technically feasible. Mainly cotton faces indirect competition from sugarcane, the annual crop which keeps the land throughout the year. The farmer gives priorities and takes decision on the economics of cotton and competing crops on the basis of inputs-outputs prices paid and received. The estimation of the indicators, like gross cost, gross income, gross margin, net income, input-output ratio, etc may provide the useful sights to the growers at farm level. Details are presented in following table.

**Table-11: ECONOMICS OF SEED COTTON AND COMPETING CROPS AT PRICES REALIZED BY THE GROWERS 2015-16 CROP**

S. No.	Previous/ Crops/ Crop Combination	Output Input ratio	Gross Revenue Per		
			Rupee of Purchased inputs cost	Day of Crop Duration	Acre inch of irrigation water used
		Ratio	Rupees	Rupees	
	1	2	3	4	5
<b>PUNJAB</b>					
1.	Seed Cotton	1.03	3.06	239	2602
2.	Basmati Paddy	0.87	1.95	227	704
3.	IRRI Paddy	0.80	1.84	184	533
4.	Cotton + Wheat	1.04	2.98	235	2904
5.	Cotton + Sunflower	1.01	2.75	232	2219
6.	Sugarcane	1.25	3.96	237	1943
<b>SINDH</b>					
1.	Seed Cotton	1.16	3.71	250	3332
2.	IRRI Paddy	1.18	3.29	249	800
3.	Cotton + Wheat	1.12	3.41	238	3338
4.	Cotton + Sunflower	1.08	3.41	239	2509
5.	Sugarcane	1.28	3.89	232	1597

Source: API's Cotton Policy Analysis for 2015-16 Crop.

**Table-12: EXPORT PARITY PRICE OF SEED COTTON ON THE BASIS OF ACTUAL AVERAGE EXPORT PRICE OF PAKISTANI COTTON**

Sr. No.	Item	October, 2017
01.	Actual average export price per 40 Kgs	6900 (Rupees) or 74.13 (US Cents per Lb)
02.	Marketing expenses (export & purchase incidentals, insurance & financial expenses) per 40 kgs	425
03.	Ex-gin price of lint per 40 kgs (item 1-item 2)	6475
04.	Value of 80 Kgs of cotton seed (b)	2946
05.	Ginning charges for 120 Kgs of seed cotton	600
06.	Value of 120 Kgs of seed cotton ( c ) (item 3+4-item 5)	8821
07.	Seed cotton price per 40 Kgs (item 6/3)	2940

**Notes:**

- a) One US\$ = 105.55 Pak rupees.
- b) Average price of cotton seed for October, 2017 in Rahim Yar Khan market was Rs. 1473 per 40 Kg.
- c) 120 Kg of seed cotton = 80 kg of cotton seed + 40 Kg of lint.

**Sources:**

1. PBS for export prices.
2. KCA, Karachi for marketing expenses.
3. Pakistan Cotton Ginners Association, Karachi for ginning charges.
4. Directorate of Agriculture (E&M), Punjab, Lahore.
5. API's Cotton Policy Analysis for 2015-16 Crop.

**Table-13 : IMPORT PARITY PRICE OF SEED COTTON ON THE BASIS OF ACTUAL AVERAGE CIF (KARACHI) PRICE OF IMPORTED COTTON**

Sr. No.	Item	October, 2017
01.	Actual average cif (Karachi) Price, per 40 kgs	Rs.7391 (Rupees) OR 74.40 (US Cent per Lb)
02.	Handling charges at port and transport cost from port to textile mill at Karachi @ 5% of cif price	425
03.	Ex-gin price of cotton lint (item 1+ item 2)	7816
04.	Value of 80 Kgs of cotton seed (a)	2946
05.	Ginning charges for 120 Kgs of seed cotton including ginning losses	600
06.	Value of 120 Kgs of seed cotton (item 3 + item 4 – item 5)	10162
07.	Seed cotton price (item 6/3)	3387

**Note:**

- a) Average price of cotton seed for October, 2017 in Rahim Yar Khan market was Rs. 1473 per 40 Kg.
- b) 120 kg of seed cotton = 80 kg of cotton seed + 40 kg of lint.

**Sources:**

1. PBS, for cif (Karachi price).
2. KCA, for incidental charges.
3. Pakistan Cotton Ginners Association, Karachi for ginning charges.
4. Directorate of Agriculture (E&M), Punjab, Lahore.
5. API's Cotton Policy Analysis for 2015-16 Crop.



REGIONAL COTTON SITUATION **1. CHINA**

Cotton area in China is projected to rise by 7% to 3.1 million hectares in 2017-18 as compared to 2.9 million hectares in 2016-17 owing to higher prices in last year. Cotton production in China is also expected to increase by 7% to 5.2 million tons in 2017-18 as compared to 4.9 million tons in 2016-17. Whereas mill use is expected to grow by 1% to 8.1 million tons in 2017-18. Imports by China are projected to increase by 18.0% to 1.3 million tons in 2017-18. China's ending stocks are projected to decline by 16% to 10.6 million tons in 2016-17.

**Table-14: CHINA SUPPLY AND DEMAND POSITION**

(Million Metric Tons)

Heads	2012-13	2013-14	2014-15 Proj.	2015-16 Proj.	2016-17 Proj.	2017-18 Proj.
Beginning Stock	6.69	10.81	13.28	14.12	12.65	10.63
Production	7.60	7.00	6.60	5.20	4.90	5.25
Consumption	7.90	7.60	7.55	7.60	8.00	8.12
Import	4.43	3.07	1.80	0.96	1.10	1.18
Ending Stock	10.81	13.28	14.12	12.65	10.63	9.07

Source: Cotton this month December 01, 2017.

**2. INDIA**

Cotton area in India is estimated to increase by 9.5% to 11.5 million hectares in 2017-18 as compared to 10.5 million hectares in 2016-17, owing to firm prices in 2016-17. Cotton production in India is projected to grow by 8.7% to 6.2 million tons in 2017-18 as against 5.7 million tons in 2016-17. Mill consumption in India is also likely to grow by 4% to 5.3 million tons in 2017-18. However, exports from India are expected to increase by 8.0% to 1.07 million tons in 2017-18.

INTERNATIONAL COTTON SITUATION 2017-18 

The world cotton area in 2017-18 is projected to increase by 11% to 32.5 million hectares as compared to 29.3 million hectares in 2016-17. World cotton production is forecast to grow by 11.7% to 25.7 million tons in 2017-18 as against 23.0 million tons in 2016-17 due to expansion in area. World cotton consumption may recover by 3% to 25.2 million tons in 2017-18 as compared to 24.5 million tons in 2016-17. The world imports and exports are projected to increase by 0.5 percent to 8.1 million tons in 2017-18. The world ending stocks in 2016-17 are expected to decline by 7.4 percent to 18.7 million tons.

**Table-15: WORLD COTTON BALANCE SHEET**

(Million Metric Tons)

Heads	2012-13 Estimated	2013-14 Estimated	2014-15 Projected	2015-16 Projected	2016-17 Projected	% Change in 2016-17 over 2015-16
Beginning stock	15.71	19.43	21.32	22.96	20.24	-11.85
Production	27.08	26.23	26.27	21.48	23.00	0.07
Consumption	23.45	24.10	24.59	24.18	24.52	0.01
Exports	10.05	9.03	7.79	7.55	8.11	0.07
Imports	10.21	8.86	7.79	7.57	8.11	0.07
Ending Stock	19.43	21.32	22.96	20.24	18.71	-0.08

Source: Cotton this month December 01, 2017.

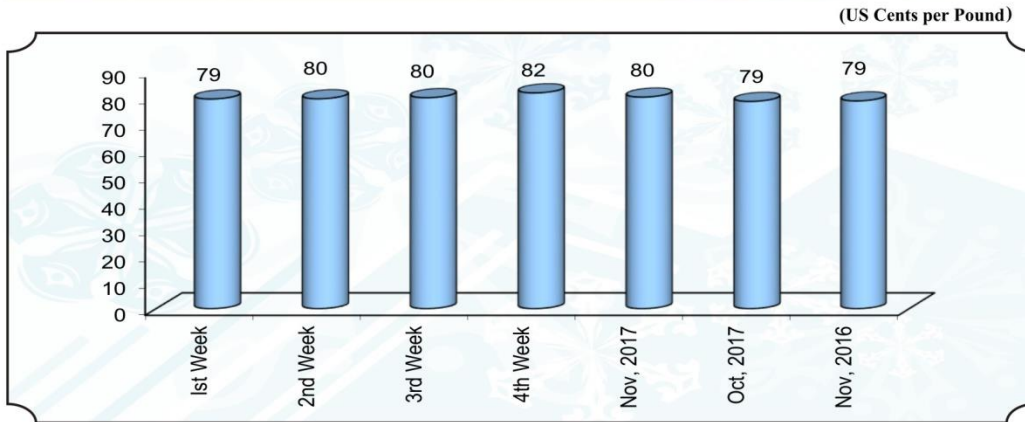
**Table-16: COTTON PRODUCTION AND CONSUMPTION IN MAJOR COTTON GROWING COUNTRIES DURING LAST 5 YEARS**

(Million Tons)

Countries	2013-14 Estimated	2014-15 Estimated	2015-16 Estimated	2016-17 Proj.	2017-18 Proj.
<b>Production</b>					
India	6.77	6.56	5.75	5.78	6.03
China	7.00	6.60	5.20	4.90	5.25
USA	2.81	3.55	2.81	3.74	4.59
Pakistan	2.07	2.30	1.54	1.66	1.95
Brazil	1.73	1.56	1.29	1.53	1.57
Uzbekistan	0.91	0.88	0.83	0.79	0.80
Others	4.92	4.80	4.07	4.65	5.18
World Total	26.23	26.27	21.48	23.05	25.38
<b>Consumption</b>					
China	7.60	7.55	7.60	8.00	8.12
India	5.09	5.38	5.30	5.15	5.30
Pakistan	2.47	2.47	2.15	2.15	2.23
Europe & Turkey	1.61	1.69	1.69	1.61	1.64
Vietnam	0.67	0.87	1.01	1.17	1.44
Bangladesh	1.13	1.20	1.32	1.41	1.31
USA	0.77	0.78	0.75	0.75	0.73
Brazil	0.86	0.80	0.70	0.73	0.76
Others	3.89	3.86	3.68	3.60	3.70
World Total	24.10	24.59	24.18	24.56	25.22

Source: Cotton this month December 01, 2017.

**Figure-V: COTLOOK 'A' INDEX DURING NOVEMBER, 2017**



Source: Cotton Outlook.

The graph above shows that 'A' index prices during November, 2017, raised to 80.16 cents per pound as compared to 78.52 cents per pound recorded in October, 2017. However, the prices in November, 2016 were registered at 78.71 cents per pound. The available Cotlook 'A' index in 2016-17 as compared to 2015-16 is given in the table below:-

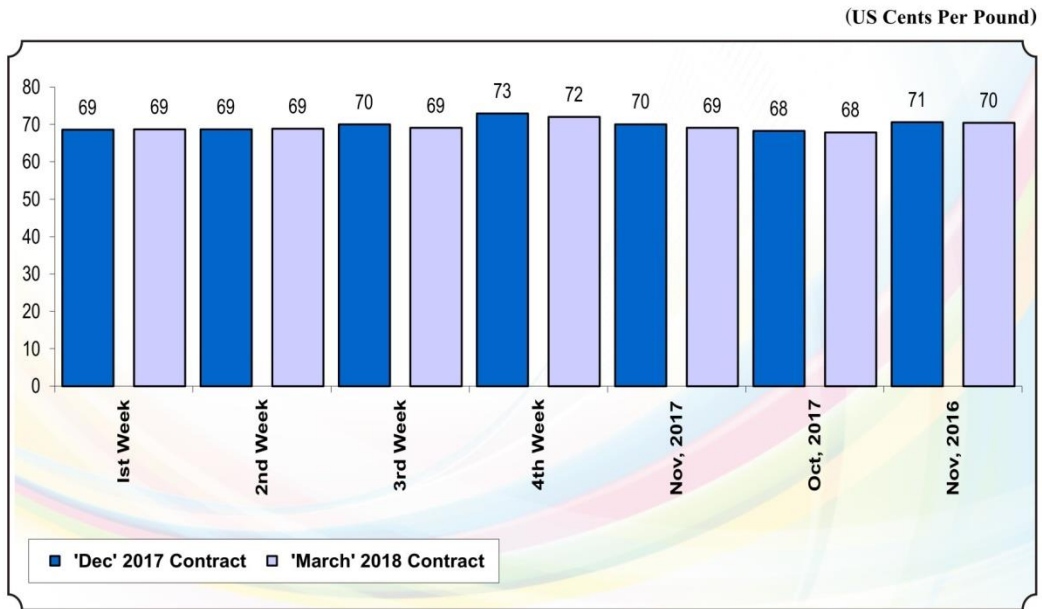
**Table-16: MONTHLY AVERAGE PRICES OF "A" INDEX DURING 2016-17 & 2015-16**

(US Cents Per Pound)

Month/Season	2016-17	2015-16
August, 2016	80.39	71.79
September, 2016	77.80	68.95
October, 2016	78.46	68.93
November, 2016	78.71	69.21
December, 2016	79.51	70.52
January, 2017	82.22	68.81
February, 2017	85.16	66.55
March, 2017	86.77	65.38
April, 2017	86.96	69.17
May, 2017	88.76	70.27
June, 2017	84.92	74.01
July, 2017	84.21	80.72
<b>Average</b>	<b>82.82</b>	<b>70.36</b>
August, 2017	79.27	80.39
September, 2017	80.85	77.80
October, 2017	78.52	78.46
November, 2017	80.16	78.71

Source: Cotton Outlook.

Figure-VI: NEW YORK COTTON FUTURES VALUES DURING NOVEMBER, 2017



Source: Cotton Outlook

The graph above indicates that the nearby December and March, 2018 contract during November, 2017 declined to 70.06 cents per pound as compared to 68.27 cents in previous month. However, the price of same contract in the corresponding month of last year recorded higher at 70.64 cents per pound.



DESCRIPTION OF RATING OF DIFFERENT FIBRE CHARACTERISTICS

**i) Fibre Length**

Description	Rating			
	20.32	0.80"	-0.99"	25.15
Short Staple	20.32	0.80"	-0.99"	25.15
Medium Staple	25.40	1.00"	-1.10"	27.94
Long Staple	28.19	1.11"	-1.26"	32.00
Extra Long	Above	1.27"		32.26

**ii) Uniformity Ratio/Uniformity Index.**

Description	Uniformity Ratio	Rating
42.0% or Below	77 or below	Very Low
42.0 - 43.0	78-79	Low
44.0 - 45.0	80-82	Average
46.0 -47.0	83—85	High
Above 47.0	Above 85	Very high

**iii) Micronaire Value.**

Description	Rating
Below 3.0	very fine
3.0 - 3.9	Fine
4.0 - 4.9	Average
5.0 - 5.9	Coarse
Above 6.0	Very coarse

**iv) Maturity Ratio**

Description	Rating
1.0 and above	Very mature
1.0 -0.95	Above average
0.94 - 0.85	Mature
0.84 - 0.80	Below average
0.79 - 0.70	Immature

**v) Flat Bundle Strength 000 Ibs PSI**

Description	Rating
Less than 76	Very Low
77 - 83	Low
84 - 90	Average
91 - 97	High
Above 97	Very High

**vii) Short Fibre Content**

Description	Rating
Below 6	Very Low
6 - 9	Very Low
10 - 13	Low
14 - 17	High
Above 17	Very High

**vi) Fibre Strength (G/Tex)**

Description		Rating
ICC mode	HVI mode	
Less than 16	Less than 21	Low
17 -19	22 - 24	Low
20 - 22	25 - 27	Average
23 - 25	28 - 30	High
Above 25	Above 30	High

**viii) Rd%**

Description	Rating
80 and above	Very High
75 - 79	High
70 - 74	Average
64 -96	Low
Below 63	Very Low

**ix) +B**

Description	Rating
6 and below	Very Low
6 - 8	Low
8 - 10	Average
10 - 12	High
Above 13	Very High

**X) Moisture.**

Description	Rating
below 4.5	Very Low
4.5 to 6.5	Low
6.5 -8.0	Medium
8.0 - 10.0	High
10.0 and Higher	Very High

*Weights & Measures*

<b>Kilogram</b>	=	2.2046 Pounds = 1.0717 Seers
<b>Pounds</b>	=	453.5924 Grams = 0.4536 Kilogram
<b>Maund</b>	=	82.2858 Pounds = 37.3242 Kilograms = 0.0373 Metric Ton.
<b>Metric Ton</b>	=	2204.6229 Pounds= 26.7923 Maunds = 1000 Kilograms
<b>Kantar</b>	=	50 Kilograms = 110.2334 Pounds = 1.3396 Maunds.
<b>Quintal</b>	=	1.9684 Cwt. = 2.6792 Maunds = 100 Kilograms
<b>Hundred weight (CWT)</b>	=	112 Pounds = 50.8029 Kilograms
<b>Yard</b>	=	0.9144 Metre
<b>Square Yard</b>	=	0.8361 Square Metre.
<b>Metre</b>	=	3.2808 Feet = 1.0936 Yards
<b>Square Metre</b>	=	1.19603 Square Yards.
<b>Acre</b>	=	4840 Square Yards = 0.4047 Hectare = 4046.7240 Sq. Metre.
<b>Hectare</b>	=	2.4710 Acre = 11959.6400 Sq. Yards = 999.4550 Sq. Metre.
<b>Bale of Raw Cotton</b>	=	375 Pounds = 170 Kilograms = 0.170 Metric Ton.
<b>Bale of Cotton Yarn</b>	=	400 Pounds=181.4388 Kilograms=0.1814388 Metric ton
<b>Lbs/Acre.</b>	=	1500 Sq. Yards = 1254.1500 Sq. Metres.
<b>Kgs/Hectare</b>	=	0.8922 X (Kgs. /Hectare).
<b>Bale of Cotton Cloth</b>	=	1.1208 X (Lbs/Acre) = 92.2281 X (Mds. /acre).
<b>Maund/Acre</b>	=	0.01084268 X (Kgs. /Hectare).