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# **Cotton Review**

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PAKISTAN CENTRAL COTTON COMMITTEE  
MINISTRY OF TEXTILE INDUSTRY  
GOVERNMENT OF PAKISTAN**

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# **DOMESTIC AND WORLD COTTON REVIEW**

## **DOMESTIC COTTON CROP SCENARIO**

As per PCGA report as on 1<sup>st</sup> January, 2017 about 10.3 million bales have arrived in the ginneries. As the seed cotton prices are better enough, so growers are taking 3<sup>rd</sup> and 4<sup>th</sup> picking. Still there are some fields of seed cotton especially in Punjab for 3<sup>rd</sup> and 4<sup>th</sup> picking. The cotton growers are quite satisfied with the seed cotton prices this season and are convinced to bring more cotton area under cultivation in the next season. About 1.6 million acres of cotton crop could not be sown in Punjab during the season 2016-17 due to huge losses to cotton crop by pink boll worm in the previous season. It is expected that the lost area will be recovered in the coming season 2017-18.

Pakistan Central Cotton Committee has launched comprehensive program of grower advisory on production practices, efficient use of inputs and market information. The objective of the program is to sustain and enhance the confidence of cotton grower for the next crop season. Various information dissemination methods like seminars, corner meetings, brochures, leaflets, SMS service and TV programs are being organized.

**Table-1: TARGETS FOR AREA AND PRODUCTION OF COTTON CROP 2016-17**

<b>S. No</b>	<b>Province</b>	<b>Area (Million Hectares)</b>	<b>Production (Million Bales)</b>
1.	Punjab	2.310	9.500
2.	Sindh	0.660	4.500
3.	Khyber Pakhtunkhwa	0.001	0.003
4.	Baluchistan	0.038	0.098
<b>Total of Pakistan</b>		<b>3.009</b>	<b>14.101</b>

Source: Federal Committee on Cotton (FCC) meeting held on 23.2.2016.

**Table-2: SOWING POSITION OF COTTON CROP** (Million Hectares)

<b>Province</b>	<b>Target 2016-17</b>	<b>Area Sown</b>		<b>% Change Over</b>	
		<b>2016-17</b>	<b>2015-16</b>	<b>Target</b>	<b>Last Year</b>
Punjab	2.310	1.776	2.243	76.88	-20.82
Sindh	0.660	0.636	0.621	96.36	+2.41
Pakistan	2.97	2.412	2.864	81.21	-15.78

Source: Provincial Crop Reporting Departments.

**Table – 3: ASSESSMENT OF COTTON CROP 2016-17****(Bales = 170 Kg)**

Province	Expected Production (Million Bales)		
	First Cotton Crop Assessment (06-9-2016)	Second Cotton Crop Assessment (06-10-2016)	Third Cotton Crop Assessment (05-12-2016)
Punjab	7.500	7.300	6.903
Sindh	3.733	3.700	3.600
KPK	0.001	0.001	0.001
Balochistan	0.038	0.038	0.038
<b>Pakistan</b>	<b>11.272</b>	<b>11.039</b>	<b>10.542</b>

Source: Cotton Crop Assessment Committee Meeting (held on 06-9-2016, 06-10-2016 &amp; 05-12-2016).

**Table-4: SEED COTTON ARRIVALS 2016-17 AND 2015-16 AS ON: 1<sup>st</sup> JANUARY, 2017**

Heads	2016-17			2015-16		
	Punjab	Sindh	Total	Punjab	Sindh	Total
Arrivals	6,617,646	3,749,057	10,366,703	5,574,767	3,704,338	9,279,105
Sales to Exporters	55,500	143,744	199,244	5,200	350,226	355,426
Sales to Textile Mills	5,532,928	3,285,857	8,818,785	4,390,473	2,881,000	7,271,473
Sales to T.C.P	-	-	-	-	-	-
Unsold Stock	912,051	272,167	1,184,218	1,042,959	326,753	1,369,712
Un-ginned Stock	117,167	47,289	164,456	136,135	146,359	282,494

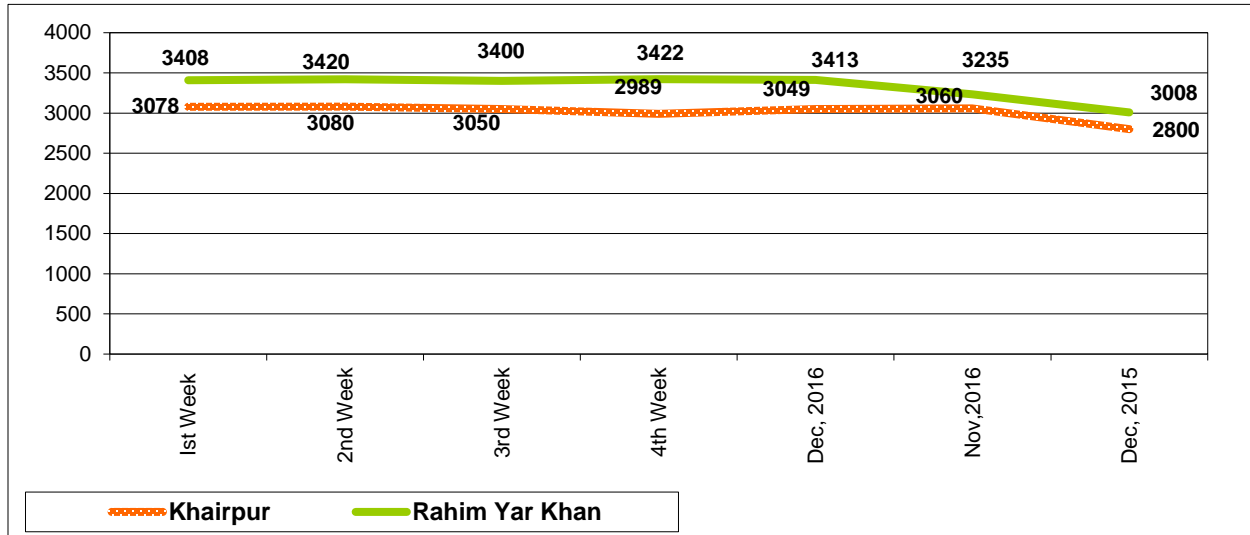
Source: Pakistan Cotton Ginners Association.

**Table-5: SEED COTTON PRICES (Monthly Averages) 2015-16 & 2016-17****(Rs. per 40 Kg)**

Months	Hyd	M.P. Khas	Khair Pur	Sukr	R.Y. Khan	Bahawal Pur	Khane wal	Mian Channu	Sahiwal	Multan	Burew ala
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
Average 2016-17	<b>2971</b>	<b>2880</b>	<b>3061</b>	<b>3145</b>	<b>3265</b>	<b>3222</b>	<b>-</b>	<b>3091</b>	<b>3100</b>	<b>3162</b>	<b>3187</b>
Average 2015-16	<b>2392</b>	<b>2387</b>	<b>2794</b>	<b>2867</b>	<b>2857</b>	<b>2858</b>	<b>2334</b>	<b>2639</b>	<b>2416</b>	<b>2769</b>	<b>2704</b>

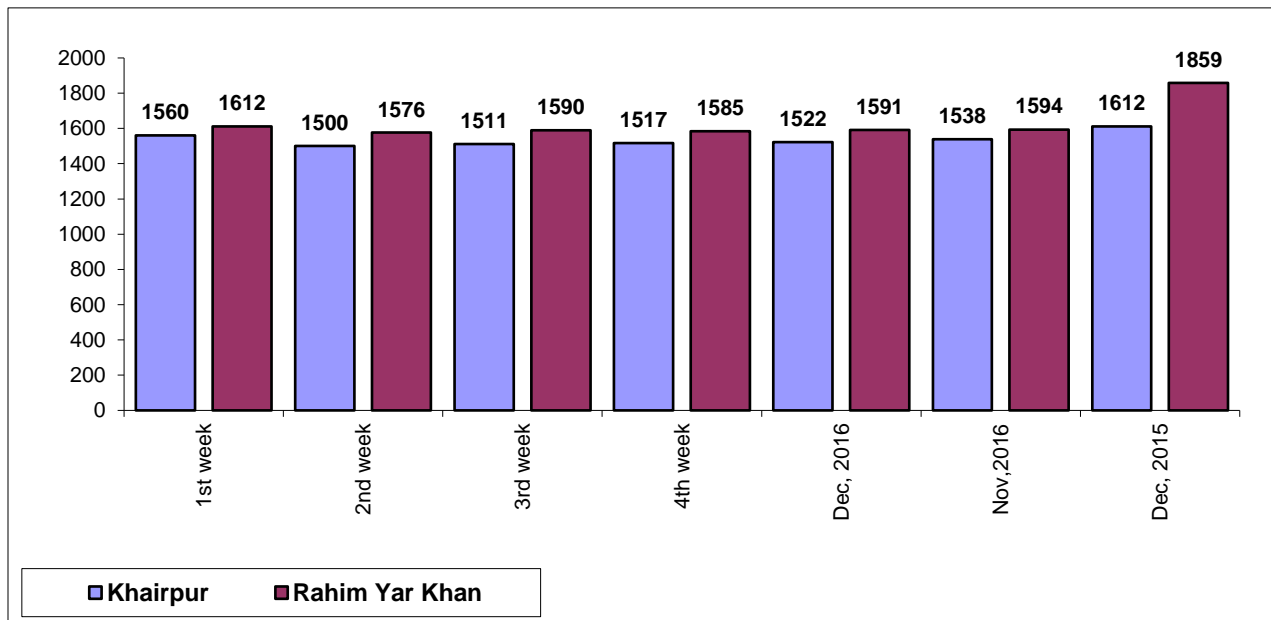
Source: Market Report.

**Figure -I: SEED COTTON PRICES DURING DECEMBER, 2016** (Rs. per 40 Kg)



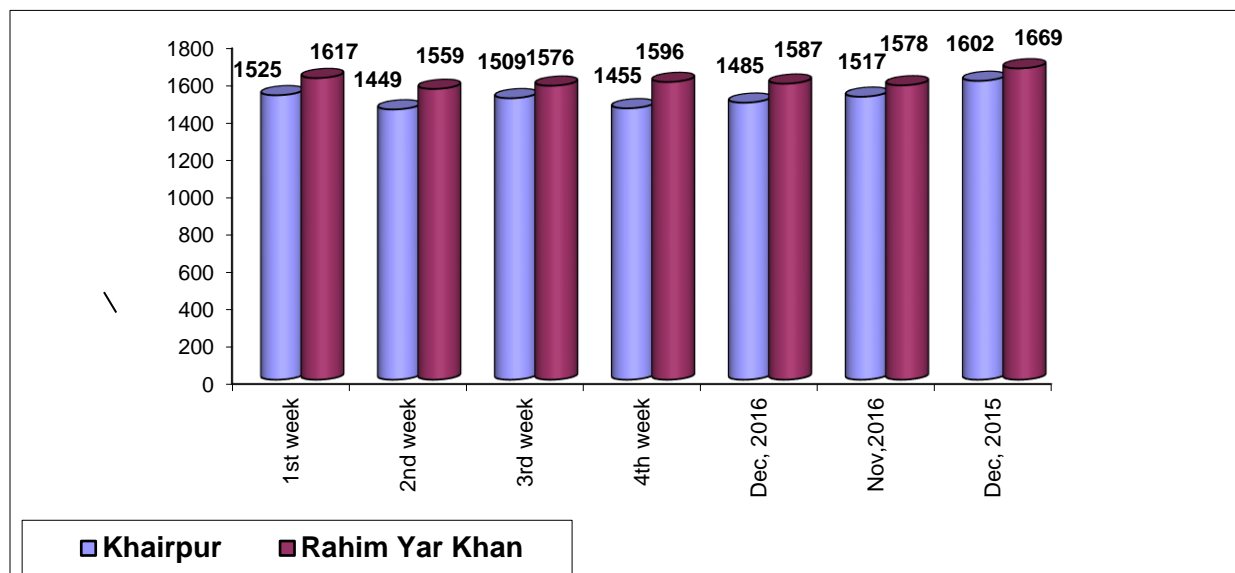
Source: Market Report.

**Figure-II: COTTON SEED PRICES DURING DECEMBER, 2016** (Rs per 40 kg)



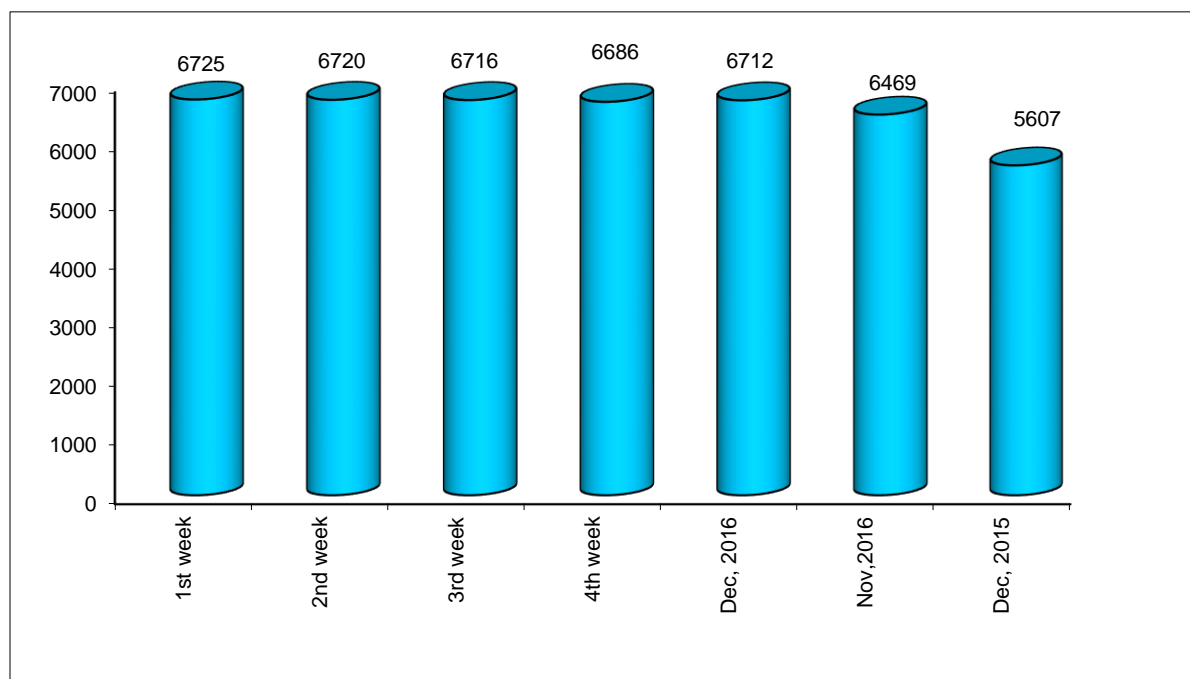
Source: Market Report.

**Figure-III: COTTON SEED CAKE PRICES DURING DECEMBER, 2016 (Rs per 40 kg)**



Source: Market Report.

**Figure-IV: KCA SPOT RATE (EX-GIN) AT KARACHI DURING DECEMBER, 2016 (Rs per 40 Kg)**



Source: The Karachi Cotton Association

The graph above indicates that the prices of raw cotton witnessed growing tendency during the month of December, 2016. The prices were averaged at Rs. 6,712 per 40 kg as compared to Rs. 6,469 in November, 2016. However, the prices in December, 2015 were recorded much lower at Rs. 5,607 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	2015-16
	Ex-Gin Rate	Ex-Gin Rate
August	7082	4880
September	6450	4991
October	6410	5582
November	6469	5698
December	6712	5607
January	-	5758
February	-	5726
March	-	5616
April	-	5785
May	-	5986
June	-	5993
July	-	6558
<b>Average</b>	<b>6625</b>	<b>5682</b>

Source: Karachi Cotton Association.

**Table 7: COTTON BALANCE SHEET DURING 2014-15 AND 2015-16\***

(Bale= 170 kg)

Sr. No.	Position	2014-15		2015-16*	
		'000' Bales	'000' M/Tons	'000' Bales	'000' M/Tons
1.	Carryover	701	118	398	66
2.	Production	13,996	2,379	9768	1661
3.	Imports	987	168	2273	386
<b>Total</b>		<b>15,684</b>	<b>2665</b>	<b>12439</b>	<b>2113</b>
4.	Mill Consumption	14727	2504	11533	1961
5.	Exports	559	95	287	49
6.	End Season Stocks	398	66	619	103
<b>Total</b>		<b>15,684</b>	<b>2665</b>	<b>12439</b>	<b>2113</b>

Source: i) Textile Commissioners Organization

ii) Pakistan Bureau of Statistics.

iii) Pakistan Cotton Ginner's Association. (PCGA figure is converted in to 170 kg)

\*Provisional \*\*Mill Consumption Aug, 2015-March, 2016.

Note: Exports and Imports July-June, 2016 (2015-16 Crop)

**COTTON YARN PRICES**

The Cotton Yarn prices of 21's and 30's counts in December, 2016 remained stable at the level of previous month and averaged at Rs. 1200 and Rs. 1381 per bundle of 4.54 kg. However, the same counts in the corresponding month of the last year were recorded at Rs. 1056 and Rs. 1381 per bundle respectively. Details are given as below:

**Table-8: DOMESTIC COTTON YARN PRICES DURING DECEMBER, 2016**

(Rs. per bundle of 4.54 kg)

Count/ Week	W E E K				December 2016	November 2016	December 2015
	I	II	III	IV			
10/1	833	833	833	833	833	872	840
16/1	1144	1142	1142	1144	1143	1132	968
21/1	1201	1200	1200	1200	1200	1204	1056
22/1	1197	1195	1195	1195	1196	1202	1062
26/1	1310	1308	1308	1308	1309	1301	1151
28/1	1350	1350	1350	1350	1350	1350	1200
30/1	1381	1381	1381	1381	1381	1381	1256
32/1	1380	1380	1380	1380	1380	1380	1260
40/1	1650	1650	1650	1650	1650	1650	1520
52/1	1700	1700	1700	1700	1700	1700	1560
60/1	1750	1750	1750	1750	1750	1750	1700
70/1	1850	1850	1850	1850	1850	1850	1800
20/2	1282	1282	1282	1282	1282	1282	1158

Source: Pakistan Yarn Merchants Association, Karachi.

**Table-9: EXPORTS OF TEXTILE GROUP COMMODITIES DURING NOVEMBER, 2016**

(Value = Rs. In Millions)

Commodities	Unit	November 2016		October 2016		November 2015		% change Over Oct 2016		July-November 2016		July-November 2015		% Change	
		Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val
Raw Cotton	M.T	2849	471	7033	1209	1294	197	-59.5	-61.0	20082	3506	44288	7153	-54.6	-51.0
Cotton Yarn	M.T	49784	13128	45086	11907	29565	9308	10.4	10.2	205514	57018	194467	61364	5.7	-7.1
Bed Wear	M.T	27544	17569	28432	18673	26651	17174	-3.1	-5.9	144118	91362	133087	87369	8.3	4.6
Towels	M.T	14095	6836	14558	7046	14069	6773	-3.2	-3.0	69122	32516	76255	35236	-9.3	-7.7
Cotton Cloth	Th.SQ	127658	17238	144774	19255	166701	17196	-11.8	-10.5	770876	93828	899636	95712	-14.3	-2.0
Synthetic Fiber	Th.SQ	7944	2002	9708	2427	23771	2504	18.2	17.5	38377	8581	131569	12799	-70.8	-33.0
Knitwear	Th.Do	12805	20989	11856	20583	8304	18753	8.0	2.0	53915	104232	45673	103109	18.0	1.1
Readymade Garments	Th.Do	2597	19740	2435	18503	2664	17515	6.7	6.7	12457	92917	12598	87715	-11.1	5.9

Source: Pakistan Bureau of Statistics, Karachi.

The table above indicates that the exports of raw cotton reduced to but its related produce witnessed fluctuation in November, 2016. The raw cotton exports decreased to 2,849 metric tons valuing Rs. 471 million in November, 2016 as compared to 7,030 metric tons amounting Rs. 1209 million in October, 2016. However, the exports in the corresponding month last year recorded much lower at 1,294 metric tons valuing Rs. 197 million. It shows decrease of 59.5 % in quantity and 61.0% in value over October, 2016.



**Table-10: IMPORTS OF TEXTILE GROUP COMMODITIES DURING NOVEMBER, 2016**

(Value = Rs. In Millions)

Commodities	Unit	November 2016		October 2016		November 2015		% change over Oct 2016		July-November 2016		July-November 2015		% Change	
		Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val
Raw Cotton	M.T	10369	1835	18597	3090	53428	10019	-44.2	-40.6	72155	12414	88258	17237	-18.2	-28.0
Synthetic Fiber	M.T	16366	2894	17675	3104	17202	3970	-7.4	-6.8	100650	19151	112492	23305	-10.5	-17.8
Synthetic & Artificial Silk Yarn	M.T	33315	6137	24180	4561	23508	5459	37.8	34.5	134769	26532	117808	27032	14.4	-1.8
Worn Clothing	M.T	37488	1334	34580	1174	45285	1610	8.4	13.6	174557	6589	198974	6481	-12.3	1.7
Other Textile Items	-	-	11363	-	9586	-	12194	-	18.5	-	52413	-	51505	-	1.8

Source: Pakistan Bureau of Statistics, Karachi.

The table above shows that the imports of raw cotton during November, 2016 witnessed sluggish trend and recorded at 10,369 metric tons amounting to Rs. 1,835 million as compared to 18,597 metric tons valuing Rs. 3,090 million in October, 2016. Whereas, the imports in November, 2015 recorded at 53,428 metric tons amounting to Rs. 10,019 million. It shows decrease of 44.2 % in quantity and 40.6 % in value, over October, 2016.

### 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		
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**

S. No.	Item	November 2016
01.	Actual average export price per 40 Kgs	6613 (Rupees) or 71.85 (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)	6188
04.	Value of 80 Kgs of cotton seed (b)	3188
05.	Ginning charges for 120 Kgs of seed cotton	600
06.	Value of 120 Kgs of seed cotton ( c ) (item 3+4-item 5)	8776
07.	Seed cotton price per 40 Kgs (item 6/3)	2925

**Notes:**

- One US\$ = 104.37 Pak rupees.
- Average price of cotton seed for November, 2016 in Rahim yar khan market was Rs. 1594 per 40 Kg.
- 120 Kg of seed cotton = 80 kg of cotton seed + 40 Kg of lint.

**Sources:**

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

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

Sr. No.	Item	November 2016
01.	Actual average cif (Karachi) Price, per 40 kgs	Rs.7079 (Rupees) or 76.91 (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)	7504
04.	Value of 80 Kgs of cotton seed (a)	3188
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)	10692
07.	Seed cotton price (item 6/3)	3564

**Note:**

- Average price of cotton seed for November, 2016 in Rahim Yar Khan market was Rs. 1594 per 40 Kg.
- 120 kg of seed cotton = 80 kg of cotton seed + 40 kg of lint.

**Sources:**

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

## **REGIONAL COTTON SITUATION**

### **1. CHINA**

The cotton area in China slackened by 7 percent to 2.8 million hectares in 2016-17, as compared to 3.0 million hectares in 2015-16. Similarly, cotton production also slumped by 4 percent to 455 million tons in 2016-17, as compared to 4.75 million tons in 2015-16, despite the 3 percent gain in average yield at 1600 kg/hectare in 2016-17 as against 1553 kg/hectare recorded in 2015-16.

Although China consumption is forecast to remain stable at 7.4 million tons in 2016-17, it will continue to be the world's largest consumer of cotton. Total imports in China during 2016-17 projected at 0.98 million tons as against 0.96 million tons recorded in 2015-16 showing an increase of 2 percent.

**Table-14: CHINA SUPPLY AND DEMAND POSITION** (Million Metric Tons)

Heads	2011-12	2012-13 Est.	2013-14 Est.	2014-15 Proj.	2015-16 Proj.	2016-17 Proj.
Beginning Stock	2.09	6.18	9.61	12.11	12.92	11.16
Production	7.40	7.30	6.95	6.50	4.75	4.55
Consumption	8.63	8.29	7.52	7.48	7.44	7.44
Import	5.34	4.43	3.07	1.80	0.96	0.98
Ending Stock	6.18	9.61	12.11	12.92	11.16	9.23

Source: Cotton this Month 3<sup>rd</sup> January, 2017.

### **2. INDIA**

Cotton area in India slumped by 7 percent to 11.07 million hectare in 2016-17 as compared to 11.91 million hectares in 2015-16, due to competition from other crops such as maize. However, 9 percent increase in the average yield to 526 kg/ha will likely offset the losses in area. Production in India is fore cast to increase by 4 percent to just under 6 million tons , making it the world's largest producer .Where as mill use in India , is projected to decline by 01 percent to 5.2 million tons due to firm domestic cotton prices making cotton less attractive to spinners.

### **3. INTERNATIONAL COTTON SITUATION 2016-17**

The world cotton area in 2016-17 declined by 1.8 percent to 29.8 million hectare, which is the lowest area under cotton since 2009-10. While average yield is projected to improve by 10 percent to 764 Kg/ha as compared to 694 kg/ha recorded in 2015-16. As a result, world cotton production is predicted to increase by 8.0 percent to 22.8 million tons in 2016-17 as compared to 21 million recorded in 2015-16. India is still the world's largest cotton producing country, followed by China, U.S.A and Pakistan.

World cotton consumption is expected to remain stable at 24.1 million tons in 2016-17. The world imports in 2016-17 are projected to increase by 2.4 percent at 7.7 million tons as against 7.5 million tons in 2015-16. Similarly, world cotton export showed a slight increase of 2.6 percent at 7.7 million metric tons as compared to 7.5 million tons recorded in 2015-16. The world cotton ending stocks are projected to decline by 7.2 percent to 17.9 million tons in 2016-17 as compared to 19.3 million tons registered in 2015-16.

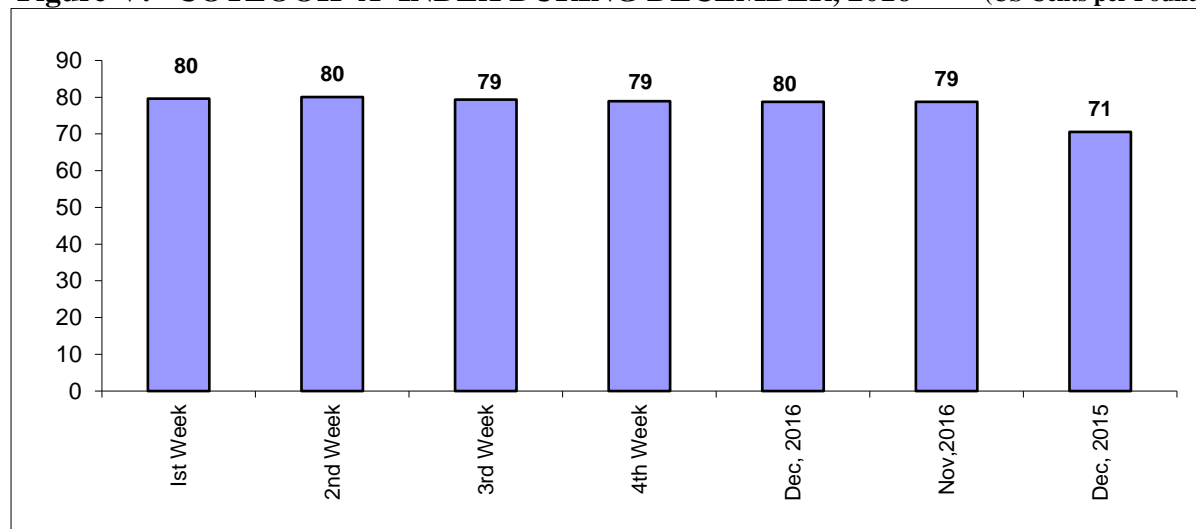
**Table-15: WORLD COTTON BALANCE SHEET** (Million Metric Tons)

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	15.36	18.51	20.60	22.33	19.31	-13.52
Production	26.78	26.17	26.20	21.07	22.77	8.07
Consumption	23.78	24.00	24.46	24.15	24.13	-0.08
Exports	10.06	9.01	7.80	7.48	7.73	3.34
Imports	10.20	8.93	7.78	7.55	7.73	2.38
Ending Stock	18.51	20.60	22.33	19.31	17.95	-7.04

Source: Cotton this Month 3<sup>rd</sup> January, 2017.**Table -16: COTTON PRODUCTION AND CONSUMPTION IN MAJOR COTTON GROWING COUNTRIES DURING LAST 5 YEARS** (Million Tons)

Countries	2012-13 Estimated	2013-14 Estimated	2014-15 Estimated	2015-16 Projected	2016-17 Projected
<b>PRODUCTION</b>					
India	6.29	6.76	6.56	5.75	5.96
China	7.30	6.95	6.50	4.75	4.55
USA	3.77	2.81	3.55	2.81	3.52
Pakistan	2.00	2.07	2.30	1.51	1.82
Brazil	1.31	1.73	1.56	1.29	1.41
Uzbekistan	1.00	0.91	0.88	0.83	0.81
Others	5.11	4.93	4.83	4.13	4.61
World Total	26.78	26.17	26.20	21.07	22.77
<b>CONSUMPTION</b>					
China	8.29	7.51	7.48	7.44	7.44
India	4.73	5.06	5.26	5.24	5.19
Pakistan	2.22	2.47	2.49	2.26	2.27
Europe & Turkey	1.56	1.61	1.69	1.69	1.63
Vietnam	0.49	0.67	0.87	1.01	1.14
Bangladesh	1.02	1.15	1.20	1.32	1.39
USA	0.76	0.77	0.78	0.75	0.72
Brazil	0.91	0.86	0.80	0.73	0.70
Others	3.79	3.89	3.87	3.71	3.66
World Total	23.78	24.00	24.44	24.15	24.13

Source: Cotton this Month, 3<sup>rd</sup> January, 2017.

**Figure-V: COTLOOK 'A' INDEX DURING DECEMBER, 2016** (US Cents per Pound)

Source: Cotton Outlook.

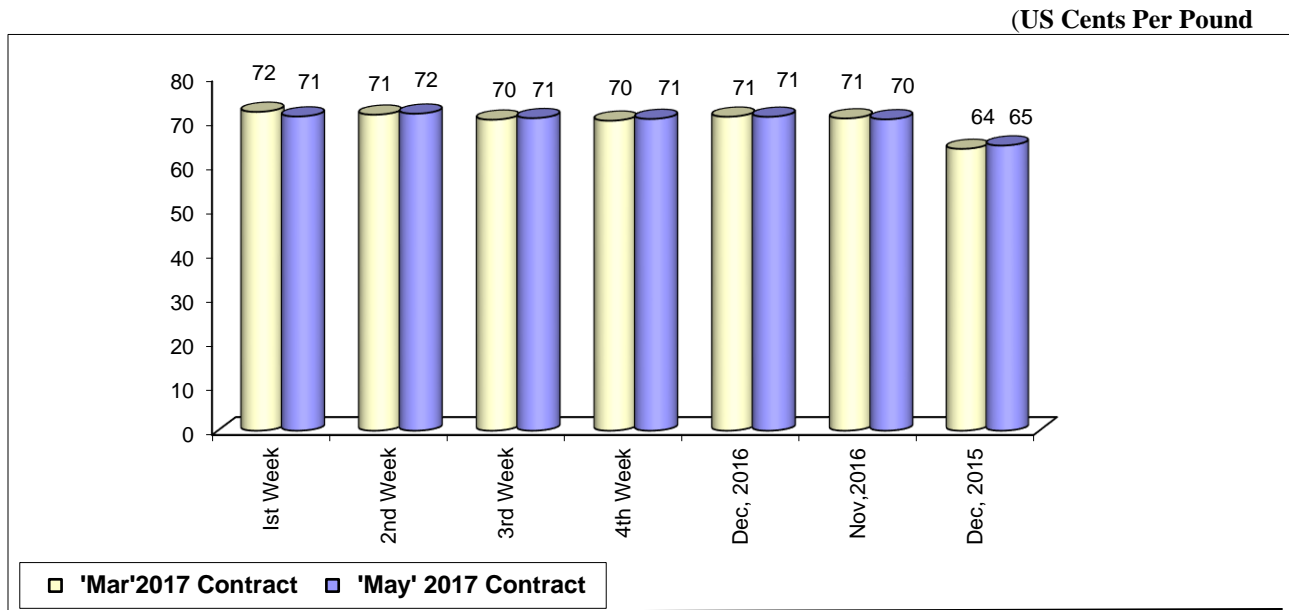
The graph above shows that 'A' index prices during December 2016, enhanced to 79.5 cents per pound as compared to 78.7 cents per pound recorded in November, 2016. However, the prices in December, 2015 were recorded lower at 70.5 cents per pound. The available Cotlook 'A' index in 2016-17 as compared to 2015-16 are given in the table below:-

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

Month/Season	(US Cents Per Pound)	
	2016-2017	2015-2016
August	80.39	71.79
September	77.80	68.95
October	78.46	68.93
November	78.71	69.21
December	79.51	70.52
January	-	68.81
February	-	66.55
March	-	65.38
April	-	69.17
May	-	70.27
June	-	74.01
July	-	80.72
<b>Average</b>	<b>78.97</b>	<b>70.36</b>

Source: Cotton Outlook.

**Figure-VI: NEW YORK COTTON FUTURES VALUES DURING DEC.20116**



Source: Cotton Outlook

The graph above indicates that the nearby March and May, 2017 contract during December, 2016 remained slightly increased at 71.02 cents per pound as compared to 70.64 cents in previous month. However, the price of same contract in the corresponding month of last year recorded lower at 63.76 cents per pound.

## DESCRIPTION OF RATING OF DIFFERENT FIBER CHARACTERISTICS

### i) Fiber Length

Description	Rating			
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		Rating
Uniformity Ratio	Uniformity Ratio	
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

### vi) Fiber 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

**vii) Short Fiber Content**

<b>Description</b>	<b>Rating</b>
Below 6	Very Low
6 - 9	Very Low
10 - 13	Low
14 - 17	High
Above 17	Very High

**viii) Rd%**

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

**ix) +B**

<b>Description</b>	<b>Rating</b>
6 and below	Very Low
6 - 8	Low
8 - 10	Average
10 - 12	High
Above 13	Very high

**x) Moisture**

<b>Description</b>	<b>Rating</b>
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 AND 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 Meter
<b>Square Yard</b>	=	0.8361 Square Meter
<b>Meter</b>	=	3.2808 Feet = 1.0936 Yards
<b>Square Meter</b>	=	1.19603 Square Yards
<b>Acre</b>	=	4840 Square Yards = 0.4047 Hec. = 4046.7240 Sq. Meter
<b>Hectare</b>	=	2.4710 Acre = 11959.6400 Sq. Yards = 999.4550 Sq. Meter
<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>Bale of Cotton Cloth</b>	=	1500 Sq. Yards = 1254.1500 Sq. Meter
<b>Lbs/Acre.</b>	=	0.8922 X (Kgs. /Hectare)
<b>Kgs/Hectare</b>	=	1.1208 X (Lbs/Acre) = 92.2281 X (Mds. /acre)
<b>Maund/Acre</b>	=	0.01084268 X (Kgs. /Hectare)