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**DIRECTORATE OF MARKETING & ECONOMIC RESEARCH
PAKISTAN CENTRAL COTTON COMMITTEE**

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GOVERNMENT OF PAKISTAN**

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DOMESTIC AND WORLD COTTON REVIEW

DOMESTIC COTTON CROP SCENARIO

Off season management strategies, trainings, seminars and farmer gatherings are being carried out by Pakistan Central Cotton Committee throughout the cotton belt. Trainings were imparted to the assistant directors of agriculture in Punjab province from 54 tehsils, heavily infested with pink boll worm in cotton growing districts on 16-02-17 at Ayub Agricultural Research Institute, Faisalabad. This exercise is being done under the project “Community based integrated management of pink boll worm & provision of missing facilities to pest warning wing”. Prior to this training session on “Off Season Management Strategies for Mealy Bug and Pink Boll Worm was conducted by PCCC in 11 districts of Punjab and 526 master trainers were trained. Simultaneously various trainings are being imparted by PCCC in Sindh province and about 40 trainings have been scheduled with the breakup of 2 trainings at each district. More than 500 extension technicians and growers will be trained as master trainers.

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

S. No	Province	Area (Million Hectares)	Production (Million Bales)
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
Total of Pakistan		3.009	14.101

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

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

Province	Target 2016-17	Area Sown		% Change Over	
		2016-17	2015-16	Target	Last Year
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
Pakistan	11.272	11.039	10.542

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

Table-4: SEED COTTON ARRIVALS 2016-17 AND 2015-16 AS ON: 1ST MARCH, 2017

Heads	2016-17			2015-16		
	Punjab	Sindh	Total	Punjab	Sindh	Total
Arrivals	6,920,370	3,786,811	10,707,181	5,961,734	3,766,037	9,727,771
Sales to Exporters	56,100	146,256	202,356	9,975	351,266	361,241
Sales to Textile Mills	6,384,456	3,517,123	9,901,579	5,361,028	3,185,632	8,546,660
Sales to T.C.P	-	-	-	-	-	-
Unsold Stock	473,741	122,230	595,971	580,976	223,188	804,164
Un-ginned Stock	6,073	1,202	7,275	9,755	5,951	15,706

Source: Pakistan Cotton Ginners Association.

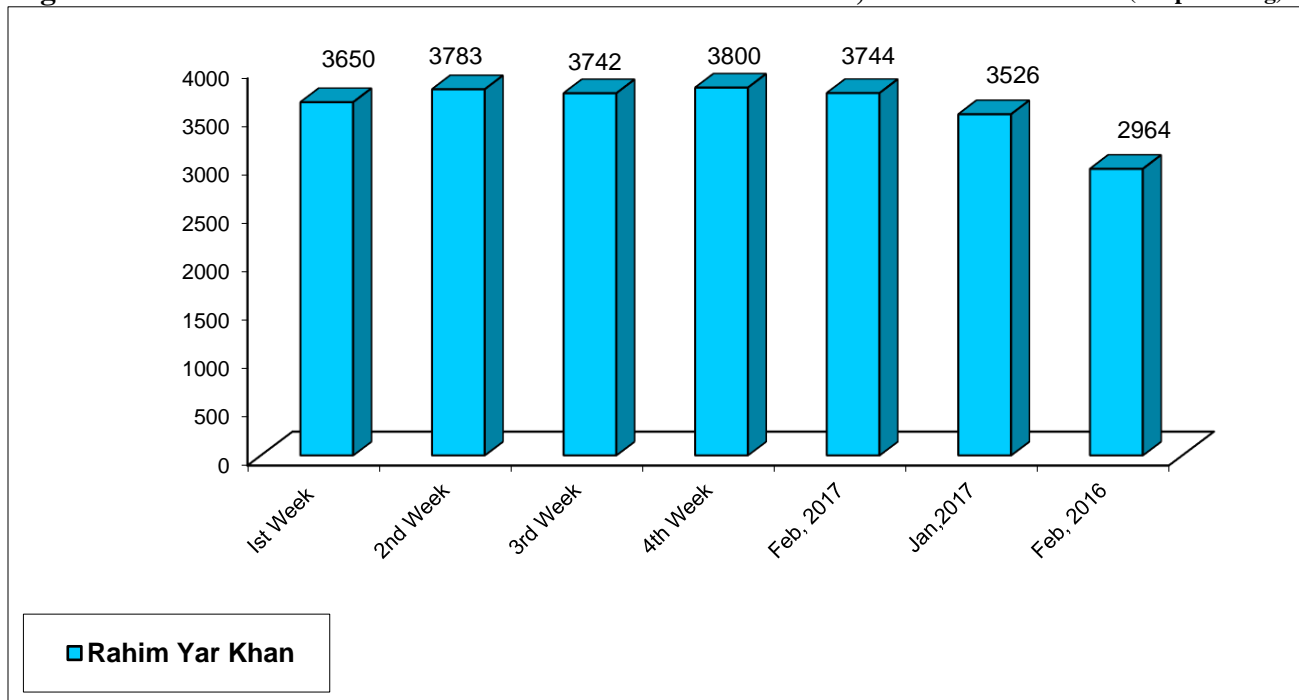
Table-5: SEED COTTON PRICES (Monthly Averages) 2015-16 & 2016-17**(Rs. per 40 Kg)**

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
January 2017	-	-	-	-	3526	3476	-	3194	-	3231	3470
February 2017	-	-	-	-	3744	-	-	-	-	-	3553
Average 2016-17	2971	2880	3061	3145	3357	3285	-	3142	3100	3179	3280
Average 2015-16	2392	2387	2794	2867	3178	2771	2334	2729	2416	2648	2707

Source: Market Repor

Figure -I: SEED COTTON PRICES DURING FEBRUARY, 2017

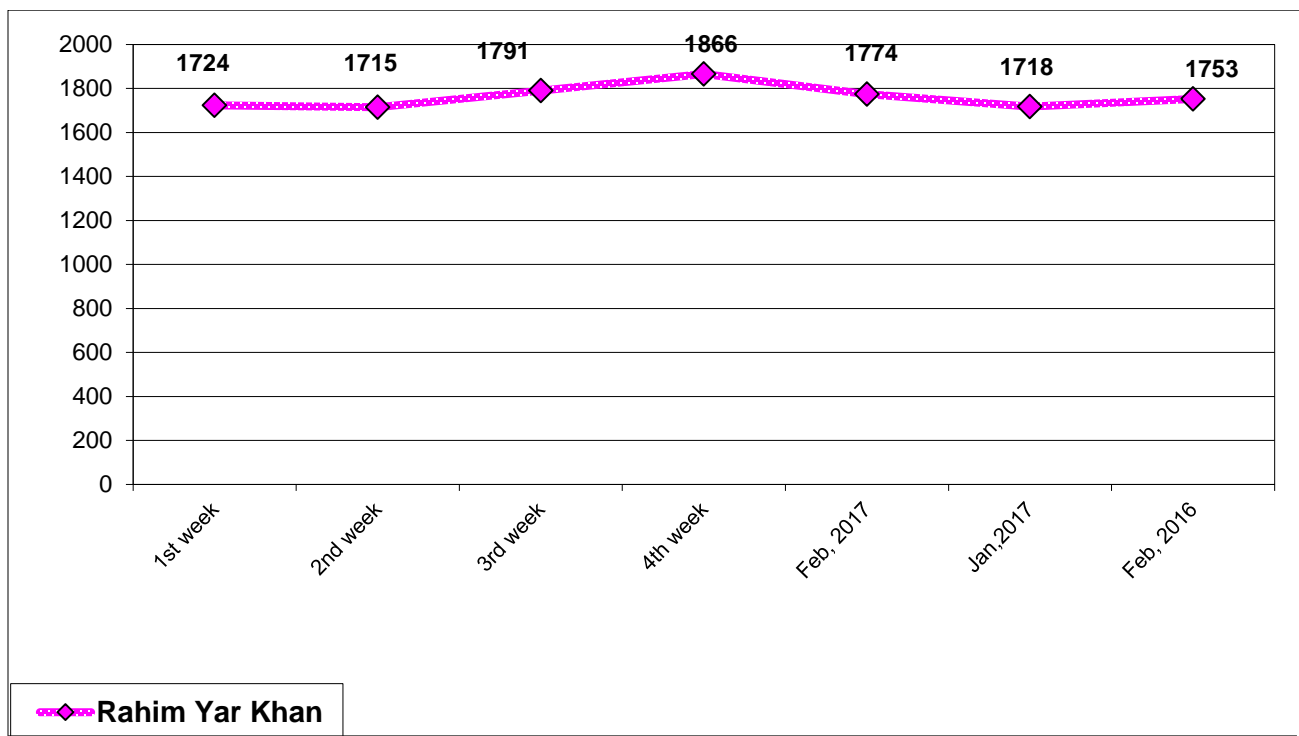
(Rs. per 40 Kg)



Source: Market Report.

Figure-II: COTTON SEED PRICES DURING FEBRUARY, 2017

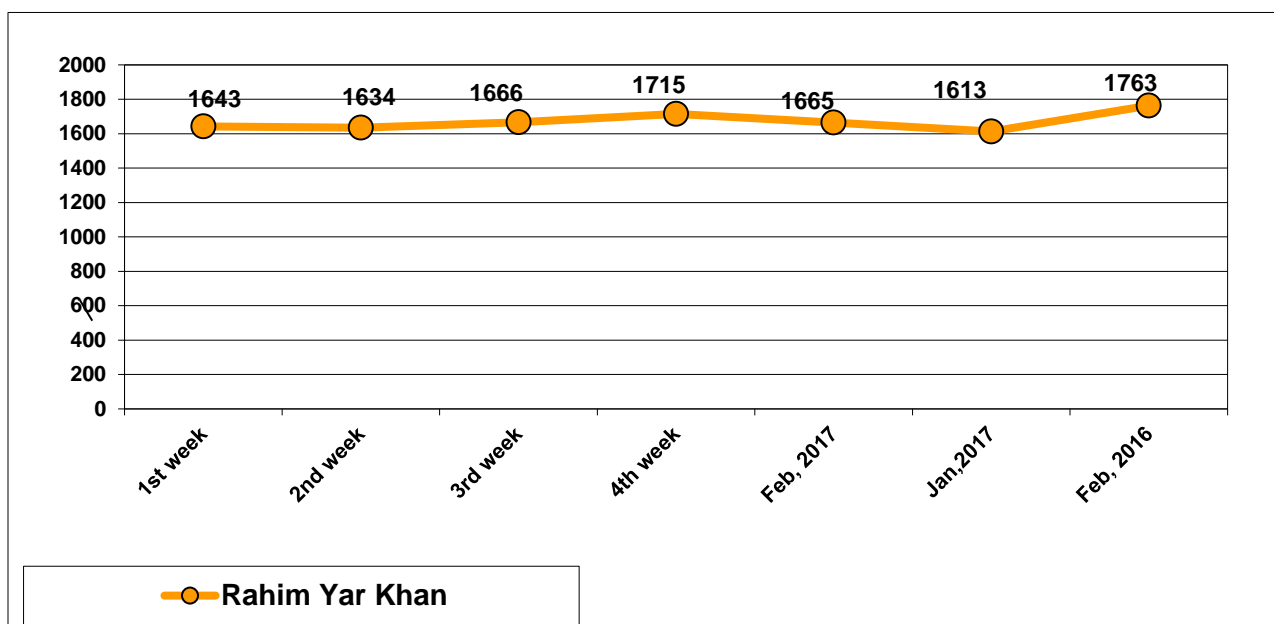
(Rs per 40 kg)



Source: Market Report.

Figure-III: COTTON SEED CAKE PRICES DURING FEBRUARY, 2017

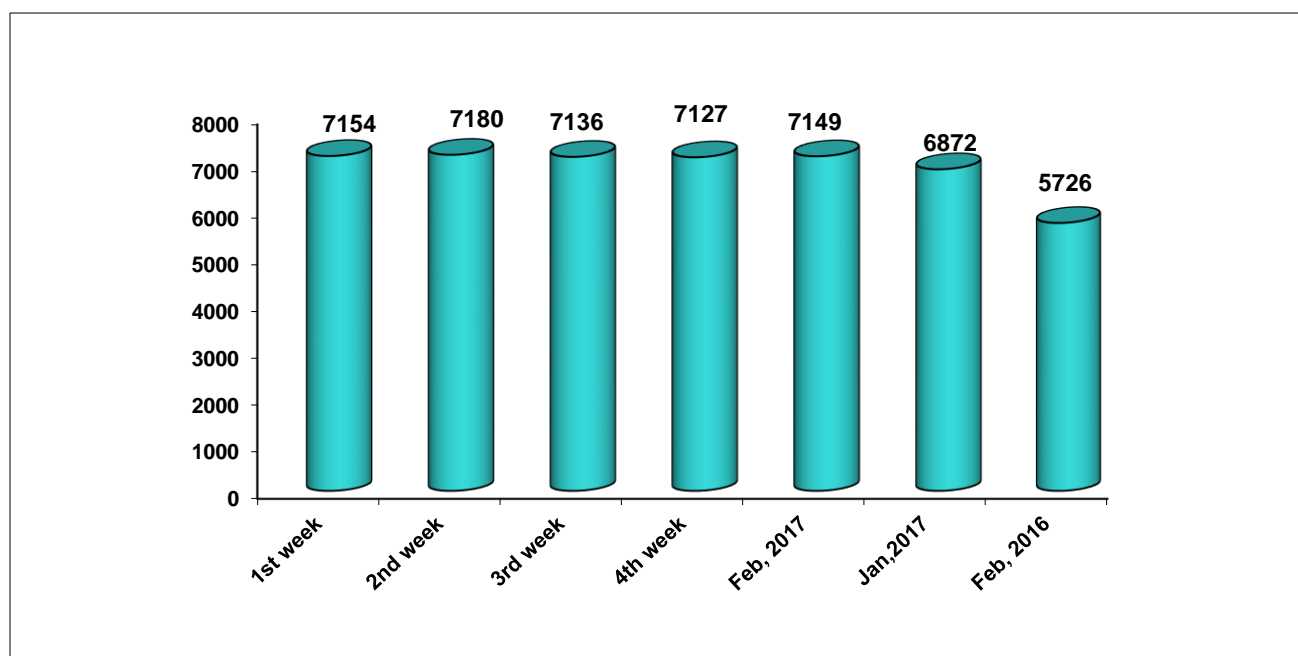
(Rs per 40 kg)



Source: Market Report.

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

(Rs per 40 Kg)



Source: The Karachi Cotton Association

The graph above indicates that the prices of raw cotton witnessed rising tendency during the month of February, 2017. The prices were averaged at Rs. 7,149 per 40 kg as compared to Rs. 6,872 in January, 2017. However, the prices in February, 2016 were recorded much lower at Rs. 5,726 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	6872	5758
February	7149	5726
March	-	5616
April	-	5785
May	-	5986
June	-	5993
July	-	6558
Average	6735	5682

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	9917	1686
3.	Imports	987	168	2453	417
	Total	15,684	2665	12768	2169
4.	Mill Consumption	14727	2504	11533**	1961**
5.	Exports	559	95	287	49
6.	End Season Stocks	398	66	948	159
	Total	15,684	2665	12768	2169

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 February, 2017 increased to Rs. 1242 and Rs. 1409 per bundle of 4.54 kg respectively as compared to Rs.1218 and Rs.1384 per bundle in January,2017. However, the same counts in the corresponding month of the last year were recorded at Rs. 1057 and Rs. 1256 per bundle respectively. Details are given as below:

Table-8: DOMESTIC COTTON YARN PRICES DURING FEBRUARY, 2017

(Rs. per bundle of 4.54 kg)

Count/ Week	W		E		K		February 2017	January 2017	February 2016
	1	11	III	IV					
10/1	907	933	933	933	927	901	819		
16/1	1168	1183	1184	1185	1180	1157	970		
21/1	1225	1247	1247	1247	1242	1218	1057		
22/1	1235	1265	1265	1265	1258	1225	1067		
26/1	1329	1344	1344	1344	1340	1324	1152		
28/1	1350	1350	1350	1350	1350	1350	1200		
30/1	1397	1413	1413	1413	1409	1384	1255		
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	1304	1348	1348	1348	1337	1290	1158		

Source: Pakistan Yarn Merchants Association, Karachi.

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

(Value = Rs. In Millions)

Commodities	Unit	January 2017		December 2016		January 2016		% Change Over Dec 2016		July-January 2017		July-January 2016		% Change	
		Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val
Raw Cotton	M.T	707	112	1544	248	1445	223	-54.2	-54.8	22011	3866	47404	7643	-53.6	-49.4
Cotton Yarn	M.T	36655	9709	41565	10952	29921	9312	-11.8	-11.3	275122	77815	260375	82005	5.7	-5.1
Bed Wear	M.T	27770	18141	27453	17610	28202	17774	1.1	3.0	204663	128276	187277	121250	9.3	5.8
Towels	M.T	13520	6652	13254	6513	15140	6751	2.0	2.1	99725	45993	105310	48782	-5.3	-5.7
Cotton Cloth	Th.SQ	147379	19454	121457	15930	187781	20097	21.3	22.1	1108826	129131	1286372	135349	-13.8	-4.6
Synthetic Fiber	Th.SQ	9012	2298	8244	2141	22315	2678	9.3	7.3	73292	13010	173024	18038	-57.6	-27.9
Knitwear	Th.Do	12748	20908	12557	21339	14955	21676	1.5	-2.0	72166	145809	68834	145248	4.8	0.4
Readymade Garments	Th.Do	2771	21156	2897	22111	2923	21970	-4.3	-4.3	18834	136236	18296	129915	2.9	4.9

Source: Pakistan Bureau of Statistics, Karachi.

The table above indicates that the exports of raw cotton remained eased but its related produce witnessed mixed trend in January, 2017. The raw cotton exports decreased to 707 metric tons valuing Rs. 112 million in January, 2017 as compared to 1544 metric tons amounting Rs. 248 million in December, 2016. However, the exports in the corresponding month last year recorded at 1445 metric tons valuing Rs. 223 million. It shows decrease of 54.2 % in quantity and 54.8% in value over December, 2016.

Table-10: IMPORTS OF TEXTILE GROUP COMMODITIES DURING JANUARY, 2017.

(Value = Rs. In Millions)

Commodities	Unit	January 2017		December 2016		January 2016		% Change Over Dec 2016		July-January 2017		July-January 2016		% Change	
		Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val	Qty	Val
Raw Cotton	M.T	36,654	6,031	13,914	2,400	56,997	10,677	163.4	151.3	121,752	20,844	225,901	43,142	-46.1	-51.7
Synthetic Fiber	M.T	22,422	3,984	18,861	3,105	15,800	3,594	18.9	28.3	135,238	26,240	144,776	30,701	-6.6	-14.5
Synthetic & Artificial Silk Yarn	M.T	35,884	6,728	34,277	6,369	22,198	5,217	4.7	5.6	197,441	39,629	162,331	37,710	21.6	5.1
Worn Clothing	M.T	31,671	1,236	32,629	1,262	39,023	1,505	-2.9	-2.0	234,375	9,224	280,700	9,611	-16.5	-4.0
Other Textile Items	-	-	12,308	-	12,425	-	11,088	-	-0.9	-	77,143	-	72,950	-	5.8

Source: Pakistan Bureau of Statistics, Karachi.

The table above shows that the imports of raw cotton during January, 2017 witnessed rising trend and recorded at 36654 metric tons amounting to Rs. 6031 million as compared to 13914 metric tons valuing Rs. 2400 million in December, 2016. Whereas, the imports in January, 2016 recorded at 56997 metric tons amounting to Rs. 10677 million. It shows an increase of 163.4% in quantity and 151.3% in value, over December, 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	
PUNJAB					
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
SINDH					
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	January 2017
01.	Actual average export price per 40 Kgs	6337 (Rupees) or 68.80 (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)	5912
04.	Value of 80 Kgs of cotton seed (b)	3436
05.	Ginning charges for 120 Kgs of seed cotton	600
06.	Value of 120 Kgs of seed cotton (c) (item 3+4-item 5)	8748
07.	Seed cotton price per 40 Kgs (item 6/3)	2916

Notes:

- One US\$ = 104.45 Pak rupees.
- Average price of cotton seed for January, 2017 in Rahim yar khan market was Rs. 1718 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	January 2017
01.	Actual average cif (Karachi) Price, per 40 kgs	Rs.6582 (Rupees) or 77.46 (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)	7007
04.	Value of 80 Kgs of cotton seed (a)	3436
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)	9843
07.	Seed cotton price (item 6/3)	3281

Note:

- Average price of cotton seed for January, 2017 in Rahim Yar Khan market was Rs. 1718 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 remained declined for fifth consecutive season and placed at 2.8 million hectares in 2016-17, due to high production cost and better return from competing crops. Similarly, cotton production also decreased by 0.3 percent to 4.73 million tons in 2016-17, as compared to 4.75 million tons in 2015-16, despite the 7.2 percent gain in average yield at 1665 kg/hectare in 2016-17 as against 1553 kg/hectare recorded in 2015-16. Whereas consumption in China is forecast to grow by 2 percent to 7.6 million tons in 2016-17 as against 7.4 million tons in 2015-16. China 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	4.74
Consumption	8.63	8.29	7.52	7.48	7.44	7.59
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	9.27

Source: Cotton this Month 1st March, 2017.

2. INDIA

Cotton area in India, the largest cotton producing country, fell by 11.6 percent to 10.5 million hectare in 2016-17 as compared to 11.9 million hectares in 2015-16, due to competition from food crops. However, the average yield recovered by 16 percent to 553 kg/ha due to favorable monsoon conditions. As a result production in 2016-17 is estimated to rise by 2 percent to 5.8 million tons as compared to 5.7 million tons during last season. Whereas, mill use in India is projected to decline by 03 percent to 5.1 million tons in 2016-17 due to currency crises and high domestic cotton prices.

3. INTERNATIONAL COTTON SITUATION 2016-17

The world cotton area in 2016-17 declined by 3.6 percent to 29.2 million hectare as compared to 30.3 million hectare in 2015-16, which is the lowest area under cotton since 2009-10. While average yield is projected to rise by 12 percent to 776 Kg/ha in 2016-17 as compared to 693 kg/ha recorded in 2015-16. As a result, world cotton production is predicted to increase by 8.0 percent to 22.7 million tons in 2016-17 as compared to 21 million recorded in 2015-16.

World cotton consumption is expected to remain stable at 24.1 million tons in 2016-17 as high price discouraged growth in demand. The world imports in 2016-17 are projected to increase by 4.0 percent at 7.84 million tons as against 7.5 million tons in 2015-16. Similarly, world cotton export also showed an increase of 5.3 percent at 7.9 million metric tons as compared to 7.5 million tons recorded in 2015-16. The world cotton ending stocks are projected to decline by 6.8 percent to 17.9 million tons in 2016-17 as compared to 19.2 million tons registered in 2015-16.

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

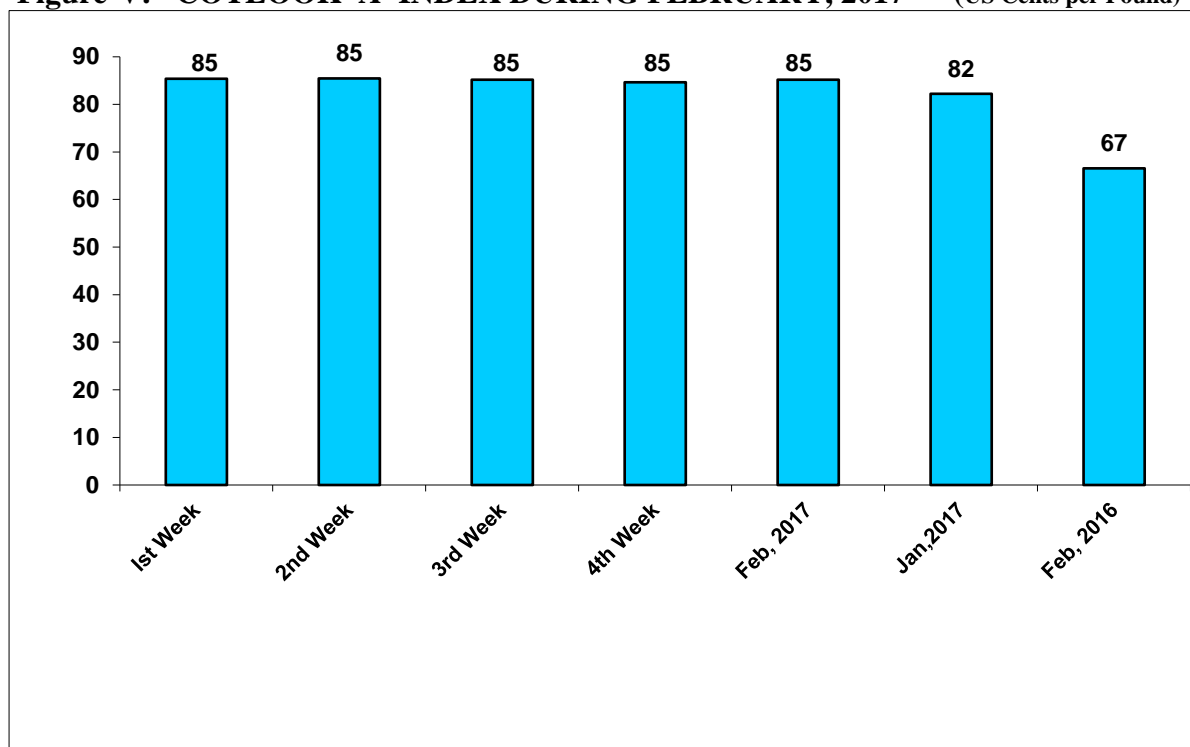
Heads	2012-13 Estimated	2013-14 Estimated	2014-15 Projected	2015-16 Projected	2016-17 Projected	% Change in 2016-17 over 2015-16
Beginning stock	15.36	18.51	20.60	22.34	19.25	-13.75
Production	26.78	26.17	26.20	21.03	22.69	7.89
Consumption	23.78	24.00	24.44	24.13	24.05	-0.03
Exports	10.06	9.00	7.80	7.53	7.85	4.25
Imports	10.20	8.93	7.78	7.54	7.85	4.25
Ending Stock	18.51	20.60	22.34	19.25	17.88	-7.12

Source: Cotton this Month 1st March, 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
PRODUCTION					
India	6.29	6.76	6.56	5.75	5.80
China	7.30	6.95	6.50	4.75	4.74
USA	3.77	2.81	3.55	2.81	3.69
Pakistan	2.00	2.07	2.30	1.51	1.69
Brazil	1.31	1.73	1.56	1.29	1.42
Uzbekistan	1.00	0.91	0.88	0.83	0.77
Others	5.11	4.92	4.83	4.09	4.58
World Total	26.78	26.17	26.20	21.03	22.69
CONSUMPTION					
China	8.29	7.52	7.48	7.44	7.59
India	4.73	5.06	5.26	5.27	5.12
Pakistan	2.22	2.47	2.49	2.26	2.23
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	1.40
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	3.65	3.52
World Total	23.78	24.00	24.44	24.13	24.05

Source: Cotton this Month, 1st March, 2017.

Figure-V: COTLOOK 'A' INDEX DURING FEBRUARY, 2017 (US Cents per Pound)



Source: Cotton Outlook.

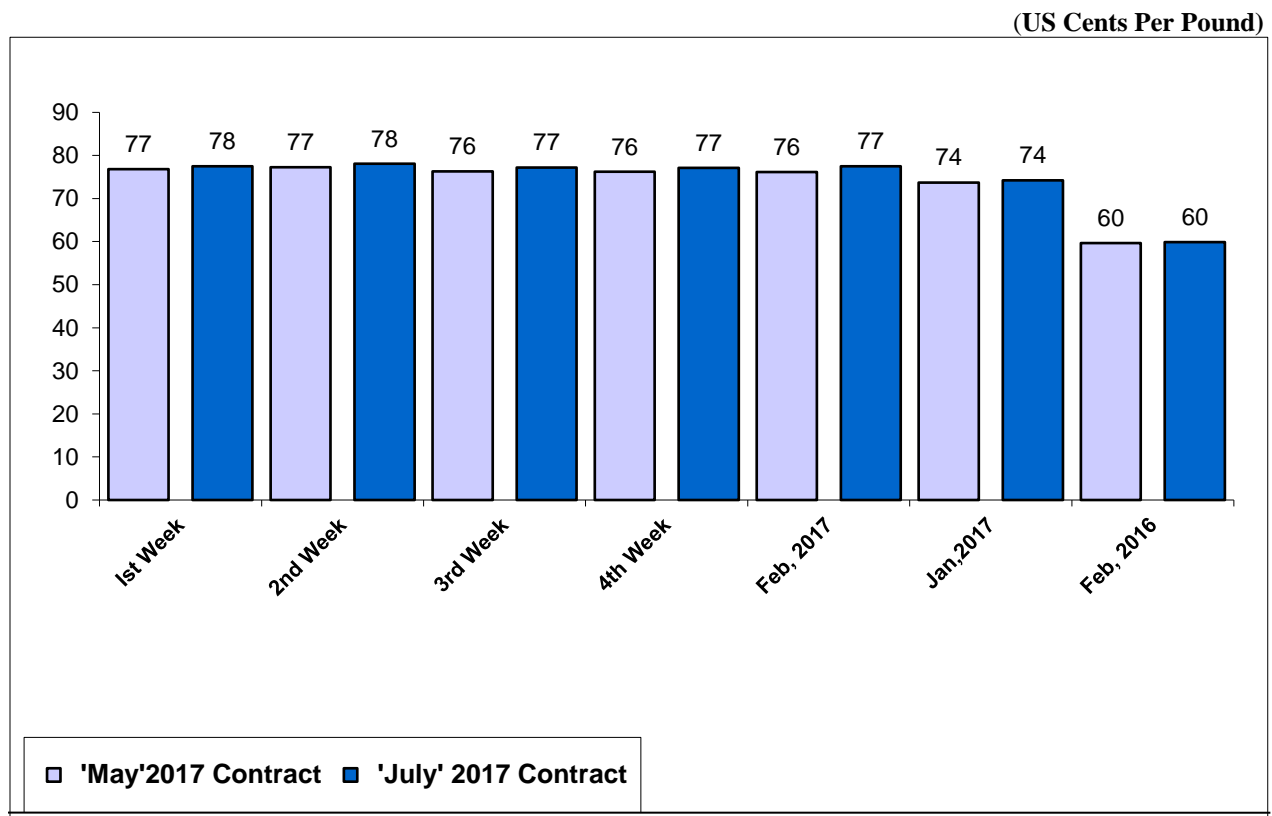
The graph above shows that 'A' index prices during February 2017, raised to 85 cents per pound as compared to 82 cents per pound recorded in January, 2016. However, the prices in February, 2016 were recorded lower at 66 cents per pound. The available Cotlook 'A' index in 2016-17 as compared to 2015-16 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	82.22	68.81
February	85.16	66.55
March	-	65.38
April	-	69.17
May	-	70.27
June	-	74.01
July	-	80.72
Average	80.32	70.36

Source: Cotton Outlook.

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



Source: Cotton Outlook

The graph above indicates that the nearby May and July, 2017 contract during February, 2017 posted gains to 76.0 cents per pound as compared to 74.0 cents in previous month. However, the price of same contract in the corresponding month of last year recorded lower at 60.0 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

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

Kilogram	=	2.2046 Pounds = 1.0717 Seers
Pounds	=	453.5924 Grams = 0.4536 Kilogram
Maund	=	82.2858 Pounds = 37.3242 Kilograms = 0.0373 Metric Ton
Metric Ton	=	2204.6229 Pounds= 26.7923 Maunds = 1000 Kilograms
Kantar	=	50 Kilograms = 110.2334 Pounds = 1.3396 Maunds
Quintal	=	1.9684 Cwt. = 2.6792 Maunds = 100 Kilograms

Hundred weight (CWT)	=	112 Pounds = 50.8029 Kilograms
Yard	=	0.9144 Meter
Square Yard	=	0.8361 Square Meter
Meter	=	3.2808 Feet = 1.0936 Yards
Square Meter	=	1.19603 Square Yards
Acre	=	4840 Square Yards = 0.4047 Hec. = 4046.7240 Sq. Meter
Hectare	=	2.4710 Acre = 11959.6400 Sq. Yards = 999.4550 Sq. Meter
Bale of Raw Cotton	=	375 Pounds = 170 Kilograms = 0.170 Metric Ton
Bale of Cotton Yarn	=	400 Pounds=181.4388 Kilograms=0.1814388 Metric Ton
Bale of Cotton Cloth	=	1500 Sq. Yards = 1254.1500 Sq. Meter
Lbs/Acre.	=	0.8922 X (Kgs. /Hectare)
Kgs/Hectare	=	1.1208 X (Lbs/Acre) = 92.2281 X (Mds. /acre)
Maund/Acre	=	0.01084268 X (Kgs. /Hectare)