

**F. No. 3-1/ 2015-16-CFCC-E&S**  
**GOVERNMENT OF INDIA**  
**MINISTRY OF AGRICULTURE**  
**DEPARTMENT OF AGRICULTURE & COOPERATION**  
**(CROP FORECAST COORDINATION CENTRE)**

Room No. 344-A, Krishi Bhawan, New Delhi

Dated: 25.08.2015

**SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 21.08.2015.**

**Summary observations of the Group on Agenda Items**

- **Details of the mean maximum temperature during the week 13<sup>th</sup> August to 19<sup>th</sup> August, 2015, were as under:-**
  - *Above normal by 2 to 4°C over many parts of Karnataka, Konkan & Goa, Rayalaseema and Kerala, some parts of Tamil Nadu and isolated pockets of Madhya Maharashtra, East Uttar Pradesh, East Madhya Pradesh and Odisha.*
  - *Below normal by 2 to 4°C over isolated pockets of Arunachal Pradesh.*
  - *Normal to near normal in remaining parts of the country.*
- **Details of the mean minimum temperature during the week 13<sup>th</sup> August to 19<sup>th</sup> August, 2015, were as under:-**
  - *Above normal by 2 to 4°C over isolated pockets of South Interior Karnataka and Rayalseema.*
  - *Below normal by 2 to 4°C over some parts of Jammu & Kashmir and isolated pockets of Arunachal Pradesh, West Madhya Pradesh and Kerala.*
  - *Normal to near normal in remaining parts of the country.*
- ***In the monsoon season, weekly Rainfall for the country as a whole during the week 13<sup>th</sup> August to 19<sup>th</sup> August, 2015 was 10% lower than Long Period Average (LPA). Rainfall (% departure from LPA) in the four broad geographical divisions of the country during the above period was higher by 23% East & North East India and lower by 21% in Central India, 19% in North West India and 15% in South Peninsula.***
- ***In the monsoon season, cumulative Rainfall for the country as a whole during the period 1<sup>st</sup> June to 19<sup>th</sup> August, 2015 was 9% lower than Long Period Average (LPA). Rainfall (% departure from LPA) in the four broad geographical divisions of the country during the above period was lower by 21% in South Peninsula, 10% in Central India and 9% in East & North East India and the same to normal in North West India***
- ***Out of 36 met sub-divisions, 22 met sub-divisions constituting 69% of the total area of the country has received excess/normal rainfall and 14 met sub-divisions constituting 31% of the total area of the country has received deficient rainfall.***

- *Out of 613 districts, 104 districts (17%) received excess, 249 districts (41%) received normal, 231 districts (38%) received deficient and 29 districts (5%) received scanty rainfall during the above period.*
- *Central Water Commission monitors 91 major reservoirs in the country which have total live capacity of 157.80 BCM at Full Reservoir Level (FRL). Current live storage in these reservoirs as on 20<sup>th</sup> August, 2015 was 91.07 BCM as against 103.59 BCM on 20.08.2014 (last year) and 98.77 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 88% of the last year's storage and 92% of the normal storage.*
- *As per latest information available on sowing of Kharif crops, around 88.6% of the normal area under Kharif crops has been sown upto 21.08.2015. Area sown under all Kharif crops taken together has been reported to be 938.41 lakh hectares at All India level as compared to 929.48 lakh hectares in the corresponding period of last year.*
- *Area coverage was higher by 0.9 lakh ha. under Rice, 1.2 lakh ha. under Maize, 3.6 lakh ha. under Urad, 6.4 lakh ha. under Soyabean and 2.1 lakh ha. under Sesamum. Area coverage was lower by 4.7 lakh ha. under Jowar, 5.1 lakh ha. under Bajra, 3.0 lakh ha. under Tur, 6.4 lakh ha. under Groundnut, 1.1lakh ha. under Sunflower, 1.1 lakh ha. under Castorseed and 2.8 lakh ha. under Cotton as compared to average area (as on date).*
- *The All Commodities inflation rate based on Wholesale Price Index (WPI) on a point to point basis for the month of July, 2015, decreased to (-)4.05% from the level of (-)2.40 in the month of June, 2015. The inflation rate was 5.41% during the corresponding period of last year.*
- *The Primary Articles inflation rate based on Wholesale Price Index (WPI) on a point to point basis for the month of July, 2015, decreased to (-) 3.66% from the level of (-) 0.76% in the month of May, 2015. The inflation rate was 6.78% during the corresponding period of last year.*
- *The inflation for non-food items has decreased to (-)0.74% from the previous month's level of 1.06% and for the food items to (-) 1.16% from the previous month's level of 2.88%.*
- *Among the foodgrains, the inflation for Wheat has increased to 1.96% from the previous month's level of 1.64% and Pulses to 35.75% from the previous month's level of 33.67%. The inflation for Cereals has decreased to (-) 1.57% from the previous month's level of (-) 0.43% and Rice to (-) 2.86% from the previous month's level of (-) 1.74%.*
- *Availability position of seeds and fertilizers has been found satisfactory.*

## 1. Monsoon Season (June – September) during the week ending on 19<sup>th</sup> August, 2015

Sub-division-wise daily distribution of rainfall and minimum temperature are shown in Table-1.1

- **Rainfall during the week (13<sup>th</sup> August, 2015 to 19<sup>th</sup> August, 2015)** Rainfall was excess/normal in 16 and deficient/scanty in 20 out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01<sup>st</sup> June to 19<sup>th</sup> August, 2015)** Rainfall was excess/normal in 22 and deficient in 14 out of 36 meteorological sub-divisions.

**Table-1.2: Weekly and Cumulative Rainfall in four regions of the country<sup>1</sup>**

Region	Week Ending (19.08.2015)				Cumulative (01.06.15 to 19.08.15)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	40.7	50.0	-19	N	431.2	431.8	0	N
Central India	56.4	71.1	-21	D	622.7	690.6	-10	N
South Peninsular India	36.1	42.4	-15	N	391.9	494.3	-21	D
East & North-East India	101.7	82.4	23	E	914.1	1008.1	-9	N
Country as a whole	54.8	60.8	-10	N	564.9	623.1	-9	N

E: Excess, N: Normal, D: Deficient, S: Scanty, NR: No Rain.

Source: India Meteorological Department, New Delhi

**Table – 1.3: Category wise comparative distribution of Sub-division (cumulative rainfall) and All-India Percentage Rainfall Departure for the last five years since: 1<sup>st</sup> June to**

No. of Sub-Divisions with rainfall	<i>For the period from 1<sup>st</sup> June to</i>					
	18 AUG 2010	17 AUG 2011	22 AUG 2012	21 AUG 2013	20 AUG 2014	19 AUG 2015
Excess	10	06	00	18	00	04
Normal	19	26	20	13	19	18
<b>Total</b>	<b>29</b>	<b>32</b>	<b>20</b>	<b>31</b>	<b>19</b>	<b>22</b>
Deficient	07	04	14	05	14	14
Scanty	00	00	02	00	03	00
No rain	00	00	00	00	00	00
<b>Total</b>	<b>07</b>	<b>04</b>	<b>16</b>	<b>05</b>	<b>17</b>	<b>14</b>
Data Inadequate	00	00	00	00	00	00
<b>TOTAL</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>
<b>All-India % Rainfall Deviation</b>	<b>(-) 5%</b>	<b>(-) 1%</b>	<b>(-) 14%</b>	<b>14%</b>	<b>(-) 18%</b>	<b>(-) 9%</b>

Source: IMD

1. North-west India - Uttar Pradesh, Rajasthan, Haryana, Chandigarh and Delhi, Punjab, Uttaranchal, Himachal Pradesh, and Jammu and Kashmir.  
Central India - Madhya Pradesh, Chhattisgarh, Maharashtra and Gujarat

South Peninsula - Andhra Pradesh, Karnataka, Tamil Nadu & Pondicherry, Kerala and Lakshadweep.

North-east India - Bihar, Jharkhand, Orissa, West Bengal, Sikkim, Assam, Arunachal Pradesh, Meghalaya, Nagaland, Manipur, Mizoram, Tripura, and Andaman and Nicobar Islands.

Table: 1.1

METEOROLOGICAL SUB-DIVISIONWISE DAILY DISTRIBUTION OF RAINFALL-2015								
Sr.No.	SUB-DIVISIONS	RAINFALL						
		13 AUG.	14 AUG.	15 AUG.	16 AUG.	17 AUG.	18 AUG.	19 AUG.
1	ANDAMAN & NICOBAR ISLANDS	FWS	SCT	ISOL	SCT	SCT	DRY	DRY
2	ARUNACHAL PRADESH	FWS	FWS	WS	WS	WS*	WS*	WS*
3	ASSAM & MEIGHALAYA	SCT	FWS	FWS*	FWS*	FWS	WS**	WS**
4	NAGA,MANI,MIZO.& TRIPURA	SCT	SCT	SCT	ISOL	FWS	FWS	WS*
5	SUB-HIM.WEST BENGAL & SIKKIM	FWS	FWS	SCT	FWS	FWS*	WS*	WS*
6	GANGGETIC WEST BENGAL	FWS	SCT	SCT	ISOL	SCT	FWS	SCT
7	ODISHA	WS	SCT	SCT	SCT	FWS	FWS	SCT
8	JHARKHAND	SCT	SCT	ISOL	ISOL	FWS*	FWS	FWS
9	BIHAR	ISOL	ISOL	ISOL	FWS*	FWS*	FWS	WS*
10	EAST UTTAR PRADESH	ISOL	ISOL	ISOL	FWS*	FWS	FWS	WS
11	WEST UTTAR PRADESH	ISOL	ISOL	SCT	FWS*	SCT	SCT	SCT
12	UTTARAKHAND	SCT	ISOL	SCT	WS	SCT	WS*	SCT
13	HARYANA CHANDIGARH & DELHI	ISOL	SCT	ISOL	SCT	ISOL	ISOL	SCT
14	PUNJAB	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
15	HIMACHAL PRADESH	SCT	SCT	SCT	FWS*	SCT	ISOL	ISOL
16	JAMMU & KASHMIR	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	SCT	SCT	ISOL	FWS**	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	SCT	SCT	SCT	FWS*	SCT	SCT	ISOL
19	WEST MADHYA PRADESH	FWS	FWS*	SCT	SCT	SCT	FWS	SCT
20	EAST MADHYA PRADESH	FWS	FWS	FWS	SCT	FWS	SCT	FWS
21	GUJARAT REGION D.D. & N.H.	SCT	SCT	ISOL	SCT	ISOL	SCT	ISOL
22	SAURASTRA KUTCH & DIU	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	WS	WS	WS	WS	WS	FWS	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	SCT	SCT	ISOL	ISOL	ISOL	FWS*	ISOL
26	VIDARBHA	WS*	WS*	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	WS	FWS	SCT	ISOL	WS*	SCT	ISOL
28	COASTAL ANIDHRA PRADESH	FWS*	ISOL	ISOL	ISOL	SCT	SCT	ISOL
29	TELANGANA	FWS*	SCT	ISOL	SCT	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	SCT	SCT	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	SCT	FWS**	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	FWS	ISOL	SCT
33	NORTH INTERIOR KARNATAKA	FWS	SCT	ISOL	SCT	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	WS	SCT	SCT	SCT	FWS*	FWS	FWS*
35	KERALA	WS	WS	FWS	FWS	FWS	FWS	WS*
36	LAKSHADWEEP	WS	SCT	SCT	ISOL	WS	FWS	WS

LEGENDS:			
WS	WIDE SPREAD / MOST PLACES (More than 75%)	FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)
SCT	SCATTERED / FEW PLACES (26% to 50%)	ISOL	ISOLATED (Less than 25%)
			DRY
			DRY (Nil Rainfall)
*	ACTIVE (R/F 1 <sup>st</sup> - 4 times the normal & WS/FWS, at least 2 stations should be 5 cm. along west coast & 3 cm. elsewhere)	**	VIGOROUS (R/F More than 4 times the normal & WS/FWS, at least 2 stations should be 8 cm. along west coast & 5 cm. elsewhere)

## 2. Reservoir Status (For the week ending on 20.08.2015)

- **The Central Water Commission** monitors the live storage of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **157.80** billion cubic meters (BCM), which is about 74% of total reservoir capacity in the country.
- Water stock in 91 major reservoirs **increased to 91.07 BCM** from the previous week's level of 86.14 BCM. Current storage is **lower** than the last year's position of 103.59 BCM and the average of last 10 year's storage of 98.77 BCM.

**Table – 2.1 : For 91 major reservoirs of the country**

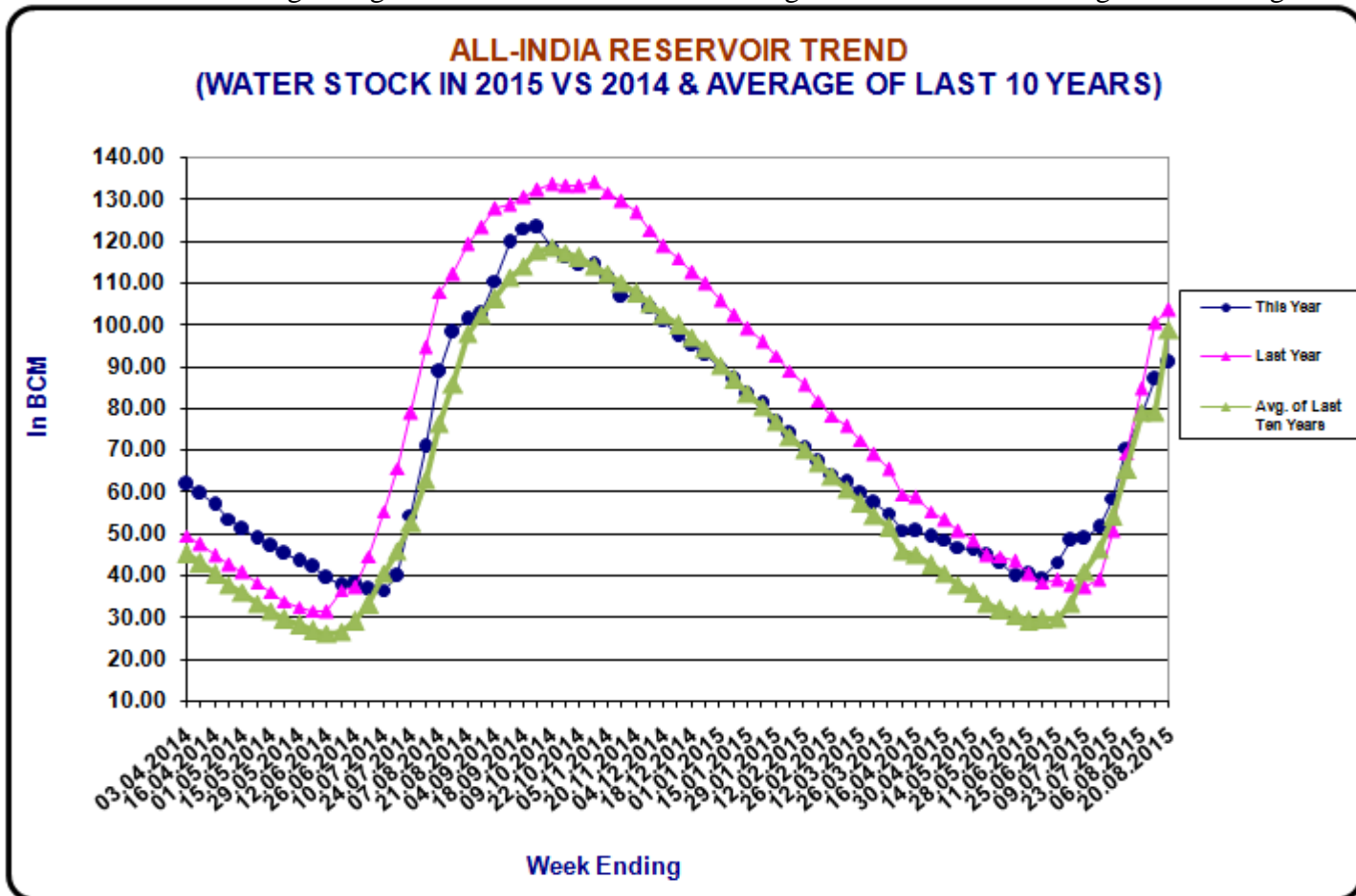
Period	Current Year's Storage as % of FRL*	Current Year's storage as % of last year	Current year as a % of 10 years average level
Current Week	58	88	92
Last Week	55	86	95

The percentage to live capacity at FRL was 66% on 20/08/2014, 71% on 20/08/2013, 51% on 16/08/2012 and 67% on 18/08/2011.

\* Live storage as % to Full Reservoir Level (FRL) of 157.80 Billion Cub. Mts.(BCM)

Source: CWC

There were 52 reservoirs having storage more than 80%, 23 reservoirs having storage between 50% to 80% of Normal Storage, 09 reservoir having storage between 30% to 50% of Normal Storage and 07 reservoir having storage 30% or below of Normal Storage and 02 reservoir having no live storage.



Source: Central Water Commission

### 3. Fertilizer Position:

**Table – 3.1: Requirement, Availability, Sales and Stock position of Major Fertilizers Urea, DAP, MOP, Complex and SSP during Kharif 2015 (As on 20.08.2015)**

Availability / Sale / Closing Stock	Urea	DAP	MOP	Complex	SSP
Opening Stock as on 01.04.2015	130	224	289	407	256
Requirement for Kharif, 2015	15490	5093	1831	3386	3311
Requirement upto August, 2015	2776	782	308	952	501
Availability upto 20.08.2015	11569	4195	1162	3873	1845
Sales upto 20.08.2015	11077	3134	705	2798	1375
Closing Stock as 20.08.2015	492	1061	456	1076	470

(in '000 Tonne)

Source: Fertilizer Division (DAC) / Deptt. of Fertilizer

### 4. Pest & Diseases:

- Incidence of Citrus butterfly on Orange crop was reported in Trace to Moderate intensity village Loni, Block Arni of Yavatmal district of Maharashtra state. The crop was in 3 to 18 years old stage.
- Incidence of Girdle beetle and Semi looper on Soybean crop in Baran & Jhalawar districts of Rajasthan covering **an area of 2000 hectare** in Moderate intensity and Hairy caterpillar on Soybean crop in Mehsana, Patan, Sabarkantha & Banaskantha districts of Gujarat in Low intensity was recorded. Moderate intensity of Stem fly on Soybean was noticed in some pocket of Yavatmal District of Maharashtra in **21000 hectare** area. Moderate intensity of Yellow Mosaic Virus disease was also noticed in soybean growing area of Bhopal, Ratlam, Devas & Jabalpur Districts of Madhya Pradesh covering **an area of 1.25 Lakh hectare**. The crop was in vegetative to flowering stage. The in-charges of CIPMCs, Sriganganagar, Nagpur, Indore & Vadodra were instructed to keep close monitoring of further spread of this pest.
- Incidence of *Alternaria* leaf blight on Apple orchard was reported in trace to low intensity in Zainapura, Hyatpura and Arigam area of Shopian, Budgam and Pulwama districts of Kashmir. The crop was at Fruiting stage. The directorate instructed incharge of CIPMC, Kashmir that monitoring of mites and this disease may be intensified to prevent further spread of this disease.
- Incidence of pink bollworm on Bt cotton crop was recorded in low intensity in Mithapur, Chalala, Dharangad and Dhari villages of Amreli and Karjan village of Vadodra, Junagarh and Jamnagar districts of Gujarat state. Since the Bt cotton i.e., Bt gene (Cry1Ac) variety has been recorded ineffective against pink bollworm pest in some part of Gujarat. Hence, the incidence of this pest may further spread in other cotton growing areas in Gujarat. The crop was at vegetative to Flowering stage. The directorate instructed incharge of CIPMC, Baroda that monitoring of this pest may be intensified to prevent further spread of this disease.
- Low to moderate intensity of White fly on Cotton was reported in some villages of Fridkot, Bhatinda, Mansa, Muksar and Fazilka Districts of Punjab in 2 Lakh Hectare area. Cotton Leaf Curl Virus (CLCV) disease was also recorded in trace intensity in scattered fields all along the survey route. However, significant damage of black sooty mould was reported in areas where the population of white fly recorded in moderate level.
- Incidence of Bacterial blight on Pomegranate Orchard was recorded in severe intensity in few pockets of Nashik, Indapur of Maharashtra state. The Orchard was at fruiting stage.
- Incidence of *pyrilla* pest on sugarcane crop was noticed in Trace to Severe intensity in few pockets of Kawardha, Bodanla and Pandariya of Kabirdham district of Chhattisgarh state. The crop was at Vegetative to stem elongation stage.
- Incidence of Blister beetle on Maize crop was noticed in moderate intensity in some pockets of Reasi District of Jammu and Kashmir.
- No shortage of Chemical / Bio-pesticides was reported from any State / UT.

## 5. Crop Situation:

**Table: 5.1**

All India Crop Situation - Kharif (2015-16) as on 21.08.2015							
(In lakh hectares)							
Crop Name	Normal Area for whole Kharif Season	Normal Area as on date	Area sown reported			Absolute Change over (+/-)	
			This Year 2015	% of Normal for whole season	Last Year 2014	Normal as on date	Last Year
Rice	388.34	332.73	333.65	85.9	332.09	0.9	1.6
Jowar	27.27	22.65	18.00	66.0	17.25	-4.7	0.8
Bajra	84.80	71.05	65.93	77.7	61.47	-5.1	4.5
Maize	72.50	71.58	72.74	100.3	71.58	1.2	1.2
Total Coarse Cereals	204.41	179.73	167.69	82.0	162.27	-12.0	5.4
Total Cereals	592.75	512.46	501.34	84.6	494.36	-11.1	7.0
Tur	39.28	36.33	33.29	84.8	33.11	-3.0	0.2
Urad	23.78	22.37	25.96	109.2	22.75	3.6	3.2
Moong	24.46	22.33	23.16	94.7	19.64	0.8	3.5
Kulthi	2.67	0.34	0.26	9.7	0.34	-0.1	-0.1
Others	18.56	19.25	19.29	103.9	16.73	0.0	2.6
Total Pulses	108.75	100.62	101.96	93.8	92.57	1.3	9.4
Total Foodgrains	701.50	613.08	603.30	86.0	586.93	-9.8	16.4
Groundnut	44.97	39.97	33.55	74.6	35.12	-6.4	-1.6
Soyabean	104.00	106.32	112.75	108.4	109.36	6.4	3.4
Sunflower	3.39	1.87	0.76	22.5	1.54	-1.1	-0.8
Sesamum	18.62	13.42	15.48	83.1	14.49	2.1	1.0
Nigerseed	3.44	1.08	0.71	20.5	0.63	-0.4	0.1
Castorseed	10.77	6.12	5.01	46.5	7.31	-1.1	-2.3
Total Oilseeds	185.19	168.78	168.25	90.84	168.45	-0.5	-0.2
Cotton	114.96	113.08	110.23	95.9	118.81	-2.8	-8.6
Sugarcane	48.18	49.44	48.84	101.4	47.17	-0.6	1.7
Jute & Mesta	8.77	8.41	7.80	89.0	8.13	-0.6	-0.3
All- Crops	1058.59	952.80	938.41	88.6	929.48	-14.4	8.9

Source: Crops & TMOP Divisions, DAC