

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

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

Dated: 15.09.2015

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 11.09.2015.

Summary observations of the Group on Agenda Items

- **Details of the mean maximum temperature during the week 03rd September 09th September, 2015, were as under:-**
 - *Above normal by 4°C over some parts of Uttar Pradesh, Jharkhand and isolated pockets of Bihar, West Rajasthan and Telangana and by 2 to 4°C over Uttarakhand East Rajasthan, Gujarat region, Konkan & Goa, Madhya Maharashtra, Marathwada, North Interior Karnataka, many parts of Haryana, Delhi, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Central India, Saurashtra & Kutch, Vidarbha, Telangana, Kerala, some parts of Punjab, West Rajasthan, Odisha, Coastal Andhra Pradesh, Rayalaseema, Coastal & South Interior Karnataka and isolated pockets of Himachal Pradesh.*
 - *Normal to near normal in remaining parts of the country.*
- **Details of the mean minimum temperature during the week 03rd September to 09th September, 2015, were as under:-**
 - *Above normal by 2 to 4°C over isolated pockets of Madhya Maharashtra, South Interior Karnataka, Rayalaseema and Tamil Nadu.*
 - *Below normal by 2 to 4°C over isolated pockets of West Rajasthan.*
 - *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 03rd September to 09th September, 2015 was 55% 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 65% in South Peninsula and lower by 53% in East & North East India, 90% in North West India and 76% in Central India.***
- ***In the monsoon season, cumulative Rainfall for the country as a whole during the period 1st June to 09th September, 2015 was 15% 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 4% in East & North East India, 17% in North West India, 20% in Central India and 17% in South Peninsula.***

- *Out of 36 met sub-divisions, 19 met sub-divisions constituting 61% of the total area of the country has received excess/normal rainfall and 17 met sub-divisions constituting 39% of the total area of the country has received deficient rainfall.*
- *Out of 614 districts, 72 districts (12%) received excess, 248 districts (40%) received normal, 267 districts (44%) received deficient and 27 districts (4%) 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 10th September, 2015 was 92.38 BCM as against 120.06 BCM on 10.09.2014 (last year) and 114.69 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 77% of the last year's storage and 81% of the normal storage.*
- *As per latest information available on sowing of Kharif crops, around 95.6% of the normal area under Kharif crops has been sown upto 11.09.2015. Area sown under all Kharif crops taken together has been reported to be 1012.01 lakh hectares at All India level as compared to 994.49 lakh hectares in the corresponding period of last year.*
- *Area coverage was higher by 5.4 lakh ha. under Rice, 2.6 lakh ha. under Maize, 3.5 lakh ha. under Urad, 2.2 lakh ha. under Moong, 9.0 lakh ha. under Soyabean and 1.7 lakh ha. under Sesamum. Area coverage was lower by 3.9 lakh ha. under Jowar, 2.4 lakh ha. under Bajra, 2.3 lakh ha. under Tur, 6.3 lakh ha. under Groundnut, 1.1 lakh ha. under Sunflower and 1.0 lakh ha. Under Cotton as compared to average area (as on date).*
- *Availability position of seeds and fertilizers has been found satisfactory.*

1. Monsoon Season (June – September) during the week ending on 09th September, 2015

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

- **Rainfall during the week (03rd September, 2015 to 09th September, 2015)** Rainfall was excess/normal in 10, deficient/scanty in 25 and no rain in 1 out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st June to 09th September, 2015)** Rainfall was excess/normal in 19 and deficient in 17 out of 36 meteorological sub-divisions.

Table-1.2: Weekly and Cumulative Rainfall in four regions of the country¹

Region	Week Ending (09.09.2015)				Cumulative (01.06.15 to 09.09.15)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	3.7	36.3	-90	S	459.2	550.0	-17	N
Central India	13.5	55.4	-76	S	696.3	867.0	-20	D
South Peninsular India	50.9	30.8	65	S	497.6	599.9	-17	N
East & North-East India	34.4	72.8	-53	D	1179.8	1233.8	-4	N
Country as a whole	21.2	47.4	-55	S	661.4	775.7	-15	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: 1st June to

No. of Sub-Divisions with rainfall	<i>For the period from 1st June to</i>					
	08 SEP 2010	07 SEP 2011	12 SEP 2012	11 SEP 2013	10 SEP 2014	09 SEP 2015
Excess	13	08	02	08	01	01
Normal	18	24	21	22	23	18
Total	31	32	23	30	24	19
Deficient	05	04	13	06	12	17
Scanty	00	00	00	00	00	00
No rain	00	00	00	00	00	00
Total	05	04	13	06	12	17
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	1%	3%	(-) 8%	6%	(-) 11%	(-) 15%

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						
		03 SEP	04 SEP	05 SEP	06 SEP	07 SEP	08 SEP	09 SEP
1	ANDAMAN & NICOBAR ISLANDS	SCT	FWS	WS	SCT	ISOL	FWS	SCT
2	ARUNACHAL PRADESH	FWS	SCT	SCT	SCT	FWS*	SCT	ISOL
3	ASSAM & MEGHALAYA	FWS	FWS*	SCT	SCT	SCT	ISOL	ISOL
4	NAGA, MANI, MIZO & TRIPURA	FWS	FWS	ISOL	ISOL	SCT	ISOL	DRY
5	SUB-HIM. WEST BENGAL & SIKKIM	SCT	WS	FWS	FWS*	SCT	ISOL	ISOL
6	GANGETIC WEST BENGAL	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
7	ODISHA	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
8	JHARKHAND	ISOL	ISOL	ISOL	DRY	DRY	ISOL	ISOL
9	BIHAR	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	SCT	SCT	ISOL	ISOL	ISOL	DRY
13	HARYANA CHANDIGARH & DELHI	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	DRY	DRY	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
16	JAMMU & KASHMIR	ISOL	ISOL	DRY	ISOL	ISOL	DRY	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	DRY
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
21	GUJARAT REGION D.D. & N.H.	ISOL	ISOL	ISOL	ISOL	DRY	ISOL	ISOL
22	SAURASTRA KUTCH & DIU	DRY	ISOL	ISOL	DRY	DRY	ISOL	ISOL
23	KONKAN & GOA	ISOL	ISOL	DRY	DRY	DRY	ISOL	SCT
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
25	MARATHAWADA	DRY	SCT	SCT	SCT	FWS*	FWS*	WS*
26	VIDARBHA	ISOL	ISOL	ISOL	ISOL	ISOL	FWS*	ISOL
27	CHHATTISGARH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH	SCT	ISOL	SCT	ISOL	WS*	ISOL	SCT
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	SCT	FWS	ISOL
30	RAYALASEEMA	ISOL	ISOL	FWS**	ISOL	WS**	SCT	FWS*
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	SCT	ISOL	ISOL	SCT	ISOL
32	COASTAL KARNATAKA	ISOL	ISOL	ISOL	FWS	FWS	WS	WS*
33	NORTH INTERIOR KARNATAKA	DRY	ISOL	SCT	FWS	WS**	FWS	WS*
34	SOUTH INTERIOR KARNATAKA	ISOL	SCT	FWS**	FWS*	WS**	WS**	SCT
35	KERALA	ISOL	ISOL	FWS	WS*	WS*	WS*	WS*
36	LAKSHADWEEP	WS	SCT	DRY	WS	WS	WS	FWS
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)		

2. Reservoir Status (For the week ending on 10.09.2015)

- **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 **decreased to** 92.38 BCM from the previous week's level of 92.92 BCM. Current storage is **lower** than the last year's position of 120.06 BCM and the average of last 10 year's storage of 114.69 BCM.

Table – 2.1 : For 91 major reservoirs of the country

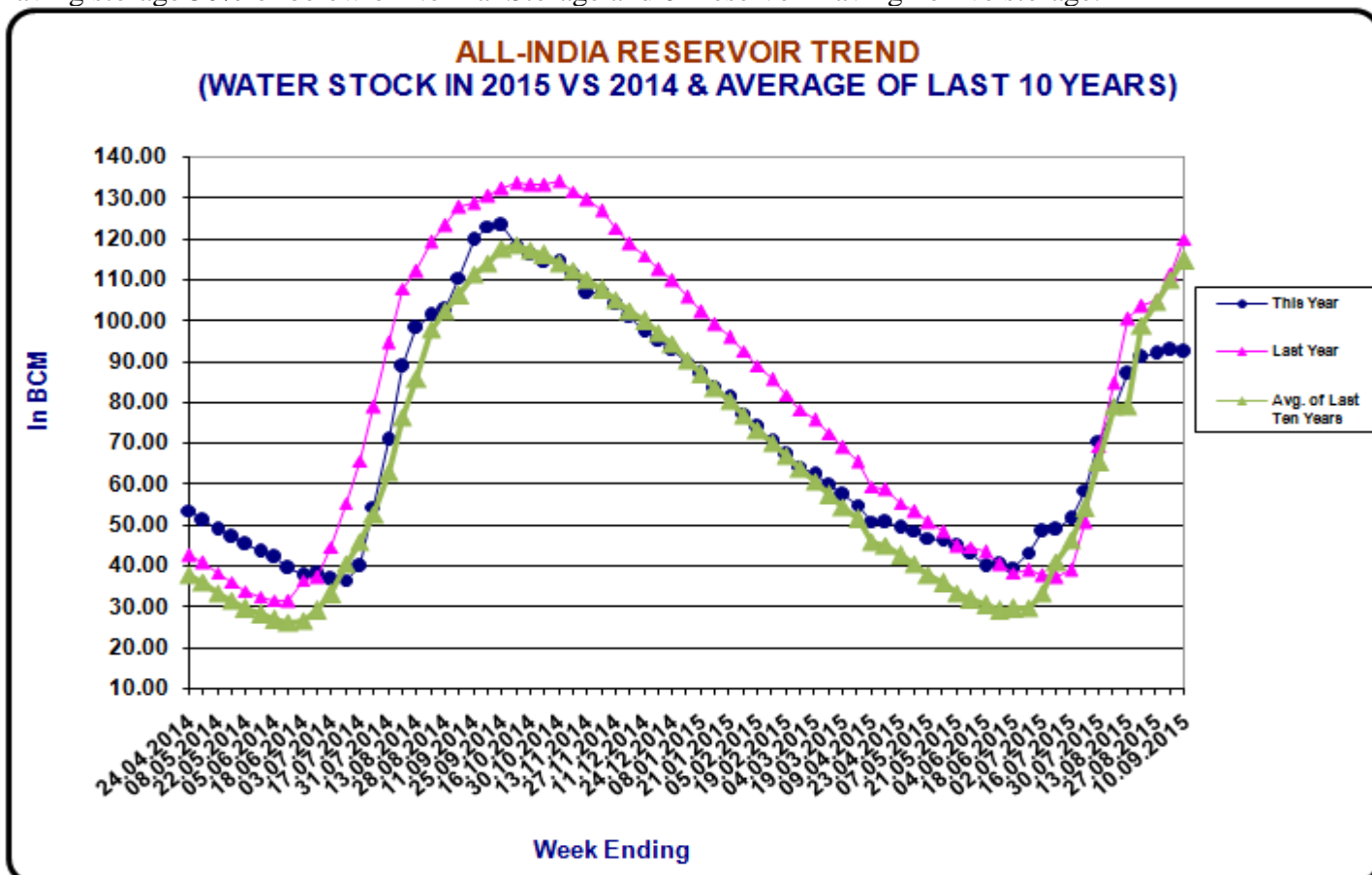
Period	Current Year's Storage as % of FRL*	Current Year's storage as % of last year	Current year as a % of 10 years average level
Current Week	59	77	81
Last Week	59	84	84

The percentage to live capacity at FRL was 76% on 10/09/2014, 83% on 10/09/2013, 67% on 10/09/2012 and 82% on 10/09/2011.

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

Source: CWC

There were 42 reservoirs having storage more than 80%, 27 reservoirs having storage between 50% to 80% of Normal Storage, 13 reservoir having storage between 30% to 50% of Normal Storage and 09 reservoir having storage 30% or below of Normal Storage and 01 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 10.09.2015)

(in '000 Tonne)

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	5273	3311
Requirement upto September, 2015	2245	790	280	955	427
Availability upto 10.09.2015	13692	4822	1397	4566	2123
Sales upto 10.09.2015	13259	3824	937	3519	1708
Closing Stock as 10.09.2015	433	998	460	1046	416

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

4. Pest & Diseases:

1. Incidence of Green Semi looper (*Chrysodeixis acuta*), White fly (*Bemisia tabaci*), Girdle beetle (*Oberia brevis*) & Yellow mosaic virus on Soybean crop in Baran, Jhalawar & Kota districts of Rajasthan covering **an area of 1.20 Lakh hectare**. Moderate intensity of Stem fly (*Melanagromyza sp.*) on Soybean was also noticed in some pocket of Yavatmal District. of Maharashtra in **21000 hectare** area. Moderate intensity of Green Semi looper (*Chrysodeixis acuta*), White fly (*Bemisia tabaci*), Girdle beetle (*Oberia brevis*) & Yellow mosaic virus on Soybean crop was also noticed in soybean growing area of Bhopal, Ratlam, Devas & Jabalpur Districts of Madhya Pradesh covering an area of **1.25 Lakh hectares**. The crop was in flowering to Pod formation stage. The in-charges of CIPMCs, Sriganganagar, Nagpur, Indore were instructed to keep close monitoring of further spread of this pest.
2. 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.
3. Infestation of white fly (*Bemisia tabaci*) was reported in alarming situation. The damage due to white fly (WF) was reported throughout special survey route and **intensity of this pest was exceeded the threshold limits** reporting in Malwa region including Fridkot, Firozpur, Patiala, Bhatinda, Mansa, Muktsar and Fazilka Districts of Punjab. It was also observed that completely dried crops due to high population of WF infestation which secreted the honey dew and in turn the presence of sooty mould was developed which blocked the photosynthesis in the affected fields and finally the plants dried up and this condition was prevalent in many fields in both the states and it **ranged between 0.5 to 30 percent**. Moderate intensity of White fly on cotton was also reported throughout special survey route from Faridabad, Hissar, Sirsa, Jind, to Rohtak Districts of Haryana. Moderate intensity of White fly (*Bemisia tabaci*) on Cotton was also noticed in Sriganganagar, Suratgarh, Hindmalkot Districts of Rajasthan. However, significant damage by black sooty mould was reported in areas where the population of white fly recorded in moderate level. Cotton Leaf Curl Virus (CLCV) disease was also recorded in trace intensity in scattered fields all along the survey route in Punjab and Rajasthan.
4. 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.
5. The advisories to manage the incidence of the above mentioned pests and diseases have been issued to State Government and concerned CIPMCs, by the Directorate.
6. 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 11.09.2015							
(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	363.04	368.41	94.9	366.51	5.4	1.9
Jowar	27.27	23.25	19.37	71.0	18.23	-3.9	1.1
Bajra	84.80	72.61	70.17	82.7	63.22	-2.4	7.0
Maize	72.50	73.34	75.90	104.7	74.68	2.6	1.2
Total Coarse Cereals	204.41	186.16	180.95	88.5	171.16	-5.2	9.8
Total Cereals	592.75	549.20	549.36	92.7	537.67	0.2	11.7
Tur	39.28	38.17	35.90	91.4	35.48	-2.3	0.4
Urad	23.78	23.88	27.39	115.2	24.78	3.5	2.6
Moong	24.46	22.95	25.11	102.6	20.76	2.2	4.4
Kulthi	2.67	0.49	0.42	15.7	0.58	-0.1	-0.2
Others	18.56	20.87	21.26	114.6	17.54	0.4	3.7
Total Pulses	108.75	106.36	110.08	101.2	99.14	3.7	10.9
Total Foodgrains	701.50	655.56	659.44	94.0	636.81	3.9	22.6
Groundnut	44.97	41.92	35.62	79.2	36.71	-6.3	-1.1
Soyabean	104.00	107.19	116.16	111.7	110.14	9.0	6.0
Sunflower	3.39	2.29	1.15	34.0	1.71	-1.1	-0.6
Sesamum	18.62	14.75	16.49	88.5	15.70	1.7	0.8
Nigerseed	3.44	1.79	1.53	44.4	1.50	-0.3	0.0
Castorseed	10.77	9.32	10.24	95.1	9.75	0.9	0.5
Total Oilseeds	185.19	177.26	181.19	97.83	175.52	3.9	5.7
Cotton	114.96	115.74	114.75	99.8	125.29	-1.0	-10.5
Sugarcane	48.18	49.76	48.84	101.4	48.74	-0.9	0.1
Jute & Mesta	8.77	8.41	7.80	89.0	8.13	-0.6	-0.3
All- Crops	1058.59	1006.72	1012.01	95.6	994.49	5.3	17.5

Source: Crops & TMOP Divisions, DAC