

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: 09.09.2015

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 04.09.2015.

Summary observations of the Group on Agenda Items

- **Details of the mean maximum temperature during the week 27th August to 02nd September, 2015, were as under:-**
 - *Above normal by 4^oC over isolated pockets of Madhya Maharashtra, Telangana and North Interior Karnataka and by 2 to 4^oC over Marathwada, Vidarbha, many parts of Gujarat Region, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Telangana, Karnataka, Coastal Andhra Pradesh and Kerala, some parts of Jharkhand, Gangetic West Bengal and Rayalseema and isolated pockets of East Rajasthan, Saurashtra Odisha and Tamil Nadu.*
 - *Below Normal by 2 to 4^oC over some parts of Arunachal Pradesh, Sub-Himalayan West Bengal and isolated pockets of Assam & Meghalaya.*
 - *Normal to near normal in remaining parts of the country.*
- **Details of the mean minimum temperature during the week 27th August to 02nd September, 2015, were as under:-**
 - *Above normal by 2 to 4^oC over isolated pockets of Interior Karnataka and Rayalseema.*
 - *Below normal by 2 to 4^oC over isolated pockets of Arunachal Pradesh, Assam, West Madhya Pradesh and Tamil Nadu.*
 - *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 27th August to 02nd September, 2015 was 17% 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 86% in East & North East India and lower by 28% in Central India, 78% in North West India and 43% in South Peninsula.***
- ***In the monsoon season, cumulative Rainfall for the country as a whole during the period 1st June to 02nd September, 2015 was 12% 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 22% in South Peninsula, 16% in Central India, 11% in North West India and 1% in East & North East India***

- *Out of 36 met sub-divisions, 19 met sub-divisions constituting 60% of the total area of the country has received excess/normal rainfall and 17 met sub-divisions constituting 40% of the total area of the country has received deficient rainfall.*
- *Out of 614 districts, 81 districts (13%) received excess, 250 districts (41%) received normal, 258 districts (42%) received deficient and 25 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 03rd September, 2015 was 92.92 BCM as against 111.26 BCM on 03.09.2014 (last year) and 110.14 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 84% of the last year's storage and 84% of the normal storage.*
- *As per latest information available on sowing of Kharif crops, around 94.3% of the normal area under Kharif crops has been sown upto 04.09.2015. Area sown under all Kharif crops taken together has been reported to be 998.67 lakh hectares at All India level as compared to 979.40 lakh hectares in the corresponding period of last year.*
- *Area coverage was higher by 4.9 lakh ha. under Rice, 2.6 lakh ha. under Maize, 3.5 lakh ha. under Urad, 2.0 lakh ha. under Moong, 8.4 lakh ha. under Soyabean and 1.6 lakh ha. under Sesamum. Area coverage was lower by 4.1 lakh ha. under Jowar, 2.5 lakh ha. under Bajra, 2.2 lakh ha. under Tur, 5.7 lakh ha. under Groundnut and 1.1 lakh ha. under Sunflower 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 02nd September, 2015

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

- **Rainfall during the week (27th August, 2015 to 02nd September, 2015)** Rainfall was excess/normal in 12 and deficient/scanty in 24 out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st June to 02nd 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 (02.09.2015)				Cumulative (01.06.15 to 02.09.15)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	8.1	37.4	-78	S	455.5	513.7	-11	N
Central India	44.3	61.4	-28	D	682.7	811.6	-16	N
South Peninsular India	20.0	35.2	-43	D	446.7	569.1	-22	D
East & North-East India	128.0	68.9	86	E	1148.2	1161.0	-1	N
Country as a whole	41.7	50.2	-17	N	640.7	728.3	-12	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>					
	01 SEP 2010	31 AUG 2011	05 SEP 2012	04 SEP 2013	03 SEP 2014	02 SEP 2015
Excess	13	08	01	11	01	02
Normal	16	24	23	19	22	17
Total	29	32	24	30	23	19
Deficient	07	04	11	06	11	17
Scanty	00	00	01	00	02	00
No rain	00	00	00	00	00	00
Total	07	04	12	06	13	17
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 1%	0%	(-) 10%	8%	(-) 15%	(-) 12%

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						
		27 AUG	28 AUG	29 AUG	30 AUG	31 AUG	01 SEP	02 SEP
1	ANDAMAN & NICOBAR ISLANDS	FWS	WS	FWS	FWS	FWS	WS	FWS
2	ARUNACHAL PRADESH	FWS	WS*	WS**	WS**	WS**	WS**	WS*
3	ASSAM & MEGHALAYA	FWS	FWS	FWS*	WS**	WS**	WS*	WS*
4	NAGA,MANI,MIZO.& TRIPURA	FWS*	SCT	SCT	SCT	WS*	WS*	FWS
5	SUB-HIM.WEST BENGAL & SIKKIM	FWS	WS*	SCT	WS*	WS**	WS**	FWS*
6	GANGETIC WEST BENGAL	ISOL	FWS	FWS	ISOL	FWS*	WS	FWS
7	ODISHA	WS	WS	SCT	SCT	SCT	FWS	SCT
8	JHARKHAND	SCT	ISOL	SCT	SCT	SCT	FWS	ISOL
9	BIHAR	SCT	SCT	ISOL	SCT	SCT	FWS	SCT
10	EAST UTTAR PRADESH	SCT	SCT	ISOL	ISOL	ISOL	ISOL	DRY
11	WEST UTTAR PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
12	UTTARAKHAND	SCT	FWS*	ISOL	ISOL	ISOL	ISOL	DRY
13	HARYANA CHANDIGARH & DELHI	DRY	ISOL	ISOL	DRY	DRY	DRY	ISOL
14	PUNJAB	DRY	ISOL	DRY	ISOL	ISOL	DRY	ISOL
15	HIMACHAL PRADESH	DRY	FWS	DRY	ISOL	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR	DRY	ISOL	DRY	DRY	ISOL	ISOL	DRY
17	WEST RAJASTHAN	DRY	DRY	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	SCT	FWS	SCT	SCT	SCT	SCT	ISOL
21	GUJARAT REGION D.D. & N.H.	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	DRY
22	SAURASTRA KUTCH & DIU	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
23	KONKAN & GOA	FWS	WS	WS	WS	WS	FWS	SCT
24	MADHYA MAHARASHTRA	ISOL	SCT	SCT	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL	SCT	SCT	ISOL	ISOL	ISOL	DRY
26	VIDARBHA	ISOL	SCT	FWS*	SCT	SCT	SCT	ISOL
27	CHHATTISGARH	WS*	FWS	FWS	SCT	SCT	FWS	FWS
28	COASTAL ANDHRA PRADESH	SCT	SCT	SCT	SCT	SCT	ISOL	SCT
29	TELANGANA	ISOL	SCT	FWS*	SCT	SCT	ISOL	ISOL
30	RAYALASEEMA	SCT	ISOL	DRY	ISOL	ISOL	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	DRY	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	FWS	WS	FWS	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	WS*	SCT	SCT	SCT	ISOL	ISOL	DRY
34	SOUTH INTERIOR KARNATAKA	WS*	FWS	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	SCT	FWS	ISOL	ISOL	ISOL	ISOL	ISOL
36	LAKSHADWEEP	ISOL	SCT	WS	DRY	FWS	WS	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/P 1 st - 4 times the normal & WS/FWS, at least 2 stations should be 5 cm. along west coast & 3 cm. elsewhere)			**	VIGOROUS (R/P 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 03.09.2015)

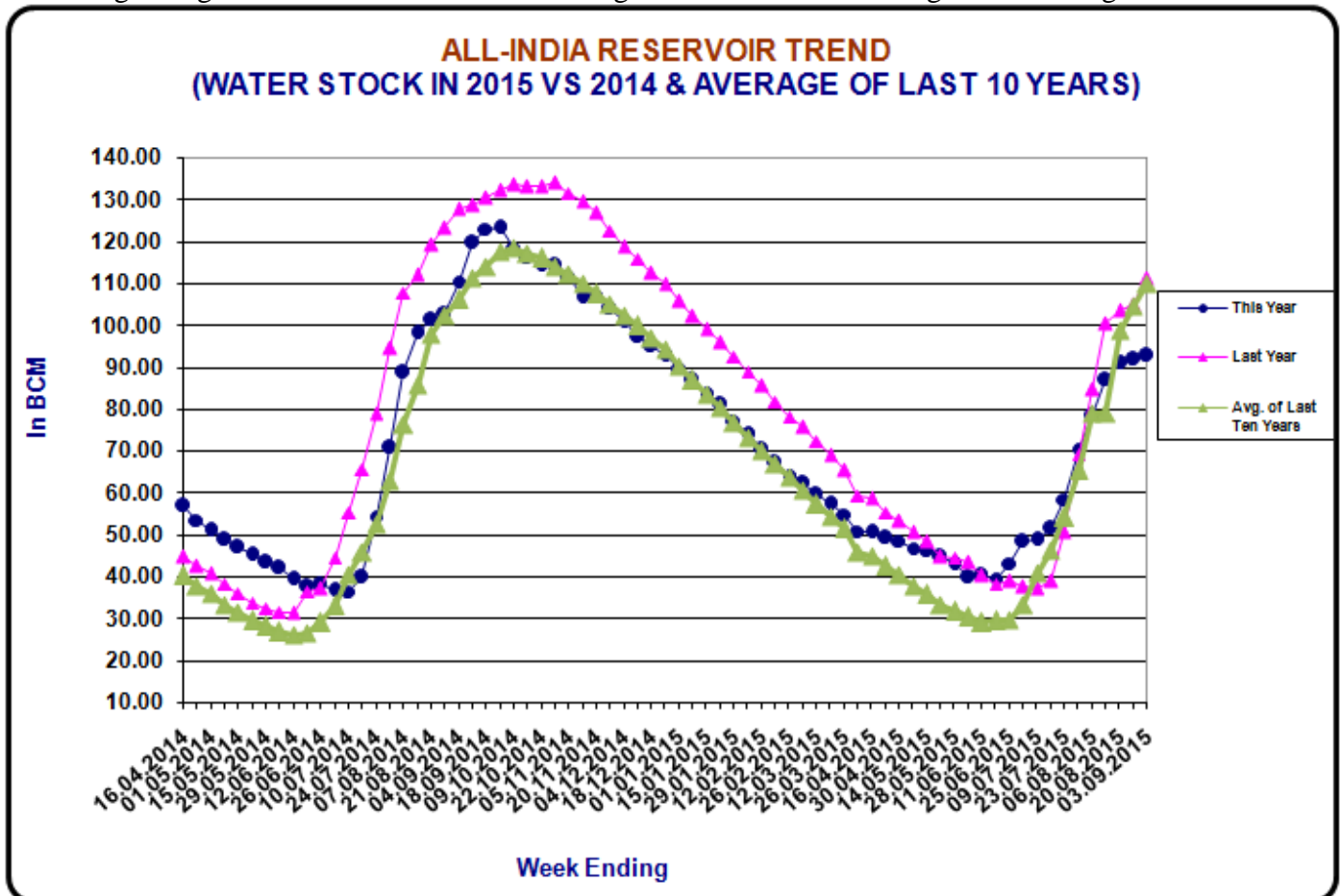
- **The Central Water Commission** monitors the live storage of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **157.80** billion cubic meters (BCM), which is about 74% of total reservoir capacity in the country.
- Water stock in 91 major reservoirs **increased to** 92.92 BCM from the previous week's level of 91.69 BCM. Current storage is **lower** than the last year's position of 111.26 BCM and the average of last 10 year's storage of 110.14 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	84	84
Last Week	58	87	88
The percentage to live capacity at FRL was 71% on 03/09/2014, 77% on 03/09/2013, 65% on 06/09/2012 and 73% on 01/09/2011.			
* Live storage as % to Full Reservoir Level (FRL) of 157.80 Billion Cub. Mts.(BCM)			

Source: CWC

There were 44 reservoirs having storage more than 80%, 28 reservoirs having storage between 50% to 80% of Normal Storage, 12 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 31.08.2015)

(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	3386	3311
Requirement upto August, 2015	2776	782	308	952	501
Availability upto 31.08.2015	13127	4587	1333	4420	2028
Sales upto 31.08.2015	12616	3579	835	3324	1546
Closing Stock as 31.08.2015	511	1008	498	1097	482

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

4. Pest & Diseases:

1. Incidence of Girdle beetle and Semi looper & yellow mosaic virus on Soybean crop in Baran & Jhalawar districts of Rajasthan covering **an area of 2000 hectare** in Moderate intensity. Moderate intensity of Stem fly on Soybean was noticed in some pocket of Yavatmal District of Maharashtra in **21000 hectare**. area. Moderate intensity of Girdle beetle and Semi looper 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.
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. Incidence of Blister beetle on Maize crop was noticed in moderate intensity in some pockets of Reasi District of Jammu and Kashmir.
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 04.09.2015							
(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	356.60	361.46	93.1	357.47	4.9	4.0
Jowar	27.27	23.09	19.01	69.7	18.14	-4.1	0.9
Bajra	84.80	72.47	69.99	82.5	62.99	-2.5	7.0
Maize	72.50	72.82	75.45	104.1	74.31	2.6	1.1
Total Coarse Cereals	204.41	184.77	179.48	87.8	170.42	-5.3	9.1
Total Cereals	592.75	541.37	540.94	91.3	527.89	-0.4	13.1
Tur	39.28	37.60	35.44	90.2	34.99	-2.2	0.4
Urad	23.78	23.45	26.98	113.5	24.22	3.5	2.8
Moong	24.46	22.59	24.57	100.4	20.32	2.0	4.3
Kulthi	2.67	0.42	0.36	13.5	0.52	-0.1	-0.2
Others	18.56	20.57	21.03	113.3	17.51	0.5	3.5
Total Pulses	108.75	104.64	108.37	99.7	97.56	3.7	10.8
Total Foodgrains	701.50	646.01	649.31	92.6	625.45	3.3	23.9
Groundnut	44.97	41.39	35.74	79.5	35.84	-5.7	-0.1
Soyabean	104.00	106.94	115.35	110.9	109.66	8.4	5.7
Sunflower	3.39	2.11	1.02	30.1	1.69	-1.1	-0.7
Sesamum	18.62	14.56	16.16	86.8	15.57	1.6	0.6
Nigerseed	3.44	1.50	1.37	39.7	1.35	-0.1	0.0
Castorseed	10.77	8.67	8.91	82.8	9.27	0.2	-0.4
Total Oilseeds	185.19	175.16	178.55	96.40	173.38	3.4	5.2
Cotton	114.96	114.89	114.17	99.3	123.70	-0.7	-9.5
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	994.23	998.67	94.3	979.40	4.4	19.3

Source: Crops & TMOP Divisions, DAC