

**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: 04.08.2015

**SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON
31.07.2015.**

Summary observations of the Group on Agenda Items

- **Details of the mean maximum temperature during the week 23rd July to 29th July, 2015, were as under:-**
 - *Above normal by 2 to 4°C over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, many parts of Himachal Pradesh, Assam & Meghalaya, North Interior Karnataka, Telangana, Coastal Andhra Pradesh, Rayalaseema, some parts of Tamil Nadu and isolated pockets of Jammu & Kashmir, Bihar, Marathwada, Madhya Maharashtra, South Interior Karnataka and Kerala.*
 - *Below normal by 2 to 4°C over many parts of Gujarat, some parts of Rajasthan and West Madhya Pradesh.*
 - *Normal to near normal in remaining parts of the country.*
- **Details of the mean minimum temperature during the week 23rd July to 29th July, 2015, were as under:-**
 - *Above normal by 2 to 4°C over isolated pockets of Jammu & Kashmir, Rajasthan and West Madhya Pradesh.*
 - *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 23rd July to 29th July, 2015 was 21% higher 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 33% in North West India and 68% in Central India and lower by 50% in South Peninsula and 22% in East & North East India.***
- ***In the monsoon season, cumulative Rainfall for the country as a whole during the period 1st June to 29th July, 2015 was 3% 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 12% in North West India and lower by 8% in East & North East India, 18% in South Peninsula and equal to normal in Central India.***

- *Out of 36 met sub-divisions, 26 met sub-divisions constituting 78% of the total area of the country has received excess/normal rainfall and 10 met sub-divisions constituting 22% of the total area of the country has received deficient rainfall.*
- *Out of 613 districts, 142 districts (23%) received excess, 238 districts (39%) received normal, 206 districts (34%) 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 30th July, 2015 was 70.71 BCM as against 69.36 BCM on 30.07.2014 (last year) and 65.39 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 102% of the last year's storage and 108% of the normal storage.*
- *As per latest information available on sowing of Kharif crops, around 72.2% of the normal area under Kharif crops has been sown upto 31.07.2015. Area sown under all Kharif crops taken together has been reported to be 764.28 lakh hectares at All India level as compared to 703.43 lakh hectares in the corresponding period of last year.*
- *Area coverage was higher by 3.1 lakh ha. under Urad, 1.7 lakh ha. under Moong, 6.8 lakh ha. under Soyabean and 1.3 lakh ha. under Sesamum. Area coverage was lower by 10.0 lakh ha. under Rice[Odisha (3.69), W.B. (2.97), Mah. (2.28), Tel. (1.64), U.P. (1.58), Guj.(1.46)], 4.1 lakh ha. under Jowar, 4.1 lakh ha. under Tur [Kar. (2.26)& Maha.(1.93)], 3.9 lakh ha. under Groundnut, 1.3 lakh ha. under Castorseed, 1.9 lakh ha. under Cotton and 2.0 lakh ha. under Sugarcane 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 29th July, 2015

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

- **Rainfall during the week (23rd July, 2015 to 29th July, 2015)** Rainfall was excess/normal in 15 and deficient/scanty in 21 out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st June to 29th July, 2015)** Rainfall was excess/normal in 26 and deficient in 10 out of 36 meteorological sub-divisions.

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

Region	Week Ending (29.07.2015)				Cumulative (01.06.15 to 29.07.15)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	72.3	54.3	33	E	304.6	272.5	12	N
Central India	126.4	75.4	68	E	466.8	467.9	0	N
South Peninsular India	26.1	52.5	-50	D	300.1	364.9	-18	N
East & North-East India	75.4	97.0	-22	D	699.6	764.3	-8	N
Country as a whole	81.9	67.8	21	E	421.3	434.8	-3	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>					
	28 JUL 2010	27 JUL 2011	01 AUG 2012	31 JUL 2013	30 JUL 2014	29 JUL 2015
Excess	09	06	00	17	00	06
Normal	19	22	16	13	15	20
Total	28	28	16	30	15	26
Deficient	08	08	16	06	21	10
Scanty	00	00	04	00	00	00
No rain	00	00	00	00	00	00
Total	08	08	20	06	21	10
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 5%	(-) 4%	(-) 19%	17%	(-) 23%	(-) 3%

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

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^{1/2}-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 30.07.2015)

- **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 70.71 BCM** from the previous week's level of 59.20 BCM. Current storage is **higher** than the last year's position of 69.36 BCM and more than the average of last 10 year's storage of 65.39 BCM.

Table – 2.1 : For 91 major reservoirs of the country

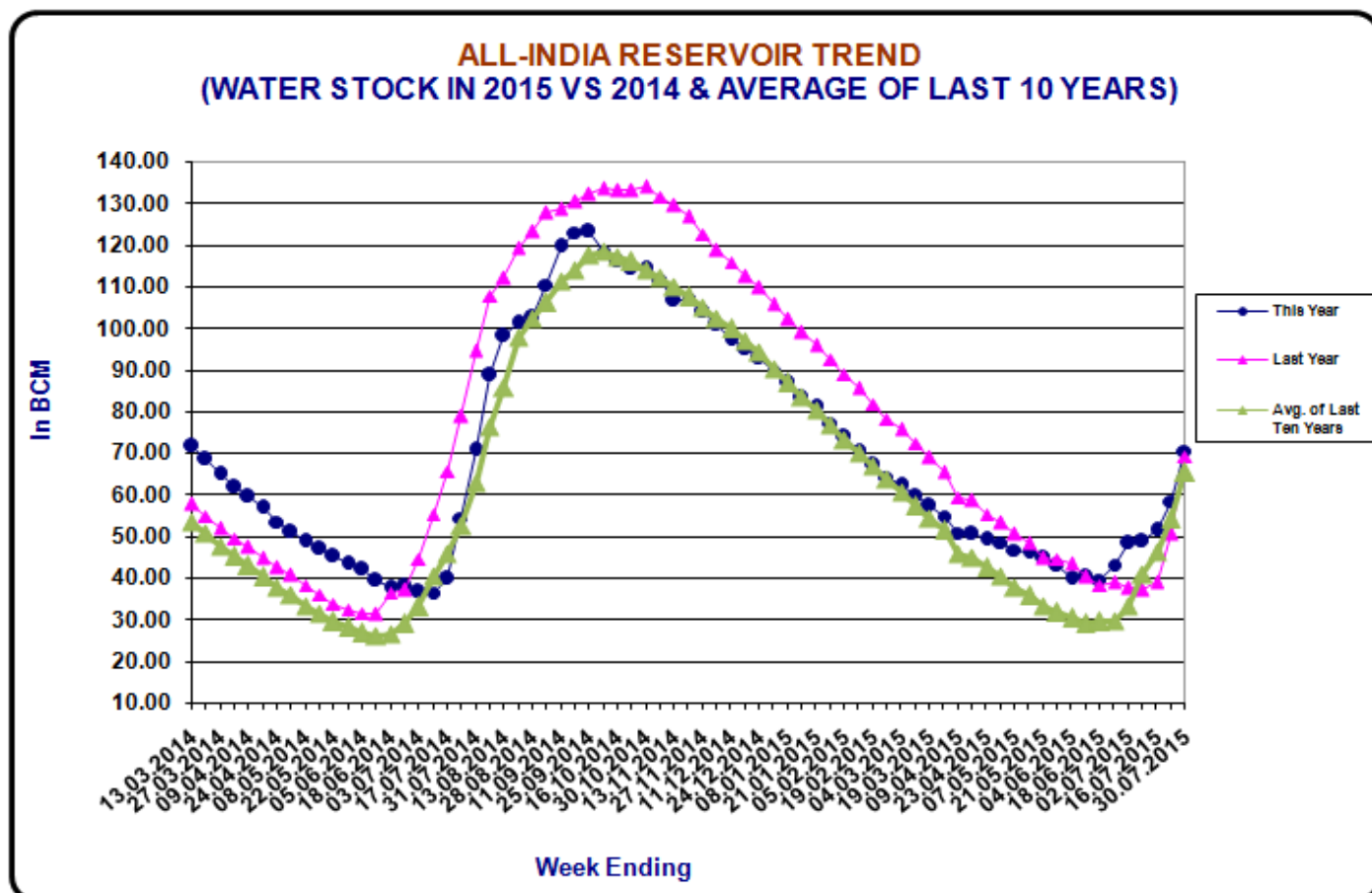
Period	Current Year's Storage as % of FRL*	Current Year's storage as % of last year	Current year as a % of 10 years average level
Current Week	45	102	108
Last Week	38	117	109

The percentage to live capacity at FRL was 44% on 30/07/2014, 55% on 30/07/2013, 24% on 26/07/2012 and 44% on 28/07/2011.

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

Source: CWC

There were 64 reservoirs having storage more than 80%, 14 reservoirs having storage between 50% to 80% of Normal Storage, 06 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 31.07.2015)

(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 July, 2015	3100	931	407	957	542
Availability upto 31.07.2015	9479	3658	1004	3245	1571
Sales upto 31.07.2015	8882	2613	515	2187	1030
Closing Stock as 31.07.2015	597	1045	489	1059	541

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 advisory to manage the infestation of this pest has been issued by the CIPMC, Nagpur.
- Incidence of Hairy caterpillar and Semi looper on Soybean crop in Banswara district of South Rajasthan in Low to Moderate intensity and Hairy caterpillar on Soybean crop in Mehsana, Patan, Sabarkantha & Banaskantha districts of Gujarat in Low intensity was recorded. The crop was in vegetative stage. The incharge of CIPMC, Sriganganagar was instructed to keep close monitoring of further spread of this pest.
- Incidence of Whitefly on Okra crop at fruiting stage was reported in Low to Moderate intensity in Mal/Malihabad District in Lucknow, Uttar Pradesh State. CIPMC stations at Lucknow and state Government of Uttar Pradesh were advised to take intensive monitoring and survey to prevent the spread of this pest in other fields. If situation warrants, recommended pesticides approved by CIB&RC may be suggested for control of this pest.
- An Advisory has been issued regarding the incidence of Cutworm in Trace to Low intensity and Snails in Moderate intensity on Maize crop at Sowing to Vegetative stage at Marh District in Jammu Division of Jammu & Kashmir state. The state Government and CIPMC Jammu were advised to keep close watch on further spread of this disease. The necessary control measures as recommended by CIB&RC may be advised to the farmers.
- Incidence of Mites on Coconut crop at vegetative to fruiting stage was reported in Trace to Moderate intensity in Puri District in Bhubaneswar, Odisha State. CIPMC station located at Bhubaneswar and state Government of Odisha were advised to take intensive monitoring and survey to prevent the spread of this pest in other fields. If situation warrants, recommended pesticides approved by CIB&RC may be suggested for control of this pest.
- During the special survey conducted by CIPMC Srinagar, The incidence of *Alternaria* bloch on Apple orchid 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 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.
- 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 31.07.2015							
Crop Name	Normal Area for whole Kharif Season	Normal Area as on date	Area sown reported			(In lakh hectares)	
			This Year 2015	% of Normal for whole season	Last Year 2014	Absolute Change over (+/-)	
						Normal as on date	Last Year
Rice	388.34	237.84	227.81	58.7	214.82	-10.0	13.0
Jowar	27.27	19.82	15.74	57.7	12.48	-4.1	3.3
Bajra	84.80	58.67	59.62	70.3	46.29	0.9	13.3
Maize	72.50	65.93	66.74	92.1	60.70	0.8	6.0
Total Coarse Cereals	204.41	153.87	148.49	72.6	125.50	-5.4	23.0
Total Cereals	592.75	391.71	376.30	63.5	340.32	-15.4	36.0
Tur	39.28	31.14	27.06	68.9	26.25	-4.1	0.8
Urad	23.78	18.48	21.55	90.6	16.64	3.1	4.9
Moong	24.46	18.09	19.83	81.1	15.00	1.7	4.8
Kulthi	2.67	0.19	0.21	7.7	0.20	0.0	0.0
Others	18.56	13.90	13.81	74.4	10.07	-0.1	3.7
Total Pulses	108.75	81.80	82.44	75.8	68.15	0.6	14.3
Total Foodgrains	701.50	473.51	458.74	65.4	408.47	-14.8	50.3
Groundnut	44.97	33.00	29.05	64.6	26.29	-3.9	2.8
Soyabean	104.00	99.54	106.35	102.3	95.66	6.8	10.7
Sunflower	3.39	1.32	0.57	16.9	1.18	-0.8	-0.6
Sesamum	18.62	9.72	11.00	59.0	10.31	1.3	0.7
Nigerseed	3.44	0.52	0.35	10.0	0.13	-0.2	0.2
Castorseed	10.77	2.52	1.21	11.2	2.04	-1.3	-0.8
Total Oilseeds	185.19	146.62	148.52	80.19	135.60	1.9	12.9
Cotton	114.96	103.78	101.91	88.6	104.84	-1.9	-2.9
Sugarcane	48.18	49.29	47.33	98.2	46.42	-2.0	0.9
Jute & Mesta	8.77	8.41	7.78	88.8	8.11	-0.6	-0.3
All- Crops	1058.59	781.60	764.28	72.2	703.43	-17.3	60.9