

**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: 18.08.2015

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 14.08.2015.

Summary observations of the Group on Agenda Items

- **Details of the mean maximum temperature during the week 06th August to 12th August, 2015, were as under:-**
 - *Above normal by 4^oC over some parts of Sub-Himalayan West Bengal and isolated pockets of Jharkhand and Bihar, by 2 to 4^oC over Gangetic West Bengal, Manipur, Mizoram, Tripura, many parts of Sub-Himalayan West Bengal, Bihar, Jharkhand, North Interior Karnataka, some parts of Sikkim, Assam & Meghalaya, Madhya Pradesh, Telangana, Rayalaseema, Tamil Nadu and isolated pockets of Jammu & Kashmir, East Rajasthan, Uttar Pradesh, Gujarat Region, Odisha, Coastal Andhra Pradesh, South Interior Karnataka and Kerala.*
 - *Normal to near normal in remaining parts of the country.*
- **Details of the mean minimum temperature during the week 06th August to 12th August, 2015, were as under:-**
 - *Above normal by 2 to 4^oC over isolated pockets of Rayalaseema and Tamil Nadu.*
 - *Below normal by 4 to 6^oC over isolated pockets of Jammu & Kashmir, by 2 to 4^oC over some parts of Jammu & Kashmir*
 - *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 06th August to 12th August, 2015 was 31% 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 45% in East & North East India, 13% in North West India, 44% in Central India and 8% in South Peninsula.***
- ***In the monsoon season, cumulative Rainfall for the country as a whole during the period 1st June to 12th 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 higher by 2% in North West India and lower by 12% in East & North East India, 9% in Central India and 20% in South Peninsula.***
- ***Out of 36 met sub-divisions, 20 met sub-divisions constituting 64% of the total area of the country has received excess/normal rainfall and 16 met sub-divisions constituting 36% of the total area of the country has received deficient rainfall.***

- *Out of 613 districts, 106 districts (17%) received excess, 234 districts (38%) received normal, 244 districts (40%) 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 13th August, 2015 was 87.09 BCM as against 100.36 BCM on 13.08.2014 (last year) and 90.68 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 87% of the last year's storage and 96% of the normal storage.*
- *As per latest information available on sowing of Kharif crops, around 84.2% of the normal area under Kharif crops has been sown upto 14.08.2015. Area sown under all Kharif crops taken together has been reported to be 890.82 lakh hectares at All India level as compared to 863.61 lakh hectares in the corresponding period of last year.*
- *Area coverage was higher by 1.9 lakh ha. under Rice, 1.1 lakh ha. under Maize, 3.0 lakh ha. under Urad, 6.2 lakh ha. under Soyabean and 2.0 lakh ha. under Sesamum. Area coverage was lower by 4.4 lakh ha. under Jowar, 3.1 lakh ha. under Bajra, 3.2 lakh ha. under Tur, 6.5 lakh ha. under Groundnut, 1.0 lakh ha. under Sunflower, 1.2 lakh ha. under Castorseed and 2.9 lakh ha. under Cotton as compared to average area (as on date).*
- *IMD has been suggested to furnish monthly rainfall data on regular basis to this Directorate for the monitoring of rainfall behaviour and preparation of various comparative statements on rainfall distribution.*
- *Availability position of seeds and fertilizers has been found satisfactory.*

1. Monsoon Season (June – September) during the week ending on 12th August, 2015

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

- **Rainfall during the week (06th August, 2015 to 12th August, 2015)** Rainfall was excess/normal in 12 and deficient/scanty in 24 out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st June to 12th August, 2015)** Rainfall was excess/normal in 20 and deficient in 16 out of 36 meteorological sub-divisions.

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

Region	Week Ending (12.08.2015)				Cumulative (01.06.15 to 12.08.15)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	47.8	54.7	-13	N	390.6	381.8	2	N
Central India	41.4	73.6	-44	D	566.8	619.5	-9	N
South Peninsular India	38.4	42.0	-8	N	360.1	451.9	-20	D
East & North-East India	44.0	79.7	-45	D	815.1	925.7	-12	N
Country as a whole	43.2	62.5	-31	D	511.6	562.3	-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: 1st June to

No. of Sub-Divisions with rainfall	<i>For the period from 1st June to</i>					
	11 AUG 2010	10 AUG 2011	15 AUG 2012	14 AUG 2013	13 AUG 2014	12 AUG 2015
Excess	09	05	01	17	00	05
Normal	19	24	19	13	19	15
Total	28	29	20	30	19	20
Deficient	08	09	13	06	15	16
Scanty	00	00	03	00	02	00
No rain	00	00	00	00	00	00
Total	08	09	16	06	17	16
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 4%	(-) 4%	(-) 15%	13%	(-) 18%	(-) 9%

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

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 $\geq 1\frac{1}{2}$; 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 13.08.2015)

- **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** 87.09 BCM from the previous week's level of 78.27 BCM. Current storage is **lower** than the last year's position of 100.36 BCM and the average of last 10 year's storage of 90.68 BCM.

Table – 2.1 : For 91 major reservoirs of the country

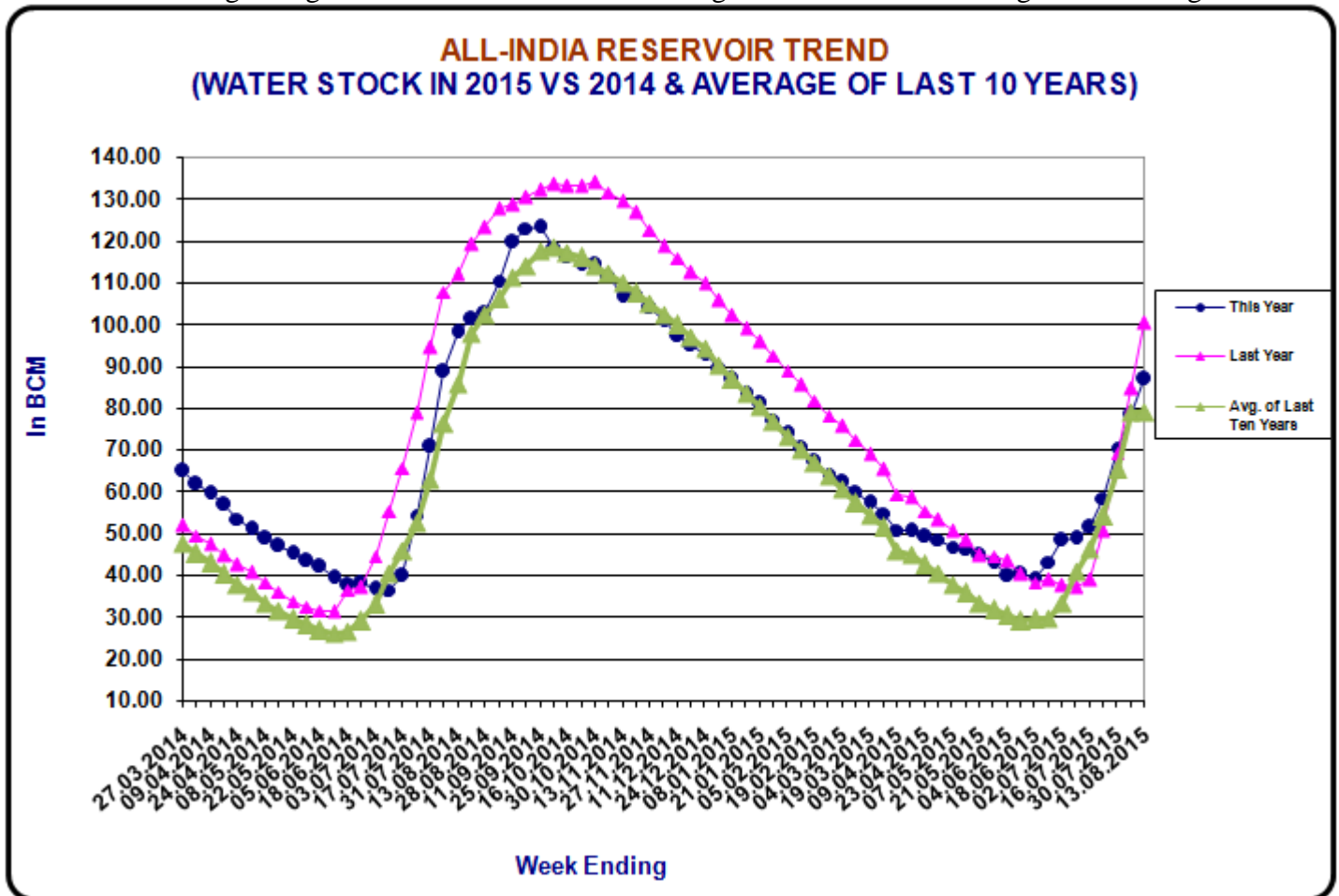
<u>Period</u>	Current Year's Storage as % of FRL*	Current Year's storage as % of last year	Current year as a % of 10 years average level
Current Week	55	87	96
Last Week	50	92	99

The percentage to live capacity at FRL was 64% on 13/08/2014, 68% on 13/08/2013, 51% on 16/08/2012 and 56% on 11/08/2011.

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

Source: CWC

There were 54 reservoirs having storage more than 80%, 21 reservoirs having storage between 50% to 80% of Normal Storage, 08 reservoir having storage between 30% to 50% of Normal Storage and 08 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 13.08.2015)

(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 13.08.2015	10969	3999	1122	3645	1773
Sales upto 13.08.2015	10546	3067	691	2675	1330
Closing Stock as 13.08.2015	423	932	430	970	443

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. 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. Moderate intensity of Stem fly on Soybean was also noticed in some pocket of Yavatmal diatt. of Maharastra in 21000 Ha. area.
- Incidence of *Alternaria* leaf 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, 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. Moderate intensity of White fly on Cotton was reported in Cotton growing of area of Abohar & Bhatinda Distt. of Punjab in 2 Lakh Hectare area.
- 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 14.08.2015							
(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	298.67	300.55	77.4	288.15	1.9	12.4
Jowar	27.27	21.96	17.59	64.5	16.54	-4.4	1.1
Bajra	84.80	67.88	64.73	76.3	59.62	-3.1	5.1
Maize	72.50	70.38	71.52	98.6	69.90	1.1	1.6
Total Coarse Cereals	204.41	173.04	163.75	80.1	155.14	-9.3	8.6
Total Cereals	592.75	471.71	464.30	78.3	443.29	-7.4	21.0
Tur	39.28	35.33	32.18	81.9	31.67	-3.2	0.5
Urad	23.78	21.60	24.63	103.6	21.57	3.0	3.1
Moong	24.46	21.37	21.95	89.7	18.61	0.6	3.3
Kulthi	2.67	0.32	0.25	9.4	0.30	-0.1	-0.1
Others	18.56	17.12	18.44	99.4	15.15	1.3	3.3
Total Pulses	108.75	95.74	97.44	89.6	87.29	1.7	10.2
Total Foodgrains	701.50	567.45	561.74	80.1	530.58	-5.7	31.2
Groundnut	44.97	38.82	32.37	72.0	33.47	-6.5	-1.1
Soyabean	104.00	105.76	111.97	107.7	108.35	6.2	3.6
Sunflower	3.39	1.75	0.75	22.2	1.52	-1.0	-0.8
Sesamum	18.62	12.64	14.68	78.8	12.74	2.0	1.9
Nigerseed	3.44	0.89	0.66	19.2	0.48	-0.2	0.2
Castorseed	10.77	4.54	3.35	31.1	4.27	-1.2	-0.9
Total Oilseeds	185.19	164.41	163.78	88.43	160.83	-0.6	2.9
Cotton	114.96	111.57	108.67	94.5	116.91	-2.9	-8.2
Sugarcane	48.18	49.44	48.84	101.4	47.17	-0.6	1.7
Jute & Mesta	8.77	8.41	7.79	88.9	8.12	-0.6	-0.3
All- Crops	1058.59	901.27	890.82	84.2	863.61	-10.4	27.2

Source: Crops & TMOP Divisions, DAC