

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: 16.02.2016

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 12.02.2016.

Summary observations of the Group on Agenda Items

- **Details of the mean maximum and minimum temperature during the week 04th February, 2016 to 10th February, 2016 were as under:-**

Maximum Temperature

- ***Above normal by 4 to 6^oC over some parts of Jammu & Kashmir and isolated pockets of Konkan and Madhya Maharashtra and by 2 to 4^oC over Marathwada, many parts of Jammu & Kashmir, Vidarbha, Jharkhand, East Madhya Pradesh, Chhattisgarh, Konkan, Madhya Maharashtra, some parts of Himachal Pradesh, Bihar, Telangana, North Interior Karnataka and isolated pockets of Rajasthan, East Uttar Pradesh, Gangetic West Bengal, Manipur, Gujarat, Lakshadweep.***
- ***Normal to near normal in remaining parts of the country.***

Minimum Temperature

- ***Above normal by 2 to 4^oC over some parts of Odisha, Vidarbha, Marathwada, Andaman & Nicobar Islands and isolated pockets of Jammu & Kashmir, Gangetic West Bengal, Chhattisgarh, Madhya Maharashtra, Gujarat region, North Interior Karnataka, Telangana and Andhra Pradesh.***
 - ***Normal to near normal in remaining parts of the country.***
- ***In the winter season, weekly Rainfall for the country as a whole during the week 04th February, 2016 to 10th February, 2016 was 68% 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 48% in East & North East India, 65% in North West India, 99% in Central India and 88% in South Peninsula.***
 - ***The cumulative rainfall in the country during the post monsoon season i.e. 01st January, 2016 to 10th February, 2016 was 64% 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 40% in East & North East India, 73% in North West India, 60% in Central India and 62% in South Peninsula.***

- *Out of 36 met sub-divisions, 05 met sub-divisions constituting 08% of the total area of the country has received excess/normal rainfall, 26 met sub-divisions constituting 79% of the total area of the country has received deficient/scanty rainfall and 05 met sub-divisions constituting 13% of the total area of the country has received no rain.*
- *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 11th February, 2016 was 56.58 BCM as against 72.88 BCM on 11.02.2015 (last year) and 74.48 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 78% of the last year's storage and 76% of the normal storage.*
- *All-India progressive procurement of Rice as on 11.02.2016 for the marketing season 2015-16 was 261.38 lakh tonnes against the procurement of 215.49 lakh tonnes upto the corresponding period of last year.*
- *Availability position of seeds and fertilizers has been found satisfactory.*

1. Winter Season (January – February) during the week ending on 10th February, 2016

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

- **Rainfall during the week (04th February, 2016 to 10th February, 2016)** Rainfall was excess/normal in 03, deficient/scanty in 15 and no rain in 18 out of 36 meteorological sub-divisions. (Sub-division wise weekly rainfall distribution is given in **Annex I**).
- **Cumulative rainfall (01st January, 2016 to 10th February, 2016)** Rainfall was excess/normal in 05, deficient/scanty in 26 and no rain in 05 out of 36 meteorological sub-division.

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

Region	Week Ending (10.02.2016)				Cumulative (01.01.16 to 10.02.16)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	2.6	7.5	-65	S	13.0	48.0	-73	S
Central India	0.0	2.4	-99	S	4.3	11.0	-60	S
South Peninsular India	0.2	1.4	-88	S	3.7	9.6	-62	S
East & North-East India	4.2	8.2	-48	S	19.7	32.8	-40	D
Country as a whole	1.5	4.7	-68	S	9.3	25.9	-64	S

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 January to

No. of Sub-Divisions with rainfall	<i>For the period from 1st January to</i>					
	09 FEB 2011	08 FEB 2012	13 FEB 2013	12 FEB 2014	11 FEB 2015	10 FEB 2016
Excess	02	09	09	07	14	03
Normal	01	07	06	06	06	02
Total	03	16	15	13	20	05
Deficient	04	06	06	04	09	09
Scanty	21	10	14	17	07	17
No rain	08	04	01	02	00	05
Total	33	20	21	23	16	31
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 45%	23%	(-) 17%	(-) 5%	(-) 13%	(-) 64%

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 & MINIMUM TEMPERATURE-2016															
S.No	SUB-DIVISIONS	RAINFALL							MINIMUM TEMPERATURE						
		04 FEB	05 FEB	06 FEB	07 FEB	08 FEB	09 FEB	10 FEB	04 FEB	05 FEB	06 FEB	07 FEB	08 FEB	09 FEB	10 FEB
1	ANDAMAN & NICOBAR ISLANDS	SCT	DRY	ISOL	DRY	DRY	DRY	DRY	N	N	N	AN	AAN	N	N
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	ISOL	WS	SCT	N	N	N	N	AN	AN	N
3	ASSAM & MEGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	SCT	N	N	N	N	AN	N	N
4	NAGA.MANI.MIZO.TRIPURA	DRY	DRY	DRY	DRY	DRY	DRY	ISOL	N	N	N	N	AN	AAN	N
5	SUB-HIMA.WEST BEN. & SIKKIM	DRY	DRY	DRY	DRY	DRY	DRY	SCT	N	N	N	AN	AN	AN	AN
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	FWS	N	N	N	N	AN	AAN	N
7	ODISHA	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL	N	N	N	AN	N	AAN	N
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	ISOL	N	N	N	N	N	N	N
9	BIHAR	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY	N	BN	N	AN	AN	N	AN
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	DRY	DRY	N	BN	N	N	N	AN	N
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	DRY	DRY	N	N	N	AAN	N	N	N
12	UTTARAKHAND	DRY	DRY	DRY	ISOL	WS	DRY	DRY	N	N	AN	AAN	N	N	N
13	HARYANA CHAND. & DELHI	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY	N	ABN	N	MAN	N	N	BN
14	PUNJAB	DRY	DRY	DRY	DRY	ISOL	DRY	DRY	N	N	BN	AAN	N	N	N
15	HIMACHAL PRADESH	DRY	DRY	DRY	FWS	FWS	DRY	DRY	N	AAN	AN	N	N	N	N
16	JAMMU & KASHMIR	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY	N	AAN	AN	MAN	N	N	N
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	AN	N	N	N	N
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	AN	AN	N	N	N
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	AN	AAN	N	N
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	BN	ABN	N	AAN	N	N	N
21	GUJARAT REGION D.D. & N.H.	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	AN	N	N	N	N
22	SAURASTRA KUTCH & DIU	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	AN	AN	N	N	N
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	ABN	N	N	N	N	N
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	AN	AAN
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	AN	AN	N	N	AN
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	ABN	BN	N	AN	N	N
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	AN	N	AAN
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	BN	N	N	AN	N	N
31	TAMILNADU & PUDUCHERRY	DRY	DRY	DRY	DRY	DRY	DRY	ISOL	N	N	N	AN	AN	N	N
32	COASTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	AN	AN
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	AN	AAN	AN
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N
35	KERALA	DRY	DRY	DRY	DRY	ISOL	DRY	ISOL	N	N	N	N	N	AN	AN
36	LAKSHADWEEP	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N

WS	WIDE SPREAD / MOST PLACES (76-100%)	FWS	FAIRLY WIDE SPREAD / MANY PLACES (51-75%)	SCT	SCATTERED/ FEW PLACES (26-50%)	ISOL	ISOLATED/One or two places (UP TO 25 %)
DRY	NO STATION REPORTED RAINFALL	RAINFALL ACTIVITY		* ACTIVE (1/1 st - 4 times the normal)	** VIGOROUS (1/1 st More than 4 times)		

N	NORMAL (-1.5 to +1.5)°C	BN	BELOW NORMAL (+1.6 to 3.0)°C	ABN	APRECIABLY BELOW NORMAL (-3.1 to -5.0)°C	MBN	MARKEDLY BELOW NORMAL (-5.0 °C or less)
AN	ABOVE NORMAL (+1.6 to 3.0)°C	AAN	APRECIABLY ABOVE NORMAL (+3.1 to 5.0)°C	MAN	MARKEDLY ABOVE NORMAL (+5.0 °C or more)		

2. Reservoir Status (For the week ending on 11.02.2016)

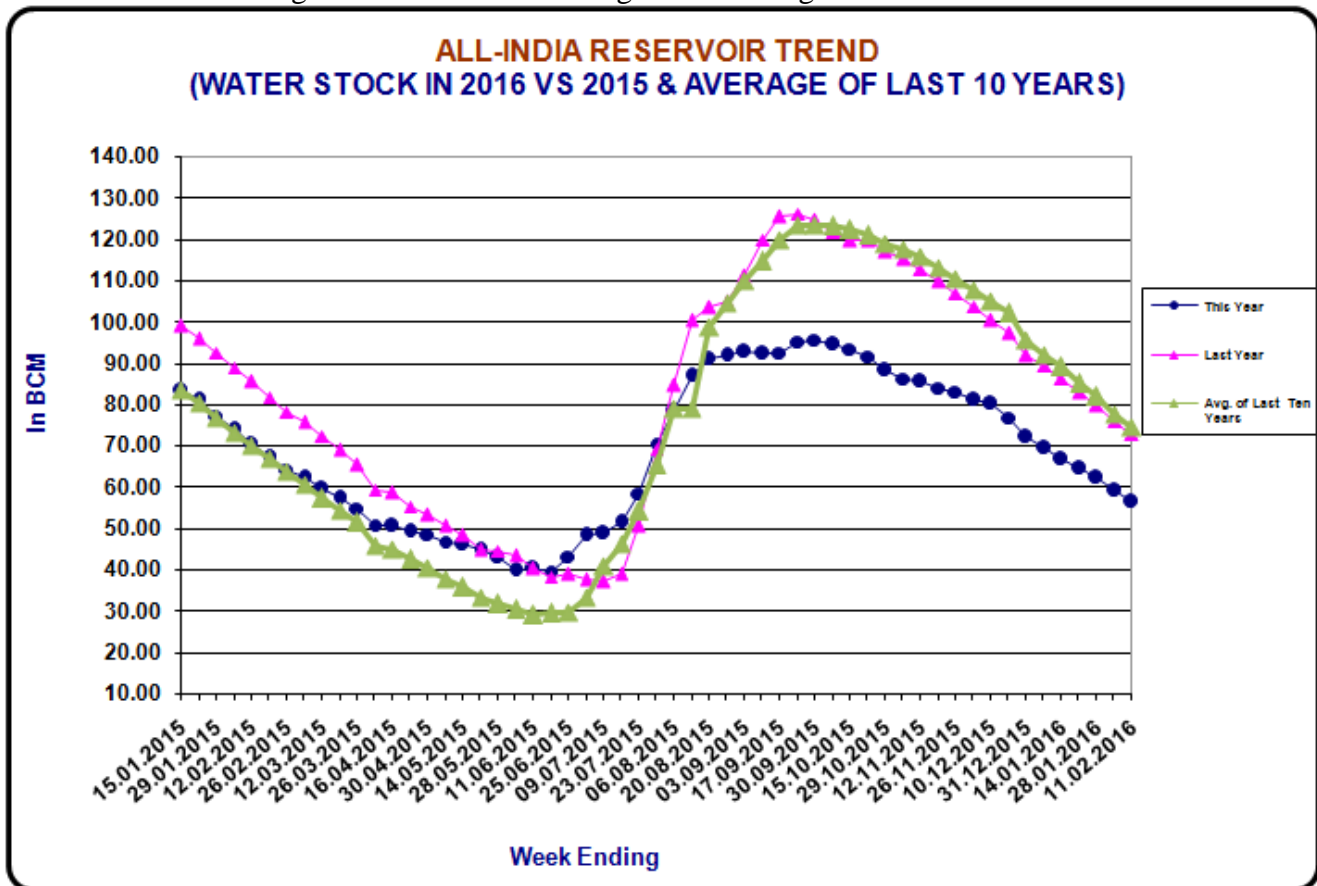
- **The Central Water Commission** monitors the live storage of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **157.80** billion cubic meters (BCM), which is about 62% of total reservoir capacity in the country.
- Water stock in 91 major reservoirs **decreased to** 56.58 BCM from the previous week's level of 59.34 BCM. Current storage is **lower** than the last year's position of 72.88 BCM and the average of last 10 year's storage of 74.48 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	36	78	76
Last Week	38	78	76
The percentage to live capacity at FRL was 46% on 11/02/2015, 51% on 11/02/2014, 44% on 11/02/2013 and 49% on 11/02/2012.			
* <i>Live storage as % to Full Reservoir Level (FRL) of 157.80 Billion Cub. Mts.(BCM)</i>			

Source: CWC

There were 34 reservoirs having storage more than 80%, 31 reservoirs having storage between 50% to 80% of Normal Storage, 13 reservoir having storage between 30% to 50%, 13 reservoir having storage 30% of Normal Storage and 03 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 Rabi 2015-16 (As on 11.02.2016)

(in '000 Tonnes)

Availability / Sale / Closing Stock	Urea	DAP	MOP	Complex	SSP
Opening Stock as on 01.10.2015	289	930	260	840	340
Requirement for Rabi, 2015-16	15885	5141	1777	5316	3248
Requirement upto Feb., 2016	1634	392	220	693	358
Availability upto 11.02.2016	13119	4222	1137	4019	1484
Sales upto 11.02.2016	11685	2841	821	2896	1100
Closing Stock upto 11.02.2016	1434	1382	315	1124	384

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

4. Pest & Diseases:

- Incidence of yellow rust in wheat crop has been reported in trace intensity in patches in some villages of Roopnagar, SBS Nagar, Nawasahar, Gurdaspur and Hoshiarpur districts of Punjab; Bilaspur, Una, Mandi districts of Himachal Pradesh; Jammu, Samba & Kathua districts of Jammu & Kashmir; Nainital district of Uttarakhand; and Yamunanagar, Ambala, Kurukshetra, Panchkula & Karnal districts of Haryana, covering 86 Acres area in Haryana.
- Advisories have been issued to state Governments and CIPMCs for continuous monitoring of yellow rust diseases on Wheat crop and to take appropriate control measures in wheat growing areas of Haryana, Punjab, Jammu & Kashmir, Himachal Pradesh, Rajasthan and Uttar Pradesh along with the monitoring of aphids and white rust on mustard crop.
- No shortage of Chemical / Bio-pesticides was reported from any State / UT.

Table – 5: Progressive procurement of Rice as on 11.02.2016 (lakh tonnes)

State	Total procurement in marketing season 2014-15 (Oct. – Sept.)	Progressive Procurement as on 11.02.2016	
		In Marketing season 2015-2016	In Marketing season 2014-2015
Andhra Pradesh	35.96	23.03	11.53
Telangana	35.04	10.12	15.09
Chhattisgarh	34.23	39.72	33.54
Haryana	20.15	28.54	20.15
Kerala	3.74	1.30	1.11
Madhya Pradesh	8.07	8.49	7.57
Maharashtra	1.99	1.21	1.11
Odisha	33.57	16.08	15.07
Punjab	77.86	93.49	77.81
Tamil Nadu	10.51	3.44	3.73
Uttar Pradesh	16.98	23.84	13.61
Uttaranchal	4.65	5.97	4.29
West Bengal	20.32	2.89	8.23
All-India	320.40	261.38	215.49