

F. No. 3-1/ 2018-19-CFCC-ES
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: 06.11.2018

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 02.11.2018.

Summary observations of the Group on Agenda Items

- *In the post monsoon season, at All-India level, the rainfall during the week i.e. 25th October, 2018 – 31st October, 2018 has been 89% lower than Long Period Average (LPA). Rainfall in the four broad geographical divisions of the country during the above period have been lower than LPA by 98% in North West India, 94% in Central India, 93% in South Peninsula and 69% in East & North East India.*
- *The cumulative rainfall in the country during the post monsoon season i.e. 01st October, 2018 to 31st October, 2018 has been 56% lower than LPA. Rainfall in the four broad geographical divisions of the country during the above period have been lower than LPA by 77% in North West India, 63% in East & North East India, 62% in Central India and 41% in South Peninsula.*
- *Out of 36 met sub-divisions, 5 met sub-divisions constituting 10% of the total area of the country has received normal rainfall, 31 met subdivisions constituting 90% of the total area of the country has received deficient/large deficient rainfall.*
- *Central Water Commission monitors 91 major reservoirs in the country which have total live capacity of 161.99 Billion Cubic Meter (BCM) at Full Reservoir Level (FRL). Out of these, 76 reservoirs with FRL capacity of 120.44 BCM have irrigation potential. Live storage in the 91 major reservoirs as on 01st November, 2018 has been 109.25 BCM as against 110.15 BCM on 01.11.2017 (last year) and 112.35 BCM of normal (average of the last 10 years) storage. Current year's storage is 99% of last year's storage and nearly 97% of average of last 10 year's storage.*
- *All-India progressive procurement of Rice as on 02.11.2018 for 2018-19 was at 110.19 lakh tonnes against the procurement of 132.06 lakh tonnes in the corresponding period of last year. The procurement of wheat for the Rabi Marketing Season (RMS) 2018-19 was 357.95 lakh tonnes which was higher than the procurement of 308.24 lakh tonnes in the corresponding period of RMS 2017-18.*

1. Post Monsoon Season (October – December) during the week ending 31st Oct., 2018

➤ Sub-Division wise Weekly Rainfall Forecast is shown in Table-1.1

- **Rainfall during the week (25th October, 2018 to 31st October, 2018)** Rainfall was large excess/excess in 1 met sub-divisions, normal in 1 met sub-divisions, deficient/large deficient in 24 sub-divisions and no rain in 10 met sub-divisions out of 36 meteorological sub-divisions. (Sub-division wise weekly and seasonal rainfall distribution is given in **Annex-I**).
- **Cumulative rainfall (01st October, 2018 to 31st October, 2018)** Rainfall was normal in 5 met sub-divisions, deficient/large deficient in 31 sub-divisions out of 36 meteorological sub-divisions. (The sub-division wise seasonal rainfall distribution is given in **Annex-II**).

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

Region	Week Ending (31.10.2018)				Cumulative (01.10.18 to 31.10.18)			
	(in mm)		Devi- ation (%)	Cate- gory	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	0.1	2.3	-98	LD	6.9	30.6	-77	LD
Central India	0.3	5.7	-94	LD	22.1	58.4	-62	LD
South Peninsular India	2.2	29.8	-93	LD	92.3	156.0	-41	D
East & North-East India	4.2	13.4	-69	LD	49.2	131.3	-63	LD
Country as a whole	1.2	10.7	-89	LD	35.6	80.9	-56	D

LE: Large Excess, E: Excess, N: Normal, D: Deficient, LD: Large Deficient, 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 October, 2018 to 31st Oct., 2018

No. of Sub-Divisions with rainfall	For the period from 1 st October to					
	30 OCT 2013	29 OCT 2014	28 OCT 2015	02 NOV 2016	01 NOV 2017	31 OCT 2018
Large Excess	-	-	-	-	03	00
Excess	21	06	01	07	09	00
Normal	05	08	05	07	08	05
Total	26	14	06	14	20	05
Deficient	10	10	08	10	05	07
Large Deficient	-	-	-	-	07	24
Scanty	00	12	22	12	-	-
No rain	00	00	00	00	04	00
Total	10	22	30	22	16	31
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	62%	(-) 24%	(-) 52%	(-) 34%	0%	(-) 56%

Source: IMD

- Sub-division-wise 5 days rainfall forecast from 02nd Nov., 2018 to 06th Nov., 2018 is shown in Table 1.4

1. North-west India - Uttar Pradesh, Rajasthan, Haryana, Chandigarh and Delhi, Punjab, Uttarakhand, Himachal Pradesh, and Jammu and Kashmir.

Central India - Madhya Pradesh, Chhattisgarh, Maharashtra, Odisha, Goa and Gujarat.

South Peninsula - Andhra Pradesh & Telangana, Karnataka, Tamil Nadu & Puducherry, Kerala, A & N islands and Lakshadweep.

East & North East India - Bihar, Jharkhand, West Bengal, Sikkim, Assam, Arunachal Pradesh, Meghalaya, Nagaland, Manipur, Mizoram and Tripura.

Table: 1.1

METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS-2018								
Sr. No	MET.SUB-DIVISIONS	01 NOV	02 NOV	03 NOV	04 NOV	05 NOV	06 NOV	07 NOV
1	ANDAMAN & NICO.ISLANDS	SCT	SCT	SCT	SCT	SCT	SCT	SCT
2	ARUNACHAL PRADESH	D	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
3	ASSAM & MEGHALAYA	ISOL	ISOL	ISOL	ISOL	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	ISOL	ISOL	ISOL	D	D	D	D
5	SUB-HIM.W. BENG. & SIKKIM	D	D	ISOL	ISOL	ISOL	ISOL	D
6	GANGETIC WEST BENGAL	ISOL	D	D	D	D	D	D
7	ODISHA	ISOL	ISOL	ISOL	D	D	D	D
8	JHARKHAND	D	D	D	D	D	D	D
9	BIHAR	D	D	D	D	D	D	D
10	EAST UTTAR PRADESH	D	D	D	D	D	D	D
11	WEST UTTAR PRADESH	D	D	ISOL	D	D	D	D
12	UTTARAKHAND	ISOL	SCT	SCT	D	D	D	D
13	HARYANA CHD. & DELHI	D	ISOL	ISOL	D	D	D	D
14	PUNJAB	ISOL	ISOL	D	D	D	D	D
15	HIMACHAL PRADESH	SCT ^{TS#}	WS ^{TS#}	FWS	ISOL	D	D	D
16	JAMMU & KASHMIR	WS ^{TS#}	WS ^{TS#}	SCT	ISOL	D	D	D
17	WEST RAJASTHAN	D	D	D	D	D	D	D
18	EAST RAJASTHAN	D	D	D	D	D	D	D
19	WEST MADHYA PRADESH	D	D	D	D	D	D	D
20	EAST MADHYA PRADESH	D	D	D	D	D	D	D
21	GUJARAT REGION D.D. & N.H.	D	D	D	D	D	D	D
22	SAURASTRA KUTCH & DIU	D	D	D	D	D	ISOL	D
23	KONKAN & GOA	D	D	ISOL	ISOL	ISOL	ISOL	D
24	MADHYA MAHARASHTRA	D	ISOL	ISOL	ISOL	ISOL	D	D
25	MARATHAWADA	D	D	ISOL	ISOL	D	D	D
26	VIDARBHA	D	D	D	D	D	D	D
27	CHHATTISGARH	D	D	D	D	D	D	D
28	COASTAL ANDHRA PRADESH	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	D	ISOL	ISOL	ISOL	ISOL	ISOL	D
30	RAYALASEEMA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	WS ^{**}	WS [*]	FWS [*]	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	ISOL	SCT	WS	FWS	SCT	ISOL	ISOL
33	NORTH INT.KARNATAKA	ISOL	ISOL	SCT	ISOL	ISOL	ISOL	D
34	SOUTH INT.KARNATAKA	FWS	FWS [*]	FWS	SCT	ISOL	ISOL	ISOL
35	KERALA	FWS [*]	WS [*]	WS [*]	FWS	SCT	SCT	SCT
36	LAKSHADWEEP	ISOL	ISOL	FWS	SCT	ISOL	ISOL	ISOL
LEGENDS:								
WS	WIDE SPREAD / MOST PLACES (76-100%)			FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)			
SCT	SCATTERED / FEW PLACES (26% to 50%)			ISOL	ISOLATED (up to 25%)		D/DRY	NIL RAINFALL
* Heavy Rainfall (64.5-115.5 mm)		** Heavy to Very Heavy Rainfall (115.6-204.4 mm)			*** Extremely Heavy Rainfall (204.5 mm or more)			
• FOG	* SNOWFALL	# HAILSTORM		f HEAT WAVE (+4.5 °C to +6.4 °C)			f** SEVERE HEAT WAVE (> +6.4)	
s THUNDERSTORM WITH SQUALL/GUSTY WIND			DS/TS DUST/THUNDERSTORM		b COLD WAVE (-4.5 °C to -6.4 °C)		b SEVERE COLD WAVE (< -6.4)	

Table: 1.4

Met-Sub-Division	02-Nov Today	03Nov Sat	04Nov Sun	05Nov Mon	06Nov Tue
1. Andaman & Nicobar Islands	SCT	SCT	SCT	SCT	SCT
2. Arunachal Pradesh	ISOL	ISOL	SCT	ISOL	ISOL
3. Assam & Meghalaya	ISOL	ISOL	ISOL	DRY	DRY
4. N. M. M. & T.	ISOL	ISOL	DRY	DRY	DRY
5. S.H. West Bengal & Sikkim	DRY	ISOL	ISOL	ISOL	ISOL
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	ISOL	ISOL	DRY	DRY	DRY
8. Jharkhand	DRY	DRY	DRY	DRY	DRY
9. Bihar	DRY	DRY	DRY	DRY	DRY
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	ISOL	DRY	DRY	DRY
12. Uttarakhand	SCT	SCT	ISOL	DRY	DRY
13. Haryana, Chd & Delhi	ISOL	ISOL	DRY	DRY	DRY
14. Punjab	ISOL	DRY	DRY	DRY	DRY
15. Himachal Pradesh	WS	FWS	ISOL	DRY	DRY
16. Jammu & Kashmir	WS	SCT	ISOL	DRY	DRY
17. West Rajasthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	ISOL	ISOL	ISOL	ISOL
24. Madhya Maharashtra	ISOL	ISOL	ISOL	ISOL	ISOL
25. Marathawada	DRY	ISOL	ISOL	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	DRY	DRY
28. Coastal Andhra Pradesh	SCT	SCT	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	SCT	ISOL	ISOL	ISOL	ISOL
31. Tamilnadu & Puducherry	WS	FWS	SCT	ISOL	ISOL
32. Coastal Karnataka	SCT	WS	FWS	SCT	SCT
33. North Interior Karnataka	ISOL	SCT	ISOL	ISOL	ISOL
34. South Interior Karnataka	FWS	FWS	SCT	ISOL	ISOL
35. Kerala	WS	WS	FWS	SCT	SCT
36. Lakshadweep	ISOL	FWS	SCT	ISOL	ISOL

% Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

2. Reservoir Status (For the week ending on 01.11.2018)

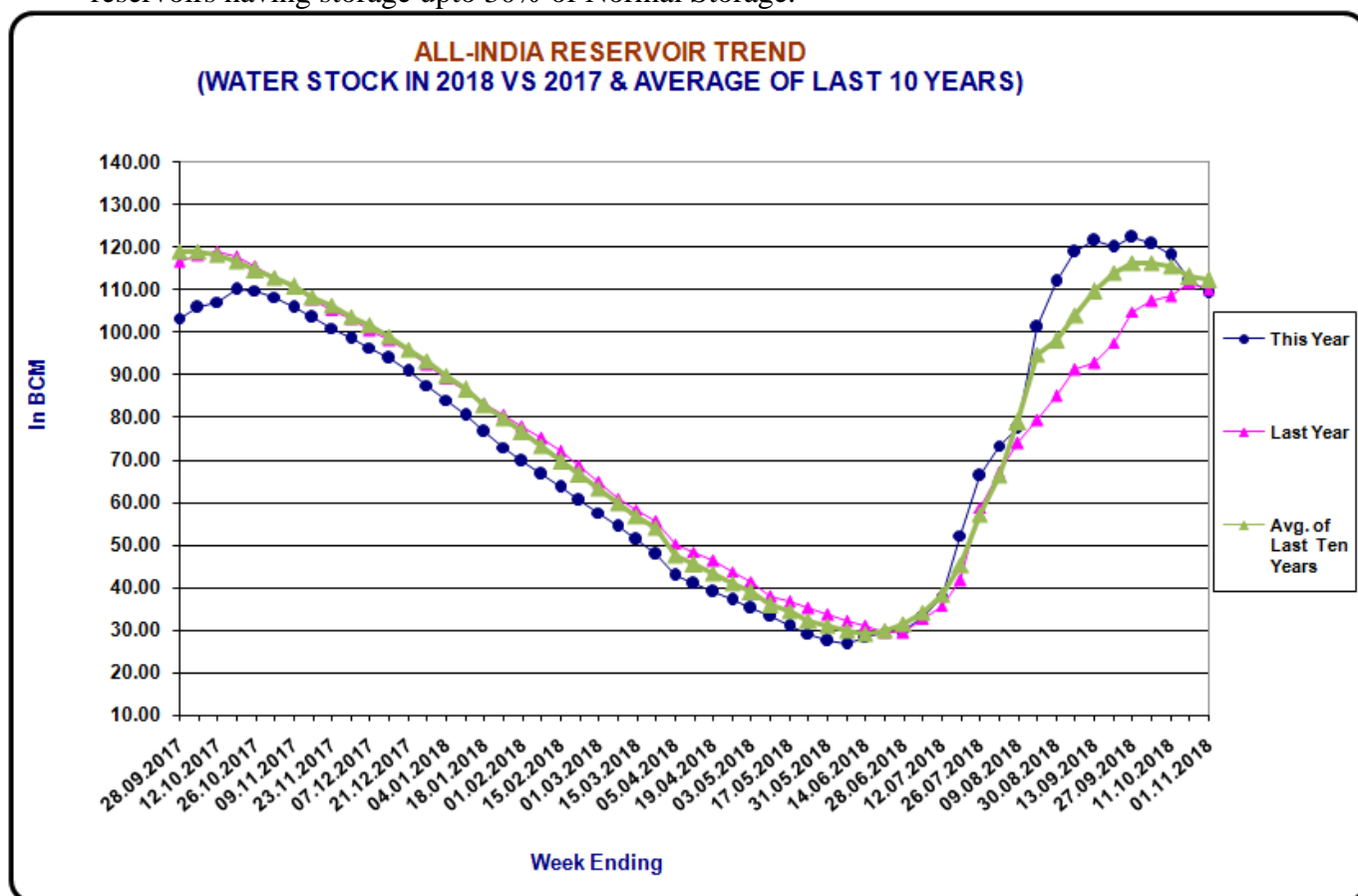
- **The Central Water Commission** monitors the live storage capacity of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **161.99** Billion Cubic Meters (BCM), which is about 63% of total reservoir capacity of 257.81 BCM in the country.
- Live Storage in 91 major reservoirs decreased to 109.25 BCM from the previous week's level of 112.67 BCM. Current year's storage position is lower than the last year's storage position of 110.15 BCM and lower than the average of last 10 year's storage position of 112.35 BCM.

Table – 2.1 : For 91 major reservoirs of the country

<u>Period</u>	Storage as % of FRL	Storage as % of last year	Storage as % of 10 year's average level
Current Week	67	99	97
Last Week	70	101	100
The percentage to live capacity at FRL was 68% on 01/11/2017, 70% on 01/11/2016, 56% on 29/10/2015 and 74% on 30/10/2014.			

Source: CWC

There were 66 reservoirs having storage more than 80% of normal storage, 16 reservoirs having storage between 51% to 80%, 5 reservoirs having storage between 31% to 50% and 4 reservoirs having storage upto 30% of Normal Storage.



Source: Central Water Commission

* The State wise details (reservoir position) are given in the Annex III.

3. Fertilizer Position:

Table – 3.1: Requirement, Receipt, Availability, Sales and Stock position of Major Fertilizers UREA, DAP, MOP, Complex and SSP during Rabi 2018-19 (As on 02.11.2018)

(in '000 tonnes)

Availability/Sale/Closing Stock	Urea	DAP	MOP	Complex	SSP
Opening Stock as on 01.10.2018	468	580	46	670	133
Requirement for Rabi 2018-19	15584	5046	1728	5219	2980
Cumulative Requirement during October, 2018	2995	1454	362	994	592
Cumulative Receipt upto 02.11.2018	2276	1025	324	961	449
Cumulative Availability upto 02.11.2018	2744	1605	370	1631	582
Cumulative Sales upto 02.11.2018	2134	1004	253	832	454
Closing Stock as on 02.11.2018	610	601	117	799	128

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

4. Pest & Diseases:

- Infestation of Brown Plant Hopper on Rice reported Low to Moderate at Sonapur, Bolangir, Bargarh and Sambhalpur districts of Odisha state, Mahrajganj and Siddarthnagar district of Uttar Pradesh and Bemetara and Raipur districts of Chattishgarh. The crop is booting to maturity stage. (An advisory already issued.)
- Incidence of Leaf folder on Rice reported Low to Moderate at Sonapur districts of Odisha state. The crop is booting to maturity stage. (An advisory is being issued.)
- No shortage of Chemical / Bio-pesticides was reported from any State / UT.

5. **Availability position of seeds and fertilizers has been found satisfactory.**

6. Progressive procurement of Rice as on 02.11.2018

Table: 6.1

(lakh tonnes)

State	Target in marketing season 2018-19 (Oct. – Sept.)	Progressive Procurement as on 02.11.2018	
		In Marketing season 2018-2019	In Marketing season 2017-2018
Andhra Pradesh	30.00		
Telangana	15.00	2.76	0.79
Bihar	8.00		
Chhattisgarh	40.00		
Haryana	39.75	36.57	37.54
Jharkhand	2.50		
Kerala	2.00	0.21	0.13
Madhya Pradesh	13.00		
Maharashtra	4.00		
Odisha	30.00		
Punjab	114.00	69.12	92.07
Tamil Nadu	8.00	0.82	
Uttar Pradesh	33.00	0.08	1.18
Uttrakhand	5.00	0.49	0.19
West Bengal	23.00		
All-India	370.00	110.19	132.06