

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: 14.11.2018

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 09.11.2018.

Summary observations of the Group on Agenda Items

- *In the post monsoon season, at All-India level, the rainfall during the week i.e. 01st November, 2018 – 07th November, 2018 has been 4% lower than Long Period Average (LPA). Rainfall in the four broad geographical divisions of the country during the above period have been higher than LPA by 404% in North West India but lower than LPA by 68% in Central India, 54% in South Peninsula and 17% in East & North East India.*
- *The cumulative rainfall in the country during the post monsoon season i.e. 01st October, 2018 to 07th November, 2018 has been 51% lower than LPA. Rainfall in the four broad geographical divisions of the country during the above period have been lower than LPA by 63% in Central India, 60% in East & North East India, 43% in South Peninsula and 33% in North West India.*
- *Out of 36 met sub-divisions, 1 met sub-division constituting 7% of the total area of the country has received large excess/excess rainfall, 5 met sub-divisions constituting 10% of the total area of the country has received normal rainfall, 30 met subdivisions constituting 83% 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 08th November, 2018 has been 107.88 BCM as against 105.91 BCM on 08.11.2017 (last year) and 109.84 BCM of normal (average of the last 10 years) storage. Current year's storage is 102% of last year's storage and nearly 98% of average of last 10 year's storage.*
- *All-India progressive procurement of Rice as on 09.11.2018 for 2018-19 was at 131.93 lakh tonnes against the procurement of 148.99 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 07th Nov., 2018

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

- **Rainfall during the week (01st November, 2018 to 07th November, 2018)** Rainfall was large excess/excess in 5 met sub-divisions, normal in 2 met sub-divisions, deficient/large deficient in 25 sub-divisions and no rain in 4 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 07th November, 2018)** Rainfall was large excess/excess in 1 met sub-division, normal in 5 met sub-divisions, deficient/large deficient in 30 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 (07.11.2018)				Cumulative (01.10.18 to 07.11.18)			
	(in mm)		Devi- ation (%)	Cate- gory	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	15.6	3.1	404	LE	22.5	33.7	-33	D
Central India	1.3	4.2	-68	LD	23.4	62.6	-63	LD
South Peninsular India	13.6	29.5	-54	D	105.9	185.5	-43	D
East & North-East India	7.4	8.9	-17	N	56.3	140.2	-60	LD
Country as a whole	9.1	9.5	-4	N	44.6	90.4	-51	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 07th Nov., 2018

No. of Sub-Divisions with rainfall	For the period from 1 st October to					
	06 NOV 2013	05 NOV 2014	04 NOV 2015	09 NOV 2016	08 NOV 2017	07 NOV 2018
Large Excess	-	-	-	-	02	01
Excess	21	04	02	06	08	00
Normal	05	06	08	10	10	05
Total	26	10	10	16	20	06
Deficient	10	10	05	07	05	08
Large Deficient	-	-	-	-	07	22
Scanty	00	15	21	13	-	-
No rain	00	01	00	00	04	00
Total	10	26	26	20	16	30
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	49%	(-) 30%	(-) 43%	(-) 35%	(-) 4%	(-) 51%

Source: IMD

- Sub-division-wise 5 days rainfall forecast from 09th Nov., 2018 to 13th 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	08 NOV	09 NOV	10 NOV	11 NOV	12 NOV	13 NOV	14 NOV
1	ANDAMAN & NICO.ISLANDS	FWS*	WS** [§]	WS** [§]	FWS* [§]	SCT	SCT	ISOL
2	ARUNACHAL PRADESH	D	ISOL*	ISOL*	D	D	D	D
3	ASSAM & MEGHALAYA	D	D	D	D	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	D	D	D	D	D	ISOL
5	SUB-HIM.W. BENG. & SIKKIM	D	ISOL	ISOL	D	D	D	D
6	GANGETIC WEST BENGAL	D	D	D	D	D	D	D
7	ODISHA	ISOL	D	D	D	ISOL	ISOL	ISOL
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	D	D	D	D	D
12	UTTARAKHAND	D	D	D	ISOL	ISOL	SCT	ISOL
13	HARYANA CHD. & DELHI	D	D	D	D	D	ISOL	ISOL
14	PUNJAB	D	D	D	D	ISOL	ISOL	D
15	HIMACHAL PRADESH	D	D	ISOL	ISOL	SCT	FWS	SCT
16	JAMMU & KASHMIR	ISOL	ISOL	SCT	SCT	FWS	WS*	FWS
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	D	D
23	KONKAN & GOA	D	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	D	D	D	D	D	D	D
25	MARATHAWADA	D	D	D	D	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	D	D	D	D	D	D	ISOL
29	TELANGANA	D	D	D	D	D	D	D
30	RAYALASEEMA	D	D	D	D	D	D	ISOL
31	TAMILNADU & PUDUCHERRY	FWS*	FWS*	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	D	D	D	ISOL	ISOL	D	D
33	NORTH INT.KARNATAKA	D	D	D	D	D	D	D
34	SOUTH INT.KARNATAKA	ISOL	ISOL	D	D	D	D	D
35	KERALA	SCT	SCT*	ISOL	ISOL	ISOL	ISOL	ISOL
36	LAKSHADWEEP	ISOL	ISOL	ISOL	ISOL	ISOL	D	D
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			⚡ HEAT WAVE (+4.5 °C to +6.4 °C)		⚡ SEVERE HEAT WAVE (> +6.4)	
§ THUNDERSTORM WITH SQUALL/GUSTY WIND		DS/TS DUST/THUNDERSTORM			⚡ COLD WAVE (-4.5 °C to -6.4 °C)		⚡ SEVERE COLD WAVE (< -6.4)	

Table: 1.4

Met-Sub-Division	09-Nov Today	10Nov Sat	11Nov Sun	12Nov Mon	13Nov Tue
1. Andaman & Nicobar Islands	WS	WS	FWS	SCT	SCT
2. Arunachal Pradesh	ISOL	ISOL	DRY	DRY	ISOL
3. Assam & Meghalaya	DRY	DRY	DRY	DRY	ISOL
4. N. M. M. & T.	DRY	DRY	DRY	DRY	ISOL
5. S.H. West Bengal & Sikkim	ISOL	ISOL	DRY	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	DRY	DRY	DRY	ISOL	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	DRY	DRY	DRY	DRY
12. Uttarakhand	DRY	DRY	ISOL	ISOL	ISOL
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	ISOL
14. Punjab	DRY	DRY	DRY	DRY	ISOL
15. Himachal Pradesh	DRY	ISOL	ISOL	SCT	FWS
16. Jammu & Kashmir	ISOL	SCT	SCT	FWS	WS
17. West Rajsthan	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	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	DRY	DRY
28. Coastal Andhra Pradesh	DRY	DRY	DRY	DRY	SCT
29. Telangana	DRY	DRY	DRY	DRY	ISOL
30. Rayalaseema	DRY	DRY	DRY	DRY	ISOL
31. Tamilnadu & Puducherry	FWS	ISOL	ISOL	ISOL	SCT
32. Coastal Karnataka	DRY	DRY	ISOL	ISOL	ISOL
33. North Interior Karnataka	DRY	DRY	DRY	DRY	DRY
34. South Interior Karnataka	ISOL	DRY	DRY	DRY	ISOL
35. Kerala	SCT	ISOL	ISOL	ISOL	ISOL
36. Lakshadweep	ISOL	ISOL	ISOL	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 Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

2. Reservoir Status (For the week ending on 08.11.2018)

- **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 107.88 BCM from the previous week's level of 109.25 BCM. Current year's storage position is higher than the last year's storage position of 105.91 BCM and lower than the average of last 10 year's storage position of 109.84 BCM.

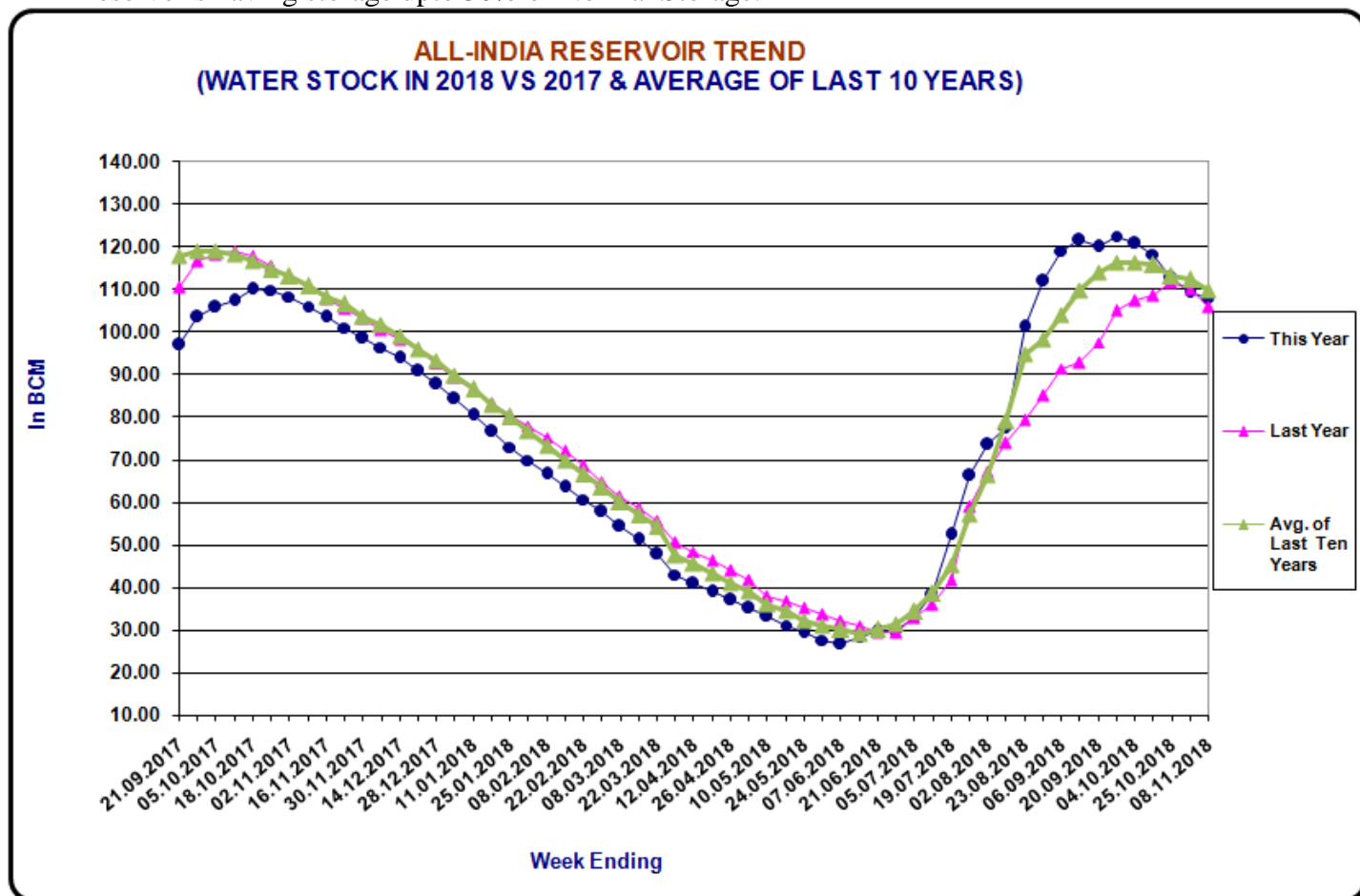
Table – 2.1 : For 91 major reservoirs of the country

Period	Storage as % of FRL	Storage as % of last year	Storage as % of 10 year's average level
Current Week	67	102	98
Last Week	67	99	97

The percentage to live capacity at FRL was 65% on 08/11/2017, 68% on 08/11/2016, 56% on 29/10/2015 and 74% on 30/10/2014.

Source: CWC

There were 65 reservoirs having storage more than 80% of normal storage, 16 reservoirs having storage between 51% to 80%, 6 reservoirs having storage between 31% to 50% and 4 reservoirs having storage upto 30% of Normal Storage.



Source: Central Water Commission

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 07.11.2018)

(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 to November 2018	6121	2818	749	1973	1215
Cumulative Receipt upto 07.11.2018	2632	1223	367	1102	513
Cumulative Availability upto 07.11.2018	3101	1803	412	1773	646
Cumulative Sales upto 07.11.2018	2399	1175	270	917	515
Closing Stock as on 07.11.2018	702	628	142	856	131

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

4. Pest & Diseases:

- Overall intensity of pests and diseases remained below Economic Threshold Level (ETL).
- 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 09.11.2018

Table: 6.1

(lakh tonnes)

State	Target in marketing season 2018-19 (Oct. – Sept.)	Progressive Procurement as on 09.11.2018	
		In Marketing season 2018-2019	In Marketing season 2017-2018
Andhra Pradesh	30.00		
Telangana	15.00	5.10	2.02
Bihar	8.00		
Chhattisgarh	40.00		
Haryana	39.75	37.80	38.80
Jharkhand	2.50		
Kerala	2.00	0.33	0.30
Madhya Pradesh	13.00		
Maharashtra	4.00	0.01	0.00
Odisha	30.00		
Punjab	114.00	86.77	105.38
Tamil Nadu	8.00	0.88	0.00
Uttar Pradesh	33.00	0.15	2.08
Uttrakhand	5.00	0.74	0.25
West Bengal	23.00		
All-India	370.00	131.93	148.99