

F. No. 3-1/ 2019-20-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: 11.06.2019

**SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON
07.06.2019.**

Summary observations of the Group on Agenda Items

- *The All-India level rainfall during the week i.e. 30th May, 2019 – 05th June, 2019 has been 40% 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 52% in Central India, by 49% in East & North East India, by 27% in North West India and by 23% in South Peninsula.*
- *The cumulative rainfall in the country during the pre monsoon season i.e. 01st March, 2019 to 31st May, 2019 has been 25% 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 47% in South Peninsula, 30% in North West India, 18% in Central India and 14% in East & North East India.*
- *For pre monsoon season 01.03.2019 to 31.05.2019 out of 36 met sub-divisions, 4 met sub-divisions constituting 15% of the total area of the country has received large excess/excess rainfall, 9 met sub-divisions constituting 28% of the total area of the country has received normal rainfall and 23 met sub-divisions constituting 57% 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 06th June, 2019 has been 30.46 BCM as against 26.69 BCM on 06.06.2018 (last year) and 29.54 BCM of normal (average of the last 10 years) storage. Current year's storage is 114% of last year's storage and nearly 103% of average of last 10 year's storage.*
- *All-India progressive procurement of Rice as on 06.06.2019 for 2018-19 was at 422.99 lakh tonnes against the procurement of 354.81 lakh tonnes in the corresponding period of last year. The procurement of wheat for the Rabi Marketing Season (RMS) 2019-20 was 337.65 lakh tonnes against the procurement of 346.09 lakh tonnes in the corresponding period of RMS 2018-19.*

1. Pre Monsoon Season (March – May) during the week ending 05th June, 2019

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

- **Rainfall during the week (30th May, 2019 to 05th June, 2019)** Rainfall was large excess/excess in 4 met sub-divisions, normal in 6 met sub-divisions, deficient/large deficient in 24 sub-divisions and no rain in 2 met sub-divisions out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st March, 2019 to 31st May, 2019)** Rainfall was large excess/excess in 4 met sub-divisions, normal in 9 met sub-divisions and deficient/large deficient in 23 sub-divisions out of 36 meteorological sub-divisions.

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

Region	Week Ending (05.06.2019)				Cumulative (01.03.19 to 31.05.19)			
	(in mm)		Devi- ation (%)	Cate- gory	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	5.8	8.0	-27	D	78.1	111.6	-30	D
Central India	5.7	11.8	-52	D	32.7	40.0	-18	N
South Peninsular India	19.1	24.7	-23	D	65.8	123.7	-47	D
East & North-East India	28.5	55.6	-49	D	320.4	372.3	-14	N
Country as a whole	12.0	20.1	-40	D	99.0	131.5	-25	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 March, 2019 to 31st May, 2019

No. of Sub-Divisions with rainfall	For the period from 1 st March to					
	31 MAY 2014	31 MAY 2015	31 MAY 2016	31 MAY 2017	31 MAY 2018	31 MAY 2019
Large Excess	-	-	-	02	03	01
Excess	15	26	08	03	06	03
Normal	12	08	16	13	10	09
Total	27	34	24	18	19	13
Deficient	07	02	09	15	12	13
Large Deficient	-	-	-	03	05	10
Scanty	02	00	03	-	-	-
No rain	00	00	00	00	00	00
Total	09	02	12	18	17	23
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 1	38%	(-) 3%	(-) 2%	(-) 11%	(-) 25%

Source: IMD

➤ Sub-division-wise 5 days rainfall forecast from 07th June, 2019 to 11th June, 2019 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-2019								
Sr. No	MET.SUB-DIVISIONS	06 JUN	07 JUN	08 JUN	09 JUN	10 JUN	11 JUN	12 JUN
1	ANDAMAN & NICO.ISLANDS	FWS	FWS	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	SCT	FWS	FWS	FWS*	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS*	FWS* ^{TS}	WS ^{TS}	WS*	WS*	WS*	WS*
4	NAGA.MANI.MIZO.& TRIPURA	FWS* ^{TS}	FWS** ^{TS}	WS**	WS*	WS	WS*	WS*
5	SUB-HIM.W. BENG. & SIKKIM	FWS ^{TS}	FWS ^{TS}	FWS ^{TS}	FWS ^{TS}	FWS ^{TS}	WS ^{TS}	FWS ^{TS}
6	GANGETIC WEST BENGAL	SCT* ^{TS}	SCT* ^{TS}	SCT ^{TS}	SCT ^{TS}	SCT	ISOL ^{TS}	SCT*
7	ODISHA	SCT ^{TS}	SCT ^{TS}	FWS* ^{TS}	SCT ^{TS}	ISOL	ISOL	ISOL ^{TS}
8	JHARKHAND	ISOL ^{TS}	ISOL ^{TS}	SCT ^{TS}	ISOL	ISOL	ISOL ^{TS}	ISOL ^{TS}
9	BIHAR	ISOL	ISOL ^{TS}	ISOL ^{TS}	ISOL ^{TS}	ISOL	SCT	SCT
10	EAST UTTAR PRADESH	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	ISOL ^{⬇️}	ISOL	ISOL
11	WEST UTTAR PRADESH	ISOL ^{⬇️} ^{TSDS}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	ISOL ^{TSDS}	DRY
12	UTTARAKHAND	SCT ^{⬇️}	ISOL	DRY	DRY	ISOL	ISOL ^{TS}	ISOL ^{TS}
13	HARYANA CHD. & DELHI	ISOL ^{⬇️} ^{TSDS}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY	ISOL ^{TSDS}
14	PUNJAB	ISOL ^{⬇️} ^{TSDS}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	ISOL ^{TSDS}	ISOL ^{TSDS}
15	HIMACHAL PRADESH	FWS ^{TS}	ISOL	ISOL	DRY	ISOL	SCT ^{TS}	SCT ^{TS}
16	JAMMU & KASHMIR	FWS ^{TS}	ISOL	ISOL	ISOL	SCT	FWS ^{TS}	WS ^{TS}
17	WEST RAJASTHAN	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	ISOL ^{⬇️}	DRY	DRY
18	EAST RAJASTHAN	ISOL ^{⬇️} ^{TSDS}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	ISOL ^{⬇️}	DRY	ISOL ^{TSDS}
19	WEST MADHYA PRADESH	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY	ISOL
20	EAST MADHYA PRADESH	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	DRY ^{⬇️}	ISOL	ISOL
21	GUJARAT REGION D.D. & N.H.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASTRA KUTCH & DIU	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL*	ISOL	ISOL	SCT	SCT	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL ^{TS}	ISOL ^{TS}	ISOL	ISOL	ISOL	ISOL	ISOL ^{TS}
25	MARATHAWADA	ISOL ^{⬇️} ^{TS}	ISOL ^{⬇️}	ISOL ^{⬇️}	ISOL	ISOL	ISOL	ISOL ^{TS}
26	VIDARBHA	ISOL ^{⬇️} ^{TS}	ISOL ^{⬇️} ^{TS}	ISOL ^{⬇️} ^{TS}	DRY ^{⬇️}	DRY ^{⬇️}	ISOL ^{TS}	ISOL ^{TS}
27	CHHATTISGARH	ISOL ^{⬇️} ^{TS}	ISOL ^{⬇️} ^{TS}	ISOL ^{⬇️} ^{TS}	ISOL ^{⬇️} ^{TS}	ISOL ^{TS}	ISOL	ISOL
28	COASTAL A. PR. & YANAM	ISOL ^{TS}	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL ^{⬇️} ^{TS}	ISOL ^{⬇️} ^{TS}	ISOL ^{⬇️}	ISOL ^{⬇️}	ISOL ^{⬇️}	ISOL	ISOL
30	RAYALASEEMA	SCT ^{TS}	ISOL ^{TS}	SCT* ^{TS}	SCT	ISOL	ISOL	ISOL
31	TAMIL. PUDU. & KARAICAL	ISOL* ^{TS}	ISOL ^{TS}	ISOL*	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	FWS*	SCT	FWS	FWS	FWS	SCT	SCT
33	NORTH INT.KARNATAKA	FWS* ^{TS}	SCT ^{TS}	ISOL	ISOL	ISOL	SCT	SCT
34	SOUTH INT.KARNATAKA	FWS* ^{TS}	FWS ^{TS}	FWS**	FWS*	FWS	SCT	SCT
35	KERALA & MAHE	WS* ^{TS}	WS* ^{TS}	WS** ^{TS}	WS**	WS*	WS*	FWS*
36	LAKSHADWEEP	WS ^{TS}	WS ^{TS}	WS*	WS*	WS**	WS**	FWS
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)	

Source: IMD

Table: 1.4

Met-Sub-Division	07-Jun Today	08Jun Sat	09Jun Sun	10Jun Mon	11Jun Tue
1. Andaman & Nicobar Islands	FWS	FWS	FWS	FWS	WS
2. Arunachal Pradesh	FWS	FWS	FWS	FWS	WS
3. Assam & Meghalaya	FWS	WS	WS	WS	WS
4. N. M. M. & T.	FWS	WS	WS	WS	WS
5. S.H. West Bengal & Sikkim	FWS	FWS	FWS	FWS	WS
6. Gangetic West Bengal	SCT	SCT	SCT	SCT	ISOL
7. Odisha	SCT	FWS	SCT	ISOL	ISOL
8. Jharkhand	ISOL	SCT	ISOL	ISOL	DRY
9. Bihar	ISOL	ISOL	ISOL	ISOL	ISOL
10. East Uttar Pradesh	DRY	DRY	DRY	ISOL	ISOL
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	ISOL	DRY	DRY	ISOL	ISOL
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	ISOL
14. Punjab	DRY	DRY	DRY	ISOL	ISOL
15. Himachal Pradesh	ISOL	ISOL	DRY	ISOL	SCT
16. Jammu & Kashmir	ISOL	ISOL	ISOL	SCT	FWS
17. West Rajsthan	DRY	DRY	DRY	ISOL	DRY
18. East Rajasthan	DRY	DRY	DRY	ISOL	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	ISOL	ISOL	SCT	SCT	SCT
24. Madhya Maharashtra	ISOL	ISOL	ISOL	ISOL	ISOL
25. Marathawada	ISOL	ISOL	ISOL	ISOL	ISOL
26. Vidharbha	ISOL	ISOL	DRY	DRY	DRY
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	DRY
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	ISOL	SCT	SCT	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	SCT	FWS	FWS	FWS	WS
33. North Interior Karnataka	SCT	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	FWS	FWS	FWS	FWS	FWS
35. Kerala & Mahe	WS	WS	WS	WS	WS
36. Lakshadweep	WS	WS	WS	WS	WS

% 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		

Source: IMD

2. Reservoir Status (For the week ending on 06.06.2019)

- **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 30.46 BCM from the previous week's level of 31.65 BCM. Current year's storage position is higher than the last year's storage position of 26.69 BCM and the average of last 10 year's storage position of 29.54 BCM.

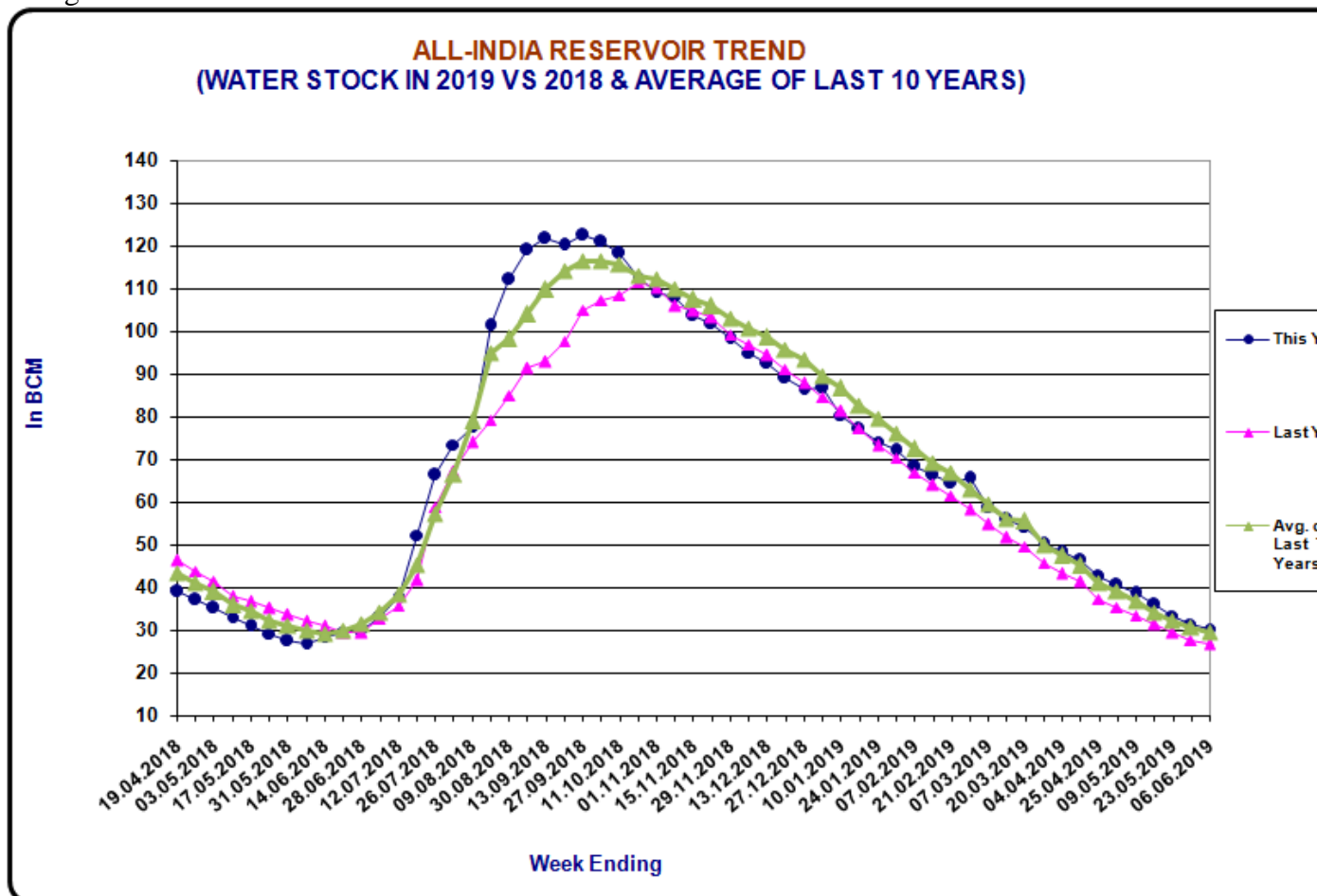
Table – 2.1 : For 91 major reservoirs of the country

<u>Period</u>	Storage as % of FRL	Storage as % of last year	Storage as % of 10 year's average level
Current Week	19	114	103
Last Week	20	114	103

The percentage to live capacity at FRL was 16% on 06/06/2018, 20% on 06/06/2017, 17% on 26/05/2016 and 27% on 28/05/2015.

Source: CWC

There were 43 reservoirs having storage more than 80% of normal storage, 20 reservoirs having storage between 51% to 80%, 7 reservoirs having storage between 31% to 50% and 21 reservoirs having storage upto 30% of Normal Storage out of these 8 reservoirs having no live 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 Kharif 2018-19 (As on 31.05.2019)

(in '000 tonnes)

Availability/Sale/Closing Stock	Urea	DAP	MOP	Complex	SSP
Opening Stock as on 01.04.2019	613	833	265	1281	128
Requirement for Kharif 2019	15672	5121	2038	5296	2505
Estimated Requirement during May 2019	2300	802	281	650	356
Cumulative Receipt upto 31.05.2019	4210	1869	455	1322	586
Cumulative Availability upto 31.05.2019	4823	2702	720	2603	714
Cumulative Sales upto 31.05.2019	3738	1122	321	870	507
Closing Stock as on 31.05.2019	1085	1580	399	1733	207

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

4. Pest & Diseases:

- Incidence of Fall army worm reported at low to moderate intensity on maize crop in ImphalWest/ImphalEast/Thoubal/Bishnupur/Kangpokpi districts of Manipur state, Dimapur district of Nagaland state.
- 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 06.06.2019

Table: 6.1

(lakh tonnes)

State	Target in marketing season 2018-19 (Oct. – Sept.)	Progressive Procurement as on 06.06.2019	
		In Marketing season 2018-2019	In Marketing season 2017-2018
Andhra Pradesh	52.54	40.96	37.25
Telangana	45.00	51.12	35.42
Bihar	8.00	9.28	7.93
Chhattisgarh	40.00	40.80	32.07
Haryana	39.75	39.41	39.92
Jharkhand	2.50	1.53	1.43
Kerala	3.70	4.60	3.21
Madhya Pradesh	13.00	13.95	11.00
Maharashtra	5.50	4.55	1.67
Odisha	37.00	36.59	28.65
Punjab	114.00	113.34	118.39
Tamil Nadu	14.80	11.69	7.76
Uttar Pradesh	33.00	32.33	28.75
Uttrakhand	5.00	4.62	0.38
West Bengal	31.00	17.12	0.46
All-India	448.04	422.99	354.81