

F. No. 3-1/ 2017-18-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: 05.06.2018

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 01.06.2018.

Summary observations of the Group on Agenda Items

- *In the pre monsoon season, at All-India level, the rainfall during the week (24th May, 2018 – 30th May, 2018) has been 14% higher 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 79% in South Peninsula, 23% in East & North East India but lower than LPA by 84% in North West India and 49% in Central India.*
- *The cumulative rainfall in the country during the pre monsoon season i.e. 01st March to 30th May, 2018 has been 10% 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 35% in South Peninsula but lower than LPA by 29% in North West India, 18% in East & North East India and 9% in Central India.*
- *Out of 36 met sub-divisions, 6 met subdivision constituting 11% of the total area of the country has received large excess/excess rainfall, 13 met sub-divisions constituting 34% of the total area of the country has received normal rainfall, 17 met subdivisions constituting 55% 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 31st May, 2018 has been 27.66 BCM as against 33.67 BCM on 31.05.2017 (last year) and 31.11 BCM of normal (average of the last 10 years) storage. Current year's storage is 82% of last year's storage and 89% of average of last 10 year's storage.*
- *As per latest information available on sowing of Kharif crops, around 7% of the normal area under Kharif crops has been sown upto 01.06.2018. Area sown under all Kharif crops taken together has been reported 72.61 lakh hectares at All India level as compared to 77.67 lakh hectares in the corresponding period of last year and 69.12 lakh ha. normal area as on date.*
- *All-India progressive procurement of Rice as on 01.06.2018 for 2017-18 was at 353.75 lakh tonnes against the procurement of 368.29 lakh tonnes in the corresponding period of last year. The procurement of wheat for the rabi marketing season (RMS) 2018-19 was 341.91 lakh tonnes which was higher than the procurement of 298.75 lakh tonnes in the corresponding period of RMS 2017-18.*

1. Pre Monsoon Season (March – May) during the week ending 30th May, 2018

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

- **Rainfall during the week (24th May, 2018 to 30th May, 2018)** Rainfall was large excess/excess in 12 met sub-divisions, normal in 2 met sub-division, deficient/large deficient in 17 sub-divisions and no rain in 5 sub-divisions out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st March, 2018 to 30th May, 2018)** Rainfall was large excess/excess in 6, normal in 13 met sub-divisions, deficient/large deficient in 17 sub-divisions out of 36 meteorological sub-divisions.

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

Region	Week Ending (30.05.2018)				Cumulative (01.03.18 to 30.05.18)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	1.0	6.5	-84	LD	78.9	110.4	-29	D
Central India	3.1	6.1	-49	D	35.7	39.0	-9	N
South Peninsular India	36.4	20.3	79	LE	162.9	121.0	35	E
East & North-East India	61.5	50.1	23	E	297.6	364.8	-18	N
Country as a whole	18.3	16.1	14	N	115.7	129.1	-10	N

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, 2018 to 30th May, 2018

No. of Sub-Divisions with rainfall	For the period from 1 st March to					
	31 MAY 2013	31 MAY 2014	31 MAY 2015	31 MAY 2016	31 MAY 2017	30 MAY 2018
Large Excess	-	-	-	-	02	03
Excess	04	15	26	08	03	03
Normal	12	12	08	16	13	13
Total	16	27	34	24	18	19
Deficient	13	07	02	09	15	12
Large Deficient	-	-	-	-	03	05
Scanty	07	02	00	03	-	-
No rain	00	00	00	00	00	00
Total	20	09	02	12	18	17
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 22%	(-) 1%	38%	(-) 3%	(-) 2%	(-) 10%

Source: IMD

- Sub-division-wise 5 days rainfall forecast from 01st June, 2018 to 05th June, 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

TABLE-1(B)								
METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS-2018								
Sr. No	MET.SUB-DIVISIONS	31 MAY	01 JUN	02 JUN	03 JUN	04 JUN	05 JUN	06 JUN
1	ANDAMAN & NICO.ISLANDS	FWS	FWS	FWS	FWS	WS [•]	WS [•]	WS [•]
2	ARUNACHAL PRADESH	SCT	FWS	WS	WS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	FWS [•]	FWS [•]	WS [•]	WS [•]	FWS	FWS [•]	WS [•]
4	NAGA.MANI.MIZO.& TRIPURA	WS [•]	WS [•]	WS [•]	WS [•]	WS	WS [•]	WS [•]
5	SUB-HIM.W. BENG. & SIKKIM	FWS ^{TS}	FWS ^{TS}	FWS [•]	FWS	FWS	FWS	WS [•]
6	GANGETIC WEST BENGAL	FWS ^{TS} §	SCT ^{TS} §	SCT ^{TS}	ISOL	ISOL	SCT	SCT
7	ODISHA	FWS ^{TS} §	SCT ^{TS} §	SCT	SCT	SCT	FWS	FWS [•]
8	JHARKHAND	FWS ^{TS} §	FWS ^{TS} §	SCT ^{TS}	ISOL	SCT ^{TS}	SCT	SCT
9	BIHAR	FWS ^{TS} §	SCT	SCT	SCT	SCT	ISOL	ISOL
10	EAST UTTAR PRADESH	ISOL ^{TS}	ISOL ^{TS} §	ISOL ^{TS} §	ISOL ^{TS}	ISOL ^{TS}	ISOL	ISOL
11	WEST UTTAR PRADESH	ISOL ^{TS}	ISOL ^{TS}	ISOL ^{TS} §	ISOL ^{TS}	ISOL ^{TS}	ISOL	ISOL
12	UTTARAKHAND	SCT ^{TS}	SCT ^{TS}	SCT ^{TS}	ISOL ^{TS}	SCT ^{TS}	FWS	FWS
13	HARYANA CHD. & DELHI	D	D	D	D	D	D	D
14	PUNJAB	D	D	D	D	D	D	ISOL
15	HIMACHAL PRADESH	D	ISOL	D	D	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR	ISOL	ISOL	D	D	D	D	ISOL
17	WEST RAJASTHAN	↑ D ^{TS}	D	D	↑ D	D	D	D
18	EAST RAJASTHAN	↑ ISOL ^{TS}	ISOL	D	↑ D	D	ISOL	ISOL
19	WEST MADHYA PRADESH	ISOL ^{TS}	ISOL	↑ ISOL	↑ D	D	ISOL	ISOL
20	EAST MADHYA PRADESH	↑ ISOL ^{TS}	↑ ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
21	GUJARAT REGION D.D. & N.H.	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
22	SAURASTRA KUTCH & DIU	ISOL	ISOL	ISOL	ISOL	ISOL	D	D
23	KONKAN & GOA	ISOL ^{TS}	ISOL	SCT ^{TS}	FWS	FWS	FWS	FWS
24	MADHYA MAHARASHTRA	ISOL	ISOL ^{TS}	SCT ^{TS}	SCT	SCT	FWS	FWS
25	MARATHAWADA	ISOL ^{TS}	ISOL ^{TS}	SCT ^{TS}	SCT	SCT	WS	FWS
26	VIDARBHA	↑ ISOL ^{TS}	ISOL	ISOL	ISOL	ISOL	SCT	SCT
27	CHHATTISGARH	SCT ^{TS} §	ISOL	ISOL	ISOL	ISOL	SCT	SCT
28	COASTAL ANDHRA PRADESH	ISOL ^{TS}	ISOL	SCT	FWS [•]	FWS [•]	FWS	FWS [•]
29	TELANGANA	ISOL ^{TS}	ISOL ^{TS}	SCT ^{TS}	SCT	FWS [•]	FWS	FWS
30	RAYALASEEMA	ISOL ^{TS}	ISOL	ISOL [•]	SCT	SCT	FWS	FWS [•]
31	TAMILNADU & PUDUCHERRY	ISOL ^{TS}	ISOL	SCT	ISOL	ISOL	SCT	SCT
32	COASTAL KARNATAKA	FWS	FWS	FWS [•]	FWS [•]	FWS [•]	FWS [•]	FWS [•]
33	NORTH INT.KARNATAKA	SCT ^{TS}	SCT ^{TS}	FWS [•]	FWS [•]	FWS [•]	FWS [•]	FWS [•]
34	SOUTH INT.KARNATAKA	SCT	SCT	FWS [•]	FWS	FWS	FWS [•]	FWS [•]
35	KERALA	FWS [•]	FWS	FWS [•]	FWS [•]	FWS [•]	FWS	WS
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	WS	WS [•]	WS [•]
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	01-Jun Today	02Jun Sat	03Jun Sun	04Jun Mon	05Jun Tue
1. Andaman & Nicobar Islands	FWS	FWS	FWS	WS	WS
2. Arunachal Pradesh	FWS	WS	WS	FWS	FWS
3. Assam & Meghalaya	FWS	WS	WS	FWS	FWS
4. N. M. M. & T.	WS	WS	WS	WS	WS
5. S.H. West Bengal & Sikkim	FWS	FWS	FWS	FWS	FWS
6. Gangetic West Bengal	SCT	SCT	ISOL	ISOL	ISOL
7. Odisha	SCT	SCT	SCT	SCT	SCT
8. Jharkhand	FWS	SCT	ISOL	SCT	SCT
9. Bihar	SCT	SCT	SCT	SCT	SCT
10. East Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
11. West Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
12. Uttarakhand	SCT	SCT	ISOL	SCT	SCT
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	ISOL	DRY	DRY	ISOL	ISOL
16. Jammu & Kashmir	ISOL	DRY	DRY	DRY	DRY
17. West Rajasthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	ISOL	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	ISOL	ISOL	DRY	ISOL	ISOL
20. East Madhya Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
21. Gujarat Region	ISOL	ISOL	ISOL	ISOL	ISOL
22. Saurashtra & Kutch	ISOL	ISOL	ISOL	ISOL	ISOL
23. Konkan & Goa	ISOL	SCT	FWS	FWS	FWS
24. Madhya Maharashtra	ISOL	SCT	SCT	SCT	SCT
25. Marathawada	ISOL	SCT	SCT	SCT	SCT
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal Andhra Pradesh	ISOL	SCT	FWS	FWS	FWS
29. Telangana	ISOL	SCT	SCT	FWS	FWS
30. Rayalaseema	ISOL	ISOL	SCT	SCT	SCT
31. Tamilnadu & Puducherry	ISOL	SCT	ISOL	ISOL	ISOL
32. Coastal Karnataka	FWS	FWS	FWS	FWS	FWS
33. North Interior Karnataka	SCT	FWS	FWS	FWS	FWS
34. South Interior Karnataka	SCT	FWS	FWS	FWS	FWS
35. Kerala	FWS	FWS	FWS	FWS	FWS
36. Lakshadweep	FWS	FWS	FWS	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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

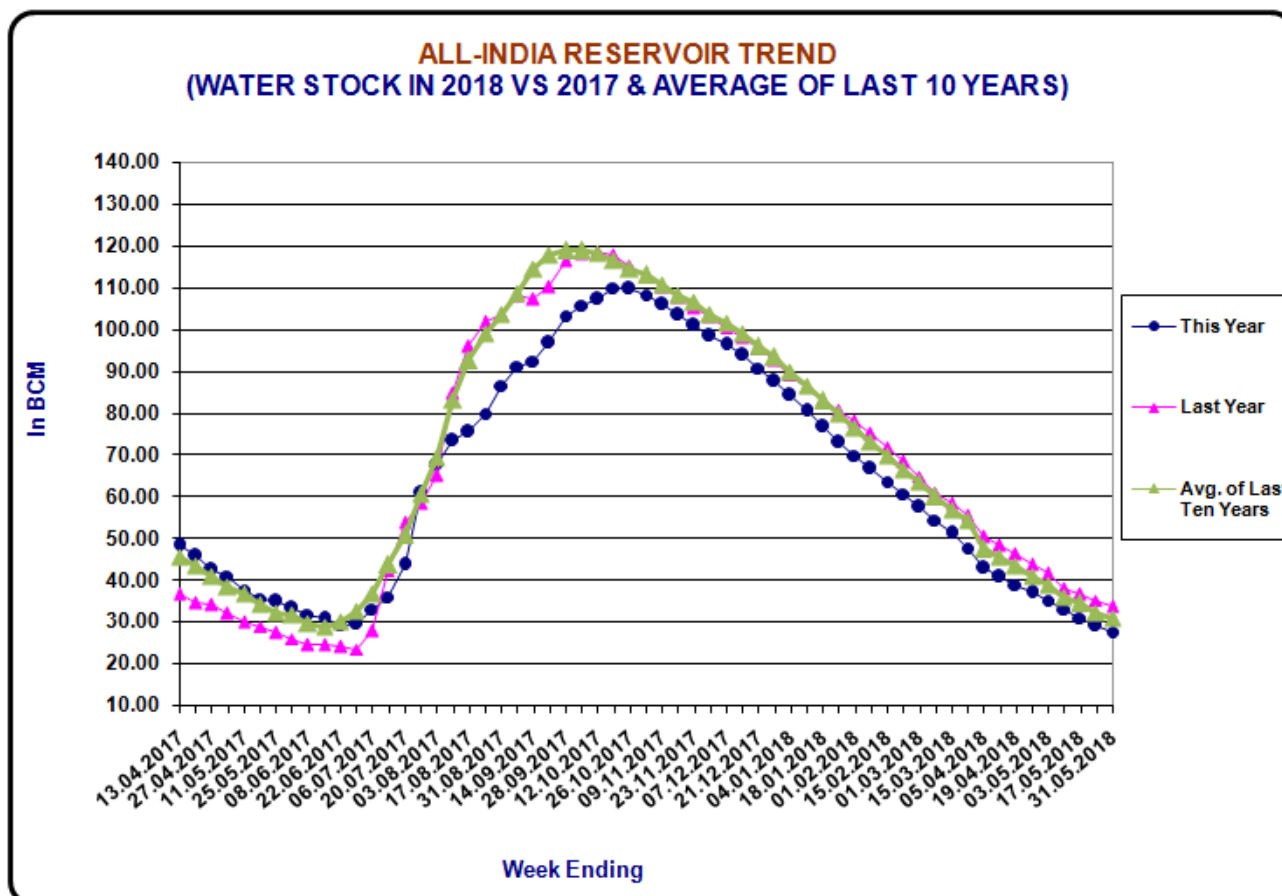
2. Reservoir Status (For the week ending on 31.05.2018)

- **The Central Water Commission** monitors the live storage 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.
- Water stock in 91 major reservoirs decreased to 27.66 BCM from the previous week's level of 29.21 BCM. Current storage is lower than the last year's position of 33.67 BCM and the average of last 10 year's storage of 31.11 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	17	82	89
Last Week	19	83	91
The percentage to live capacity at FRL was 21% on 31/05/2017, 17% on 31/05/2016, 28% on 29/05/2015 and 27% on 28/05/2014.			
<i>Source: CWC</i>			

There were 55 reservoirs having storage more than 80% of normal storage, 13 reservoirs having storage between 50% to 80%, 10 reservoir having storage between 30% to 50% and 13 reservoirs having storage upto 30% of Normal Storage. Out of 91 reservoirs, there are 6 reservoirs 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 2018 (As on 31.05.2018)

(in '000 Tonnes)

Availability / Sale / Closing Stock	Urea	DAP	MOP	Complex	SSP
Opening Stock as on 01.04.2018	1004	193	88	727	161
Requirement for Kharif, 2018	14891	4918	2025	4973	2625
Requirement for May, 2018	2096	765	279	640	363
Availability upto 31.05.2018	5417	1337	671	2055	692
Sales upto 31.05.2018	3545	918	392	732	469
Closing Stock upto 31.05.2018	1872	419	279	1322	223

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. All India Crop Situation – Kharif (2018-19) as on 01.06.2018

Table: 6.1

All India Crop Situation - Kharif (2018-19) as on 01.06.2018							
(In lakh hectares)							
Crop Name	Normal Area for whole Kharif Season	Normal Area as on date	Area sown reported			Absolute Change over (+/-)	
			This Year 2017	% of Normal for whole season	Last Year 2016	Normal as on date	Last Year
Rice	395.39	3.13	2.95	0.7	5.20	-0.2	-2.3
Jowar	22.34	0.39	0.55	2.5	0.70	0.2	-0.2
Bajra	74.03	0.01	0.01	0.0	0.01	0.0	0.0
Maize	74.22	0.35	0.52	0.7	0.71	0.2	-0.2
Total Coarse Cereals	188.55	1.75	2.31	1.2	2.65	0.6	-0.3
Total Cereals	583.94	4.88	5.25	0.9	7.84	0.4	-2.6
Tur	41.90	0.03	0.08	0.2	0.10	0.1	0.0
Urad	27.00	0.15	0.28	1.0	0.42	0.1	-0.1
Moong	24.93	0.11	0.23	0.9	0.32	0.1	-0.1
Kulthi	2.27	0.01	0.04	1.9	0.04	0.0	0.0
Others	15.83	0.20	0.45	2.8	0.73	0.2	-0.3
Total Pulses	111.93	0.49	1.08	1.0	1.61	0.6	-0.5
Total Foodgrains	695.87	5.37	6.33	0.9	9.46	1.0	-3.1
Groundnut	42.01	0.11	0.12	0.3	0.12	0.0	0.0
Soyabean	112.51	0.04	0.08	0.1	0.09	0.0	0.0
Sunflower	2.24	0.09	0.09	4.2	0.09	0.0	0.0
Sesamum	17.50	0.26	0.20	1.1	0.28	-0.1	-0.1
Nigerseed	2.70	0.00	0.01	0.3	0.00	0.0	0.0
Castorseed	10.51	0.01	0.01	0.1	0.00	0.0	0.0
Total Oilseeds	187.47	0.50	0.51	0.26	0.58	0.0	-0.1
Cotton	119.75	11.58	9.96	8.3	12.18	-1.6	-2.2
Sugarcane	48.84	45.02	49.32	101.0	48.72	4.3	0.6
Jute & Mesta	8.11	6.65	6.50	80.1	6.73	-0.2	-0.2
All- Crops	1060.04	69.12	72.61	6.8	77.67	3.5	-5.1

Source: Crops & TMOP Divisions, DAC&FW

Note: Area figures are as per eye assessment of State Agriculture Departments.

Normal Area: 5 years average of the area during the period of 2012-13 to 2016-17.

7. Progressive procurement of Rice as on 01.06.2018

Table: 7.1

(lakh tonnes)

State	Target in marketing season 2017-18 (Oct. – Sept.)	Progressive Procurement as on 01.06.2018	
		In Marketing season 2017-2018	In Marketing season 2016-2017
Andhra Pradesh	43.00	36.74	35.72
Telangana	34.00	34.92	33.27
Bihar	12.00	7.93	12.34
Chhattisgarh	48.00	32.07	40.22
Haryana	30.00	39.92	35.70
Jharkhand	2.50	1.43	1.33
Kerala	2.32	3.26	3.03
Madhya Pradesh	13.00	10.96	13.14
Maharashtra	4.34	1.66	2.58
Odisha	37.00	28.65	29.33
Punjab	115.00	118.33	110.52
Tamil Nadu	15.00	7.78	1.41
Uttar Pradesh	37.00	28.75	23.54
Uttrakhand	7.00	0.38	7.06
West Bengal	27.00	0.45	18.47
All-India	430.00	353.75	368.29

8. Progressive procurement of Wheat as on 01.06.2018

Table: 8.1

(lakh tonnes)

State	Target in marketing season 2018-19	Progressive Procurement as on 01.06.2018	
		In Marketing season 2018-2019	In Marketing season 2017-2018
Gujarat	0.50	0.37	0.06
Haryana	74.00	87.39	74.32
Madhya Pradesh	67.00	72.81	67.24
Punjab	119.00	126.91	117.05
Rajasthan	16.00	14.90	11.39
Uttar Pradesh	40.00	38.41	28.58
Uttrakhand	1.00	0.97	0.02
All-India	320.00	341.91	298.75