

**CROP WEATHER WATCH
GROUP (CWWG) MEETING
HELD ON 26.06.2023**



ECONOMICS & STATISTICS DIVISION

Summary Points of the CWWG meeting:

Preliminary Report of area coverage under Kharif crops

- As per progress of area coverage report, Kharif crops area sown in the current year 2023 is 129.53 lakh ha (including 50.76 lakh ha area in Sugarcane and 28.02 lakh ha in Cotton) as compared to 135.64 lakh ha during the corresponding period of last year. Sowing area under Coarse Cereals is 5.07 lakh ha more as compared to corresponding period of last year. Less area reported in Rice (-5.69 lakh ha) and Cotton (-4.65 lakh ha).

Advance of southwest monsoon:

- Conditions are favourable for further advance of Southwest Monsoon over some parts of Chhattisgarh, Jharkhand, Bihar, East Madhya Pradesh, Uttar Pradesh and Uttarakhand during next 2 days and over some parts of Maharashtra, Karnataka & Telangana during next 3-4 days.

Rainfall distribution:

- The cumulative (01 – 21 June) All India rainfall in % departure from its Long Period Average (LPA) was -33%, with Central India -60%, South Peninsula -58%, East & North East-India -18% and North-West India 37%.
- During the week (22 – 28 June, 2023), heavy to very heavy rainfall is likely over Odisha, south Jharkhand and Gangetic West Bengal, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh, Uttar Pradesh, MP, Chhattisgarh, Vidarbha, Coastal, Karnataka, Kerala, Telangana, Konkan & Goa, Madhya Maharashtra and Gujarat Region. Light/ moderate rainfall is likely over most places with isolated thunderstorm & lightning during the week.

Temperature:

- During the week (22 - 28 June), Fall by 3-5°C in maximum temperatures are very likely over Northwest, Central and East India during next 5 days. No significant heat wave is likely during the week.
- No heat wave is likely over India during the week 2 also. However, above normal maximum temperature is likely over eastern parts of India, northeast India and west coast India during the 2nd week (29 June – 05 July).

Water Reservoir Status:

- On week ending 22nd June, 2023, the total live water storage in 146 important reservoirs across the country (monitored by CWC) is 46.23 Billion Cubic Meter, which is 26% of total live storage capacity (178.185 BCM). The current year's storage is nearly 92 percent of the last year's storage and 112 percent of the average storage of last ten years during the corresponding period. The overall storage position is less than the corresponding period of last year in the country as a whole due to low storage in Southern regions.

Groundwater Levels Scenario

- About 84% of the total monitoring wells shows depth to water level in the range of 0 to 10 m below ground level. As per decadal water level fluctuation with mean (January 2013 to 2022) and January 2023 analysis, 56% of monitoring wells (14094) shows rise whereas 44% shows fall in January month.

Seeds:

- Preparations for Kharif, 2023, are in progress. Certified/ quality seeds availability was 180.13 lakh quintals against the requirement of 166.44 lakh quintals in the country.

Fertilizers:

- Availability of fertilizers against requirement has been found comfortable in the country during Kharif- 2023.

Pests & Diseases:

- Overall intensity of pests and diseases remained below economic threshold level, except Fruit fly on Guava, Mango & Cucurbits in West Bengal and Yellow Vein mosaic virus on Okra in West Bengal.

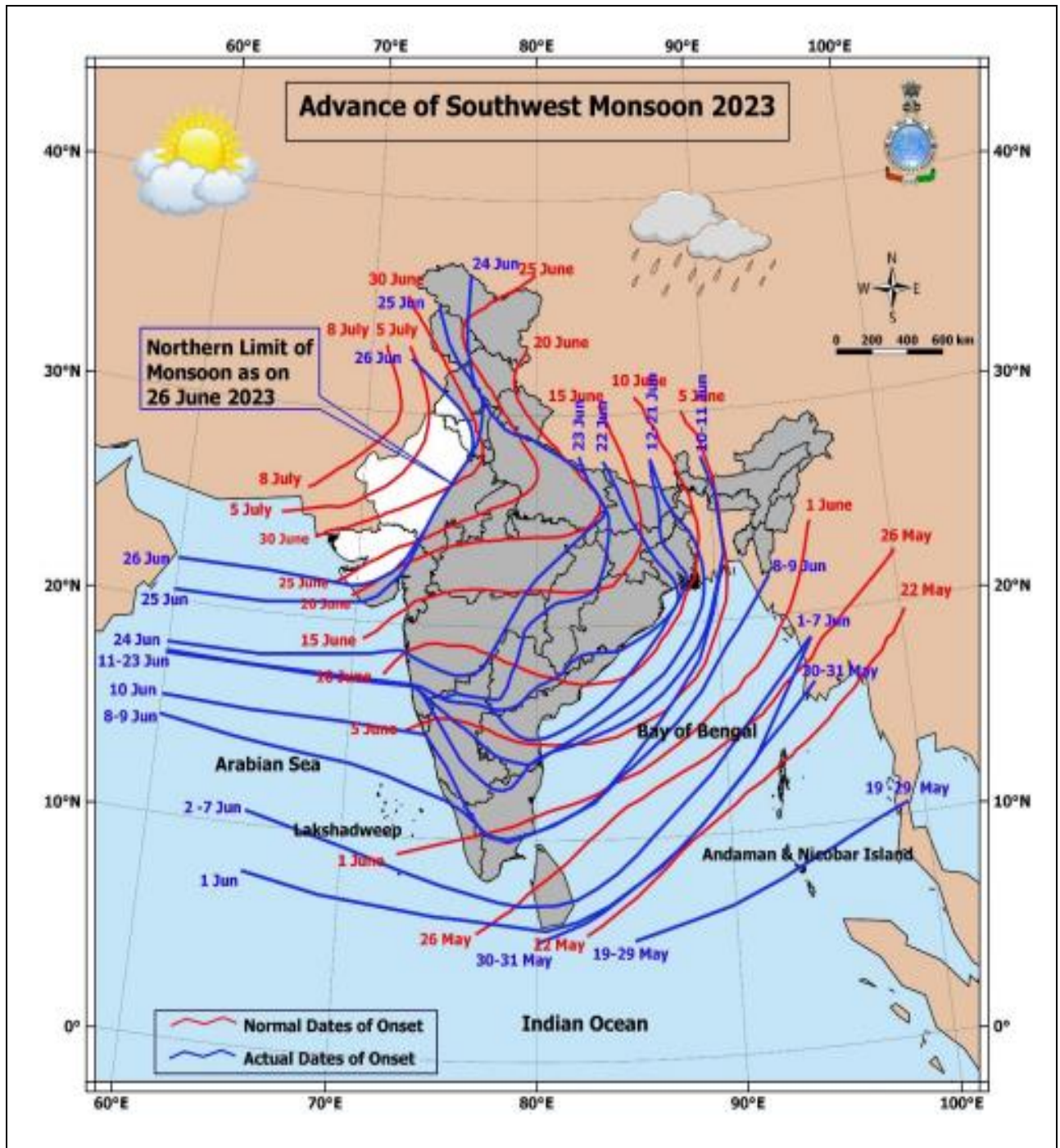
Horticulture crops:

- For Rabi Onion, Rabi Potato and Rabi Tomato, area sown has been reported at 11.19 lakh ha, 19.72 lakh ha and 4.64 lakh ha as against 11.67 lakh ha, 18.50 lakh ha and 4.96 lakh ha, respectively, in the last year.

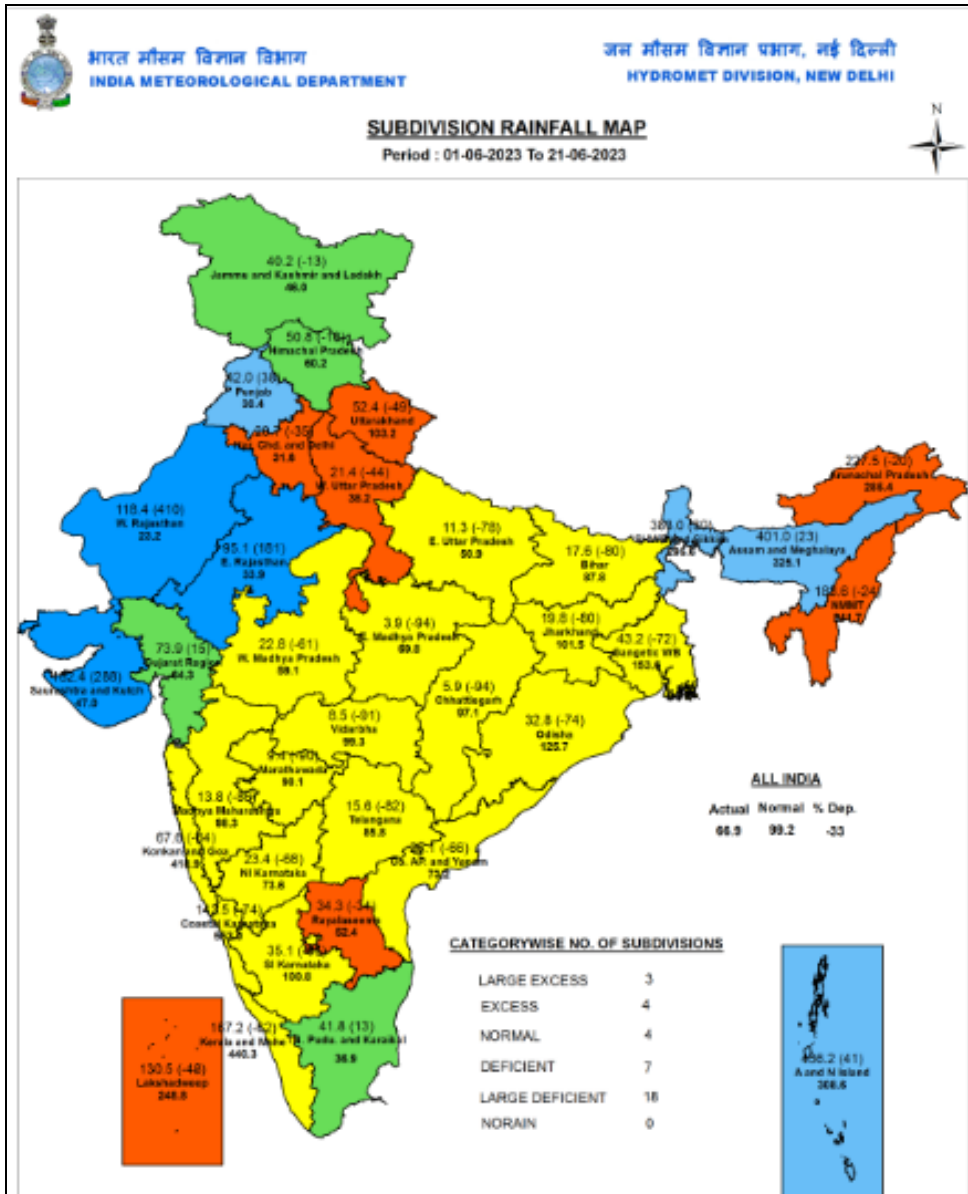
Details of each sector have been enclosed at Annex.

I. WEATHER OUTLOOK

Advancement of Southwest Monsoon Rainfall



1st June to 21st June 2023:



Legend

Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data

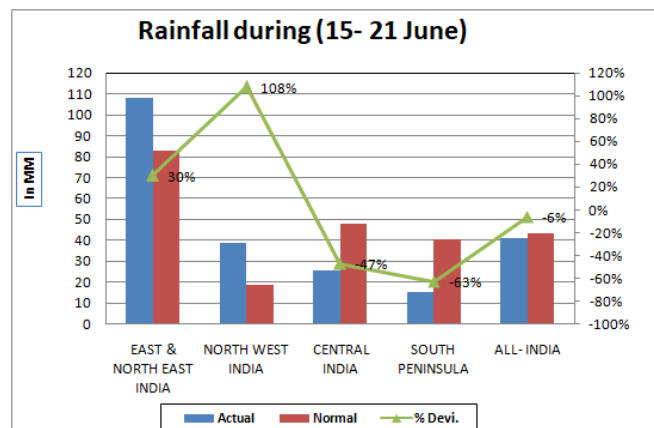
NOTES :

- a) RainFall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.

- During the week (15 -21 June) lower Monsoon rainfall was observed, as compared to Long Period Average (LPA) by 6%. Cumulative seasonal rainfall (01 June to 21 June) is lower than LPA by 33%.

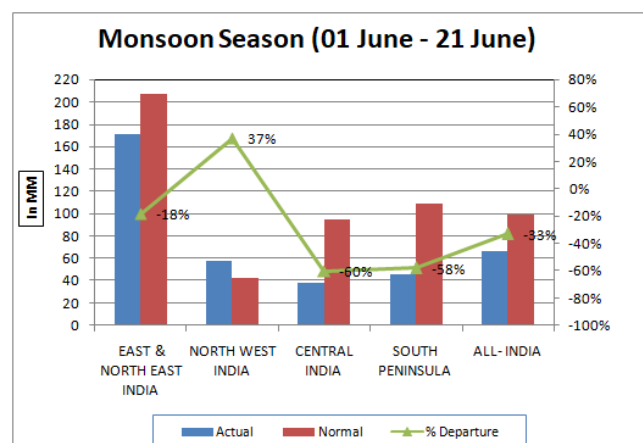
Table 1.1: Weekly and Cumulative Rainfall in four regions of the country

Region of India	Week Ending (21.06.2023)			
	(In MM)		Deviation %	Category
	Actual	Normal		
East & North-East	108.3	83.1	30	E
North-West India	38.9	18.7	108	LE
Central India	25.3	47.9	-47	D
South Peninsula	14.9	40.2	-63	LD
Country as a whole	40.7	43.1	-6	N



Region of India	Cumulative (01.06.2023to 21.06.2023)			
	(In MM)		Deviation %	Category
	Actual	Normal		
East & North-East	171.0	207.6	-18	N
North-West India	57.7	42.0	37	E
Central India	38.0	94.3	-60	LD
South Peninsula	46.2	108.9	-58	D
Country as a whole	66.9	99.2	-33	D

Source: India Meteorological Department, New Delhi
N: Normal, D: Deficient, LD: Large Deficient, E: Excess, LE: Large Excess

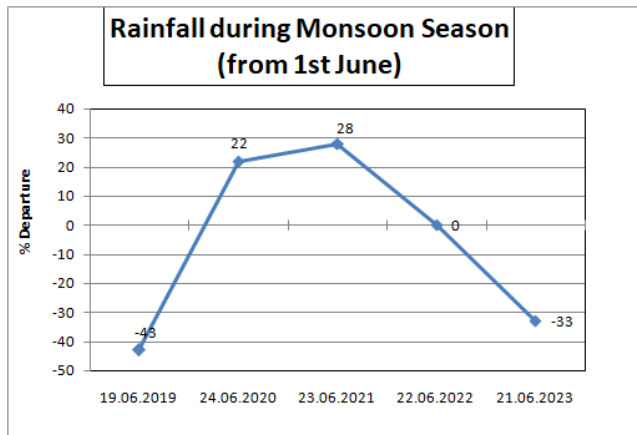


All-India cumulative winter rainfall data during the corresponding period of the last 5 years:

Table 1.2: Category-wise Comparative Distribution of Sub-Division (Cumulative Rainfall) and All-India Percentage Rainfall Departure of last 5 years (01 June 2023 to 21 June 2023)

No. of Sub-Divisions with rainfall	For the period from 1 June to					
	20 JUNE 2018	19 JUNE 2019	24 JUNE 2020	23 JUNE 2021	22 JUNE 2022	21 JUNE 2023
Large Excess	02	03	05	11	06	03
Excess	10	00	10	12	02	04
Normal	10	03	15	05	11	04
Total	22	06	30	28	19	11
Deficient	12	19	06	08	15	07
Large Deficient	02	11	00	00	02	18
No rain	00	00	00	00	00	00
Total	14	30	06	08	17	25
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 7%	(-) 43%	22%	28%	0%	(-) 33%

Source: IMD



Rainfall Forecast:

22 - 28 June, 2023

- Heavy to very heavy rainfall is likely over Odisha, south Jharkhand and Gangetic West Bengal, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh, Uttar Pradesh, MP, Chhattisgarh, Vidarbha, Coastal Karnataka, Kerala, Telangana, Konkan & Goa, Madhya Maharashtra and Gujarat Region. Light/ moderate rainfall is very likely over most places with isolated thunderstorm & lightning during the week.

29 June – 05 July, 2023

- Light to moderate scattered/ fairly widespread rainfall/ thunderstorm is likely over east & northeast India, west Coast and adjoining areas of South Peninsular India during the week. Increase of rainfall over northeast India, west coasts of India and Gujarat during the week with isolated heavy to very heavy rainfall over these areas during many days of the week.

II. RESERVOIR STORAGE (as on 22 June, 2023)

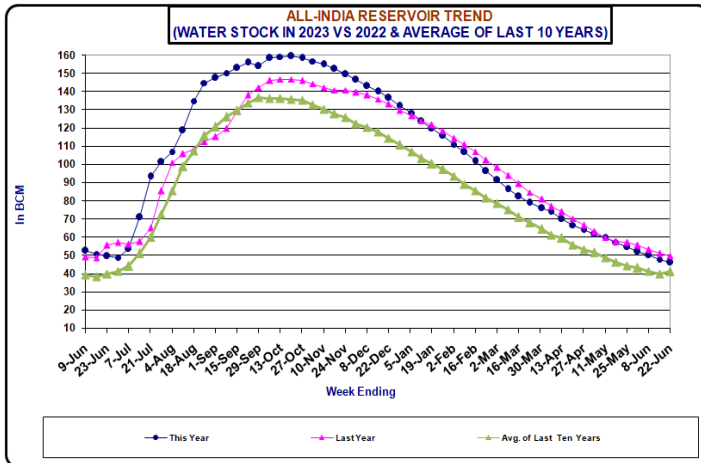
- **Current live storage in 146 reservoirs was 46.23 BCM (or 26%) of total live capacity of 178.19 BCM.**
- 87 reservoirs having storage more than 80% of normal storage.
- 15 reservoirs having storage upto 30% of normal storage.
- 05 reservoirs having no live storage.

- Scattered to fairly widespread rainfall/ thundershower is also likely over many parts of northwest India except west Rajasthan during 1st half of the week with reduction thereafter. It is likely to be isolated heavy over east Rajasthan, Uttarakhand, Uttar Pradesh during 1st half of the week and reduction thereafter
- Overall, rainfall activity is likely to be above normal over west coast of India, Gujarat state and adjoining areas of west central India, northeast India; near normal over rest parts of the country outside Western Himalayan region, parts of east central India and some parts of Andhra Pradesh and Telangana where it is likely to be below normal.

Temperature

- During week 1 (22 – 28 June 2023), Fall by 3-5°C in maximum temperatures are very likely over Northwest, Central and East India during next 5 days. No significant heat wave is during the week.
- During week 2 week (29 June - 05 July), No heat wave is likely over India during the week 2. However, above normal maximum temperature is likely over eastern parts of India, northeast India and along west coast of India during the week.

Table 2: For 146 major reservoirs of the country

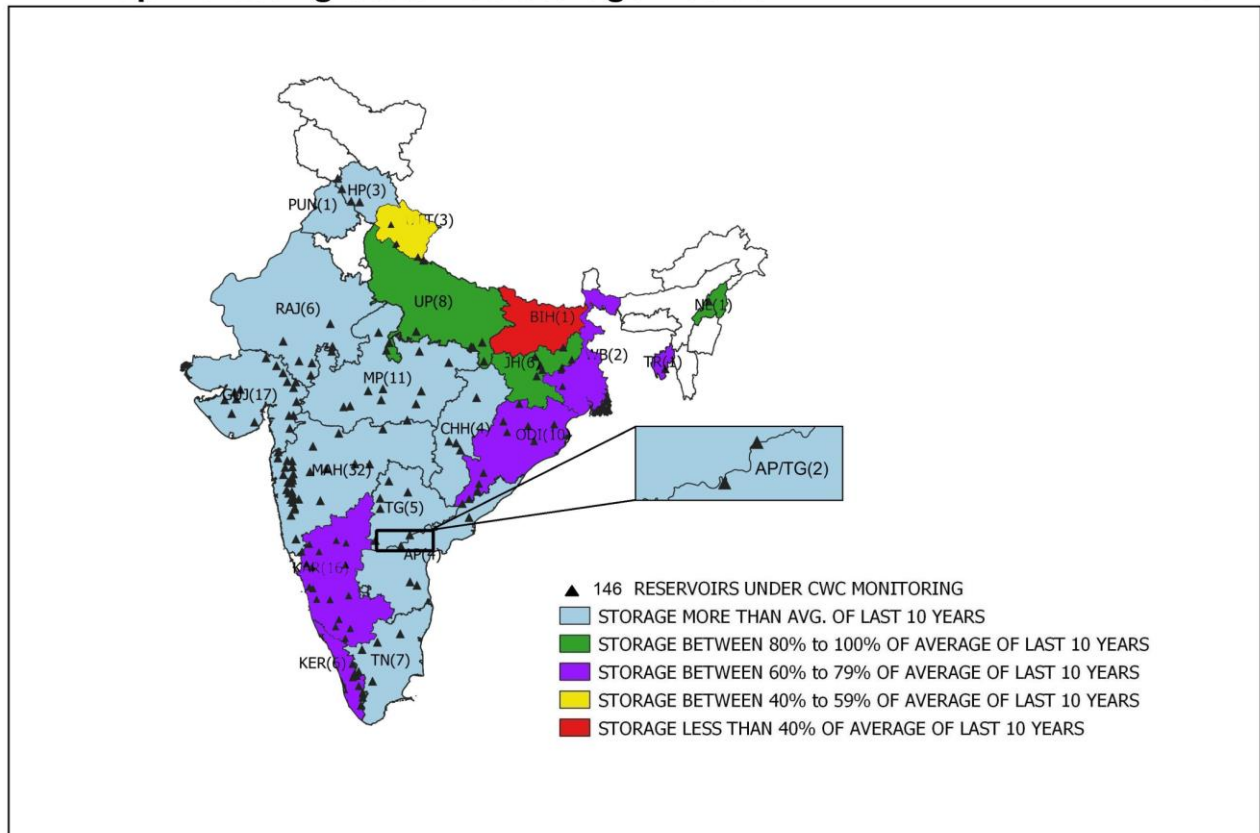


Period	Storage as % of FRL	Storage as % of Last Year	Storage as % of 10 Year's Average Level
Current Week	26	92	112
Last Week	27	94	121

The percentage to live capacity at FRL was 28% on 22.06.2022, 31% on 22.06.2021, 33% on 22.06.2020 and 17% on 22.06.2019.

Map Indicating Statewise Storage Position

As on 22.06.2023



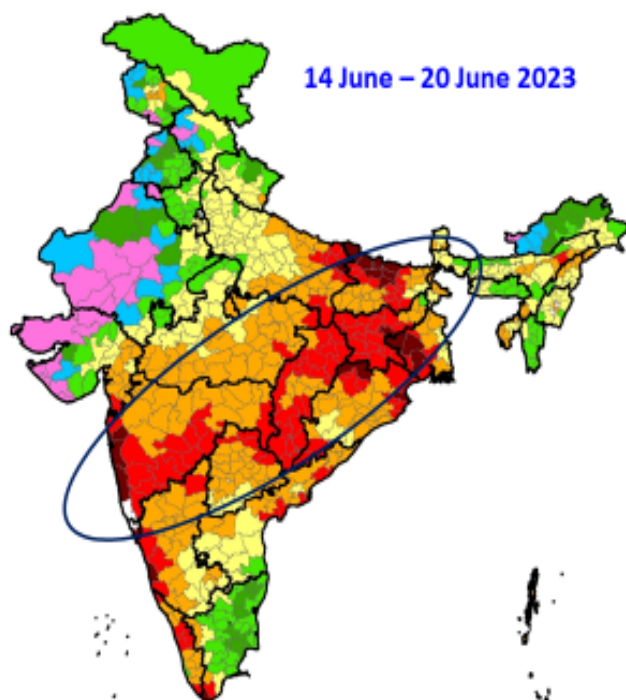
Source: CWC

III. REMOTE SENSING BASED OBSERVATION

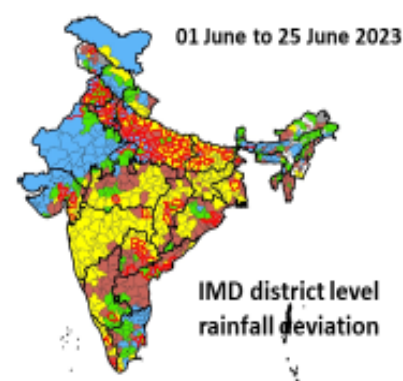
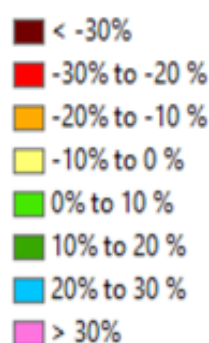
Root zone Soil moisture Deviation w.r.t average 2015-2022



SMAP Satellite based Soil Moisture data



Soil moisture during 14 - 20 June 2023 is similar/better than the average of the past 8 years in Rajasthan, Gujarat, Punjab, Haryana. H.P, T.N and N.E parts of country whereas in Maharashtra, M.P, East U.P, Chhattisgarh, Jharkhand, Odisha, Bihar, Telangana, Karnataka, A.P & W.B less than past 8 years average.



IV. FERTILIZER POSITION:

Availability of fertilizer has been comfortable. Details of Requirement, Receipt, Availability, Sales and Stock position of Major Fertilizers (Urea, DAP, MOP, Complex and SSP) during Kharif 2023 as on 26.06.2023 is given below:

	(In LMT)				
Availability/Sale/Closing Stock	Urea	DAP	MOP	NPK	SSP
Opening Stock as on 01.04.2023	57.20	25.41	3.20	30.51	19.68
Actual Requirement for Kharif 2023	172.47	55.53	15.30	62.71	33.81
Estimated Requirement during June, 2023	30.59	10.74	2.81	12.51	6.75
Cumulative Receipt upto 26.06.2023	75.19	24.97	3.07	28.06	12.27
Cumulative Availability upto 26.06.2023	132.39	50.39	6.27	58.57	31.95
Cumulative sales upto 26.06.2023	55.48	19.48	2.00	14.03	9.76
Closing Stock upto 26.06.2023	76.90	30.91	4.27	44.54	22.19

DAP: Di ammonium phosphate, MOP: Muriate of Potash, NPK: Complex fertilizer &

SSP: Single Super Phosphate

Source: Fertilizer Division (DA&FW)/ Department of Fertilizer

V. PEST & DISEASE

Overall intensity of pests and diseases remained below economic threshold level. Except Fruit fly on Guava, Mango & Cucurbits in West Bengal and Yellow Vein mosaic virus on Okra in West Bengal.

- Fruit fly on Guava, Mango & Cucurbits and Yellow Vein mosaic virus on Okra was reported in South 24 Paraganas district of West Bengal in Trace to Moderate Intensity in (1 ha), (2 ha), (3 ha) and (2 ha) area respectively.

VI. SEEDS

Certified/ Quality seeds availability was 180.13 lakh quintals against the requirement of 166.44 lakh quintals in the country for Kharif-2023. There is sufficient availability of seed for Kharif 2023.

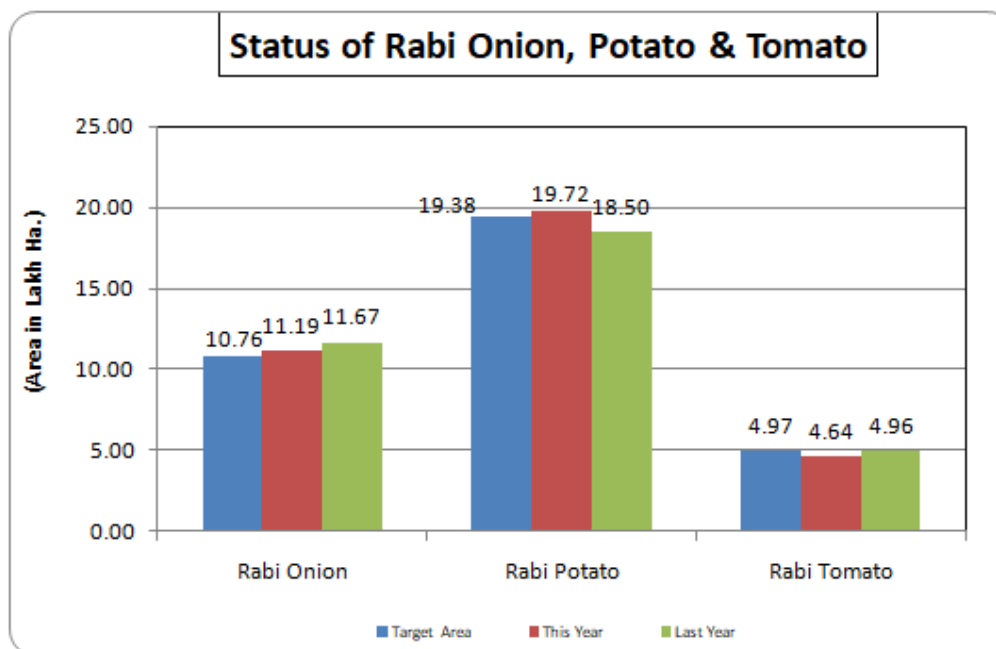
VII. HORTICULTURE (As on 23 June, 2023)

Late Kharif Onion: Out of 1.86 lakh ha area sown, 1.41 lakh ha unaffected area (after accounting for damage due to rains etc).

Rabi Onion: Out of target area of 10.76 lakh ha, 11.19 lakh ha has been sown so far, as compared to 11.67 lakh ha in last year of 2021-22.

Rabi Potato: Out of target area of 19.38 lakh ha, 19.72 lakh ha has been sown so far, as compared to 18.50 lakh ha in last year of 2021-22.

Rabi Tomato: Out of target area of 4.97 lakh ha, 4.64 lakh ha has been sown so far, as compared to 4.96 lakh ha in last year of 2021-22.



VIII. CROP SOWING POSITION

- As per progress of area coverage report, Kharif crops area sown in the current year 2023 is 129.53 lakh ha (including 50.76 lakh ha area in Sugarcane and 28.02 lakh ha in Cotton) as compared to 135.64 lakh ha during the corresponding period of last year. Sowing area under Coarse Cereals is 5.07 lakh ha more as compared to corresponding period of last year. Less area reported in Rice (-5.69 lakh ha) and Cotton (-4.65 lakh ha).
