

All India Coordinated Research Project on Agrometeorology

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The crop weather conditions in different states as reported by the cooperating centers of AICRPAM

Weekly Crop Weather Information during 23 - 29 APRIL, 2024

Anand (Gujarat)

The actual maximum temperature was 1.4 °C lower and minimum temperature was 2.0 °C higher as compared to their normals. Agricultural operations in progress are Need base plant protection measures in summer crops. Irrigate summer crops as and when require. Picking of brinjal, tomato, summer vine vegetable crops etc. Inter-culturing and weeding in summer crops. Brinjal, tomato summer vine vegetable crops etc. are in flowering/fruiting stage. Summer maize is in tasseling stage. Phenological stages are Brinjal, tomato summer vine vegetable crops ect. are in flowering/fruiting stage. Summer maize is in silking stage. Summer cow pea and summer green gram are in flowering stage. Optimum-maintain by irrigation.

Anantapur (Andhra Pradesh)

Prevailing temperature is hot and dry All crops has been harvested. Unfavorable weather is heat wave is prevailing, therefore is advised stay hydrated and protect saplings from heat by providing shadow using palm tree leaves.

Bangalore (South Interior Karnataka)

State actual rainfall during 1st January 2024 to 25th April 2024 was 30.0 mm as against the normal of 40.0 mm with (-) 24 % deviations. Whereas, SIK received 11.0 mm of rainfall as against the normal of 49.0 mm leading to (-) 77 % deviation. State actual rainfall during 1st March 2024 to 25th April 2024 was 22.0 mm as against the normal of 35.0 mm with (-) 38 % deviation. Whereas, SIK 6.0 mm of rainfall as against the normal of 43.0 mm leading to (-) 87 % deviation. Agricultural operations in progress are post-harvest technology like drying, cleaning and winnowing is under progress. Phenological stages summer crops are under flowering stage. Moisture status is severe soil moisture stress due to prolonged dry spell and increasing maximum temperature. Unfavorable weather conditions are heat wave is prevailing in SIK. Contingency measures are mulching (residual crop residue after harvesting of rabi and other crops) and one or two protective irrigation is recommended for mango and other horticultural crops to conserve the soil moisture due to high temperature and dry weather persisting in long period of time.

Bhubaneshwar (Odisha)

Severe Heat Wave condition prevailed at one or two places over the districts of Odisha. Markedly above normal temperature at few places over the districts of Coastal Odisha and at

one or two places over the districts of Interior Odisha. Agricultural operations in progress are weed management of summer paddy. Sowing of non-paddy crops like pulses, oilseeds, and vegetable. Phenological stages of different crops are tillering to panicle initiation stage of rabi rice. Maturity stage of green gram and black gram. Vegetative to flowering stage of maize. Vegetative stage of sugarcane. Pod formation to maturity stage of groundnut. Fruiting to harvesting stage of brinjal, okra and cucurbits. Fruiting to harvesting stage of cauliflower, cabbage, tomato and chilli. Moisture status is optimum moisture for growth of non-paddy and vegetable crops in most of the districts of Odisha.

Chatha (Jammu)

Mainly clear weather prevailed during this week with 7.6 mm rainfall in two rainy days. The maximum temperature remained below normal by 1 to 11°C and ranged from 25.0 to 36.0°C. Agricultural operations in progress are sowing of mash and moong (var.) is in progress. Sowing of summer fodder is in progress. Hoeing and weeding in summer pulses. Application of FYM in fallow fields. Storing of *rabi* crop seeds for the next season. Plant protection measures in vegetable crop. Phenological stages of different crops are summer pulses is at sowing/emergence stage. Late sown wheat is at physiological maturity stage. Summer okra is at vegetative stage. Summer fodder is at emergence stage. Moisture status is adequate. Due to the chances of rainfall, shift threshed crop immediately to safer places.

Faizabad (Eastern Uttar Pradesh)

Dry Weather in all region on Eastern UP. Average temperature was 2-3°C above normal. Agricultural operations in progress are harvesting and threshing of wheat crop in all the region. Irrigation in sugarcane, mung/urd and zaid and zaid vegetables etc. Intercultural operation on under optimum moisture in vegetables. Phenological stages of different crops are Wheat crop just harvested, onion is in maturity stage while sugarcane, mung etc. are in vegetative stage. Soil moisture is soil is completely dry. Unfavorable condition is heat wave are occurring since last one week. Surface mulching, intercultural operations are advised as a contingency measure.

Hisar (Haryana)

Variable weather condition was observed during the week with 5.4 mm rainfall. The maximum temperature was below normal except two days, whereas, minimum temperature was above the normal. The westerly wind prevailed during the period. Total evaporation was 46.2 mm during this week which was below the normal. Agricultural operations in progress are harvesting and threshing of rabi crops and field preparation for *khari* sowing. Phenological stages of different crops are rabi crops on physiological maturity. Moisture status is deficit condition.

Jabalpur (Madhya Pradesh)

Day and Night temperature was normal over the state. At isolated places very low rainfall occurred in all the state during previous week.

Jorhat (Assam)

Weather during the last week was cloudy. Daily average maximum temperature was 29.0 which was 2.3 below normal and the average daily minimum temperature was 17.6 which was 0.2 below normal for the week. Agricultural operations in progress are: nursey sowing of ahu rice, land preparation of maize, intercultural operations in boro paddy, weeding in summer pulses viz. green gram and black gram, weeding in colocasia crop field; sowing of corms of ginger and turmeric. Phenological stages of different crops are boro paddy: booting stage, Ahu paddy: nursery bed preparation/vegetative stage, sugarcane: maturity stage, greengram and blackgram: vegetative stage, maize: land preparation, chilli: fruiting. Moisture status is sufficient for healthy crop growth as light to moderate level of rainfall received during the past week. However, need based irrigation may be applied depending upon the current crop status.

Kanpur (Western Uttar Pradesh)

No rainfall observed. Maximum and minimum temperature may be expected 2-3°C higher than its normal. Agricultural operations in progress are in Wheat: Harvesting and threshing. Barley: harvesting and threshing. *Zaid* maize: weeding. Pigeon pea: harvesting and threshing. *Zaid* urd: weeding and irrigation. *Zaid* moong: weeding. Brinjal/chilies: plucking, marketing and spray insecticide. Leafy vegetable: cutting, marketing and irrigation. Animal: fresh water used for drinking 4 or 5 time and bathing should be taken up at morning and protect from common diseases. Phenological stages of different crops are wheat: maturity, barley: maturity, pigeon pea: maturity, *zaid* maize: knee high, *zaid* urd and moong: vegetative, vegetables: flowering and fruiting. moisture status is dry.

Kovilpatti (Tamil Nadu)

Rainfall occurred at isolated places over Tamil Nadu during 17 SMW. Agricultural operations in progress are picking of cotton Kapas and chillies are in progress. Summer ploughing is in progress. Phenological stages of different crops are paddy is in tillering to panicle initiation stage. Chillies are in fruit formation to harvest stage. Banana is in vegetative to bunch development stage. Cotton is in boll development to harvest stage. Mango is in fruit maturity stage. Pulses is in vegetative stage. Soil moisture during 17th week: rainfall was not recorded. Soil moisture is in permanent wilting point. Due to humid air and high temperatures, hot and discomfort weather is very likely to prevail at isolated pockets over Tamil Nadu. Heat wave conditions are very likely to prevail at isolated pockets over North Interior Tamil Nadu. Shade and high humidity due to close planting favor hoppers infestation result to sooty mould. If sucking pest is available spray Imidacloprid 120 ml/ acre or else spray Starch or Maida solution 5 %. Farmers are requested to practice propping to avoid lodging. Dry weather is very likely to prevail over Tamil Nadu, Puducherry and Karaikal area. No rainfall is predicted for next five days. Farmers are request to irrigate the crop. Farmers are requested to utilize previous week rainfall for summer ploughing.

Ludhiana (Punjab)

The maximum temperature during the week ranged between 26.4 - 37.0 °C and minimum temperature ranged between 18.6-24.4 °C. Agricultural operations in progress are harvesting of wheat is in progress. Phenological stages of different crops are wheat at harvest maturity stage. Moisture status is normal.

Mohanpur (West Bengal)

Weather conditions during the 17th week at Mohanpur, West Bengal: Maximum temperature: 39.0 to 41.6 °C, minimum temperature: 23.0 to 27°C. Agricultural operations in progress are irrigation in vegetables and green gram. Phenological stages of different crops are green gram-early vegetative stage. Unfavorable condition is maximum temperature of the past meteorological week was found +4.0°C above normal indicating severe heat wave prevailing in this region. Frequent irrigation in vegetables is advised as a contingency measure.

Parbhani (Marathwada region)

At Parbhani centre, during this 16 week no rainfall was recorded. The Maximum temperature was range from 39.8 to 41.0 °C and minimum temperature range from 23.6 to 26.0 °C. Agricultural operations in progress are plant protection measures are being undertaken in summer crops based on need or attack of pests. Intercultural operation carried out in summer crops. Ploughing in harvested fields underway. Phenological stages of different crops are turmeric is at harvesting stage to processing. Summer groundnut is at pegging to pod development. Vegetable crops are at fruiting stage and fruit crops are in development stage. sugarcane crop is in grand growth stage. Citrus is at harvesting stage. Summer sesame is at capsule development stage. Moisture status is adequate moisture. Contingency measure: Mechanical support should be given to newly planted citrus plants. For moisture conservation and maintenance of soil temperature mulching should be done in newly planted citrus orchard. Give shed to newly planted horticultural crops using shed net to protect them from the intensity of sunlight.

Ranchi (Jharkhand)

Sky is Clear and maximum temperature increased and minimum temperature decreased from the normal. Daily maximum and minimum temperature ranged from 34.5 to 39.6°C and 21.8 to 25.0 °C respectively in the week. Weekly average maximum and minimum temperature were 38.3 and 23.6 °C against its normal value of 36.2 and 20.7 °C, respectively. Agricultural operations in progress are Sowing, weeding, inter culturing and harvesting of mature maize is in progress, harvesting of green gram and black gram and Sowing, weeding, inter culturing operation of vegetables. Phenological stages of different crops are Rice is in panicle initiation to milking stage, maize is in sowing to harvesting, green gram, black gram and cowpea vegetative to podding stage and summer vegetables are in vegetative to fruiting stage. Moisture status is satisfactory.

Samastipur (Bihar)

Mainly dry weather prevailed in all over Bihar. Maximum temperature ranged from 36.4 to 40.0°C and the minimum from 18.5 to 22.5°C. Agricultural operations in progress are sowing of summer moong and urd crops in the terminal phase. Harvesting of Rabi Maize, Gram, Wheat and Pigeon pea. Phenological stages of different crops are summer green gram, black gram, onion, sunflower, Maize, sugarcane and summer vegetables at their vegetative stage some early sown vegetable like lady's finger, pumpkin, etc. comes to market as fresh harvest. Moisture status is below normal. Heat wave like condition prevailed during 3 to 4 days of week. Irrigation in vegetables and other standing were suggested. Farmers have been advised to provide plenty of fresh water to the animals and keep the animals in shaded places. spraying of water in the litchi and mango orchards are suggested to maintain the humidity under dry spell condition.

Parbhani (Marathwada)

At Parbhani center during 17 SMW 16.1 mm rainfall was recorded. The maximum temperature was range from 37.5 to 40.0 oC and minimum temperature range from 21.7 to 27.4 oC. Agricultural operations in progress are plant protection measures are being undertaken in summer crops and vegetable based on need or attack of pests. intercultural operation carried out in summer crops. Ploughing in harvested fields underway. Phenological stages of different crops are summer groundnut is at pod development to harvesting stage, vegetable crops are at fruiting stage, fruit plants are in development stage and sugarcane crop is in grand growth stage. Moisture status is adequate but some part of Marathwada region is having inadequate irrigation management should be done as per crop requirement and available of water. For moisture conservation and maintenance of soil temperature mulching should be done in newly planted Mango orchard. Give shed to newly planted horticultural crops using shed net to protect them from the intensity of sunlight. As per forecast of isolated thunderstorm and rainfall, harvesting of mature mango fruits should be done.

Vijaya Pura (North Interior Karnataka)

Cloudy condition with light rainfall prevailed during last week in the North Interior Karnataka. Agricultural operations in progress are summer ploughing. Harvesting of all rabi crops. Moisture status is low. Heat wave is running, provide irrigation to crops and practice mulching.

Weather during 11 April – 17 April, 2024

Significant Weather Features

Last week's Heat wave conditions further intensified over the eastern parts of India during the week and continued to prevail during all dates in the week. Heat wave to severe heat wave conditions observed over Odisha and West Bengal during 18-24 April, while it was heat wave conditions prevailed over Chhattisgarh on 19th and 20th April; over Bihar on 20th & 21st April; over Jharkhand on 21st April and over Tamil Nadu during 22nd-24th April; over Telangana on 18th & 19th April and over Saurashtra & Kutch on 18th April. It may be added that the current Heat wave spell over Odisha started since 15th April and over Gangetic West Bengal since 17th April and hence completed 10 and 8 days of the spell respectively.

Hailstorm reported at isolated places over Madhya Maharashtra on 18th April; over Telangana on 20th & 23rd April; over northwest Rajasthan on 20th April; over Himachal Pradesh on 20th & 24th April; over Uttarakhand, Punjab and Haryana on 20th April; over Jammu division on 22nd April; over West Madhya Pradesh on 22nd & 23rd April; over Odisha on 22nd April; over Vidarbha on 23rd & 24th April; over Jammu & Kashmir on 23rd April; over East Uttar Pradesh on 24th April; over Jharkhand on 24th April; over Madhya Pradesh on 24th April.

Temperature Scenario: The highest maximum temperature of 46.0°C had been recorded at Bahargora, District East Singhbhum (Jharkhand) on 21st April 2024 and the lowest minimum temperature of 16.6°C had been recorded at Karnal (Haryana) on 24th April 2024 over the plains of the country during the week.

METEOROLOGICAL SUB-DIVISION WISE REALIZED MAXIMUM TEMPERATURE-2024

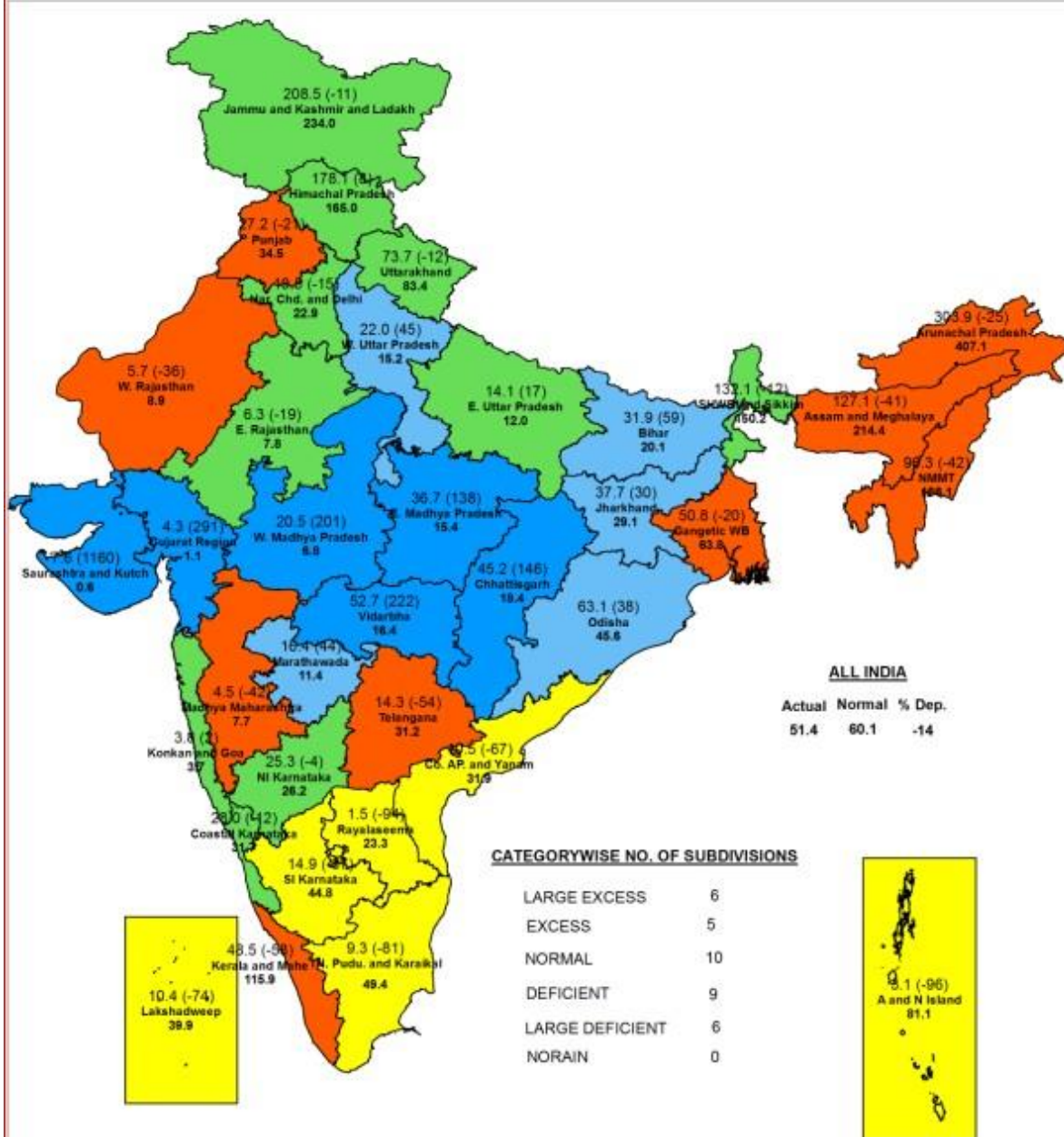
S. No	MET.SUB-DIVISIONS	18 APR	19 APR	20 APR	21 APR	22 APR	23 APR	24 APR
1	ANDAMAN & NICO.ISLANDS	N	N	N	N	N	N	N
2	ARUNACHAL PRADESH	N	N	N	N	AN	N	N
3	ASSAM & MEGHALAYA	N	N	N	N	AN	AN	N
4	NAGA.MANI.MIZO.& TRIPURA	A N	N	N	N	N	N	N
5	SUB-HIM.W. BENGAL & SIKKIM	AAN	AAN	N	N	N	MAN	MAN
6	GANGETIC WEST BENGAL	N	N	N	N	N	N	N
7	ODISHA	N	AN	AN	N	N	N	N
8	JHARKHAND	N	N	N	N	N	N	N
9	BIHAR	N	N	N	N	N	N	N
10	EAST UTTAR PRADESH	N	N	N	N	N	N	N
11	WEST UTTAR PRADESH	N	N	N	N	N	N	N
12	UTTARAKHAND	N	AN	N	N	N	N	N
13	HARYANA, CHANDIGARH & DELHI	A N	N	N	N	N	N	N
14	PUNJAB	N	N	N	N	N	N	N
15	HIMACHAL PRADESH	N	N	N	N	N	N	N
16	JAMMU & KASHMIR AND LADAKH	N	N	N	N	N	N	N
17	WEST RAJASTHAN	N	N	ABN	N	N	N	N
18	EAST RAJASTHAN	N	N	N	N	N	N	N
19	WEST MADHYA PRADESH	N	N	N	N	N	N	N
20	EAST MADHYA PRADESH	N	AN	N	N	N	N	N
21	GUJARAT REGION	N	N	N	N	N	N	N
22	SAURASTRA & KUTCH	N	N	N	N	N	N	N
23	KONKAN & GOA	A N	N	N	N	N	N	N
24	MADHYA MAHARASHTRA	A N	N	N	N	N	N	N
25	MARATHAWADA	A N	N	N	N	N	N	N
26	VIDARBHA	A N	N	N	N	N	N	N
27	CHHATTISGARH	N	AN	N	N	N	N	N
28	COASTAL ANDHRA PR. & YANAM	A N	AN	N	N	N	N	AN
29	TELANGANA	A N	N	N	N	N	N	N
30	RAYALASEEMA	N	N	N	N	N	N	AN
31	TAMIL. PUDU. & KARAICAL	A	AN	AN	N	N	N	AN

		N						
32	COASTAL KARNATAKA	N	N	N	N	N	N	N
33	NORTH INTERIOR KARNATAKA	A N	N	N	N	N	N	N
34	SOUTH INTERIOR KARNATAKA	A N	N	N	N	N	N	AN
35	KERALA & MAHE	A N	N	AN	N	N	N	AN
36	LAKSHADWEEP	N	N	N	N	N	N	N
Highest Maximum Temperature (°C)		44.7	44.3	45.2	46.0	43.8	43.5	43.7
Station(s) observed LMT		NANDYAL	NANDYAL, BOUDH	BARIPADA & BOUDH	BAHARGORA (DISTRICT EASTSINGHBHUM)	CUDDAPAH & BHUBANESHWAR	ANANTAPUR	ANANTAPUR
Station(s) lies in Met-Subdivision(s)		RAYALASEEMA	RAYALASEEMA, ODISHA	ODISHA	JHARKHAND	RAYALASEEMA & ODISHA	RAYALASEEMA	RAYALASEEMA
Lowest Minimum Temperature (°C)		17.6	17.3	17.3	20.0	18.0	18.0	16.6
Station(s) observed HMT		ROHTAK	NAHAN	NAHAN	RAJGARH	RIDGE	SIKAR	KARNAL
Station(s) lies in Met-Subdivision(s)		HARYANA	HIMACHAL PR.	HIMACHAL PR.	WEST M.P.	DELHI	EAST RAJ.	HARYANA
L E G E N D S :								
N- NORMAL LONG PERIOD AVERAGE $\pm 1^{\circ}\text{C}$			BN -BELOW NORMAL (N-2)$^{\circ}\text{C}$			AN -ABOVE NORMAL (N+2)$^{\circ}\text{C}$		
ABN- APPRECIABLY BELOW NORMAL (3.1 to 4.9)$^{\circ}\text{C}$ BELOW NORMAL				AAN- APPRECIABLY ABOVE NORMAL (3.1 to 4.9)$^{\circ}\text{C}$ ABOVE NORMAL				
MBN MARKEDLY BELOW NORMAL 5$^{\circ}\text{C}$ OR MORE BELOW NORMAL				MAN- MARKEDLY ABOVE NORMAL 5$^{\circ}\text{C}$ OR MORE ABOVE NORMAL				
Heat Wave (Maximum temperature departure from Normal +4.5 $^{\circ}\text{C}$ to +6.4$^{\circ}\text{C}$)				Severe Heat Wave (Maximum temperature departure from Normal \geq +6.5$^{\circ}\text{C}$)				



SUBDIVISION RAINFALL MAP

Period : 01-03-2024 To 24-04-2024



Legend

Large Excess [80% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data

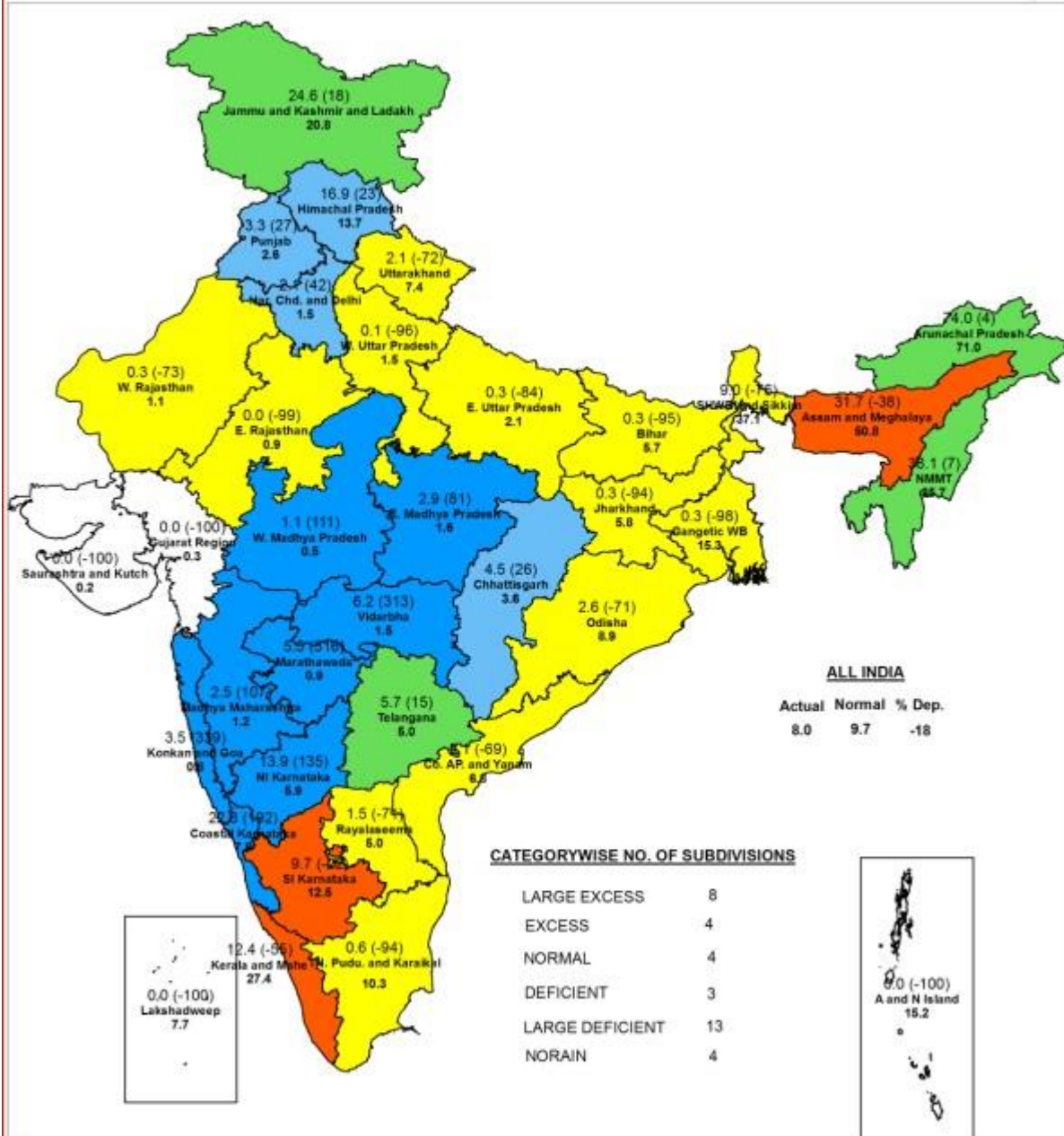
NOTES :

- 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.



SUBDIVISION RAINFALL MAP

Week : 18-04-2024 To 24-04-2024



ALL INDIA

Actual	Normal	% Dep.
8.0	9.7	-18

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	8
EXCESS	4
NORMAL	4
DEFICIENT	3
LARGE DEFICIENT	13
NORAIN	4

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.

Weekly rainfall departure (%) at different IMD subdivisions (2024)

During the week 17, out of 36 meteorological sub-divisions, rainfall was large excess, excess, normal, deficient and large deficient in 06, 02, 09, 09, and 06 sub-division(s), respectively. (Table 1).

S NO.	MET. SUBDIVISION	Week End 3-4-2024	Week End 10-4-2024	Week End 17-4-2024	Week End 24-4-2024	Week End 1-5-2024
1	A & N ISLAND	-93	-94	-95	-96	-97
2	ARUNACHAL PRADESH	-20	-22	-32	-25	-21
3	ASSAM & MEGHALAYA	-20	-33	-42	-41	-43
4	N M M T	-37	-48	-55	-42	-45
5	SHWB & SIKKIM	36	11	9	-11	-26
6	GANGETIC WEST BENGAL	70	30	4	-20	-35
7	ODISHA	121	91	65	38	13
8	JHARKHAND	120	88	60	30	6
9	BIHAR	259	186	119	59	17
10	EAST UTTAR PRADESH	77	55	39	17	-1
11	WEST UTTAR PRADESH	73	51	60	45	30
12	UTTARAKHAND	25	5	-6	-12	-20
13	HAR. CHD & DELHI	2	-12	-19	-16	-18
14	PUNJAB	-5	-18	-25	-21	-18
15	HIMACHAL PRADESH	20	5	7	8	15
16	JAMMU & KASHMIR AND LADAKH	-21	-30	-14	-11	9
17	WEST RAJASTHAN	-70	-68	-31	-36	-42
18	EAST RAJASTHAN	-13	-22	-9	-19	-26
19	WEST MADHYA PRADESH	38	50	208	201	196
20	EAST MADHYA PRADESH	61	78	145	138	138
21	GUJARAT REGION	856	665	438	291	268
22	SAURASHTRA & KUTCH	883	883	1790	1160	980
23	KONKAN & GOA	-95	-95	-91	3	-9
24	MADHYA MAHARASHTRA	-88	-90	-69	-44	-44
25	MARATHWADA	-80	-68	4	50	42
26	VIDARBHA	21	93	212	222	242
27	CHHATTISGARH	199	200	175	146	119
28	COASTAL AP and YANAM	-47	-57	-67	-67	-69
29	TELANGANA	-69	-69	-67	-54	-59
30	RAYALASEEMA	-99	-99	-99	-94	-95
31	TN PUDU and KARAİKAL	-93	-94	-78	-81	-83
32	COASTAL KARNATAKA	-81	-87	-78	-12	-29
33	N. I. KARNATAKA	-89	-91	-44	-3	-20
34	S. I. KARNATAKA	-98	-97	-84	-67	-74
35	KERALA & MAHE	-64	-71	-59	-58	-62
36	LAKSHADWEEP	-57	-66	-68	-74	-72

LEGEND:

L. Excess: (+60 % or more)	
Excess: (+20 % to +59 %)	
Normal: (+19 % to -19 %)	
Deficient: (-20 % to -59 %)	
L. Deficient: (-60 % to -99 %)	
No Rain: (-100 %)	
No Data:	