

All India Coordinated Research Project on Agrometeorology CRIDA, Santoshnagar, Hyderabad – 500 059

Weekly Crop Weather Information during 11 February to 17 February 2021

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

Maharashtra

Vidharbha

The maximum temperature is 30.9 °C (normal 32.7 °C) and minimum temperature is 10.5°C (normal 14.4°C). Agricultural operations in progress are harvesting of matured earlier sown chickpea, safflower and matured orange fruits is being undertaken. Sowing of summer sesame is underway. Phenological stages of different crops are chickpea is at pod formation/pod development; timely sown wheat is in milk stage/ flowering; safflower crop is through seed development/ maturity/harvest stage; orange fruit at harvest stage.

Marathwada

The Maximum temperature was range from 31.6 to 34.1 °C and minimum temperature range from 12.5 to 16.2 °C. Agricultural operations in progress are irrigation and weeding are underway in *rabi* crops, plant protection measures are being undertaken in *rabi* crops based on need or attack of pests. Phenological stages of crops are: newly planted sugarcane crop is in emergence to growth stage, vegetable crops are at fruiting stage and fruit crops are in development stage, chickpea is in pod development to maturity stage, Safflower is in capsule development to maturity stage, *rabi* sorghum is grain filling stage and wheat is in grain development to maturity stage. Soil moisture is inadequate. Hence need based irrigations are given to *rabi* crops. There is a low to medium intensity of pod borer and aphids in chickpea and safflower respectively.

Konkan

The maximum and minimum temperature ranged from 28.3 to 34.5 °C and 11.6 to 17.0 °C respectively. Agricultural operations in progress are protective spray at flowering and fruiting stages in mango and cashewnut. Phenological stages of crops are *rabi* vegetable crops in reproductive stage, mango and cashewnut in flowering to fruit

development stage, *rabi* pulses in flowering to pod development. Soil moisture status is medium. There is a low intensity of pod boer, tea mosquito & thrips in lab lab bean and cashewnut respectively. Low intensity of thrips attack in mango and chilli is also observed.

Uttar Pradesh

Western Uttar Pradesh

No rainfall occurred in all the region. The average temperature during reporting week is 2-3 °C below the normal. Agricultural operations in progress are irrigation in wheat, digging of potato, transplanting of *rabi* onion. Timely sown wheat is in milking stage. late sown wheat is in tillering stage. Soil moisture status is normal. Light intensity of aphids is observed in mustard.

Eastern Uttar Pradesh

Maximum temperature may be 2-3 °C above than its normal and minimum temperature may be near to its normal. Agricultural operations in progress are: Irrigation, top dressing urea in wheat and barley; watchful insect and pest in pigeonpea, gram, lentil and mustard; Irrigation, plucking, marketing and watchful insect and pest in brinjal/chillies; Irrigation, cutting and marketing in leafy vegetable; Dig out early sown crop of potato and take precaution from late blight; Protect animals from common diseases. Phenological stages of crops are: wheat in tillering/PI/anthesis; barley in PI/anthesis; Pigeon pea, Gram, Lentil and mustard in flowering/pod development; vegetables in flowering and fruiting. Soil moisture status is dry. There is a light incidence of pod boer in pigeon pea/pea/gram/lentil and leaf blight in potato.

Karnataka

South Karnataka

State actual rainfall for during the week was 0.0 mm as against the normal of 0.5 mm with (-) 100 % deviation. Agricultural operations in progress are *rabi* crops harvesting of pulse crop and harvesting, winnowing, cleaning, drying and storage of *kharif* crops. Phenological stages of *rabi* crops are fruit/pod development stage, maturity stage and harvesting stage. Dry soil condition is observed in the crop fields. There is a mild intensity of leaf hopper and powdery mildew in mango.

North Karnataka

Mainly clear sky condition with dry cold weather prevailed in the districts of North Interior Karnataka. Agricultural operations in progress are plant protection in horticultural crops, harvesting of pigeonpea, chickpea and Onion. Phenological stages of crops are: Pigeon pea and Onion in harvesting stage; Sorghum, Chickpea and Safflower in maturity to harvesting stage. Soil moisture status is in depleting condition. There is a mild intensity of Bacterial blight, Downy mildew & anthracnose, sucking pests and powdery mildew, leaf curl and sucking pests in lime & pomegranate, grapes, mango, tomato and watermelon.

Gujarat

The actual maximum temperature was 1.4 °C and the actual minimum temperature was 1.8 °C higher as compare to its normals. Agricultural operations in progress are: plant protection measures as and when require in wheat, sunflower, maize, pigeon pea, amaranthus and chickpea; applying irrigation as and when require in wheat, sunflower, maize, pigeon pea and amaranthus; protecting mustard, sunflower, maize, wheat and chickpea crop from bird damage; harvesting of mature mustard and keep in the field for sun dry; threshing and cleaning of mustard. Phenological stages of crop are: mustard is in harvesting stage; transplanted tomato is in reproductive stage; wheat is in grain filling stage; *rabi* maize is in silking stage; sunflower is in flowering/grain filling stage; amaranthus is in grain filling stage; lucerne is in second cutting stage; chickpea is in pod development stage. Good soil moisture status is maintained by irrigation.

Anhra Pradesh

Overall, the average rainfall received in Andhra Pradesh from 01.06.2020 to 17.02.21 was recorded as 1088.7 mm as against the Normal as on date of 863.9 mm showing Excess by 26.0 percent. Agricultural operations in progress are threshing in horsegram and redgram and irrigation in groundnut. Phenological stages of various crops are bajra is at panicle developmet to flowering stage and groundnut is at flowering stage. Soil moisture status is inadequate. There is an above ETL intensity of leaf borer, Stem borer, BPH, sheath blight, last in paddy; Collar rot, thrips, leaf eating caterpillar, spodoptera, leaf spot in groundnut; Spodoptera and sucking pests in black gram; Maruca leaf folder in green gram. Soil moisture status is inadequate.

Odisha

Light rainfall has occurred at one or two places over the districts Sundargarh, Jharsuguda and Bargarh of North interior Odisha and weather has been dry over the rest districts of Odisha. Agricultural operations in progress are: transplanting of summer paddy; threshing of rabi pulses; harvesting of potato; harvesting and planting of sugarcane; threshing of long duration paddy; harvesting of pre-rabi pulses and oil seeds; intercultural operation of rabi maize; plant protection of rabi maize; intercultural operation and plant protection of tomato, brinjal and cole crop etc.; plant protection of groundnut. Phenological stages of crops are: tillering stage of early planted summer rice; transplanting stage of summer paddy, knee high stage of maize; flowering stage of sunflower; maturity stage of potato; tillering to panicle initiation stage of wheat; flowering to pod formation stage of mustard, sesamum and groundnut; tillering stage of ragi; harvesting stage of sugarcane; seedling stage of sugarcane; fruiting stage of beans and cowpea; maturity stage of pre-rabi pulses and oilseeds; flowering/fruiting stage of brinjal and chilli. Mild soil moisture deficient for growth of non-paddy crops in most of the districts of Odisha. There is a below ETL intensity of bacterial leaf blight, case worm, green leaf hopper, leaf folder, sheath blight and yellow stem borer in paddy.

Jammu

Mainly cloudy weather prevailed during this week. The maximum temperature remained variable and ranged from 18.2 to 23.6 °C, however minimum temperature remained above normal by 2-3 °C and ranged from 8.6 to 12.0 °C. Agricultural operations in progress are: application of 2nd dose of nitrogen fertilizer as top dressing in normal and early sown and 1st dose in late sown wheat crop; plant protection measures in mustard, vegetable and pulses crop; weed control measures in late and very late sown wheat crop; hoeing and weeding in chickpea and late sown mustard; harvesting of mature citrus fruit, to protect the fruit damage. Phenological stages of crops are: normal and early sown mustard is at most seed green stage; late sown mustard is at initiation of pod formation stage; early sown wheat is at flag leaf stage; normal sown wheat is at jointing stage; late sown wheat is at CRI stage; pulse crop is vegetative to branching stage; barley is at flag leaf stage. Soil moisture status is satisfactory. There is a mild intensity of aphids, yellow rust and *Aschochyta* blight & wilt in mustard, wheat and *rabi* pulse respectively.

Haryana

Generally variable and dry weather was observed. No rainfall was recorded during this period. Maximum and minimum temperatures were recorded below the normal

during this week. Agricultural operations in progress are pest/disease management in mustard crop as per crop needs and chemical spray for weed management and irrigation as per crop needs in wheat & barley. Phenological stages of different crops are: mustard crop at flowering and pod development stage as per date of sowing; wheat & barley at flag leaf to heading, tillering, jointing and booting stage as per date of sowing; sugarcane at grand growth stage; berseem at vegetative stage; potato at physiological maturity and tuber bulking stage as per date of sowing; gram at flowering and pod development stage as per date of sowing. Soil moisture status is deficient.

Madhya Pradesh

The maximum temperature is 35 °C and minimum temperature is 8 °C. Rainfall of 5-10 mm occurred at isolated places due to western disturbances. Day Temperature was 3 °C above normal over the state and night temperature was normal over the state. Agricultural operations in progress are insecticide application in gram, lentil, mustard and vegetables against pests; intercultural operations in november sown sugarcane; harvesting of early sown mustard, field pea and fodder berseem. Phenological stages of crops are: wheat at 50% spike formation stage; Gram and lentil at pod development stage; Mustard at physiological maturity stage; Mango and citrus at flowering stage. Soil moisture status is good after light rainfall in previous week. There is low intensity of pod borer and aphid in vegetable crops, mustard & lentil respectively.

Assam

Weather during the last week was mainly clear. Daily average maximum temperature was 27.5 °C which was 3.3 above normal and the average daily minimum temperature was 11.7 °C which was 0.8 below normal for the week. Agricultural operations in progress are top dressing of urea boro rice, harvesting of matured potato crop, land preparation of greengram and blackgram. Phenological stages of crops are: Rapeseed, potato and sugarcane at maturity stage; Rabi vegetables (Cole crops & others) at various stages. Soil moisture status is sufficient for healthy crop growth but additional water required for few crops.

Tamilnadu

Maximum temperature: 33.0 °C (normal 34.2 °C), minimum temperature: 14.7°C (normal 19.3 °C), rainfall: 0.0 mm (normal 2.2 mm). The maximum and minimum temperature were 1.2 °C and 4.6 °C below normal respectively and rainfall was 2.2 mm below normal across the week. Agricultural operations in progress are harvesting of

Sorghum, Maize and Cotton. Phenological stages of crops are: Cotton is in boll development to boll bursting stage; Paddy is in tillering to panicle initiation stage; Banana is in vegetative to bunch development stage; Chilies are flowering to fruiting stage; Guava is in fruiting stage; Coconut is in all stage; Brinjal is in vegetative stage; Onion is in vegetative to bulb formation stage; Bhendi is in vegetative to flowering stage; Jasmine is in flowering stage. There is a mild intensity of moderate intensity of wilt in banana; Thrips in chillies, bhendi, onion; Tea mosquito bug in guava; leaf folder and caseworm in rice; stem borer in brinjal; Rugose spiraling whitefly, rhinoceros beetle in coconut.

Punjab

The maximum temperature during the week ranged between 21.0-23.0 °C and minimum temperature ranged between 9.2-11.8 °C. Agricultural operations in progress are regular monitoring of pest and diseases in field crops. Phenological stages of crops are: early and normal sown wheat is in grain development stage; late sown wheat is in jointing and booting stage; mustard is in pod formation and pod filling stage. Soil moisture status is adequate.

West Bengal

The maximum temperature ranged from 25.5 to 31.0 °C and minimum temperature ranged from 13.0 to 17.9 °C. Agricultural operations in progress are: Boro Rice: Intercultural operations; Intercultural operations as well as harvesting in vegetables like brinjal, tomato, okra, bitter gourd, cucumber etc.; Intercultural operation including irrigation in mustard; harvesting in potato. Phenological stages of crops are: Tillering stage in Boro rice; Siliqua mature stage in mustard; Tuber bulking and maturity stage in potato; Vegetative and fruiting stage in Vegetables and all gourds; Maturity stage in cabbage and cauliflower; Vegetative as well as fruiting stage in chilli. Low intensity of blight is recorded in potato.

Himachal Pradesh

The maximum and minimum temperature ranged between 18.0 to 22.5 °C and 6.5 to 7.0 °C which was above normal by 2.1 to 6.5 °C and 0.2 to 1.0 °C. 1 mm rainfall was received during the week against the normal of 33.2 mm. agricultural operations in progress are arrangement of fodder for their cattle and dairy animals. Phenological stages of crops are: flowering stage in mustard; Tillering stage in wheat; Reproductive stage in winter vegetables. Soil moisture status is dry.

Chattisgarh

Agricultural operations in progress are: irrigation should be given in *rabi* crops chickpea, lathyrus, wheat, pea, winter maize, greengram, black gram, linseed, sunflower, sesamum, groundnut; intercultural operations in vegetable crops; sowing and preparation of nursery for leafy and other vegetables; need based application of insecticides in vegetables and pigeon pea against aphids, thrips, fruit and pod borer and other pests; Sowing of okra and cucurbitaceous vegetable crops of summer season. Phenological stages of crops are wheat crop in ear emergence & flouring stage; field pea, gram and lentil crops are in pod formation and pod filling stage; Safflower, mustard, linseed, toria are in pod formation stage; Brinjal and tomato are in fruiting to maturity stage; fruiting in mango crop is started; solanaceous vegetables are at maturity and harvesting stage while crucifers are at head formation and maturity stage; sugarcane is in physiological maturity stage. Soil moisture status is normal in most of the districts. There is low intensity of sucking pest and hopper in tomato, beans, cauliflower, cabbage, cowpea, brinjal.

Jharkhand

During this week maximum and minimum temperature range between 24.6 to 28.5 °C and 7.3 to 11.3 °C respectively. Maximum and minimum actual average temperatures are 26.8 °C and 9.6 °C, whereas normal maximum and minimum temperature are 25.9 °C and 10.8 °C respectively. Agricultural operations in progress are preparation for the cultivation of Green Gram, summer vegetables, especially cucurbitaceous plant like sponge gourd, Bottle gourd, pumpkin, water melon, musk melon etc., intercultural operation on the mustard crop and transplanting of summer rice. Phenological stages of crop are: Mustard crops are at seed hardening stage; December month sown wheat crop (85-90 Days of Sowing) is at flowering stage; lentil crops sown in the mid of November is at flowering to fruiting stages and Linseed crop is at full bloom or fruiting stage. Soil moisture status is normal.

Uttarakhand

Mainly clear sky condition was last week no rainfall observed. The maximum and minimum temperature range were 14.5 to 16.3 & 1.7 to 3.4 °C. No rainfall is expected during next few days. Agricultural operations in progress are: preparation nursery of tomato and cole crops; field preparation and sowing of potato crops in high hill; weeding all crops; harvesting mature leafy vegetable; pruning work and new plantation are progress in temperate orchards. Phenological stages of crops are: wheat, barley etc. is in stem elongation stage at valley under irrigate condition while tillering/jointing stage

under rainfed condition at mid to higher altitude; Grain filling in mustard; Growth stage Onion, Garlic as well as leafy vegetables. Soil moisture status is moderate.

Bihar

Dry weather prevailed in the state. Partial cloud was observed during the week. Maximum temperature ranged from 21.3 to 24.1 °C and the minimum from 10.5 to 12.3 °C. Agricultural operations in progress are: harvesting of matured tobacco crop and mustard; digging out of potato; irrigation in wheat, maize; planting of spring planted sugarcane setts is in progress; sowing of sweet potato and bhindi; interculturing and application of nitrogen in maize crop which is in 50 to 60 days stage. Phenological stages of crop are: wheat is in jointing to boot stage stage; maize is in knee high stage; spring planted sugarcane is in germination stage; mustard is in siliqua formation stage, potato crop is grand growth stage. Soil moisture status is normal.

Kerala

The maximum temperature ranges from 33.8 to 35.9 °C, minimum temperature ranges from 18.9 to 22.8 °C. Five cm morning soil temperature ranges from 24.9 to 28.0 °C and afternoon soil temperature ranges from 38.0 to 39.8 °C. Agricultural operations in progress are: since no rainfall is forecasted, drying of agricultural products and spraying of pesticides can be done; as the evaporation rate is higher during this time, irrigate the crops according to their needs and protect it with mulches; to provide drought tolerance to the summer crops, apply mycorrhiza to the soil before planting or sowing; in coconut, apply coir pith/coir pith compost in the basins to increase water holding capacity. Phenological stages of crops are: dough stage in second paddy crop (Mundakan); nearing harvest in pepper, ginger and coffee; harvest over in arecanut and cardamom. Moisture status is deficient. There is mild intensity of yellowing, sucking pests, rice bug, pumpkin beetle and mite in coconut, vegetables, rice, cucumber, bhendi.

Rajasthan

Maximum temperature ranged between 27.7 °C to 30.3 °C with mean 29.1 °C which was 2.7 °C above the normal and minimum temperature ranged between 7.4oC to 8.5 °C with mean 7.9 °C which was 0.0 °C below the normal. Agricultural operations in progress are: irrigation in wheat and barley; Harvesting of early sown mustard. Phenological stages of crops are wheat & barley is at heading stage and mustard at brown seed to maturity stage. soil moisture status is inadequate.

Weather during 11 February to 17 February 2021

Significant Weather Features

- Movement of a feeble Western Disturbance has caused isolated rainfall/snowfall activity over Western Himalayan Region and isolated rainfall/thunderstorm activity over some parts of Northwest India during the week; isolated hailstorm activity also had been reported from Western Himalayan Region during the passage of the system.
- Under the influence of an intense trough/wind discontinuity in low level easterlies supported by enhanced moisture incursion from Bay of Bengal, isolated to scattered rainfall/thunderstorm activity had been reported over Central India and adjoining areas of Northwest and East India during the second half of the week; isolated hailstorm activity also had been reported from parts of Central India and isolated heavy rainfall on a single day had been reported over East Madhya Pradesh during the same period.
- Movement of easterly waves has caused isolated to scattered rainfall/thunderstorm activity over Andaman & Nicobar Islands along with isolated heavy rainfall on one day during the week.
- Remnants of Western Disturbances have caused isolated to scattered rainfall/thunderstorm activity over Northeast and adjoining areas of East India during the week.

Heavy Rainfall Activity:

- Heavy rain had occurred at isolated places over Andaman & Nicobar Islands and East Madhya Pradesh on one day each during the week

Fog

- Dense to very dense fog had occurred at most places over Haryana, Chandigarh & Delhi and Punjab on one day each; at many places over Punjab on five days and over Haryana, Chandigarh & Delhi on two days; at a few places over Haryana, Chandigarh & Delhi on two days and over Punjab, East & West Uttar Pradesh on one day each; at isolated places over West Rajasthan on four days, over Haryana,

Chandigarh & Delhi and East Uttar Pradesh on two days each and over West Uttar Pradesh and Odisha on one day each during the week.

- Dense fog had occurred at isolated places over West Uttar Pradesh on two days during the week.

Temperature Scenario

- The lowest minimum temperature of **5.0 °C** had been recorded at **Sikar (East Rajasthan)** on **11th February 2021** over the plains of the country during the week.

METEOROLOGICAL ANALYSIS

- The remnant of Last week's Western Disturbance was seen as a trough in mid-tropospheric westerlies with its axis at 3.1 km above mean sea level roughly along longitude 88°E to the north of latitude 24°N on 11th February 2021; it lay roughly along longitude 91°E to the north of latitude 24°N on 12th; it has moved away eastwards in the morning of 13th February 2021.
- Last week's cyclonic circulation over Bangladesh & neighbourhood at 1.5 km above mean sea level persisted over the same region and was seen at the same level on 11th February 2021; it has become less marked on 12th February 2021.
- Last week's cyclonic circulation over Haryana & neighbourhood extending upto 0.9 km above mean sea level has become less marked on 11th February 2021.
- Last week's cyclonic circulation over Comorin area & neighbourhood at 1.5 km above mean sea level has become less marked on 11th February 2021.
- A feeble Western Disturbance lay as a trough in mid-tropospheric westerlies with its axis at 3.1 km above mean sea level roughly along Longitude 72°E to the north of Latitude 32°N on 11th February 2021; it was seen as a cyclonic circulation over Jammu & Kashmir and neighbourhood between 3.1 & 3.6 km above mean sea level on 12th; it has become less marked on 13th February 2021.
- A trough in low level easterlies ran from central Kerala to Vidarbha across Interior Karnataka & Marathwada at 0.9 km above mean sea level on 11th February 2021 and it persisted with the same orientation at the same level on 12th; it ran from Southeast Arabian sea off Kerala coast to the cyclonic circulation over north Madhya Maharashtra across south Konkan & Goa at 0.9 Km above mean sea level on 13th; it ran from north Kerala coast to the cyclonic circulation over north Madhya

Maharashtra across Interior Karnataka at 0.9 km above mean sea level on 14th; it ran from Coastal Karnataka to the cyclonic circulation over north Madhya Maharashtra at 0.9 km above mean sea level on 15th; it ran from south Konkan to the cyclonic circulation over Vidarbha and neighbourhood across Madhya Maharashtra at 0.9 km above mean sea level on 16th; it ran from North Interior Karnataka to the cyclonic circulation over Vidarbha, across south Madhya Maharashtra & Marathawada at 0.9 km above mean sea level on 17th February 2021.

- A cyclonic circulation lay over Equatorial Indian Ocean & adjoining central parts of South Bay of Bengal and extended upto 3.1 km above mean sea level on 11th February 2021; it persisted over the same region and extended upto 1.5 km above mean sea level on 12th; it has shifted southwards and has become unimportant on 13th February 2021.
- A cyclonic circulation lay over southwest Rajasthan & neighbourhood and extended upto 1.5 km above mean sea level on 13th February 2021; it lay over northwest Rajasthan & neighbourhood and extended upto 0.9 km above mean sea level on 14th; it lay over central parts of West Rajasthan & neighbourhood and extended upto 0.9 km above mean sea level on 15th; it lay over East Rajasthan and neighbourhood and extended upto 0.9 km above mean sea level on 16th; it lay over southeast Rajasthan & neighbourhood and extended upto 0.9 km above mean sea level on 17th February 2021.
- A cyclonic circulation lay over north Madhya Maharashtra & neighbourhood and extended upto 0.9 km above mean sea level on 13th; it persisted over the same region extending upto 0.9 km above mean sea level on 14th and 15th; it lay over Vidarbha and neighbourhood and extended upto 0.9 km above mean sea level on 16th; it persisted over the same area and extended upto 1.5 km above mean sea level on 17th February 2021.
- A trough in easterlies ran from Equatorial Indian Ocean to Southwest Bay of Bengal and extended upto 1.5 km above mean sea level on 13th February 2021 and it persisted on 14th; it has become less marked on 15th February 2021.
- A Western Disturbance was seen as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along longitude 60°E to the north of latitude 30°N in the evening of 12th February 2021; it ran roughly along longitude 64°E to the north of latitude 28°N on 13th; it was seen as a cyclonic circulation over north Pakistan & neighbourhood at 3.6 km above mean sea level with a trough aloft

in mid tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along longitude 71°E to the north of latitude 32°N on 14th; the cyclonic circulation associated with the Western Disturbance has become less marked however, the associated trough aloft in mid tropospheric westerlies with its axis at 5.8 km above mean sea level ran roughly along longitude 72°E to the north of latitude 32°N on 15th; it ran roughly along longitude 76°E to the north of latitude 28°N on 16th; it ran roughly along longitude 80°E to the north of latitude 28°N in the forenoon of 17th; it was seen as a cyclonic circulation over Uttarakhand and neighbourhood at 5.8 km above mean sea level in the afternoon of 17th February 2021.

- A trough ran from the cyclonic circulation over northwest Rajasthan & neighbourhood to central parts of Madhya Pradesh at 0.9 km above mean sea level on 14th February 2021; it ran from the cyclonic circulation over central parts of West Rajasthan & neighbourhood to central Madhya Pradesh at 0.9 km above mean sea level on 15th; it has become less marked on 16th February 2021.
- A trough in westerlies with its axis at 3.1 km above mean sea level ran roughly along longitude 90°E to the north of latitude 25°N on 16th February 2021; it has moved away east-northeastwards on 17th February 2021.
- A cyclonic circulation lay over East Bangladesh & neighbourhood at 1.5 km above mean sea level on 17th February 2021.

Average rainfall during the week

- The All India area weighted rainfall during the week 1 mm was below normal (3.1 mm).
- The subdivision-wise weekly rainfall distribution is presented in Fig.1. Rainfall was Large excess in 3, excess in 0 normal in 0, deficit in 2, Large deficit in 12 and no rain in 19 out of 36 meteorological sub-divisions.

Cumulative Seasonal rainfall (01st January to 17th February 2021)

- The cumulative seasonal rainfall during 01st January to 17th February 2021 over the country as a whole was 22.7 mm which is 25.08% below normal rainfall of 30.3 mm.
- The subdivision-wise seasonal rainfall distribution is presented in Fig. 2. Rainfall was Large excess in 11, excess in 1, normal in 1, deficit in 9 and L. deficit in 13 and no rain in 1 out of 36 meteorological sub-divisions.

State-wise distribution of rainfall in number of districts with large excess, excess, normal, deficient, large deficient and no rainfall during pre monsoon season (01st January to 17th February 2021)

- In the country, 21% districts received large excess, 4% districts received excess and 3% districts normal rainfall during pre monsoon season so far. However, 12% districts received deficient, 38% districts received large deficient rainfall and 22% districts received no rainfall and 2 districts received no data. (Table-1).

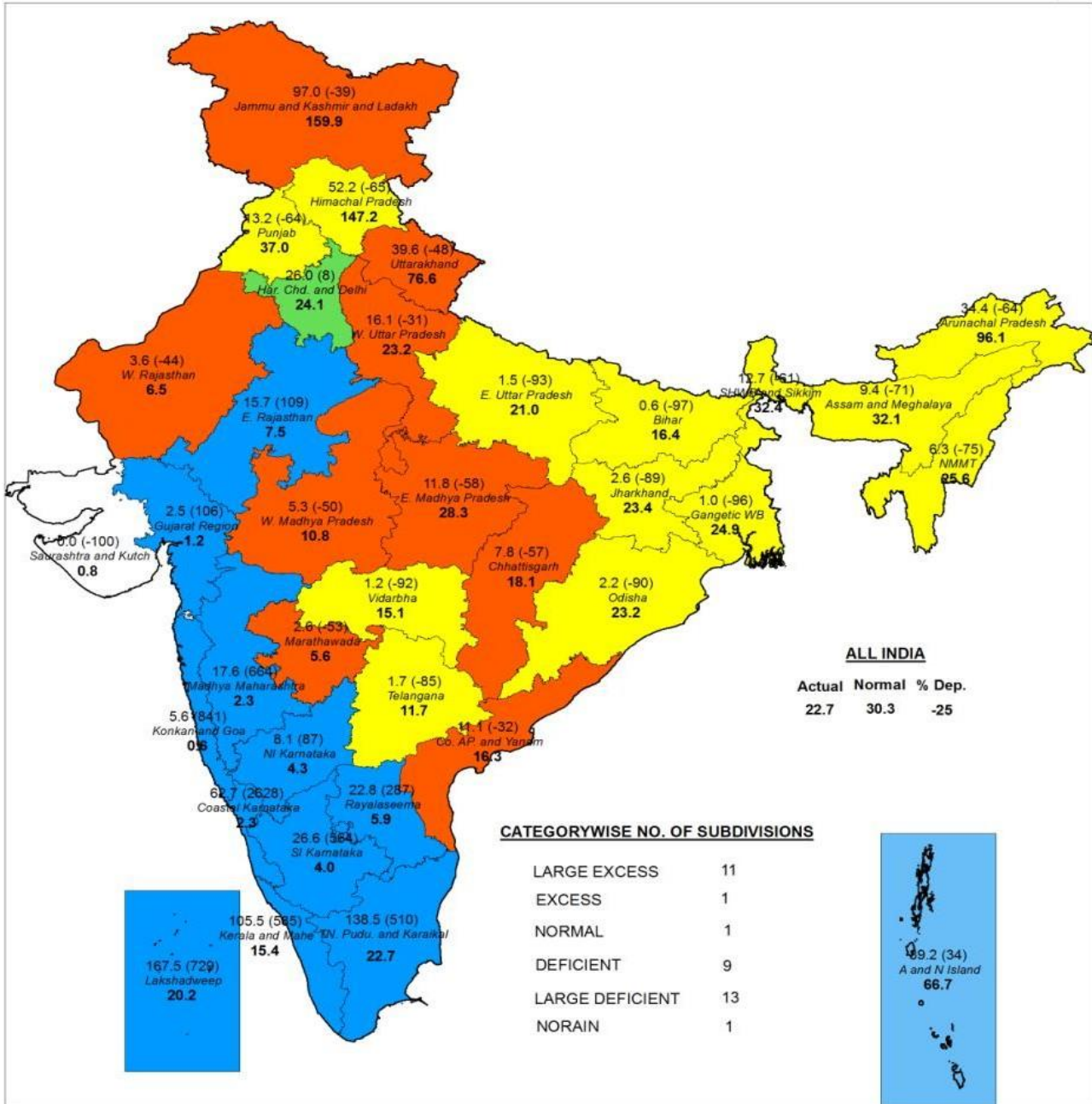
Weekly rainfall departure (%) at different IMD subdivisions (2021)

During the week under report 3 Sub-divisions viz.; Andaman & Nicobar Islands, East Madhya Pradesh and Chattisgarh received large excess rainfall, remaining Sub-divisions received either deficit/large deficit/no rainfall. (Table-2)



SUBDIVISION RAINFALL MAP

Period : 01-01-2021 To 17-02-2021



CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	11
EXCESS	1
NORMAL	1
DEFICIENT	9
LARGE DEFICIENT	13
NORAIN	1

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

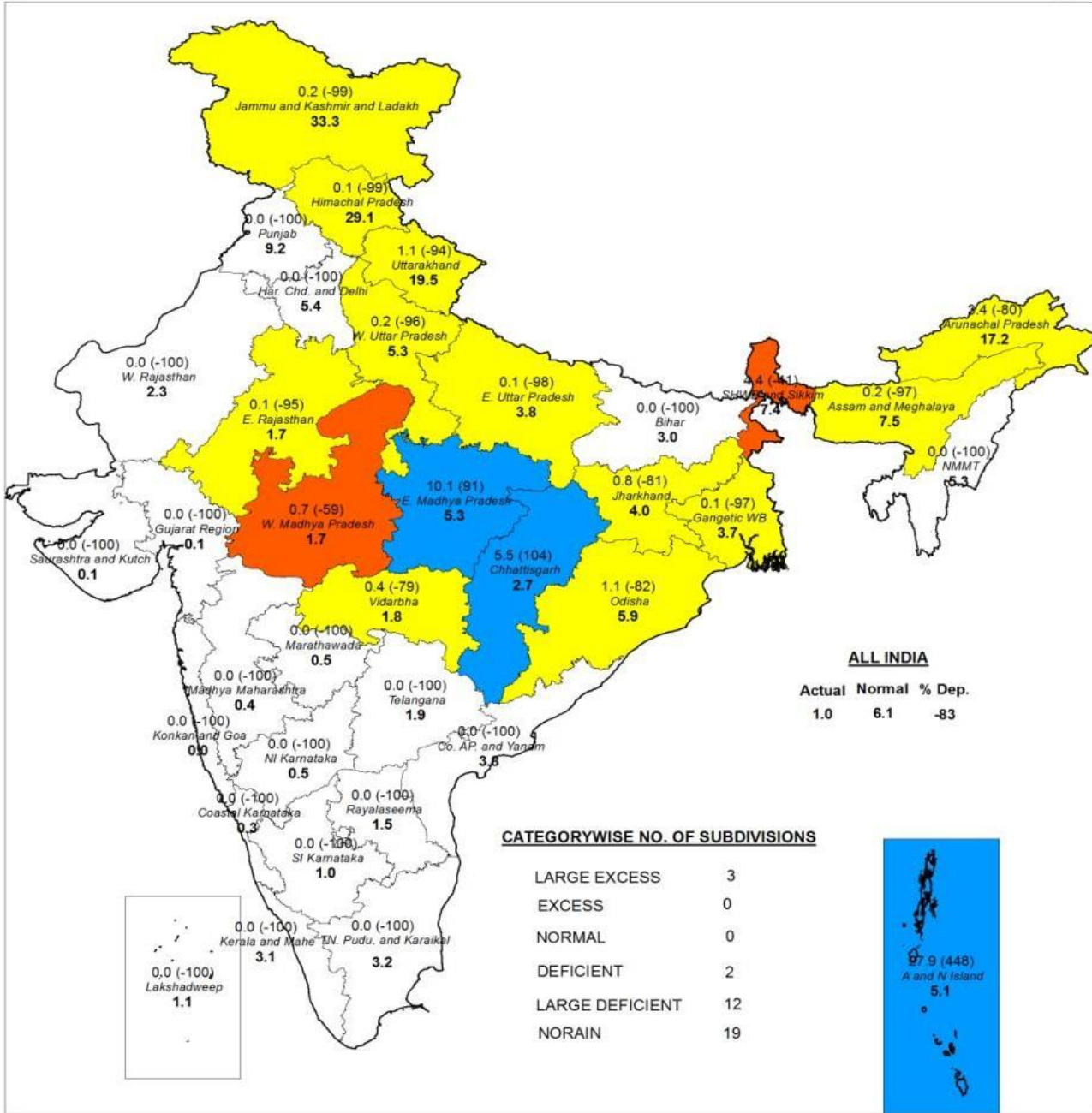
NOTES :

- 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.



SUBDIVISION RAINFALL MAP

Week : 11-02-2021 To 17-02-2021



Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -80%] | 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.

Table 1. State wise distribution of number of districts with large excess, excess, normal, deficient, large deficient, no rainfall and data inadequate shown (01.01.2021 to 17.02.2021)

S. No.	STATES	PERIOD FROM : 01.01.2021 TO 17.02.2021						TOTAL	
		LE	E	N	D	LD	NR		ND
1	A & N ISLAND (UT)	1	0	1	1	0	0	0	3
2.	ARUNACHAL PRADESH	0	0	0	4	12	0	0	16
3.	ASSAM	1	1	2	5	14	4	0	27
4.	MEGHALAYA	0	0	0	0	2	5	0	7
5.	NAGALAND	0	0	0	0	11	0	0	11
6.	MANIPUR	0	0	0	1	8	0	0	9
7.	MIZORAM	0	0	0	0	8	0	0	8
8.	TRIPURA	0	0	1	0	3	0	0	4
9.	SIKKIM	0	0	0	1	3	0	0	4
10.	WEST BENGAL	0	0	0	0	12	7	0	19
11.	ODISHA	0	0	0	2	11	17	0	30
12.	JHARKHAND	0	0	0	0	15	9	0	24
13.	BIHAR	0	0	0	0	16	22	0	38
14.	UTTAR PRADESH	4	2	5	8	41	15	0	75
15.	UTTARAKHAND	0	0	0	11	2	0	0	13
16.	HARYANA	7	4	4	5	1	0	0	21
17.	CHANDIGARH (UT)	0	0	0	0	1	0	0	1
18.	DELHI	3	3	1	1	0	0	1	9
19.	PUNJAB	0	0	1	4	15	0	0	20
20.	HIMACHAL PRADESH	0	0	0	5	7	0	0	12
21.	JAMMU & KASHMIR(UT)	0	4	2	10	4	0	0	20
22.	LADAKH(UT)	0	0	0	1	1	0	0	2
23.	RAJASTHAN	14	6	2	0	6	5	0	33
24.	MADHYA PRADESH	7	1	3	7	33	0	0	51
25.	GUJARAT	8	0	0	0	1	24	0	33
26.	DADRA & NAGAR HAVELI (UT)	0	0	0	0	0	1	0	1
27.	DAMAN & DIU (UT)	0	0	0	0	0	2	0	2
28.	GOA	2	0	0	0	0	0	0	2
29.	MAHARASHTRA	9	1	0	5	5	15	1	36
30.	CHHATISGARH	0	2	1	8	4	12	0	27
31.	ANDHRA PRADESH	5	0	0	0	5	3	0	13
32.	TELANGANA	2	0	1	4	15	11	0	33
33.	TAMILNADU	37	0	0	0	0	0	0	37
34.	PUDUCHERRY (UT)	3	0	0	0	0	1	0	4
35.	KARNATAKA	25	0	0	1	3	1	0	30
36.	KERALA	14	0	0	0	0	0	0	14
37.	LAKSHADWEEP (UT)	1	0	0	0	0	0	0	1
	TOTAL	143	24	24	84	259	154	2	690
CATEGORYWISE DISTRIBUTION OF DISTRICTS OUT OF THE 688 WHOSE DATA RECEIVED		21%	4%	3%	12%	38%	22%		

Table 2.Weekly Rainfall Departure (%) at different IMD subdivisions (2021)

S.No.	Meteorological Sub Division	27 Jan				
		20 Jan (03)	(04)	03 Feb (05)	10 Feb (06)	17 Feb (07)
1	Andaman & Nicobar Islands					
2	Arunachal Pradesh					
3	Assam & Meghalaya					
4	Nagaland, Manipur, Mizoram, Tripura					
5	Sub-Himalayan West Bengal & Sikkim					
6	Gangetic West Bengal					
7	Orissa					
8	Jharkhand					
9	Bihar					
10	East Uttar Pradesh					
11	West Uttar Pradesh					
12	Uttarakhand					
13	Haryana, Chandigarh & Delhi					
14	Punjab					
15	Himachal Pradesh					
16	Jammu & Kashmir					
17	West Rajasthan					
18	East Rajasthan					
19	West Madhya Pradesh					
20	East Madhya Pradesh					
21	Gujarat Region					
22	Saurashtra, Kutch & Diu					
23	Konkan & Goa					
24	Madhya Maharashtra					
25	Marathwada					
26	Vidarbha					
27	Chhattisgarh					
28	Coastal Andhra Pradesh					
29	Telangana					
30	Rayalaseema					
31	Tamil Nadu & Pondicherry					
32	Coastal Karnataka					
33	North interior Karnataka					
34	South interior Karnataka					
35	Kerala					
36	Lakshadweep					

LEGEND:

L. Excess: (+60 % or more)	Blue
Excess: (+20 % to +59 %)	Light Blue
Normal: (+19 % to -19 %)	Green
Deficient: (-20 % to -59 %)	Orange
L. Deficient: (-60 % to -99 %)	Yellow
No Rain: (-100 %)	Grey
No Data:	White

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