

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 12 – 18 Feb-2023

Akola

Weekly average means (07 MW) at AICRPAM Akola centre: T max 33.2°C (normal 32.7°C), T min 10.8°C (normal 14.4°C). Maximum temperature across the week was 0.6 °C above normal with a deviation of -1.4 to +2.2°C from normal. Minimum temperature across the week 3.6°C below normal with a deviation of -4.6 to -1.9°C from normal. Agricultural operations in progress are harvesting of matured earlier sown chickpea and safflower is being undertaken. After last picking of cotton, removal and destruction of crop residues is being carried out. Irrigation as when required is given in rabi and summer crops. Sowing of summer green gram is underway. Phenological stages of different crops are chickpea is at seed development/ maturity stage. Wheat is in heading/anthesis/grain filling. Safflower crop is through maturity/harvest stage. Summer sown groundnut, sunflower and sesame are at germination to post germination stage. Moisture status is inadequate.

Anand

The actual maximum temperature was 2.31 °C and minimum temperature was 0.2 °C higher as compared to their normals. Agricultural operations in progress are need base plant protection measures. Harvesting of matured leaves of bidi tobacco. Harvesting of okra, brinjal, chilli, tomato etc. Irrigate *rabi* crops as and when required. Harvesting of mustard. Land preparation and sowing of summer crops. Phenological stages of different crops tomato, brinjal and chilli are in fruiting/picking stage. Transplanted *rabi* tobacco is in flowering stage. Bidi tobacco is in maturity stage. Mustard is in maturity/harvesting stage. Sunflower are in grain filling stage. wheat is in flowering/milking stage. Chickpea is in pod development stage. Moisture status is good-maintain by irrigation.

Anantapur

During the period 01.06.2022 to 09.02.2023, Andhra Pradesh state received 895.0 mm rainfall (+3.1% deviation from the normal rainfall), Coastal A.P received 996.2mm rainfall (+4.2% deviation from the normal rainfall) and Rayalaseema received 740.1 mm rainfall (+10.3% deviation from the normal rainfall). Agricultural operations in progress are threshing in redgram is under progress. Phenological stages of different crops are groundnut is at pod development stage and horsegram is at maturity to harvesting stage. Moisture status is deficit.

South Karnataka

State actual rainfall during 1st January 2023 to 15th February 2023 was 1.0 mm as against the normal of 3.0 mm with (-) 69 % deviation. Whereas, SIK 1.0 mm of rainfall as against the normal of 3.0 mm leading to (-) 78 % deviation. Agricultural operations in progress are harvesting of redgram and other short duration pulse crop are in progress, dry the harvested produce properly. Phenological stages of different crops are all *rabi* crops are in harvesting stage. Moisture status is dry soil condition observed in crop field.

Bhubaneshwar

Light Rain has occurred at one or two places over the districts of Balasore of North Coastal Odisha and dry weather prevailed over the rest districts of Odisha. Agricultural operations in progress are transplanting of summer paddy. Harvesting of Pre-Rabi pulses and Oilseed. Harvesting and Planting of Sugarcane. Intercultural operation and plant protection of Rabi Maize, Pulses, Oil seeds and Spices. Plant protection of Cole crops, brinjal, chilli and tomato. Plant protection of marigold, chrysanthemum and rose. Harvesting of Potato. Phenological stages of different crops are transplanting stage of summer paddy. Knee high stage of Maize. Seedling stage of sugarcane. Flowering to pod formation stage of sesame and Ground nut. Flowering to fruiting stage of brinjal, tomato and chilli. Vegetative stage of onion, garlic, Cole crops. Flowering to fruiting stage of okra and cucurbit. Flowering stage of tuberose, jasmine, marigold, chrysanthemum. Fruiting stage of Bean and Cowpea. Maturity stage of Pre rabi pulses and oilseed. Moisture status is mild moisture deficient for growth of both paddy and non-paddy crops in most of the districts of Odisha.

Jammu

Mainly partially cloudy to clear weather prevailed during this week with 0.4 mm rainfall. The maximum temperature remains above normal by 1 to 3°C and remain in the range of 18.6 to 23.6°C. While minimum temperature remained variable and remain in the range of 6.4 to 12.6°C. Agricultural operations in progress are hoeing and weeding in chickpea and late sown mustard. Application of nitrogen fertilizer (2nd Dose) in normal sown wheat crop. Top dressing of urea in late sown wheat crop. Plant protection measures in mustard, vegetable and pulses crop. Weed control measures in late sown wheat crop. Phenological stages of different crops are early sown mustard is at most seed green stage. Normal sown mustard is at pod formation. Early sown wheat is at anthesis stage. Normal sown wheat is at flag leaf stage. Late sown wheat is at jointing stage. Very late sown wheat is at CRI stage. Pulse crop is at pod formation stage. Field pea is at pod formation stage. Moisture status is satisfactory.

Konkan region

During last week 0.0 mm rainfall was recorded at Dapoli center. The maximum and minimum temperature ranged from 34.2 to 36.7 and 10.4 to 14.5°C respectively. Agricultural operations in progress are protective spray at inflorescence to fruit setting stages in mango and cashewnut. Irrigation to coconut, arecanut & new fruit crop orchard. Fertilizer application to arecanut, vegetable crop, sapota. Harvesting of black pepper, turmeric in ongoing. Phenological stages of different crops are *rabi* vegetable crops in flowering to fruiting. Mango and cashewnut

inflorescence to fruit setting. Rabi pulses in to pod filling stage flowering. Moisture status is medium.

Faizabad

Dry weather, average temperature is almost normal. Agricultural operations in progress are top dressing of fertilizer in wheat, inter culture operation in autumn sugarcane, transplanting of rabi onion. Phenological stages of different crops are land preparation and sowing of *zaid* vegetables, digging of potato. Soil moisture is below the normal.

Kanpur

Clear sky and no rainfall forecast during 18-22 February. Maximum temperature may be 4-5°C above than its normal and minimum temperature may be 3-4°C above than its normal. Agricultural operations in progress are in wheat: irrigation and top-dressing urea. barley: irrigation and top-dressing urea. pigeon pea: watchful insect and pest. gram: spray insecticide and pesticide. pea: spray insecticide and pesticide. lentil: spray flowering growth regulator. mustard: light irrigation and watchful insect and pest. brinjal/chilies: plucking, marketing and watchful insect and pest. leafy vegetable: cutting and marketing and watchful insect and pest. potato: dig out early sown crop. take precaution from late blight. animal: protect from common diseases and cold wheat: tillering/jointing/pi, barley: jointing/ pi, pigeon pea: flowering/podding, gram: branching/ flowering/podding, pea: flowering/ podding, lentil: flowering/ padding, mustard: flowering/podding, vegetables: flowering and fruiting. moisture status is semi-wet.

Kovilpatti

At Kovilpatti center, maximum temperature: 34.3°C (normal 34.2°C), minimum temperature: 16.7°C (normal 19.3°C), rainfall: 0.0 mm (normal 2.2°C mm). The maximum and minimum temperature was 0.1°C and 2.6°C above & below normal respectively and the rainfall was 2.2 mm below normal across the week. Agricultural operations in progress are spraying of pesticide in cotton. Harvesting of pulses and millets. Phenological stages of different crops are chillies are flowering to fruiting stage. Pulses are harvested. Rice is in flowering to panicle initiation stage. Maize is at harvest stage. Cotton is in boll development stage. Groundnut and Maize is at harvest stage. Sorghum is at harvest stage.

Ludhiana

The maximum temperature during the week ranged between 19.8-28.6 °C and minimum temperature ranged between 5.4-13.2 °C. Agricultural operations in progress are monitoring of insect-pest and diseases. Irrigation to wheat and other rabi crops. Phenological stages of different crops are Wheat in booting and ear emergence stage and mustard in flowering stage. Moisture status is normal.

Weather during 09 - 15 February, 2023

Significant Weather Features

- Movement of Western Disturbance had caused fairly widespread to widespread rainfall/snowfall/thunderstorm activity over Jammu Kashmir & Ladakh and Himachal Pradesh on one or two days along with isolated to scattered rainfall/snowfall/thunderstorm activity over these areas on two to three days whereas isolated rainfall/thunderstorm activity had occurred over Uttarakhand on two to three days during the week; Passage of the system and its induced cyclonic circulation had caused isolated rainfall/thunderstorm activity over adjacent plains also on a single day.
- Remnants of Western Disturbances had caused scattered to fairly widespread rainfall/snowfall/thunderstorm activity over Arunachal Pradesh on four to five days and over Sub-Himalayan West Bengal & Sikkim on one or two days; under their influence, isolated rainfall/thunderstorm activity had occurred over Assam & Meghalaya on four to five days and over Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura on three to four days whereas isolated rainfall/snowfall/thunderstorm activity had occurred over Arunachal Pradesh on a single day; isolated heavy rainfall also had occurred over Arunachal Pradesh on one day along with.
- Strong surface winds of the order of 25 to 35 kmph prevailed over the plains of Northwest India on a few days during the week.
- **Heavy Rainfall:**
- **Heavy rainfall at isolated places** had occurred over Arunachal Pradesh on one day during the week.
- **Fog:**
- **Dense to very dense fog** had been reported at isolated places over Punjab, Haryana, Chandigarh & Delhi, Odisha, Bihar, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura on one day each during the week.
- **Dense fog** had been reported at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar and Saurashtra & Kutch on one day each during the week.
- **Temperature Scenario:** The highest maximum temperature of **38.3°C** had been recorded at **Ratnagiri (Konkan & Goa)** on **13th & 14th February 2023** and the lowest minimum temperature of **3.6°C** had been recorded at **Amritsar (Punjab)** on **13th February 2023** over the plains of the country during the week.

METEOROLOGICAL ANALYSIS

- Last week's Western Disturbance as a cyclonic circulation over west Iran and neighbourhood between 5.8 km & 7.6 km above mean sea level was seen as a trough in lower & middle tropospheric westerlies with its axis at 3.1 km above mean sea level roughly along Long. 60°E to the north of 30°N on 9th February 2023; it was seen as a trough in lower & middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 65°E to the north of 32°N on 10th; it was seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 69°E to the north of 32°N on 11th and roughly along Long. 73°E to the north of 32°N on 12th; it has moved away east-northeastwards on 13th February 2023.
- An induced cyclonic circulation lay over central Pakistan & adjoining West Rajasthan and extended upto 1.5 km above mean sea level on 9th February 2023; it lay over Punjab & neighbourhood and extended upto 1.5 km above mean sea level on 10th; it has become less marked on 11th February 2023.
- A feeble Western Disturbance was seen as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 68°E to the north of Lat. 35°N on 14th February 2023; it has moved away east-northeastwards on 15th February 2023.
- A cyclonic circulation lay over Tripura & neighborhood and extended upto 3.1 km above mean sea level on 14th February 2023; it persisted over the same areas extending upto 3.1 km above mean sea level on 15th February 2023.

Weekly rainfall departure (%) at different IMD subdivisions (2023)

During the week 01 sub-divisions viz; Andaman & Nicobar Islands received large excess rainfall and the remaining sub-divisions received either deficit/large deficit/no rainfall. (Table 1).

Meteorological Sub Division	26 Jan (04)	02 Feb (05)	09 Feb (6)	16-Feb (07)
Andaman & Nicobar Islands				
Arunachal Pradesh				
Assam & Meghalaya				
Nagaland, Manipur, Mizoram, Tripura				
Sub-Himalayan West Bengal & Sikkim				
Gangetic West Bengal				
Orissa				
Jharkhand				
Bihar				
East Uttar Pradesh				
West Uttar Pradesh				
Uttarakhand				
Haryana, Chandigarh & Delhi				
Punjab				
Himachal Pradesh				
Jammu & Kashmir				
West Rajasthan				
East Rajasthan				
West Madhya Pradesh				
East Madhya Pradesh				
Gujarat Region				
Saurashtra, Kutch & Diu				
Konkan & Goa				
Madhya Maharashtra				
Marathwada				
Vidarbha				
Chhattisgarh				
Coastal Andhra Pradesh				
Telangana				
Rayalaseema				
Tamil Nadu & Pondicherry				
Coastal Karnataka				
North interior Karnataka				
South interior Karnataka				
Kerala				
Lakshadweep				

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:	